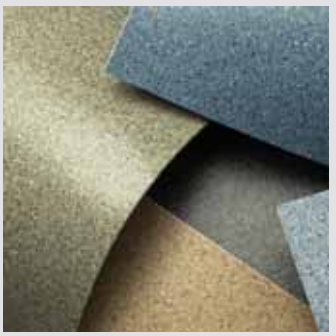
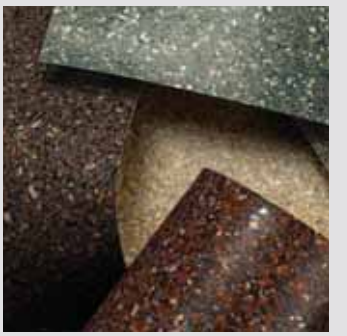
Mannington Works.

commercial HARD SURFACE FLOORING











Mannington **Works.**

Mannington Commercial, headquartered in Calhoun, Georgia, has the unique distinction of being the only U.S. manufacturer to produce both hard and soft surface flooring for the contract market. Mannington takes pride in delivering high performing products that are fashionable and environmentally responsible. These styles and performance attributes coordinate beautifully in a variety of commercial interiors – healthcare, education, retail and corporate.

Mannington's manufacturing facility in Salem, New Jersey is 500 acres uniquely surrounded by wetlands. It is here that most of the hard surface flooring is produced. Some of the highlights coming out of this facility and shown in this catalogue are:

- An extensive palette of exciting vinyl composition tiles ideal for any design you can imagine.
- High performance slip retardant flooring that inspires confidence by delivering safety and security.
- Inlaid sheet flooring manufactured with Mannington's patented dimensional sculpturing inlaid technology that provides stain and scuff resistance for long-term appearance retention.
- NatureForm™ surface embossing technology that makes our heterogeneous nature-inspired patterns convincingly real.
- Relay, homogeneous sheet flooring, manufactured using pre-consumer recycled content from carpet tile trim waste.
- Luxury vinyl tile (LVT) achieves remarkable realism by combining the latest advances in imaging, texturing and finishing to create the most authentic resilient products ever developed.
- Commercial wood made from only premium select wood species for top face and 100% North American hardwoods for the inner plies for durability that shows.
- Third party certified via the FloorScore IAQ testing program and CHPS 01350.

Read on…or visit www.manningtoncommercial.com...to experience Mannington's full range of hard surface flooring options… that are right for every room.









Mannington **Works.**

table of contents

luxury vinyl tile / plank
- Nature's Paths 8-9
- Nature's Paths Select 10-11

advanced composite
- ICORE 14

commercial hardwood
- Prestige 18
- Legacy 19

slip-retardant sheet
- Mannington Assurance II 22

homogeneous inlaid
- Relay 26
- LifeLines II 27-31
- BioSpec 32

inlaid
- FineFields 36
- Magna 38-39

heterogeneous light
- Insight 42-53
- CustomSpec II 54-61

heterogeneous
- Realities 64-69

premium visual tile
- Inspirations 72
- Brushwork 73
- ColorPoint 74
- SolidPoint 75

slip-retardant tile
- SafeWalks 78

vinyl composition tile
- Essentials 82
- Designer Essentials 83

technical section
- Specifications 86-102
- Adhesives and Sealers 103-108
- Installation 109-129
- Maintenance 130-139
- Warranties 140-149
- Stain Test Data Chart 150-151
- Recommended Use Chart 152-153
- Specifications Comparision Chart 154-155
- Weld Rod Color Match Up Chart 156-157



Mannington **Works.**

luxury vinyl tile and plank

The path to perfection

A resilient flooring that offers the performance and durability needed for today's high-traffic commercial applications. Featuring a balanced collection of visuals in wood and natural materials, Nature's Paths can be transformed into countless custom designs.

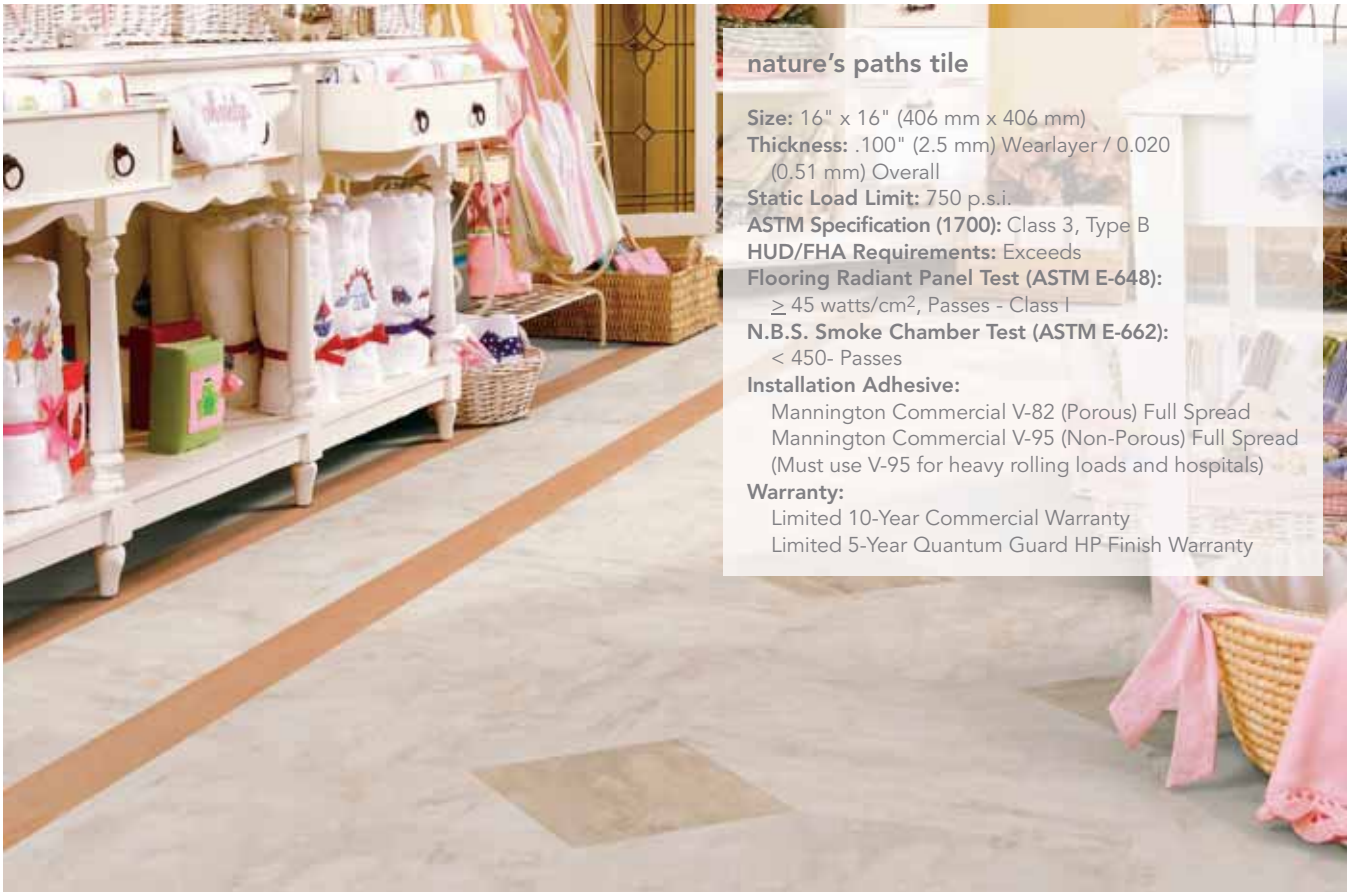
Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance, cleanability, durability, and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Nature's Path achieves remarkable realism through a proprietary process called NATUREFORM OPTIX™, which combines the latest advances in imaging, texturing and finishing to create the most beautifully authentic resilient products ever developed.

For the path more traveled.

Nature's Paths™
Nature's Paths™ Select

■ nature's paths tile



nature's paths tile

Size: 16" x 16" (406 mm x 406 mm)
Thickness: .100" (2.5 mm) Wearlayer / 0.020 (0.51 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (1700): Class 3, Type B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648): ≥ 45 watts/cm², Passes - Class I
N.B.S. Smoke Chamber Test (ASTM E-662): < 450- Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and hospitals)
Warranty:
Limited 10-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


birdseye maple amber 12127


birdseye maple spice 12128


birdseye maple champagne 12129


birdseye maple natural 12130


onyx alaskan 12137


onyx silvery 12138


onyx classic 12139


stonewash mineral beige 12131


stonewash alabaster 12132


stonewash tea stain 12133


stonewash limestone 12134


stonewash iron ore 12135


stonewash oxide 12136

product benefits

- Imparts the grandeur and beauty of natural materials with NatureForm Optix™ imaging, texturing and finishing
- Can be transformed into countless custom designs
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic

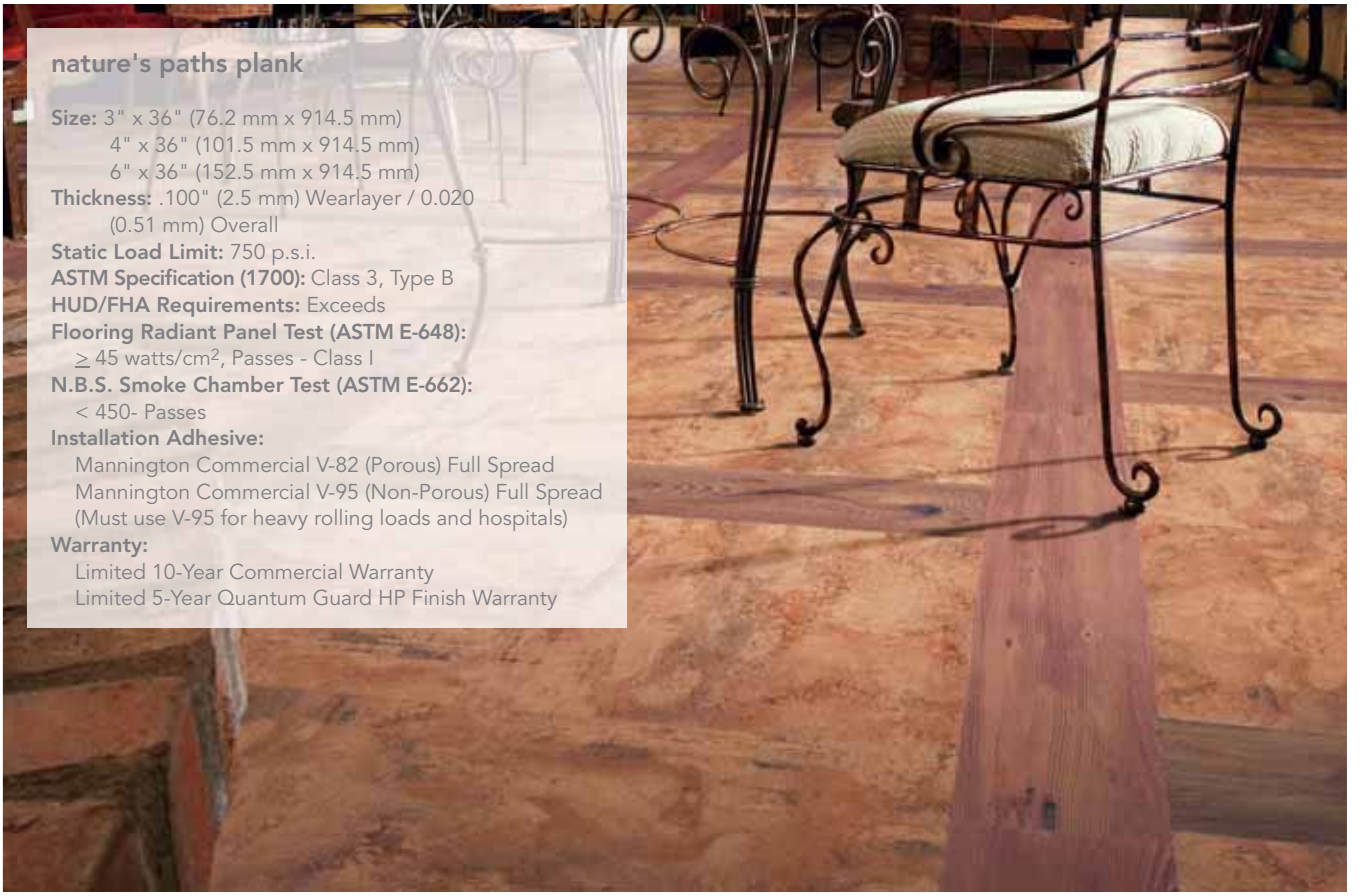
suggested end use

education healthcare offices retail hospitality

available width

16" X 16"

patent #6,218,001 and #6,291,078



nature's paths plank

Size: 3" x 36" (76.2 mm x 914.5 mm)
4" x 36" (101.5 mm x 914.5 mm)
6" x 36" (152.5 mm x 914.5 mm)
Thickness: .100" (2.5 mm) Wearlayer / 0.020 (0.51 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (1700): Class 3, Type B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648):
≥ 45 watts/cm², Passes - Class I
N.B.S. Smoke Chamber Test (ASTM E-662):
< 450- Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and hospitals)
Warranty:
Limited 10-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



product benefits

- Imparts the grandeur and beauty of natural materials with NatureForm Optix™ imaging, texturing and finishing
- Can be transformed into countless custom designs
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic

suggested end use

education healthcare offices retail hospitality

available width

3" X 36" Plank (3W), 4" X 36" Plank (4W), 6" X 36" Plank (6W)

patent #6,218,001 and #6,291,078

■ nature's paths select tile



nature's paths select tile

Size: 18" x 18" (457.2 mm x 457.2 mm)
Thickness: .100" (2.5 mm) Wearlayer / 0.020 (0.51 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (1700): Class 3, Type B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648): ≥ 45 watts/cm², Passes - Class I
N.B.S. Smoke Chamber Test (ASTM E-662): < 450- Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 10-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


fresco burnished nickel 12171

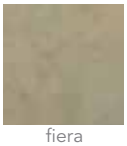
fresco moonshadow 12172

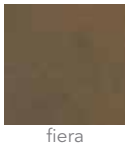
fresco whitewash 12173

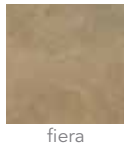
fresco cement 12174

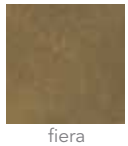
fresco twine 12175

fresco burnished copper 12176


fiera milkweed 12181

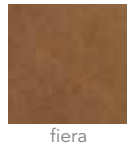

fiera portabello 12182


fiera concrete 12183


fiera yellowstone 12184

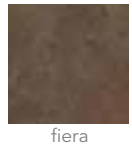

fiera sedona 12185


fiera fieldstone 12186


fiera clay pot 12187

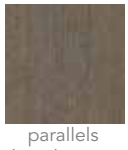

fiera foothills 12188


fiera flint 12189


fiera suede 12190


parallels linen 12203


parallels stonewashed 12204


parallels beach grass 12205


parallels worn denim 12206


parallels golden husk 12207

product benefits

- The latest advances in imaging, texturing and finishing create beautiful stone, metallic and stained concrete tiles that are embossed and registered for tremendous texture and depth
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic

suggested end use

education healthcare offices retail hospitality

available width

18" X 18"

patent #6,218,001 and #6,291,078



nature's paths select plank

Size: 3" x 12", 24", 36", 48" (76.2 mm x 304.8 mm, 609.6 mm, 914.5 mm, 1219.3 mm)
5" x 48" (127 mm x 1219.3 mm)
7" x 48" (177.8 mm x 1219.3 mm)
Thickness: .100" (2.5 mm) Wearlayer / 0.020 (0.51 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (1700): Class 3, Type B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648):
≥ 45 watts/cm^2, Passes - Class I
N.B.S. Smoke Chamber Test (ASTM E-662):
< 450- Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 10-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



wild beech latte 12161 (3"W)
wild beech natural 12162 (3"W)
wenge almost black 12163 (3"W)
oakford strip nutmeg 12164 (3"W)
oakford strip natural 12165 (3"W)
oakford strip chesnut brown 12166 (3"W)
oakford strip ginger 12167 (3"W)
princeton cherry colonial 12168 (3"W)
princeton cherry natural 12169 (3"W)
princeton cherry cinnamon 12170 (3"W)
heritage hickory sable 12140 (5"W)
heritage hickory russet 12141 (5"W)
heritage hickory toffee 12142 (5"W)
heritage hickory natural 12143 (5"W)
century cherry colonial 12150 (5"W)
century cherry spicy cider 12151 (5"W)
chatham oak nutmeg 12152 (5"W)
chatham oak java 12153 (5"W)
chatham oak natural 12154 (5"W)
barn wood plank lantern glow 12155 (5"W)
barn wood plank brown sugar 12156 (5"W)
barn wood plank cognac 12157 (5"W)
mountain pine salt marsh 12158 (7"W)
mountain pine weathered gray 12159 (7"W)
mountain pine provincial 12160 (7"W)

product benefits

- The latest advances in imaging, texturing and finishing create stunning distressed wood planks that are embossed and registered for tremendous texture and depth
- The 3" width collections of multiple plank lengths for ease of installation and a natural visual
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an tended period of time depending upon the amount of commercial traffic

suggested end use

education healthcare offices retail hospitality

available width

3" X 12"/24"/36"/48" Multiple Lengths (3"W), 5" X 48" (5"W), 7" X 48" (7"W)

patent #6,218,001 and #6,291,078



Mannington **Works.**

advanced composite

ICORE: The Real Strong Silent Type.

An extruded synthetic plank flooring that offers all the look and feel of wood flooring without all the associated problems. As a "floating floor," ICORE is not adhered directly to the subfloor, saving time and money on subfloor preparations as well as offering quick, easy installations. ICORE is the perfect choice for any high traffic application such as retail stores, restaurants, higher education or healthcare.

Beauty and Braun:

Beneath the realistic visuals lie the high-tech advantage that only ICORE can offer – an extruded synthetic core. This patented core is extremely resistant to moisture – both from the subfloor and from the spills that are bound to happen. Maintenance is easy: simply sweep and damp mop – that's it. Buffing, waxing, and refinishing are never required with ICORE.

All the features of wood without all the features of wood.

ICORE®

■ icore



ICORE

Size: 5" W x 72" L (127 mm x 1829 mm)
Thickness: 0.375" (9.53 mm)
Installed Thickness Including Hush™ Underlayment: 0.468" (11.89 mm)
Static Load Limit: 1500 p.s.i.
Flooring Radiant Panel Test (ASTM-E-648): ≥0.45 watts/cm², Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 Passes
Warranty: Limited 10-Year Commercial Warranty

Swarovski
Coral Gables, FL



american oak
honey
33000



american oak
natural
33001



antique oak
natural
33002



antique oak
spice
33003



argentine rosewood
natural
33010



argentine rosewood
spice
33011



louisiana pecan
natural
33030



queensland laurel
natural
33040

vermont maple
natural
33050

product benefits

- The look, feel, and sound of wood flooring without the installation and maintenance problems
- Classic wood grain patterns
- Water-resistant—spills wipe right up
- Extremely resistant to high foot traffic
- Comfortable and quiet underfoot

suggested end use

education healthcare offices retail hospitality

available width

5" X 72" Plank

patent #6,617,009 and #6,675,545 Made in USA



Von Maur
Ann Arbor, MI



Mannington **Works.**

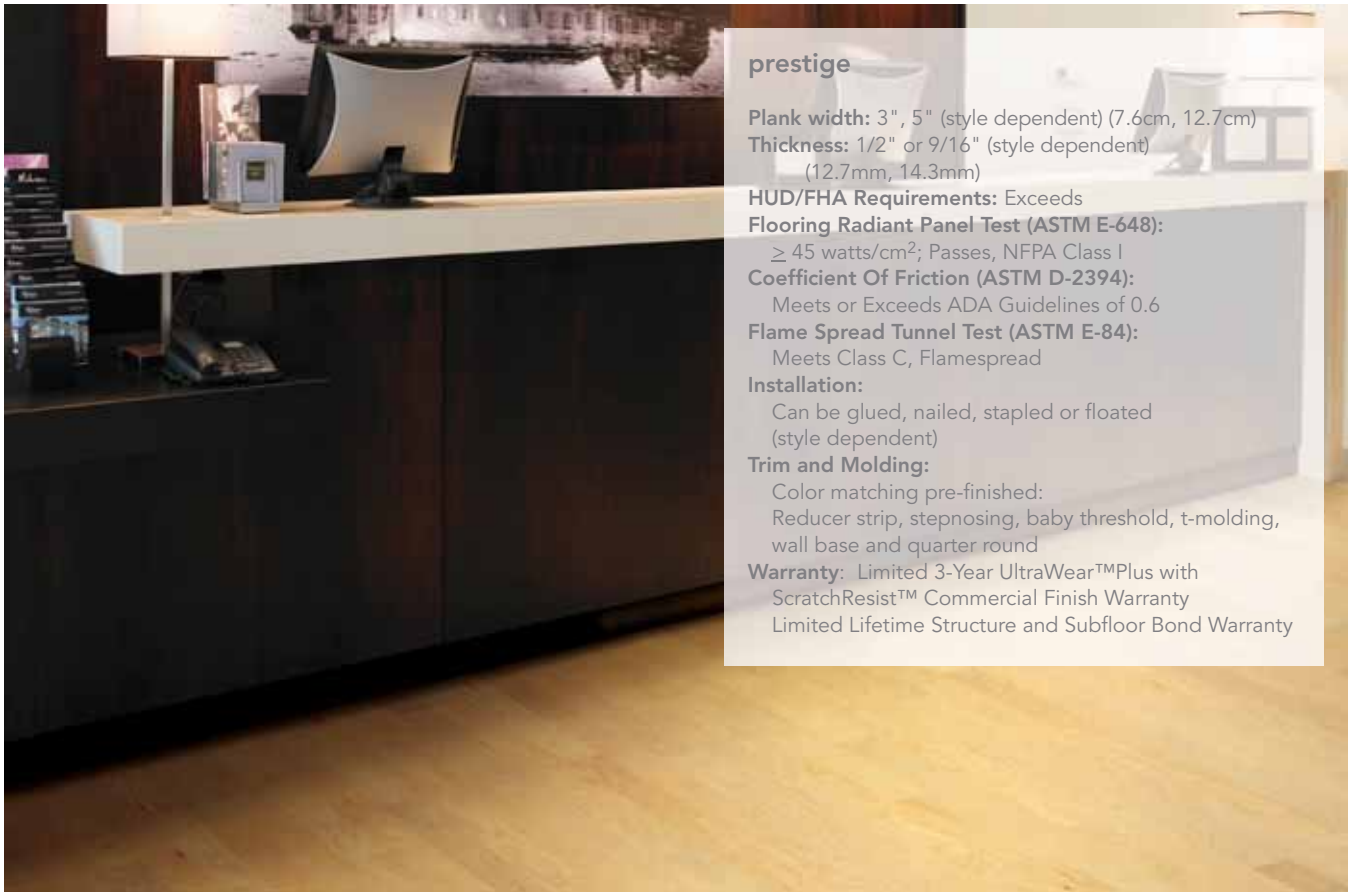
commercial hardwood

For style and character, nothing quite feels - or looks - better than a wood floor. Timeless and beautiful, hardwood flooring never goes out of style. Mannington offers the best in hardwoods with flooring choices that are not only beautiful, but also versatile, durable and easy to maintain.

Mannington's Prestige and Legacy Collections offer a range of products, from rustic to sophisticated. Best of all, no matter what your preference, every Mannington floor is created to provide the look, warmth and charm that only wood can provide.

Prestige
Legacy

■ prestige



prestige

Plank width: 3", 5" (style dependent) (7.6cm, 12.7cm)
Thickness: 1/2" or 9/16" (style dependent) (12.7mm, 14.3mm)
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648):
≥ 45 watts/cm^2; Passes, NFPA Class I
Coefficient Of Friction (ASTM D-2394):
Meets or Exceeds ADA Guidelines of 0.6
Flame Spread Tunnel Test (ASTM E-84):
Meets Class C, Flamespread
Installation:
Can be glued, nailed, stapled or floated (style dependent)
Trim and Molding:
Color matching pre-finished:
Reducer strip, stepnosing, baby threshold, t-molding, wall base and quarter round
Warranty: Limited 3-Year UltraWear™Plus with ScratchResist™ Commercial Finish Warranty
Limited Lifetime Structure and Subfloor Bond Warranty


oregon oak
OR03CS1 (3"W)
cherry spice


oregon oak
OR03HT1 (3"W)
honeytone


oregon oak
OR03NA1 (3"W)
natural


oregon oak
OR03SD1 (3"W)
saddle


biltmore maple
BT03NA1 (3"W)
natural


vermont maple
VM031BM1 (3"W)
imperial black


vermont maple
VT03NA1 (3"W)
natural


vermont maple
VT03CL1 (3"W)
camel


vermont maple
VM031BM1 (3"W)
imperial black


montana oak
MT05CS1 (5"W)
cherry spice


montana oak
MT05HT1 (5"W)
honeytone


montana oak
MT05NA1 (5"W)
natural


montana oak
MT05SD1 (5"W)
saddle


blue ridge hickory
BR05CS1 (5"W)
cherry spice


blue ridge hickory
BR05HT1 (5"W)
honeytone


blue ridge hickory
BR05NA1 (5"W)
natural


lynnhaven maple
LH05NA1 (5"W)
natural

product benefits

- Features beautiful wood floors from classic oaks, rich maples and rustic hickory
- Engineered 5-ply cross-grain construction for maxium strength and dimensional stability
- UltraWear™ Plus finish with ScratchResist™ for ultimate appearance retention

suggested end use

education healthcare offices retail hospitality

available width

3", 5"

patent #6,218,001 and #6,291,078 Made in USA



legacy

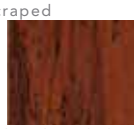
Size: 5" (12.7 cm)
Thickness: 1/2" or 9/16",
style dependent (12.7mm, 14.3mm)
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM E-648):
≥ 45 watts/cm^2; Passes, NFPA Class I
Coefficient Of Friction (ASTM D-2394):
Meets or Exceeds ADA Guidelines of 0.6
Flame Spread Tunnel Test (ASTM E-84):
Meets Class C, Flamespread
Installation:
Can be glued, nailed, stapled or floated (style dependent)
Trim and Molding:
Color matching pre-finished:
Reducer strip, stepnosing, baby threshold, t-molding, wall base and quarter round
Warranty: Limited 3-Year UltraWear™Plus with ScratchResist™ Commercial Finish Warranty
Limited Lifetime Structure and Subfloor Bond Warranty

hand scraped


gatehouse maple
GM05CM1 (5"W)
caramel


gatehouse maple
GM05CC1 (5"W)
cognac


gatehouse maple
GM05CF1 (5"W)
coffee


broad river hickory
BRH05TZ1 (5"W)
topaz


broad river hickory
BRH05HZ1 (5"W)
hazelnut


broad river hickory
BRH05SN1 (5"W)
saffron


heritage hickory
HH05ES1 (5"W)
espresso


heritage hickory
HH05HZ1 (5"W)
hazelnut


heritage hickory
HH05SN1 (5"W)
saffron


heritage hickory
HH05TZ1 (5"W)
topaz


heritage hickory
HH05MC1 (5"W)
mocha

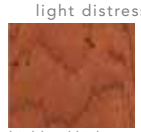
printed distressed


hampton hickory
RA05CV1 (5"W)
clove


hampton hickory
RA05CS1 (5"W)
cherry spice


hampton hickory
RA05EL1 (5"W)
english leather

light distressed embossed


highland hickory
HL05CS1 (5"W)
cherry spice


highland hickory
HL05CC1 (5"W)
cognac

heavy distressed embossed

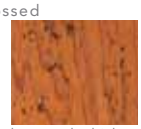

washington cherry
WH05CS1 (5"W)
cherry spice


washington cherry
WH05SW1 (5"W)
sandlewood

heavy distressed embossed

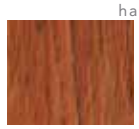

chesapeake hickory
CP05CS1 (5"W)
cherry spice

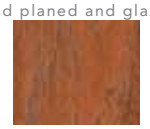

chesapeake hickory
CP05OT1 (5"W)
olde town


chesapeake hickory
CP05SV1 (5"W)
savannah

hand planed and glazed


inverness
kings grove hickory
IVH5ELN1 (5"W)
english leather


inverness
kings grove hickory
IVH5SDN1 (5"W)
saddle


inverness
nottingham maple
IVM05CVN1 (5"W)
clove


inverness
nottingham maple
IVM05NGN1 (5"W)
nutmeg


inverness
nottingham maple
IVM05ASN1 (5"W)
allspice

product benefits

- Featuring hand scraped, hand planed, light to heavily distressed and embossed planks for distinctive styling and character
- Engineered 5-ply cross-grain construction for maxium strength and dimensional stability
- UltraWear™ Plus finish with ScratchResist™ for ultimate appearance retention

suggested end use



available width

5"

patent #6,218,001 and #6,291,078 Made in USA



Mannington **Works.**

slip-retardant sheet

Be Sure. Footed.

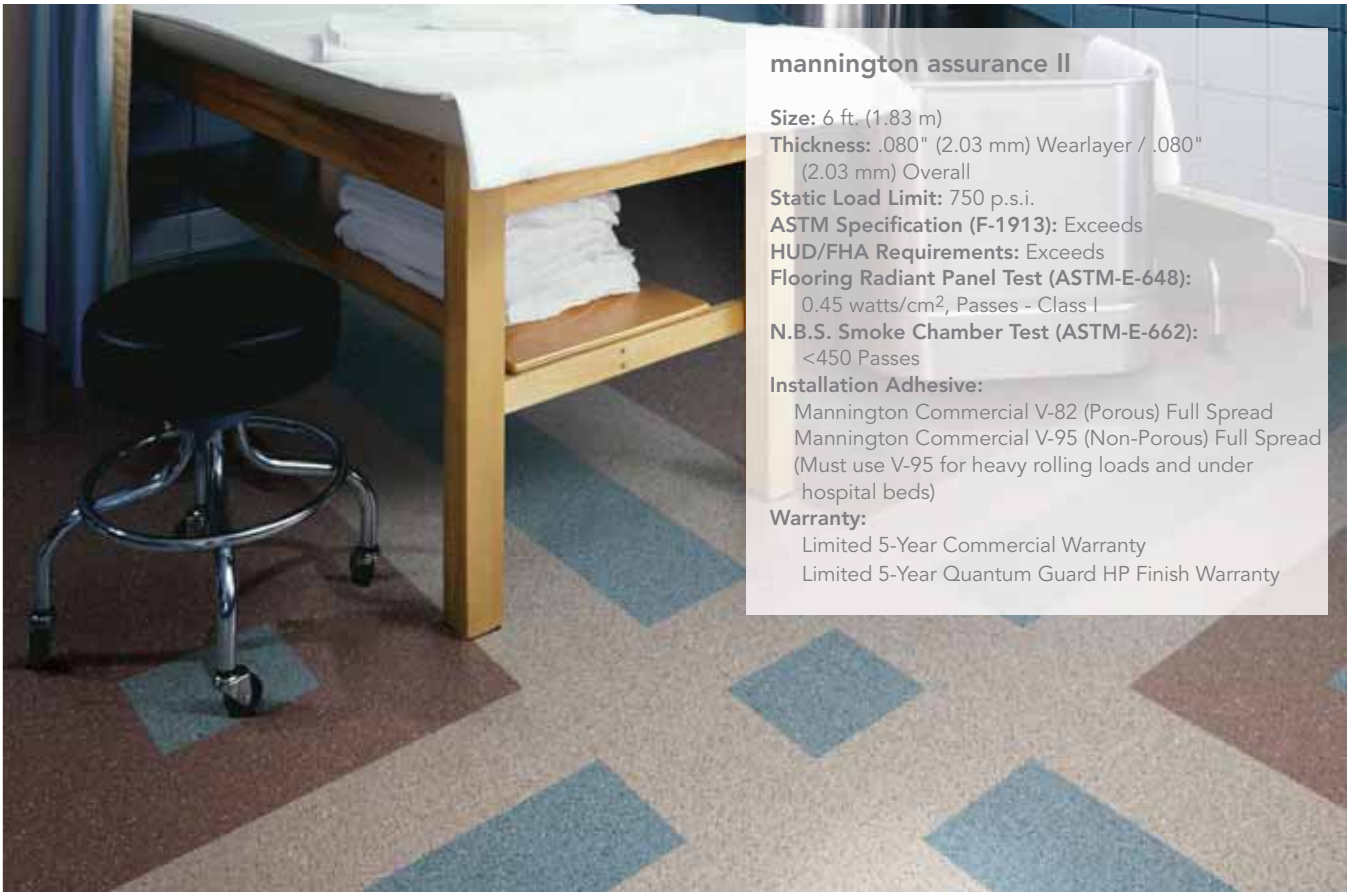
Floors that inspire confidence by delivering safety and security. Mannington Assurance II does just that.

A non-porous, yet slip-retardant surface featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance, cleanability, durability, and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic. Mannington Assurance II is easy to walk on, and the easiest slip-retardant floor to keep looking good.

Looks, lasts, and protects like no other.

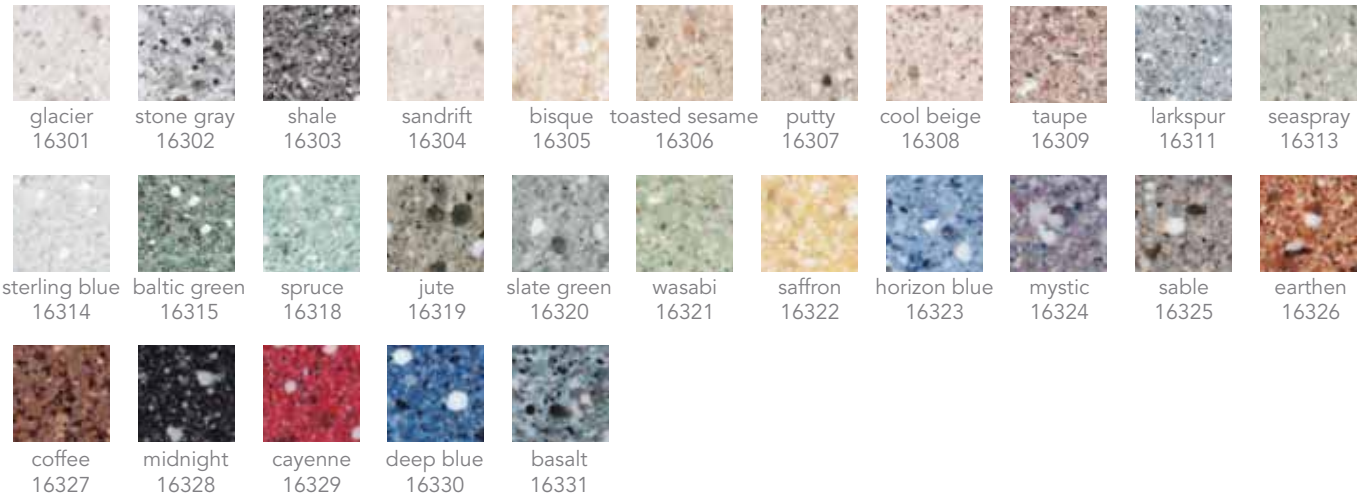
Mannington Assurance™ II

■ mannington assurance II



mannington assurance II

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/cm^2, Passes - Class I
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



glacier 16301 | stone gray 16302 | shale 16303 | sandrift 16304 | bisque 16305 | toasted sesame 16306 | putty 16307 | cool beige 16308 | taupe 16309 | larkspur 16311 | seaspray 16313

sterling blue 16314 | baltic green 16315 | spruce 16318 | jute 16319 | slate green 16320 | wasabi 16321 | saffron 16322 | horizon blue 16323 | mystic 16324 | sable 16325 | earthen 16326

coffee 16327 | midnight 16328 | cayenne 16329 | deep blue 16330 | basalt 16331

product benefits

- An array of color options from neutrals to accents for a monolithic surface appearance
- Slip-retardant surface provides safety underfoot, meets ADA Guidelines
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education | healthcare | offices | retail | hospitality

available width

6'

patent #6,218,001 and #6,291,078 Made in USA

slip-retardant sheet



Mannington **Works.**

homogeneous inlaid

Mix and Match.

High performance, high traffic, high style. The top of the top in durable flooring. That's Homogeneous Sheet Flooring. From Mannington Commercial, Relay, LifeLines II and BioSpec homogeneous products, and Fine Fields, the inlaid felt back coordinate to BioSpec.

Resistant to wear, soiling and discoloration. Delivering high roller mobility while assuring good indoor air quality. And they coordinate and complement with total continuity – coming together to create attractive, consistent, cost-averaged flooring solutions across entire facilities.

Install BioSpec, Relay and LifeLines II in extra-heavy traffic areas, and Fine Fields in less traveled areas – then unify them with the trio's coordinated color palette. It's simple.

What you want, where you need.

Relay™
LifeLines II™
BioSpec®

■ relay



relay

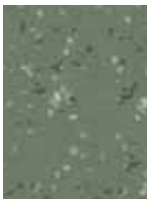
Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/cm^2, Passes - Class I
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


champagne
22001

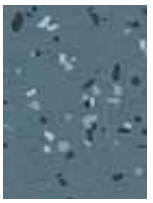

sandstone
22002

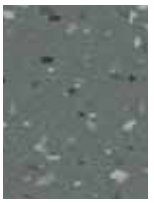

bottle green
22003

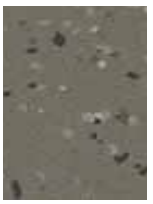

tealeaf
22004


deep sage
22005

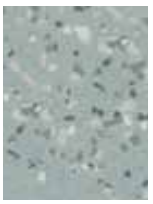

kraft brown
22006

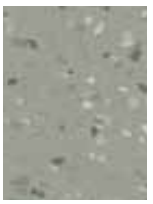

indigo
22007


slate
22008


bark
22009


mahogany
22010


graphite blue
22011


neutral gray
22012


lavender mist
22013


corrugated
22014


blue stone
22015


deep wedgewood
22016

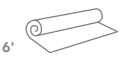
product benefits

- A deeply saturated, "retro" color palette
- 40% pre-consumer recycled content with 3rd party certification
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use



available width



patent #6,218,001 and #6,291,078 Made in USA



lifelines II: folia

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
Pattern Repeat: Random Repeat
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


spruce
LL2010


oyster
LL2011

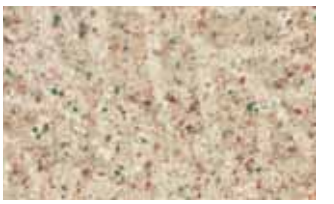

pearl white
LL2012


ecru
LL2013


balsa
LL2014


fern
LL2015


cream beige
LL2016


flax
LL2017

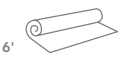
product benefits

- Stylish layered-leaf pattern combines the essence of nature with the performance of commercial inlaid flooring
- Homogeneous construction provides superior durability and high resistance to wear, cuts, and stains
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use



available width



patent #6,218,001, #6,291,078, #5,891,564 and #5,670,237 Made in USA

■ lifelines II: frost



lifelines II: frost

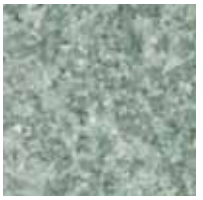
Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


snow gray
LL2100


icy beige
LL2101


frosted silk
LL2102


iced tea
LL2103


wintergreen
LL2104


grape ice
LL2105


lime sherbert
LL2106


citrus ice
LL2107


nordic blue
LL2108


iced coffee
LL2109


polar blue
LL2110


winter wheat
LL2111

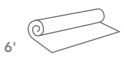
product benefits

- Rich color line with marble texture and subtle pattern
- Homogeneous construction provides superior durability and high resistance to wear, cuts, and stains
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

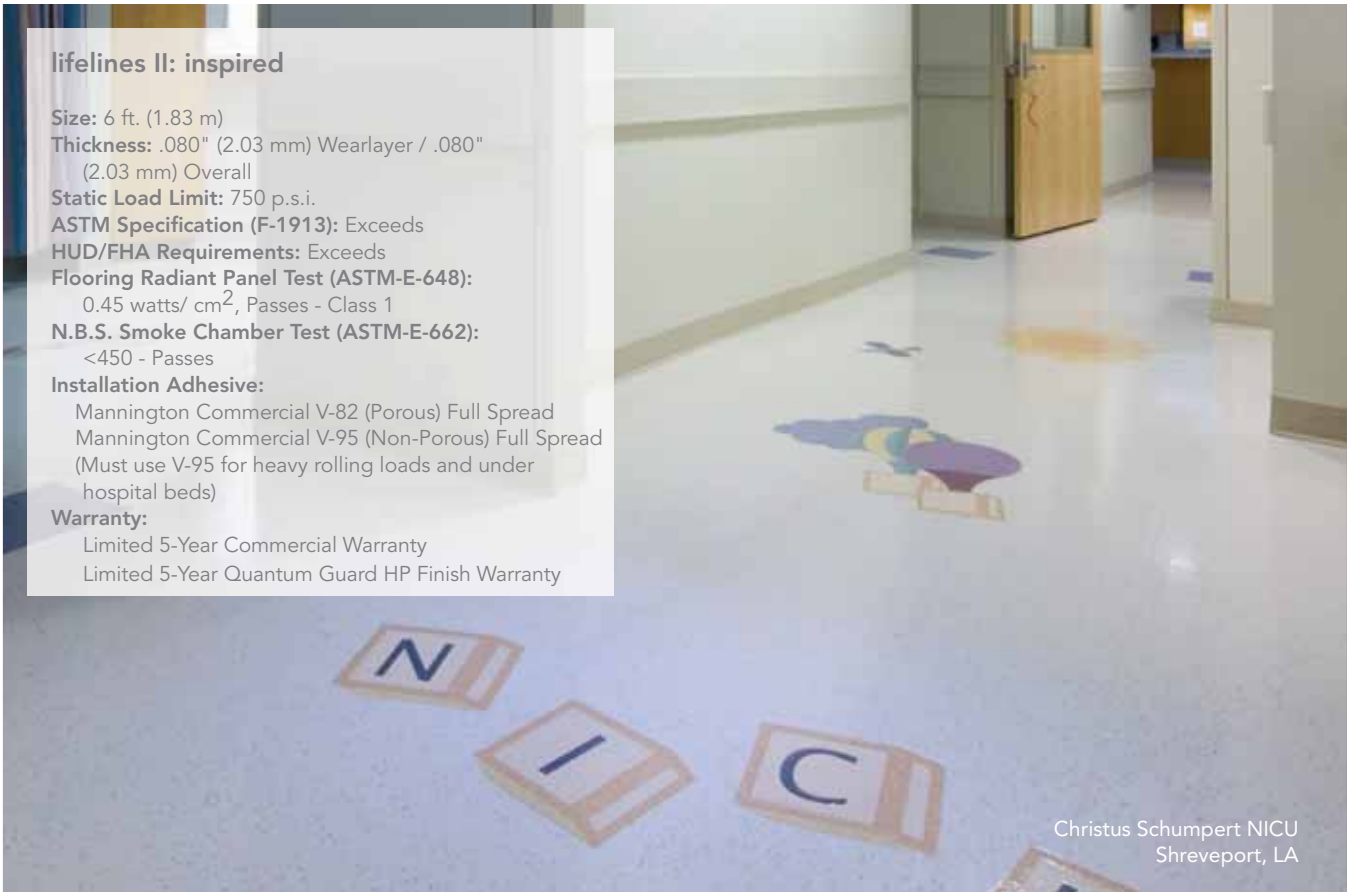
suggested end use



available width



patent #6,218,001, #6,291,078, #5,891,564 and #5,670,237 Made in USA

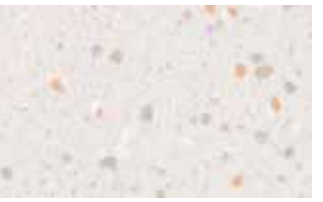


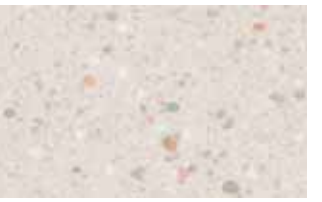
Christus Schumpert NICU
Shreveport, LA

lifelines II: inspired

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


gray tones
LL2200


pastel tones
LL2201


cream tones
LL2202


white multi
LL2204


beige multi
LL2205


blue tones
LL2206


willow tones
LL2208


woodrose tones
LL2209

product benefits

- A range of multi-colored flecks set in a neutral field allow for easy coordination
- Homogeneous construction provides superior durability and high resistance to wear, cuts, and stains
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

available width

6'

patent #6,218,001 and #6,291,078 Made in USA

■ lifelines II: seurat

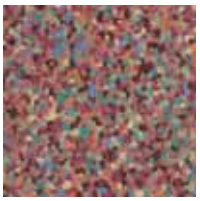


lifelines II: seurat

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty


amberjack
LL2400


heather beige
LL2401


teaberry
LL2402


saffron
LL2403


emerald bay
LL2404


french blue
LL2405


african night
LL2406


heather gray
LL2407


dover white
LL2408


riviera
LL2409


cardigan
LL2410


brittany beach
LL2411

product benefits

- Rich colors give an inviting, warm feel to any room
- Homogeneous construction provides superior durability and high resistance to wear, cuts, and stains
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

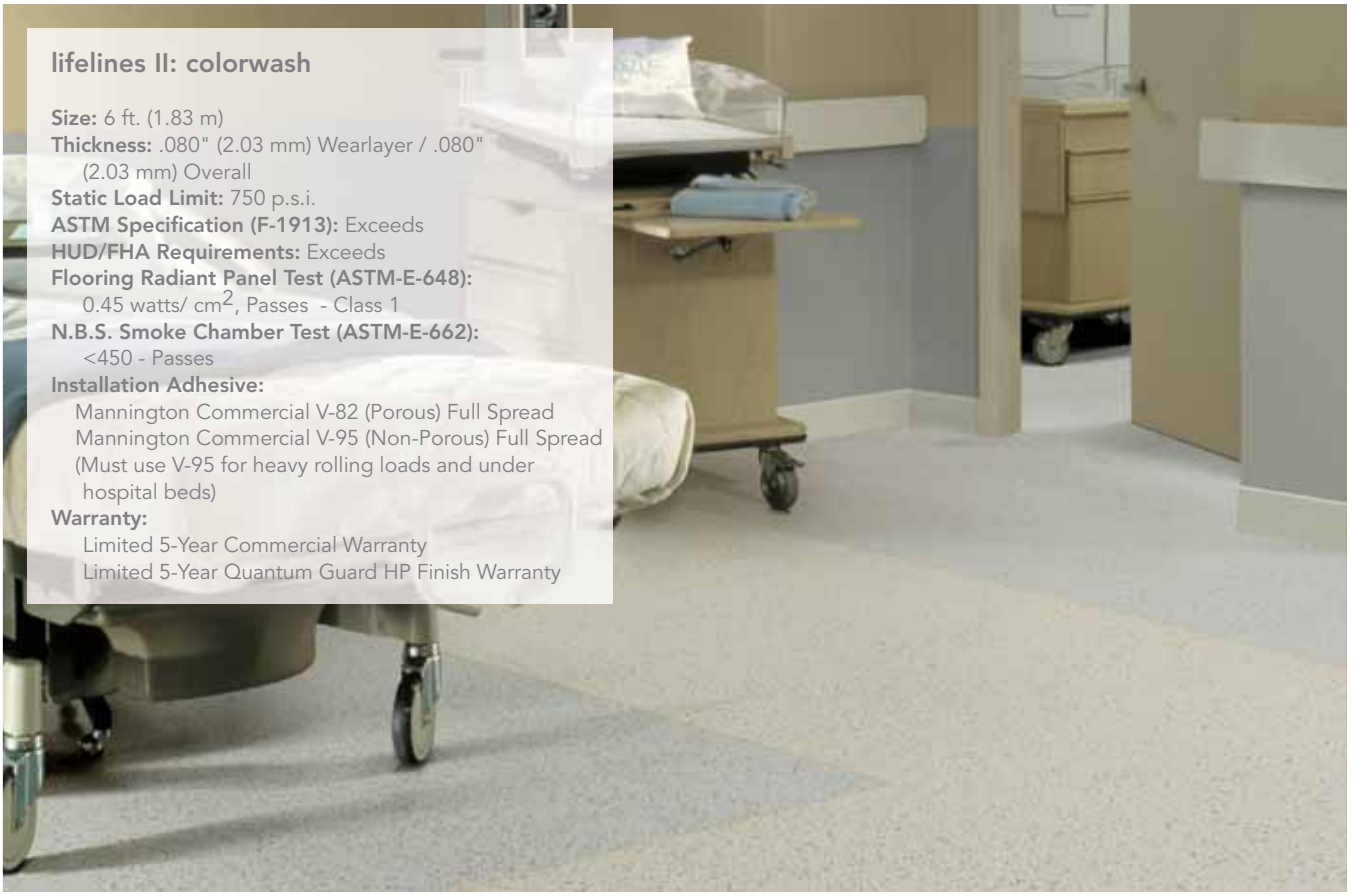
suggested end use

education healthcare offices retail hospitality

available width

6'

patent #6,218,001 and #6,291,078 Made in USA



lifelines II: colorwash

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty

oyster wash
LL2301



cool beige tint
LL2302



warm beige tint
LL2304



blue wash
LL2305

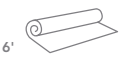
product benefits

- Iridescent flakes imbedded in a pastel field create a pearlescent watercolor effect
- Homogeneous construction provides superior durability and high resistance to wear, cuts, and stains
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use



available width



patent #6,218,001 and #6,291,078 Made in USA

■ biospec



biospec

Size: 6 ft. (1.83 m)
Thickness: .080" (2.03 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1913): Exceeds
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty: 5-Year Limited Commercial Warranty

oyster white 15101	bisque 15102	sandrift 15103	sterling blue 15112	stone gray 15128	wedgwood 15129	wood violet 15131	toasted sesame 15133	green tea 15134	verde 15135	spruce 15137	cool beige 15140
deep suede 15145	bright white 15146	taupestone 15148	steel blue 15149	new navy 15154	red hot 15155	jonquil 15156	cherrywood 15157	citrus 15158	balsa 15159	buttermilk 15160	flax 15161
ecru 15162	golden oak 15163	new glacier 15164	mineral gray 15165	grassland 15166	olivia 15167	iron 15168	bedrock 15169	gray flannel 15170	techno gray 15171	heather 15172	moss 15173
silver pine 15174	spearmint 15175	blue ridge 15176	denim 15177	horizon blue 15178	lilac 15179	grape 15180	eggplant 15181	chocolate brown 15182			

product benefits

- Available in 45 colors—the widest color line in the industry
- Homogeneous construction provides suerior durability and high resistance to wear, cuts and stains
- Quantum Guard™ is a protective urethane wearlayer with UV curing which reduces the need for polish in low to normal traffic areas (low maintenance option)
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

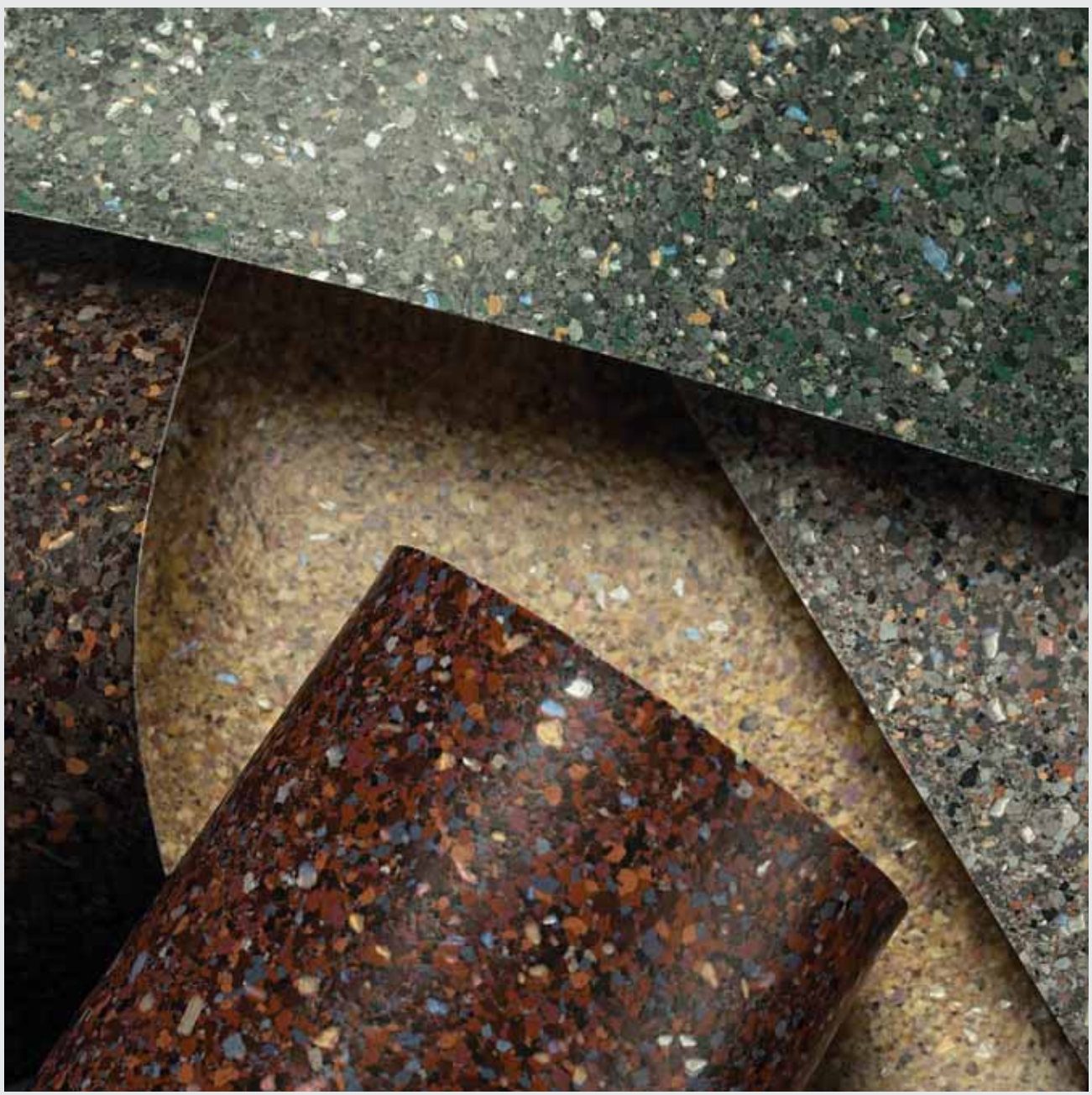
available width

6'

Made in USA



Environmental Works, Inc.
Springfield, MO



Mannington **Works.**

inlaid

Spec Style.

Who knew sheet flooring could be subtle? Soft, textural, and with influences ranging from nature and fashion to art, our Inlaid Sheet Flooring sets the standard for high-styled resilients.

Magna's Multiflec and Micaflec provide a surface rated for commercial traffic, making them perfectly beautiful in retail shops, healthcare facilities, schools and institutions.

Stunning. And unique.

Fine Fields™
Magna®

■ fine fields



fine fields

Size: 6 ft. (1.83 m)
Thickness: .066" (1.67 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 500 p.s.i.
ASTM Specification (F-1303): Type 2, Grade A , Class 1
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty: Limited 5-Year Commercial Warranty

oyster white 10101 | bisque 10102 | sandrift 10103 | sterling blue 10112 | stone gray 10128 | wedgwood 10129 | toasted sesame 10133 | green tea 10134 | verde 10135

spruce 10137 | cool beige 10140 | deep suede 10145 | bright white 10146 | taupestone 10148 | steel blue 10149 | balsa 10159 | ecru 10162 | new glacier 10164

mineral gray 10165 | iron 10168 | spearmint 10175 | denim 10177

product benefits

- Inlaid sheet flooring with felt backing; companion product to BioSpec, replicating 22 colors
- Developed for medium traffic environments for cost-savings and to maintain a coordinated design
- Quantum Guard™ is a protective urethane wearlayer with UV curing which reduces the need for polish in low to normal traffic areas (low maintenance option)
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education | healthcare | offices | retail | hospitality

available width

6'

Made in USA



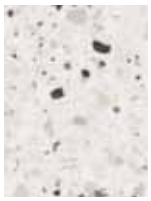
West Parry Sound Health Centre
Parry Sound, Ontario

■ magna: multiflec



magna: multiflec

Size: 6 ft. (1.83 m)
Thickness: .055" (1.39 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 500 p.s.i.
ASTM Specification (F-1303): Type 2, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty: Limited 5-Year Commercial Warranty

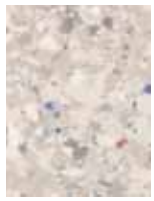

granite white
18000


graystone
18001


graphite
18002

natural white
18003


alabaster
18004


jute
18005


pebble beige
18006


blue ice
18007


jade
18008


cool mint
18009


parchment
18010


khaki
18011


suede
18012


cream beige
18013


pumice
18014


woodrose
18015

product benefits

- Small-scale visual with a variety of subtle shades for a soft feel
- Highly economical, durable, and easy to install
- Quantum Guard™ is a protective urethane wearlayer with UV curing which reduces the need for polish in low to normal traffic areas (low maintenance option)
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

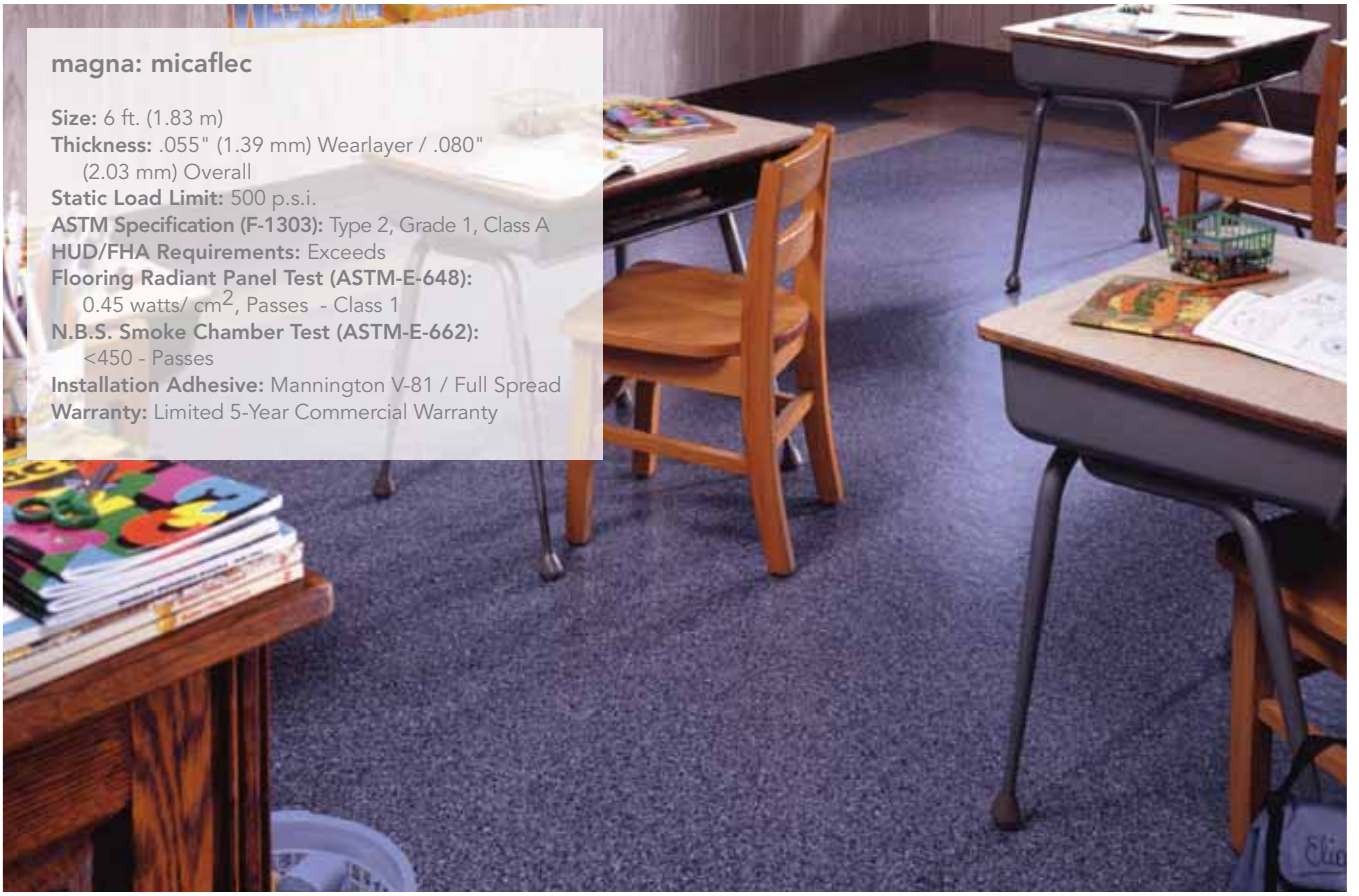
suggested end use



available width



Made in USA



magna: micaflec

Size: 6 ft. (1.83 m)
Thickness: .055" (1.39 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 500 p.s.i.
ASTM Specification (F-1303): Type 2, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty: Limited 5-Year Commercial Warranty


royal mahogany
19000


texas red
19001


crystal rosa
19002


rose chocolate
19003


marina pearl
19004


african red
19005


dorado gold
19006


baltic green
19007


silver ice
19008


paradiso gray
19009


imperial black
19010

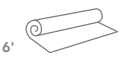
product benefits

- Inspired by natural granite and terrazzo, in contemporary rich bold tones
- Highly economical, durable, and easy to install
- Quantum Guard™ is a protective urethane wearlayer with UV curing which reduces the need for polish in low to normal traffic areas
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

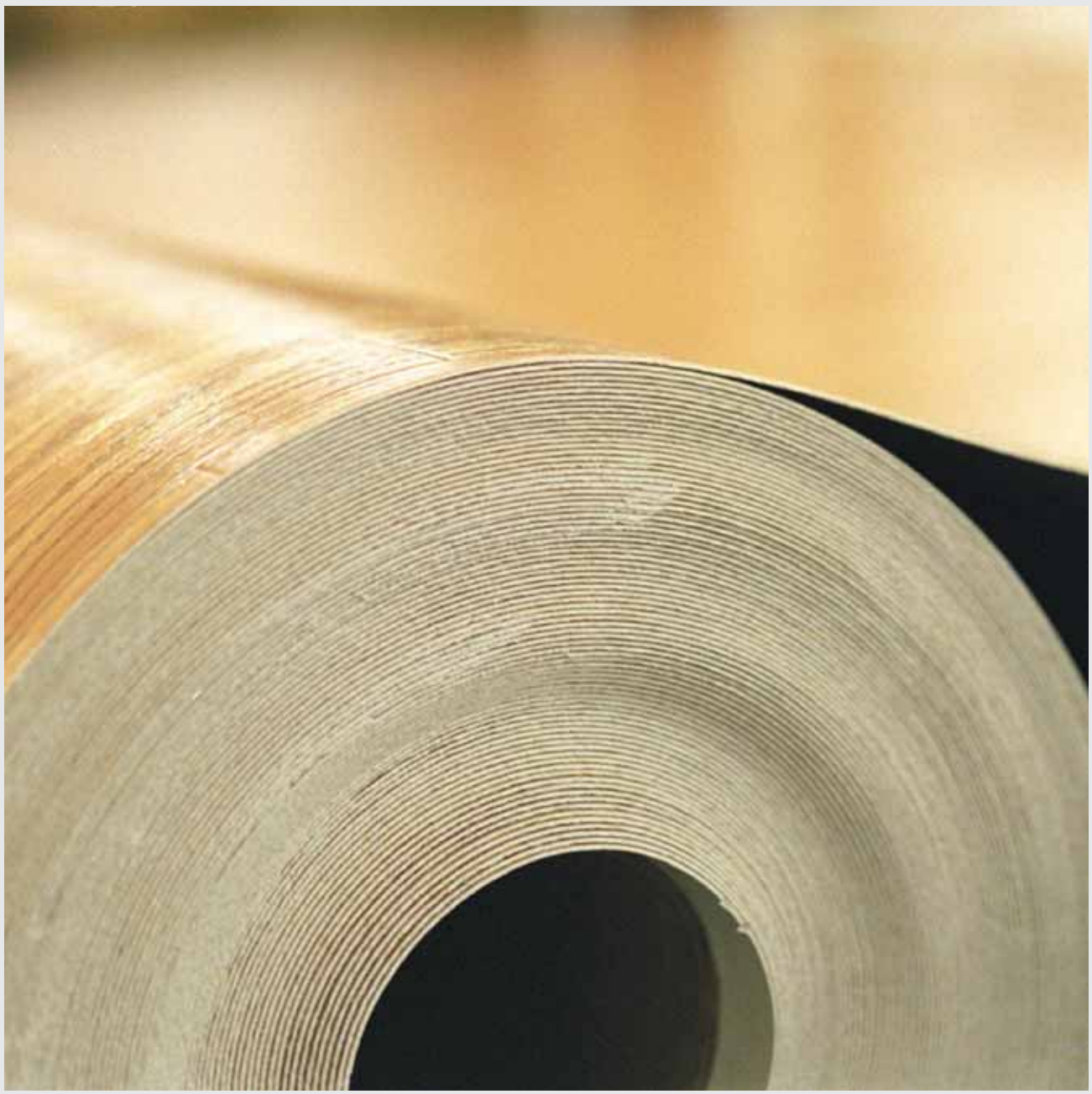
suggested end use



available width



Made in USA



Mannington **Works.**

heterogeneous light

Getting Real.

Strong, easy to maintain, with stain-resistant properties that mother nature can't deliver, Heterogeneous Light Commercial flooring can take practically anything a medium traffic space can throw at it.

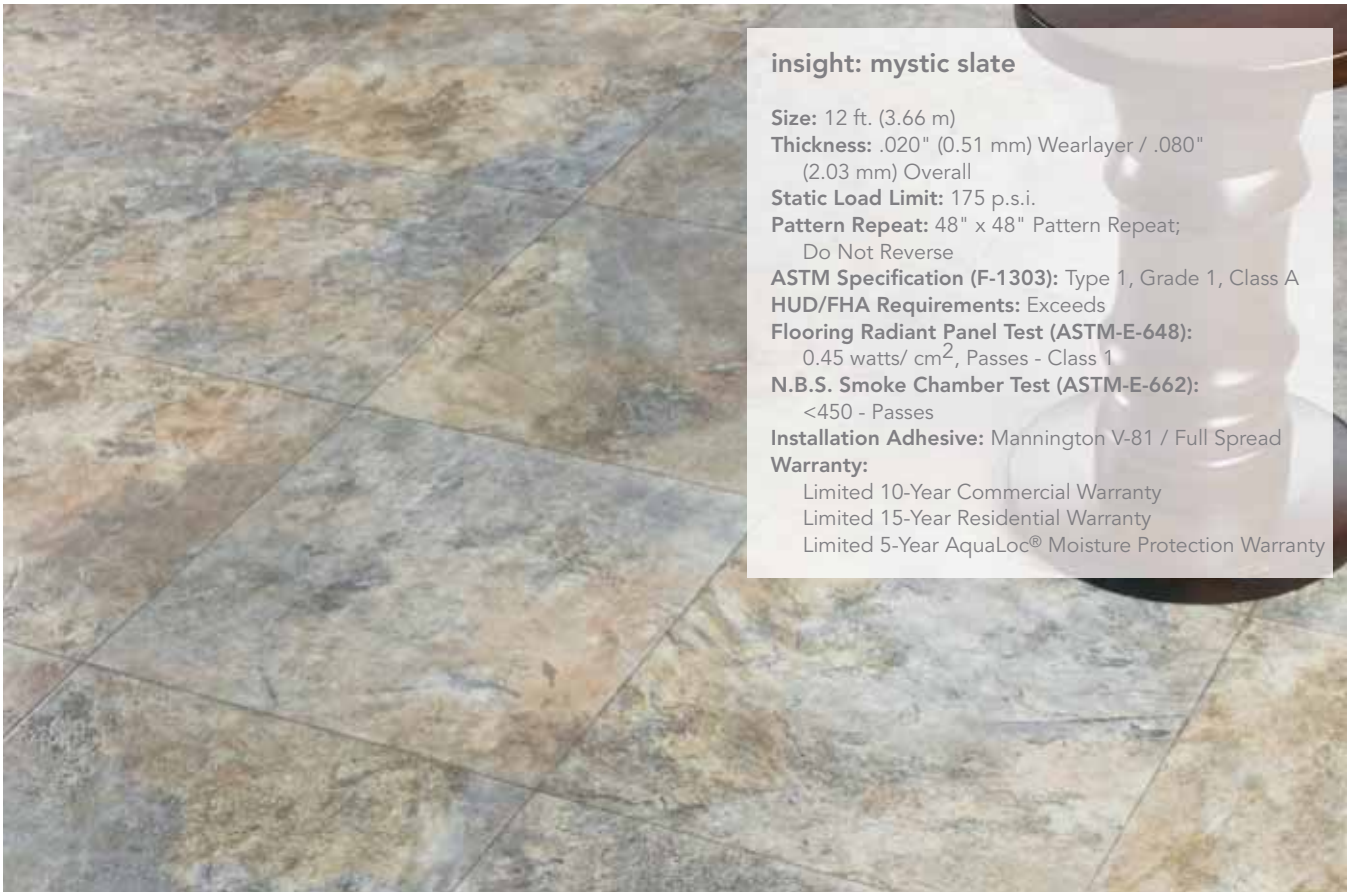
Nature makes the rules. Mannington Commercial's patented NatureForm™ surface embossing technology makes our Insight Collection nature-inspired patterns wonderfully convincing. Includes designs invoking rustic slate, unpolished granite, swirled marble, and hand-planed, farmhouse planks.

And CustomSpec II goes one step further with travertine marble-like patterns, limestone, and complex stone faces with detailed veining.

Where performance comes naturally.

Insight™
CustomSpec II®

■ insight: mystic slate



insight: mystic slate

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 48" x 48" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



blue ridge
6760



natural beige
6761



river shale
6762



mountain plains
6765



canyon quartz
6766

product benefits

- 16" rustic slate tile with multi-leveled and multi-colored shaded layers
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



insight: arizona slate

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



desert blush
6701



canyon sunstone
6706



prairie beige
6707



sahara dusk
6709

product benefits

- The natural beauty of multi-colored 9"slate with authentic distress marks and rich layers of texture and color
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ insight: stonehaven



insight: stonehaven

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat: Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty

ocean mist
6711



golden sunset
6716



moroccan sand
6717



mineral rouge
6719

product benefits

- A 6" rustic stone featuring a dramatic blend of color and texture
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



insight: sandhurst

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat: Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty

silver cloud
6722



sand dune
6726



buckskin
6729

product benefits

- A 12" tile replicating rustic travertine with wider grout lines and a subtle wash of color create a charming interplay of texture and hue
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ insight: rhapsody



insight: rhapsody

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat: Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty

breeze
6780

buff
6781



beeswax
6787

product benefits

- Swirled marble layered with color and combined with a stucco-like texture gives this pattern great depth
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



insight: gemstar

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat: Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



topaz
6770



opal
6771



pearl gray
6772

product benefits

- A fine overall granular texture with accent color reminiscent of unpolished granite
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ insight: fairstone



insight: fairstone

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: Random Repeat: Do Not Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



buffed pewter
6810



sahara beige
6811



everglade
6812

product benefits

- A marble visual with distressed colorations and delicate veining
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



insight: diamond peak

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat: Do Not Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



canadian mist
6801



adobe
6802



moss
6803



saddle
6804

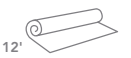
product benefits

- Rich natural colorations with various intersections of grouted tile lines define this diamond pattern
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width



Made in USA

■ insight: highpoint oak



insight: highpoint oak

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 48" x 48" Pattern Repeat: Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



sun bleached
6790



autumn
6791



midnight brown
6792

product benefits

- Features the warmth and beauty of wide oak flooring with enhanced texturing of wood
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



heterogenous light

■ insight: ponderosa plank



insight: ponderosa plank

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: Random Repeat: Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



natural
6757

product benefits

- A traditional 2 1/4" oak plank wood pattern featuring the popular look of hardwood flooring, with rich earth tone colors and distinct wood graining effects
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



insight: wild oak

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: Random Repeat: Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



auburn
6746



honey beige
6747

product benefits

- A random oak plank provides the authentic look of wide, wooden planks for a more rustic beauty
- Natural pattern realism with patented NatureForm™ surface embossing technology
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ customspec II: ridgemount



customspec II: ridgemount

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



slate blue
6470

pebble bisque
6477



taupe stone
6479

product benefits

- The timeless look of travertine marble captured with natural stone texture and subtle coloration
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



customspec II: limestone walk

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



crystal ice
6511



soap stone
6512



sand dollar
6517

product benefits

- An all-over limestone with a depth of texture and patina seen in few other flooring materials
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

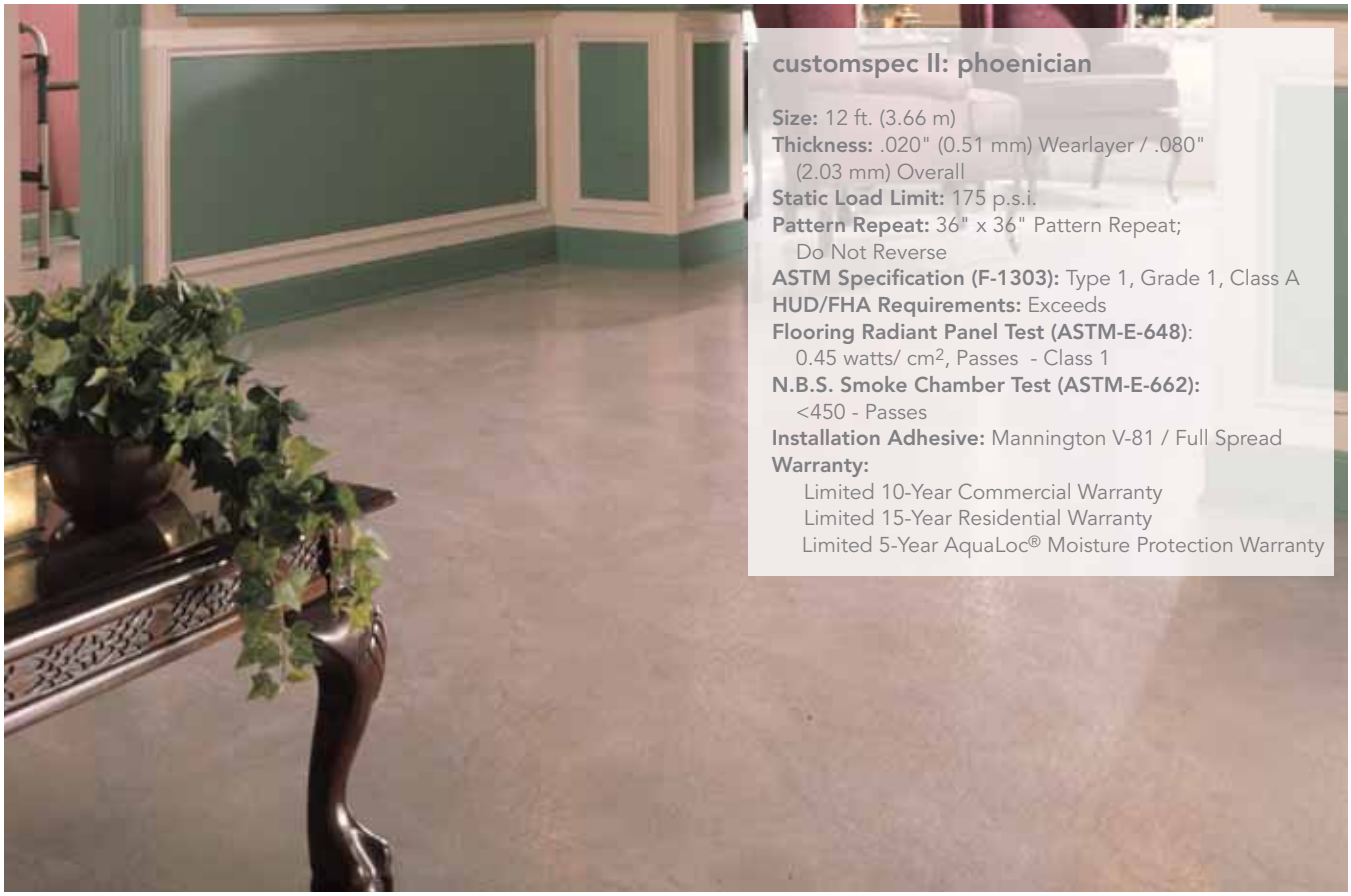
education healthcare offices retail hospitality

available width

12'

Made in USA

■ customspec II: phoenician



customspec II: phoenician

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 36" x 36" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



misty blue
6480

desert sand
6487



taupe dust
6488



sahara beige
6489

product benefits

- The look of marble without the interruption of grout lines, providing richness without boundaries
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



customspec II: charleston

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 12" x 12" Pattern Repeat; Reverse Sheets for Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



sky blue
6450



rose dawn
6458

product benefits

- Reminiscent of a 12" square linoleum tile, a sophisticated color palette updates this nostalgic look
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ customspec II: bolero



customspec II: bolero

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 18" x 18" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



gray with smoke gray
6402

almond with light fawn
6407



taupe with rose taupe
6409

product benefits

- Triangular accents set in a rectangular pattern create a geometric effect in muted marble tones
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

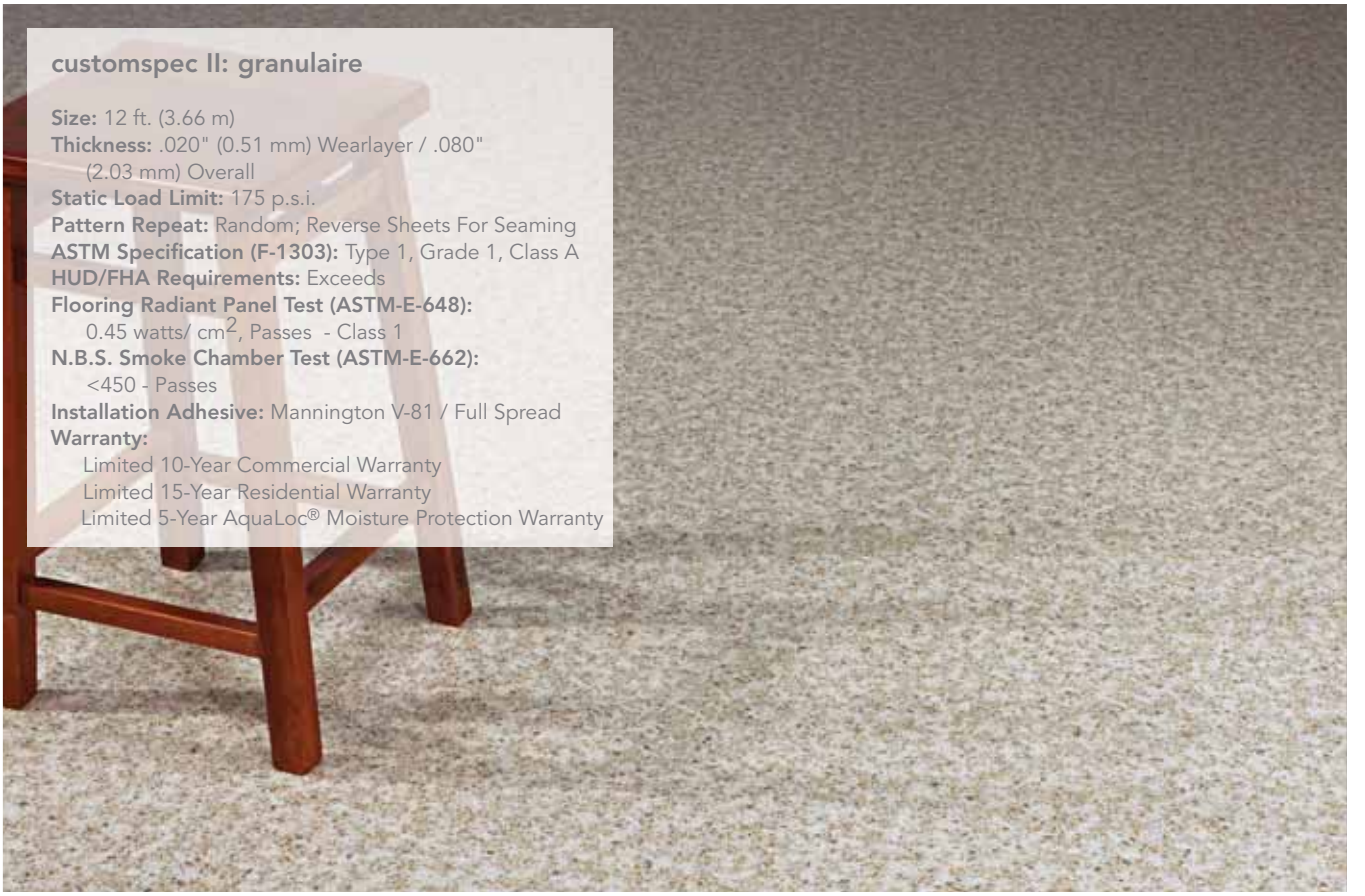
suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

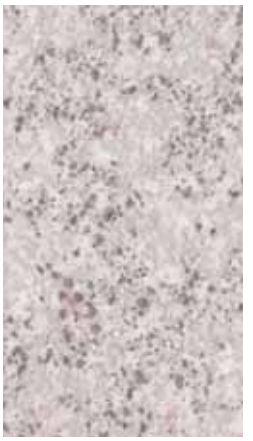


customspec II: granulaire

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: Random; Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



slate blue with gray & rose
6410



smoke gray with mauve & blue
6412



jade green with gray & charcoal
6415



sand beige with pewter & tan
6417



taupe stone with gray & clay
6419

product benefits

- An all-over granite look that possesses all the character and beauty of real stone
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA

■ customspec II: market square



customspec II: market square

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: 18" x 24" Pattern Repeat; Do Not Reverse
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



canyon rock with gray
6496



summer straw with gray
6497

product benefits

- A rustic stone pattern with random-sized squares and rectangles softly punctuated with diamond insets
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



customspec II: forest hills

Size: 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / .080" (2.03 mm) Overall
Static Load Limit: 175 p.s.i.
Pattern Repeat: Random Repeat; Reverse Sheets For Seaming
ASTM Specification (F-1303): Type 1, Grade 1, Class A
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-81 / Full Spread
Warranty:
Limited 10-Year Commercial Warranty
Limited 15-Year Residential Warranty
Limited 5-Year AquaLoc® Moisture Protection Warranty



honey oak
6466



light oak
6467



saddle oak
6468

product benefits

- The warmth and beauty of an oak wood plank floor makes any installation feel like home
- Superior stain resistant properties and is easy to maintain (low maintenance option)
- AquaLoc® Moisture Protection guards against discoloration from alkali, mold or mildew growth resulting from the subfloor
- 12' width results in fewer seams, less waste and greater ease of installation with reduced cost savings

suggested end use

education healthcare offices retail hospitality

available width

12'

Made in USA



Mannington Works.

heterogeneous

Be True.

It's like wood, but without the level of upkeep. It's heterogeneous flooring: developed to deliver all the beauty of natural surfaces, but with totally practical performance. The highest balance of aesthetics and performance available. Mannington Commercial's stylish answer to the performance and cost issues connected with natural materials.

Available in 6', 9', and 12' widths, the Realities line mimics the wide-planked American hardwoods of past floors – Southern Oak, Maple Grove, and Antique Oak. Homestead Hickory and Brazilian Cherry offer a welcome invitation that brings the beauty of the outdoors indoors.

Realities™

■ realities: brazilian cherry



realities: brazilian cherry

Size: 6 ft. (1.83 m), 9 ft. (2.75 m), 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / 0.080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1303): Type 1, Grade 1, Class B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



auburn
5631



cognac
5632



merlot
5633



natural
5634



blonde
5635

product benefits

- A high-performance heterogeneous resilient floor that brings the natural beauty of the outdoors to any environment
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use



available width



patent #6,218,001 and #6,291,078 Made in USA



realities: homestead hickory

Size: 6 ft. (1.83 m), 9 ft. (2.75 m), 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / 0.080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1303): Type 1, Grade 1, Class B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



provincial
5641



kahlua
5642

product benefits

- A high-performance heterogeneous resilient floor that brings the natural beauty of the outdoors to any environment
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

available width

6', 9', 12'

patent #6,218,001 and #6,291,078 Made in USA

■ realities: maple grove



realities: maple grove

Size: 6 ft. (1.83 m), 9 ft. (2.75 m), 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / 0.080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1303): Type 1, Grade 1, Class B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



maple
5621



saddle
5622



teak
5623



honey
5624



cherry
5625

product benefits

- A high-performance heterogeneous resilient floor that brings the natural beauty of the outdoors to any environment
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

available width

6', 9', 12'

patent #6,218,001 and #6,291,078 Made in USA



realities: antique oak

Size: 6 ft. (1.83 m), 9 ft. (2.75 m), 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / 0.080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1303): Type 1, Grade 1, Class B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



nutmeg
5601



pecan
5602



suede
5603



natural
5604

product benefits

- A high-performance heterogeneous resilient floor that brings the natural beauty of the outdoors to any environment
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

available width

6', 9', 12'

patent #6,218,001 and #6,291,078 Made in USA

■ realities: southern oak



West Parry Sound Health Centre
Parry Sound, Ontario

realities: southern oak

Size: 6 ft. (1.83 m), 9 ft. (2.75 m), 12 ft. (3.66 m)
Thickness: .020" (0.51 mm) Wearlayer / 0.080" (2.03 mm) Overall
Static Load Limit: 750 p.s.i.
ASTM Specification (F-1303): Type 1, Grade 1, Class B
HUD/FHA Requirements: Exceeds
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive:
Mannington Commercial V-82 (Porous) Full Spread
Mannington Commercial V-95 (Non-Porous) Full Spread
(Must use V-95 for heavy rolling loads and under hospital beds)
Warranty:
Limited 5-Year Commercial Warranty
Limited 5-Year Quantum Guard HP Finish Warranty



antique
5611



honeytone
5612



winchester
5613



rich oak
5614

product benefits

- A high-performance heterogeneous resilient floor that brings the natural beauty of the outdoors to any environment
- Features Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process which can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic
- Chemically seal or heat weld at seams for aseptic and integral surface (heat welding is preferred method for healthcare and heavy traffic)

suggested end use

education healthcare offices retail hospitality

available width

6', 9', 12'

patent #6,218,001 and #6,291,078 Made in USA



West Parry Sound Health Centre
Parry Sound, Ontario

heterogeneous



Mannington **Works.**

premium visual tile

Color Me Beautiful.

Beauty meets brains and brawn with our premium visual tile collections. Vast color lines. Stunning coordination. Elegant veining. And something a bit deeper, smarter, just beneath the surface.

The details: post-consumer (drywall) and pre-consumer recycled content. Through-pattern construction that makes scuffs, scrapes, and traffic wear virtually undetectable. And plentiful, naturally-occurring limestone.

Mannington Commercial's Inspirations tiles are imminently versatile and incorporate multi-colored flecks with a neutral background for maximum design possibilities.

Brushwork with swirled, paint-like strokes and sophisticated colors, create a masterwork of high-traffic resilience.

ColorPoint, with its vibrant points of color, creates a warm visual by way of confetti-like shapes and pattern on a soothing speckled background. And it coordinates with SolidPoint and Brushwork.

SolidPoint has an ultra-fine, textured appearance that is a virtual solid when installed, and can be used to create dramatic design accents within an overall color scheme.

The Modular Configurator 

You can compose, coordinate, and configure your own tile designs without your feet ever hitting the floor – with the Modular Configurator.

Find it online at www.manningtoncommercial.com

This relationship won't wear out.

Inspirations™
Brushwork™
ColorPoint™
SolidPoint™

■ inspirations



inspirations

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648): 0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662): <450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty


white multiflec
401

beige multiflec
407


agate medley
409


blue tones
410


pastel tones
411

ecru multiflec
415

cream tones
417


tweed medley
419

product benefits

- A premium visual tile with a non-directional design that creates a monolithic appearance
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Contains pre-consumer recycled content
- Made with 85% plentiful, naturally occuring limestone

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



brushwork

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty

cerulean mist 700	titanium white 701	granito 702	ecru 703	ultra violet 704	viridian 705	terracotta 706	canvas 707	vermilion 708	fresco 709
naples blue 710	florentine 713	gesso white 711	graphite 712	lavender 714	baltic green 715	sienna 716	venetian silk 717	carmine red 718	pale umber 719
prussian blue 720	carrara white 721	cadmium orange 723	hunter green 725	deep ochre 727	sepia 729	indigo 730	mars black 731	naples yellow 733	cinnabar green 735

product benefits

- A premium visual tile with distinctive non-directional brush work design that creates a monolithic appearance
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Contains post-consumer (drywall) and pre-consumer recycled content
- Made with 85% plentiful, naturally occuring limestone

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



colorpoint

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty


cloud blue
610


crystal rosa
616


peanut
627


primary white
631


felt
632


tweed
637


jute
639

natural white
641


brindle
642


buttermilk
643

creme beige
647


sable
659

product benefits

- Vibrant points of color create a warm visual by way of confetti-like shapes and patterns on a soothing speckled background
- A premium visual tile with distinctive non-directional design that creates a monolithic appearance
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Contains post-consumer (drywall) and pre-consumer recycled content
- Made with 85% plentiful, naturally occurring limestone

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



solidpoint

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty

gravel 302	persimmon 303	heather 304	true blue 310	midnight 311	prairie 313	sour apple 315	cool beige 317	suede 319
navy 320	iron 322	cayenne 328	jonquil 333	palmetto 335	toasted sesame 337	cherrywood 338	chocolate fudge 339	blue ridge 340
cameo white 341	citrine 343	silver leaf 345	fawn 347	pottery 348	celestial blue 360	italian straw 363	aspen 365	

product benefits

- Ultra fine textured appearance—a virtual solid when installed and can be used to create dramatic design accents within an overall background color scheme
- A premium visual tile with distinctive non-directional design that creates a monolithic appearance
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Contains post-consumer (drywall) and pre-consumer recycled content
- Made with 85% plentiful, naturally occurring limestone

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



Mannington **Works.**

slip-retardant tile

SafeWalks, an attractive slip-retardant tile, is recommended for areas where slip/fall is a concern. Available in twelve great colors that coordinate with our other tile products.

The Modular Configurator 

You can compose, coordinate, and configure your own tile designs without your feet ever hitting the floor – with the Modular Configurator.

Find it online at www.manningtoncommercial.com

This relationship won't wear out.

SafeWalks™

■ safewalks



safewalks

Size: 12" x 12" (30.48 cm x 30.48 cm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648):
>.45 watts/cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450, Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty


navy
800


granite white
801

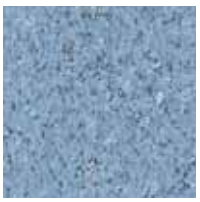

jute
803


baltic green
805


oyster white
807


sienna
808


dark chocolate
809


horizon blue
810


green tea
813


slate green
815


bisque
817


toasted sesame
827

product benefits

- An attractive, slip retardant vinyl composition tile recommended for areas where slip/fall is a concern
- Slip-retardant surface provides safety underfoot, meets ADA Guidelines
- Engineered profile for excellent durability and ease of maintenance

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

slip-retardant tile



Mannington **Works.**

vinyl composition tile

It Starts Simply Enough.

Then Mix it. Match it. Lay it in wild geometrics, dazzling grids, or boggling puzzle-piece patterns – then walk, shuffle, or waltz all over it. It matters little. Our vinyl composition tile – Essentials and Designer Essentials by name – takes it all, with style.

How? With through-pattern construction that makes scuffs, scrapes, and traffic wear virtually undetectable. The bottom line is a product that looks, lasts, and conserves.

Essentials and Designer Essentials work well together in a variety of dynamic combinations, drawing on Essentials' pastel and neutral palette, and Designer Essentials' saturated color schemes.

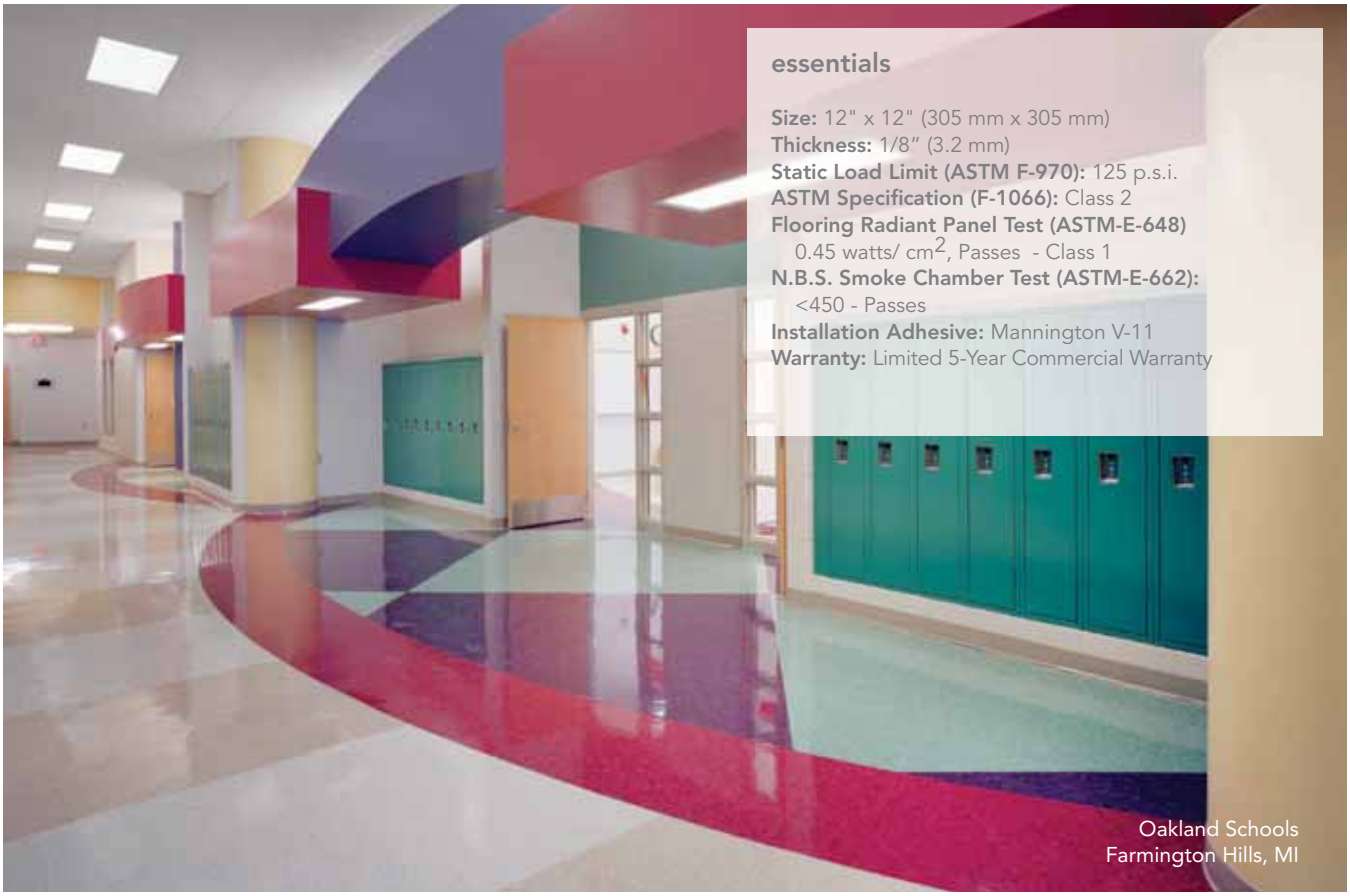
The Modular Configurator 

You can compose, coordinate, and configure your own tile designs without your feet ever hitting the floor – with the Modular Configurator.

Find it online at www.manningtoncommercial.com

Essentials™
Designer Essentials®

■ essentials



essentials

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648)
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty

night black 101	stone gray 102	bisque 107	brownstone 109	dalmation 111	pewter 112	cornsilk 113	adobe 116	fawn 117	silver white 121
glacier 122	wheat 123	silver pine 125	warm beige 127	putty 129	wedgwood 130	oyster white 131	almondine 133	lilac mist 134	seaspray 135
sandrift 137	woodrose 138	caribbean 140	cool white 141	flax 143	mauvestone 148	chamois 153	spruce 155	steel white 161	khaki beige 163
mineral white 171	otter brown 173	mineral gray 175	pecan 178	steel blue 180	prairie sand 183	meadow grass 185	blue ridge 190	asparagus 195	

product benefits

- An exceptional color palette, from soft neutrals to engaging pastels and endless design possibilities
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Made with 85% plentiful, naturally occuring limestone

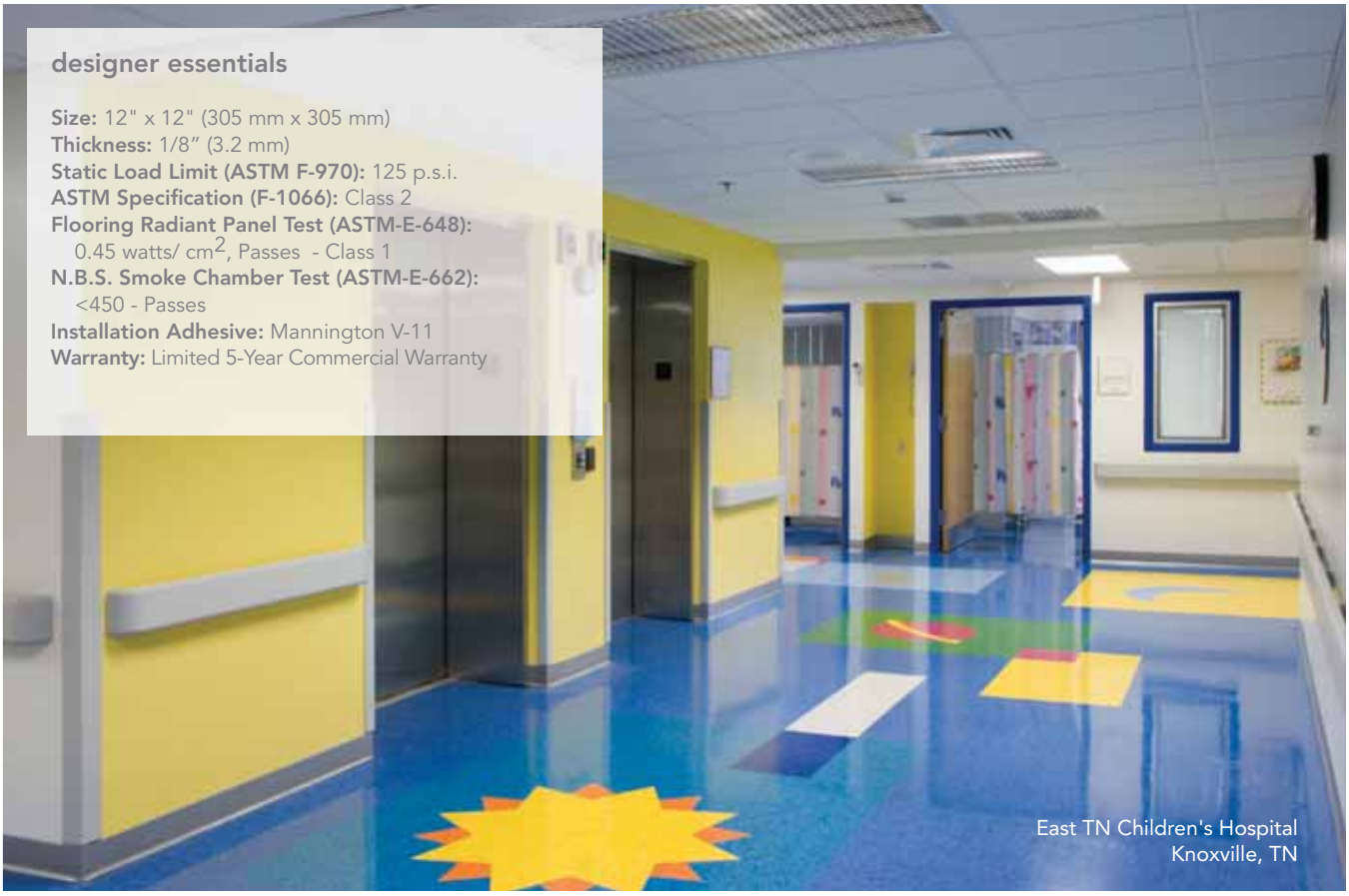
suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



designer essentials

Size: 12" x 12" (305 mm x 305 mm)
Thickness: 1/8" (3.2 mm)
Static Load Limit (ASTM F-970): 125 p.s.i.
ASTM Specification (F-1066): Class 2
Flooring Radiant Panel Test (ASTM-E-648):
0.45 watts/ cm^2, Passes - Class 1
N.B.S. Smoke Chamber Test (ASTM-E-662):
<450 - Passes
Installation Adhesive: Mannington V-11
Warranty: Limited 5-Year Commercial Warranty

navy 200	forest 205	apricot haze 206	dark chocolate 209	niagra blue 210	banana cream 213	wineberry 218	toffee 219	horizon 220
evergreen 225	new geranium 228	lavender ash 234	moss 235	black cherry 238	brown earth 239	aquifer 240	new eggplant 244	tarragon 245
bronze 246	sapphire 250	frosted jade 255	redwood 258	olivia 259	sierra 268	lapis 280	atlantis 290	deep fern 295

product benefits

- Designer Essentials is an expressive color selection of bold and vivid accents and endless design possibilities
- Through-pattern construction offers exceptional durability even under heavy rolling loads or high traffic areas
- Made with 85% plentiful, naturally occuring limestone

suggested end use

education healthcare offices retail hospitality

available width

12" X 12"

Made in USA



Purple Martins have proven to be an environmentally friendly way to deal with insects. Mannington maintains Martin gourd systems adjacent to our headquarters in southern New Jersey and our Calhoun, Georgia facility. With the help of our birds, our insect problem, though not completely eradicated is now manageable. You will find a purple martin icon on the back of our architect folders where specific environmental attributes can easily be found.

technical section

Can't find a specific product?
Or need more detailed information about a product?

Check here.

In this section you'll find a complete index of all of our flooring products; a list of coordinating products; and warranty information.

For additional specifications, installation, or maintenance information, contact your Mannington Commercial representative or our Technical Services Department at 800-241-2262, option 4.

nature's paths™

luxury vinyl tile/plank

product specs

	US	METRIC
construction	Luxury Vinyl Tile and Plank with micro bevel edges	
size (tile)	16" x 16"	406 mm x 406 mm
size (plank)	3" x 36"	76.2 mm x 914.5 mm
	4" x 36"	101.5 mm x 914.5 mm
	6" x 36"	152.5 mm x 914.5 mm
overall thickness (plank & tile)	.100 inches	2.5 mm
wearlayer thickness (plank & tile)	.020 inches	0.51 mm
pieces per carton (plank - 3", 4" & 6")	48 - 36 - 24	
pieces per carton (tile)	18	
coverage per carton (plank - 3", 4" & 6")	36 sq. ft. (All 3 widths)	3.34 m^2
coverage per carton (tile)	32 sq. ft.	2.97 m^2
weight per piece (plank) 3" x 36"	.69 lbs.	.31 Kg
4" x 36"	.92 lbs.	.42 Kg
6" x 36"	1.38 lbs.	.63 Kg
weight per piece (tile)	1.64 lbs.	.74 Kg
weight per carton (plank - 3", 4" & 6")	33.8 lbs. (All 3 widths)	15.3 Kg
weight per carton (tile)	30.2 lbs.	13.7 Kg
static load limit	750 p.s.i.	
specification (ASTM 1700)	Class 3, Type B	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
heat stability (ASTM F-1514)	Passes	
stain & chemical stability (ASTM F-925)	Passes	
HUD/FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM E-648)	≥ .45 watts/cm2, Passes - Class 1	
N.B.S. *smoke chamber test* (ASTM E-662)	< 450 Passes	
installation adhesive	Mannington Commercial V-82 (Porous) Full Spread Mannington Commercial V-95 (Non-Porous) Full Spread (Must use V-95 for heavy rolling loads and under hospital beds.)	

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Nature's Paths is not recommended in commercial areas that require static dissipation. Nature's Paths is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90° F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, finish selection and maintenance schedule may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit and other substances from being tracked onto floor.

maintenance	see pages 136-137 for complete maintenance instructions
installation	see page 109 for complete installation instructions
warranty	Limited 10-Year Commercial Warranty, Limited 5-Year Quantum Guard™ HP Finish Warranty, see pages 140-141 for complete warranty information

architectural specifications (tile/plank)

Nature's Paths Luxury Vinyl Tile/Plank Flooring Guide Specifications: All floors shown in the Finish Schedule or listed in the specification shall be Mannington Commercial Nature's Paths Tile or Plank, shipped from Mannington Resilient Floors, Salem, New Jersey 08079, color number _____ (insert number). The product shall have a wearlayer thickness of .020 inches (0.51mm) nominal and be available in 16" x 16" (406 mm x 406 mm) tile or 3" x 36" (76.2 mm x 914.5 mm), 4" x 36" (101.5 mm x 914.5 mm), or 6" x 36" (152.5 mm x 914.5 mm) planks (style dependant). Nature's Paths shall be manufactured in accordance with ASTM Specification 1700 and shall be asbestos-free. The product shall have a Limited 10-Year Commercial Warranty against manufacturing defects and a Limited 5-Year Quantum Guard™ HP Finish Warranty. The recommended adhesive shall be Mannington Commercial V-82 for porous substrates, and Mannington V-95 for non-porous substrates and/or areas with heavy rolling loads or under hospital beds. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed.Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

nature's paths™ select

luxury vinyl tile/plank

product specs

	US / METRIC				
construction	Luxury Vinyl Tile / Plank with micro bevel edges				
wearlayer thickness	.020 inches / .051 mm				
overall thickness	.100 inches / 2.5 mm				
size (tile)	18" x 18" / 457.2 mm x 457.2 mm				
pieces per carton (tile)	18				
coverage per carton (tile)	40.5 sq. ft. / 3.76 sq. m				
weight per piece (tile)	2.12 lbs. / .96 kg				
weight per carton (tile)	38.1 lbs. / 17.3 kg				
cartons per pallet (tile)	48				
	Wild Beech	Wenge	Oakford Strip	Princeton Cherry	
plank width / length	3" x (12", 24", 36", 48") multiple lengths 76.2 mm x (304.8 mm, 609.6 mm, 914.5 mm, 1219.3 mm)				
pieces per carton	48	48	48	48	
coverage per carton	48 sq. ft. (4.46 m^2)	48 sq. ft. (4.46 m^2)	48 sq. ft. (4.46 m^2)	48 sq. ft. (4.46 m^2)	
weight per piece	12" - 0.71 lbs. (.32 kg) 24" - 1.42 lbs. (.64 kg) 36" - 2.13 lbs. (.97 kg) 48" - 2.83 lbs. (1.28 kg)	12" - 0.71 lbs. (.32 kg) 24" - 1.42 lbs. (.64 kg) 36" - 2.13 lbs. (.97 kg) 48" - 2.83 lbs. (1.28 kg)	12" - 0.71 lbs. (.32 kg) 24" - 1.42 lbs. (.64 kg) 36" - 2.13 lbs. (.97 kg) 48" - 2.83 lbs. (1.28 kg)	12" - 0.71 lbs. (.32 kg) 24" - 1.42 lbs. (.64 kg) 36" - 2.13 lbs. (.97 kg) 48" - 2.83 lbs. (1.28 kg)	
weight per carton	34 lbs. (1.54 Kg)	34 lbs. (1.54 Kg)	34 lbs. (1.54 Kg)	34 lbs. (1.54 Kg)	
cartons per pallet	65	65	65	65	
	Century Cherry	Chattam Oak	Barnwood Plank	Heritage Hickory	Mountain Pine
plank width / length	5" x 48" (127 mm x 1219.3 mm)	5" x 48" (127 mm x 1219.3 mm)	5" x 48" (127 mm x 1219.3 mm)	5" x 48" (127 mm x 1219.3 mm)	7" x 48" (177.8 mm x 1219.3 mm)
pieces per carton	22	22	16	16	16
coverage per carton	36.7 sq. ft. (3.41 m^2)	36.7 sq. ft. (3.41 m^2)	36.7 sq. ft. (3.41 m^2)	36.7 sq. ft. (3.41 m^2)	37.3 sq. ft. (3.47 m^2)
weight per piece	1.57 lbs. (.71 kg)	1.57 lbs. (.71 kg)	2.16 lbs. (.98 kg)	2.16 lbs. (.98 kg)	2.20 lbs. (1 kg)
weight per carton	34.5 lbs. (15.7 kg)	34.5 lbs. (15.7 kg)	34.5 lbs. (15.7 kg)	34.5 lbs. (15.7 kg)	35.2 lbs. (15.9 kg)
cartons per pallet	63	63	63	63	65
static load limit	750 p.s.i.				
specification (ASTM 1700)	Class 3, Type B				
heat stability (ASTM F-1514)	Passes				
stain & chemical stability (ASTM F-925)	Passes				
HUD/FHA *requirements*	Exceeds				
coefficient of friction	Meets ADA Guidelines at 0.6				
flooring radiant panel test (ASTM-E-648)	>.45 watts/cm2, Passes				
N.B.S *smoke chamber test* (ASTM E-662)	< 450 Passes				
installation adhesive	Mannington Commercial V-82 (Porous) Full Spread Mannington Commercial V-95 (Non-Porous) Full Spread (Must use V-95 for heavy rolling loads and under hospital beds.)				

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Nature's Paths Select is not recommended in commercial areas that require static dissipation. Nature's Paths Select is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90° F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, finish selection and maintenance schedule may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit and other substances from being tracked onto floor.

maintenance	see pages 136-137 for complete maintenance instructions
installation	see page 109 for complete installation instructions
warranty	Limited 10-Year Commercial Warranty, Limited 5-Year Quantum Guard™ HP Finish Warranty, see pages 140-141 for complete warranty information

architectural specifications (tile/plank)

Nature's Paths Select Luxury Vinyl Tile/Plank Flooring Guide Specifications: All floors shown in the Finish Schedule or listed in the specification shall be Mannington Commercial Nature's Paths Select Tile or Plank, shipped from Mannington Resilient Floors, Salem, New Jersey 08079, color number _____ (insert number). The product shall have a wearlayer thickness of .020 inches (0.51mm) nominal and be available in 18" x 18" (457.2 mm x 457.2 mm) tile or 5" x 48" (127 mm x 1219.3 mm), 7" x 48" (177.8 mm x 1219.3 mm), or 3" x (12", 24", 36" and 48") (76.2mm x 304.8mm, 609.6mm, 914.55mm, 1219.3mm) multiple lengths (style dependant). Nature's Paths Select shall be manufactured in accordance with ASTM Specification 1700 and shall be asbestos-free. The product shall have a Limited 10-Year Commercial Warranty against manufacturing defects and a limited 5-Year Quantum Guard HP™ Finish Warranty. The recommended adhesive shall be Mannington Commercial V-82 for porous substrates, and Mannington V-95 for non-porous substrates and/or areas with heavy rolling loads or under hospital beds. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

icore®

advanced composite

product specs

	US	METRIC
construction	Advanced Composite flooring, with micro-beveled edges	
base plank	INNERCORE™ Technology with extruded waterproof synthetic core	
size	72" Length x 5" Width	(1829 mm x 127 mm)
thickness	.375 (3/8) inches	(9.53 mm)
installed thickness including hush™ underlayment	.468 (15/32) inches	(11.89 mm)
coverage per carton	20 sq. ft. (8 planks)	
weight per carton	Approx. 32 lbs.	
installation method	Floating floor system using Snap & Fit™ co-extruded splines.	
side and end plank sealer	CoreWeld™ 8 oz. can covers approx. 40-60 sq. ft.	
sound deadening	Mannington® Hush advanced vinyl-cushioned foam construction .085-mil thickness 300 sq. ft. per roll	
specification NALFA (LF 01-2003)	Meets commercial rating	
methenamine pill test (ASTM-D-2859)	Passes	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
n.b.s. smoke chamber test (ASTM-E-662)	<450 Passes	
flooring radiant panel (ASTM-E-648)	Class I	
static load limit	>1500 p.s.i.	
impact sound transmission IIC (ASTM-E-492)	Pass >50 (Hush underlayment)	
sound transmission loss–STC (ASTM E-90, ASTME-413)	Pass >50 (Hush underlayment)	

ICORE is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. For increased indentation resistance, use wide-bearing, non-staining floor protectors, such as clear hard plastic or non-staining felt protectors for heavy furnishings. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 132-133 for complete maintenance instructions
installation	see page 109 for complete installation instructions
warranty	Limited 10-Year Commercial Warranty, see pages 141-142 for complete warranty information

architectural specifications

ICORE Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be ICORE, manufactured in the USA by Mannington Mills, Inc. High Point, North Carolina 27260. Color number_____(insert number). The product shall have a thickness of .375" (9.53mm) inches nominal and be available in 72 inches length by 5 inches (1829mm x 127mm) width. The advanced composite flooring shall be manufactured with a waterproof core and backing. The product shall offer a Limited 10-Year Commercial Warranty against manufacturing defects. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, New Jersey 08079 and can contribute to LEED RM Credit 5.1 and 5.2. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

prestige

commercial hardwood

product specs

US METRIC

construction	Engineered 5-Ply Premium Hardwood with cross-grain construction					
top face	Rotary cut top face					
wear layer	UltraWear™ Plus with ScratchResist™ 8-Step UV cured urethane aluminum oxide finish					
	Oregon Oak	Montana Oak	Biltmore Maple	Vermont Maple	Lynnhaven Maple	Blue Ridge Hickory
gloss level	Satin	Satin	Satin	Satin-Natural and Camel Low Luster-Imperial Black	Low Luster	Satin
edge finish	Micro-beveled sides with square ends	Micro-beveled edge	Micro-beveled edge	Square edge	Micro-beveled edge	Micro-beveled edge
plank widths (nominal)	3" (7.6 cm)	5" (12.7 cm)	3" (7.6 cm)	3" (7.6 cm)	5" (12.7 cm)	5" (12.7 cm)
plank thickness (nominal)	9/16" (14.3 mm)	9/16" (14.3 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)	9/16" (14.3 mm)
square feet per carton	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)
weight per carton	47 (21.3 Kg)	47 (21.3 Kg)	47 (21.3 Kg)	47 (21.3 Kg)	47 (21.3 Kg)	47 (21.3 Kg)
cartons per pallet	36	36	36	36	36	36
installation method	Glue, Nail, Staple, or Float	Glue, Nail, Staple, or Float	Glue, Staple, or Float	Glue, Staple, or Float	Glue, Staple, or Float	Glue, Nail, Staple, or Float
HUD/FHA *requirements*	Meets or exceeds					
coefficient of friction (ASTM D-2394)	Meets ADA Guidelines at 0.6					
flooring radiant panel test (ASTM-E-648)	>.45 watts/cm2, Passes, NFPA Class 1					
flame spread tunnel test (ASTM E-84)	Meets Class C, Flamespread					
sound transmission class STC (ASTM E-90)	≥50					
impact insulation class IIC (ASTM E-492, E-989)	≥50					
installation adhesive	Glue method requires Mannington's UltraSpread Adhesive					
underlayment	Floating method requires Mannington® Hush, AquaBarrier II™, or ComfortBarrier™ underlayment and MegaGlue™ adhesive					
subfloor requirements	Above, On or Below Grade, *For concrete On or Below Grade requires AquaBarrier II™					
Trim and moulding	Color matching pre-finished: reducer strip, step nosing, baby threshold, t-molding, wall base and quarter round Each are 84" (2.4m) long with 5 pieces per carton. NOTE: Color matched moldings are not available for Vermont Maple Imperial Black.					

Wood products contain natural variations in grain and color. It is recommended to order several samples when making final product selection.

Custom color matching is available on selected skus, with a 10,000 square foot production minimum. Upcharges will apply. Allow 3-4 weeks for sample delivery from receipt of swatch and custom color form. Allow 4-6 week lead time for production from date of customer approval.

Ordinary sweeping and mopping is usually sufficient to keep the floor clean. If needed, an occasional cleaning with UltraClean™ or equivalent is recommended. Never flood the floor with water. Do not use soap-based detergents, as these may leave a dull finish on the floor. Do not use abrasive cleaners, steel wool, or scouring powder, as these may dull the floor.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substrates from being tracked onto floor.

maintenance	see page 132 for complete maintenance instructions
installation	see pages 112-119 for complete installation instructions
warranty	Limited 3-Year UltraWear™ Plus with ScratchResist™ Commercial Finish Warranty, Limited Lifetime Structure and Subfloor Bond Warranty, see pages 142-143 for complete warranty information

architectural specifications

Prestige Guide Specifications. All floors shown in the finish schedule or listed in this specification shall be Mannington Commercial Hardwood Prestige Collection, manufactured and shipped in the U.S.A. by Mannington Mills, Inc., High Point, North Carolina 27260. Color number _____ (insert number). This product (style dependent) shall have a thickness of 1/2 inches (12.7 mm) or 9/16 inches (14.3 mm) nominal and be available in random lengths up to 42" (1.07 m) and be available in 3" (7.6 cm) or 5"(12.7 cm) widths (dependent on style). The Commercial Hardwood flooring shall be constructed with a 5-ply cross-grain for maximum reinforcement and shall offer a Limited 3 Year UltraWear™ Plus with ScratchResist™ Commercial Finish Warranty and a Limited Lifetime Structure & Subfloor Bond Warranty. Installation shall be in accordance with the Mannington Professional Installation Guide.

Engineered hardwood flooring utilizes more of each log than solid wood flooring and a variety of hardwood species are used for the inner plies which reduces forest waste. Logs are rotary peeled on a lathe using a knife instead of a saw blade eliminating the kerf or sawdust waste. Mill wood waste is used as a fuel for creating process steam to heat logs, dry the veneer, and heat buildings. The hardwood veneer layers are bonded with a water-based and solvent free adhesive. There is no formaldehyde added during any steps of manufacturing. Mannington engineered hardwood floors are low emitting. Technology improvements allow us to use stains and finishes that are water based or 100% solids. Installation adhesives comply with strict state and federal VOC regulations and contain no chlorinated solvents or ozone depleting chemicals. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contriute to LEED IEQ Credit 4.1. Manufactured in Highpoint, North Carolina and can contribute to LEED RM Credit 5.1 and 5.2.

legacy

commercial hardwood

product specs

US METRIC

construction	Engineered 5-Ply Premium Hardwood with cross-grain construction				
top face	Rotary cut top face				
wear layer	UltraWear™ Plus with ScratchResist™ 8-Step UV cured urethane aluminum oxide finish				
	Gatehouse Maple	Broad River Hickory	Heritage Hickory	Hampton Hickory	Chesapeake Hickory
gloss level	Low Luster	Low Luster	Low Luster	Satin	Satin
edge finish	Full-Bevel	Full-Bevel	Full-Bevel	Full-Bevel	Micro-bevel
plank widths (nominal)	5" (12.7 cm)	5" (12.7 cm)	5" (12.7 cm)	3" (7.6 cm)	5" (12.7 cm)
plank thickness (nominal)	1/2" (12.7 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)	9/16" (14.3 mm)	9/16" (14.3 mm)
square feet per carton	27.3 (2.536 sq.m.)	26.25 (2.438 sq.m.)	27.3 (2.536 sq.m.)	26.25 (2.438 sq.m.)	26.25 (2.438 sq.m.)
weight per carton	41.8 (18.9 Kg)	47 (21.3 Kg)	49.5 (22.45 Kg)	47 (21.3 Kg)	47 (21.3 Kg)
cartons per pallet	28	36	28	36	36
	Highland Hickory	Washington Cherry	Nottingham Maple	King's Grove Hickory	
gloss level	Low Luster	Satin	Low Luster	Low Luster	
edge finish	Micro-bevel	Micro-bevel Edges and Ends	Full-bevel / Hand-planed Edges and Ends	Full-bevel / Hand-planed	
plank widths (nominal)	5" (12.7 cm)	5" (12.7 cm)	5" (12.7 cm)	5" (12.7 cm)	
plank thickness (nominal)	9/16" (14.3 mm)	9/16" (14.3 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)	
square feet per carton	26.25 (2.438 sq.m.)	30.63 (2.845 sq.m.)	30.63 (2.845 sq.m.)	30.63 (2.845 sq.m.)	
weight per carton	47 (21.3 Kg)	47 (21.3 Kg)	48 (21.8 Kg)	48 (21.8 Kg)	
cartons per pallet	36	36	36	36	
installation method	Glue, Nail, Staple, or Float				
HUD/FHA *requirements*	Meets or exceeds				
coefficient of friction (ASTM D-2394)	Meets ADA Guidelines at 0.6				
flooring radiant panel test (ASTM-E-648)	>.45 watts/cm2, Passes, NFPA Class 1				
flame spread tunnel test (ASTM E-84)	Meets Class C, Flamespread				
sound transmission class STC (ASTM E-90)	≥50				
impact insulation class IIC (ASTM E-492, E-989)	≥50				
installation adhesive	Glue method requires Mannington's UltraSpread Adhesive				
underlayment	Floating method requires Mannington® Hush, AquaBarrier II™, or ComfortBarrier™ underlayment and MegaGlue™ adhesive				
subfloor requirements	Above, On or Below Grade, *For concrete On or Below Grade requires AquaBarrier II™				
Trim and moulding	Color matching pre-finished: reducer strip, step nosing, baby threshold, t-molding, wall base and quarter round. Each are 84" (2.4m) long with 5 pieces per carton. NOTE: Color matched moldings are not available for Vermont Maple Imperial Black.				

Wood products contain natural variations in grain and color. It is recommended to order several samples when making final product selection.

Custom color matching is available on selected skus, with a 10,000 square foot production minimum. Upcharges will apply. Allow 3-4 weeks for sample delivery from receipt of swatch and custom color form. Allow 4-6 week lead time for production from date of customer approval.

Ordinary sweeping and mopping is usually sufficient to keep the floor clean. If needed, an occasional cleaning with UltraClean™ or equivalent is recommended. Never flood the floor with water. Do not use soap-based detergents, as these may leave a dull finish on the floor. Do not use abrasive cleaners, steel wool, or scouring powder, as these may dull the floor.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substrates from being tracked onto floor.

maintenance	see page 132 for complete maintenance instructions
installation	see pages 112-119 for complete installation instructions
warranty	Limited 3-Year UltraWear™ Plus with ScratchResist™ Commercial Finish Warranty, Limited Lifetime Structure and Subfloor Bond Warranty, see pages 142-143 for complete warranty information

architectural specifications

Legacy Guide Specifications. All floors shown in the finish schedule or listed in this specification shall be Mannington Commercial Hardwood Legacy Collection, manufactured in the U.S.A. by Mannington Mills, Inc., High Point, North Carolina 27260. Color number _____ (insert number). This product (style dependent) shall have a thickness of 1/2 inches (12.7 mm) or 9/16 inches (14.3 mm) nominal and be available in random lengths up to 44" (1.12 m) and be available in 5"(12.7 cm) widths (dependent on style). The Commercial Hardwood flooring shall be constructed with a 5-ply cross-grain for maximum reinforcement and shall offer a Limited 3 Year UltraWear™ Plus with ScratchResist™ Commercial Finish Warranty and a Limited Lifetime Structure & Subfloor Bond Warranty. Installation shall be in accordance with the Mannington Professional Installation Guide.

Engineered hardwood flooring utilizes more of each log than solid wood flooring and a variety of hardwood species are used for the inner plies which reduces forest waste. Logs are rotary peeled on a lathe using a knife instead of a saw blade eliminating the kerf or sawdust waste. Mill wood waste is used as a fuel for creating process steam to heat logs, dry the veneer, and heat buildings. The hardwood veneer layers are bonded with a water-based and solvent free adhesive. There is no formaldehyde added during any steps of manufacturing. Mannington engineered hardwood floors are low emitting. Technology improvements allow us to use stains and finishes that are water based or 100% solids. Installation adhesives comply with strict state and federal VOC regulations and contain no chlorinated solvents or ozone depleting chemicals. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contriute to LEED IEQ Credit 4.1. Manufactured in Highpoint, North Carolina and can contribute to LEED RM Credit 5.1 and 5.2.

mannington assurance™ II

slip-retardant sheet

product specs	US	METRIC
construction	Slip Retardant Sheet	
size	6'	1.83 m
wearlayer thickness	.080 inches (wearlayer)	2.03 mm
overall thickness	.080 inches (overall)	2.03 mm
weight per square yard	5.80 lbs / yd^2*	3.15 kg / m^2
	* For packing weight, it includes interleaf (0.4 lbs per square yard)(0.22 kg/m^2).	
maximum square yard per roll	6'-68	56.9 sq m
minimum square yard per roll	6'-30	25.1 sq m
static load limit	750 p.s.i.	49.22 kg / cm^2
ASTM *specification* (F-1913)	Exceeds	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive porous substrates	Mannington V-82 / Full Spread	
installation adhesive non-porous substrates	Mannington V-95 / Full Spread Must use V-95 under hospital beds and heavy rolling loads.	
chemical seam sealer	MLG-33	
heat weld seaming	Mannington Solid-Color Weld Rods	

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Mannington Assurance II is not recommended in commercial areas that require static dissipation. Mannington Assurance II is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. Mannington Assurance II can be installed in areas with topical moisture as long as V-95 adhesive is used, seams are properly sealed, and perimeter / edges are protected or coved up the wall.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. The product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use door mats outside each entrance to prevent dirt, sand, grit, and other substances from being tracked on floor.

maintenance	see page 136-137 for complete maintenance instructions
installation	see pages 127-129 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial and Limited 5-Year Quantum Guard™ HP Finish Warranty, see page 144-145 for complete warranty information

architectural specifications

Mannington Assurance II Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Mannington Assurance II, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number_____(insert number). The product shall have a homogeneous wearlayer thickness of .080" (2.03 mm) nominal and be available in 6 foot (1.83 m) widths. Mannington Assurance II shall be manufactured in accordance with ASTM Specification F-1913 and shall be asbestos-free. The product shall have a Limited 5-Year Commercial Warranty against manufacturing defects and a Limited 5-Year Quantum Guard™ HP Finish Warranty. The recommended adhesive shall be Mannington Commercial V-82 over porous substrates, and Mannington Commercial V-95 for non-porous substrates and / or areas under hospital beds or subject to heavy rolling loads, and standing water, or topical moisture. All seams shall be heat welded with Mannington Commercial Heat-Welding Rods or chemically welded by top coating Mannington MLG-33. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, New Jersey 08079 and can contribute to LEED RM Credit 5.1 and 5.2. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

relay™

homogeneous inlaid

product specs	US	METRIC
construction	Homogeneous Inlaid	
size	6'	1.83 m
wearlayer thickness	.080 inches	2.03 mm
overall thickness	.080 inches	2.03 mm
pattern repeat	Random Repeat, Reverse Sheet For Seaming	
weight lbs per square yard	6.3 lbs / yd^2*	3.37 kg / m^2
	* For packing weight, it includes interleaf (0.4 lbs per square yard)(0.22 kg/m^2).	
min. - max. square yard per roll	Average 25-68 sq. yds.	20.9 - 56.9 sq m
static load limit	750 p.s.i.	
ASTM *specification* (F-1913)	Exceeds	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive porous substrates	Mannington V-82 / Full Spread	
installation adhesive non-porous substrates	Mannington V-95 / Full Spread Must use V-95 under OR tables, hospital beds and heavy rolling loads.	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat-weld seam	Mannington Commercial Solid-Color Weld Rods Heat-weld is the preferred method for hospitals and heavy traffic areas.	
recycled content	40 % pre-consumer (post industrial) recycled content with third party certification.	

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Relay is not recommended for commercial areas that require static dissipation. Relay is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, finish selection and maintenance schedule may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variances do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 136-137 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial and Limited 5-Year Quantum Guard™ HP Finish Warranty, see page 145 for complete warranty information

architectural specifications

Relay Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Relay, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number_____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness .080 inches (2.03 mm) nominal and be available in 6 ft. (1.83 m) widths. Relay shall be manufactured in accordance with ASTM Specification F-1913 and be asbestos-free. The product shall offer a Limited 5-Year Commercial Warranty against manufacturing defects and a Limited 5-Year Quantum Guard™ HP Finish Warranty. The recommended adhesive shall be Mannington Commercial V-82 for porous substrates or Mannington Commercial V-95 for non-porous substrates and under hospital beds or areas with heavy rolling loads. All seams shall be heat-welded with Mannington Commercial Solid Heat-Welding Rods, or chemically sealed using Mannington Commercial MCS-42 Seam Sealer with VST-96 Applicator. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be as recommended in the current Mannington Professional Installation Guide.

Relay contains 40% pre-consumer recycled content with third party certification. Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, New Jersey 08079 and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

lifelines II™

homogeneous inlaid

product specs	US	METRIC
construction	Homogeneous Inlaid	
size	6'	1.83 m
wearlayer thickness	.080 inches	2.03 mm
overall thickness	.080 inches	2.03 mm
weight lbs per square yard	6.5 lbs / yd^2*	3.53 kg / m^2
	* For packing weight, it includes interleaf (0.4 lbs per square yard)(0.22 kg/m^2).	
maximum square yard per roll	68 sq yds	56.9 sq m
minimum square yard per roll	30 sq yds	25.1 sq m
static load limit	750 p.s.i.	
ASTM *specification* (F-1913)	Exceeds	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive porous substrates	Mannington V-82 / Full Spread	
installation adhesive non-porous substrates	Mannington V-95 / Full Spread Must use V-95 under hospital beds or with heavy rolling loads.	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat-weld seam	Mannington Commercial Solid-Color Weld Rods Heat-weld is the preferred method for hospitals and heavy traffic areas.	

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

LifeLines II is not recommended in commercial areas that require static dissipation. LifeLines II is not recommended for commercial areas where a static load exceeds the recommended load limit. LifeLines II is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. LifeLines II can be installed in wet areas as long as the seams are properly sealed and perimeter edges are protected or coved up the wall.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variances do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 136-137 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial and Limited 5-Year Quantum Guard™ HP Finish Warranty, see page 144-145 for complete warranty information

architectural specifications

Lifelines II Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial LifeLines II, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color _____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness .080 inches (2.03 mm) nominal and be available in 6 ft (1.83 m) widths. The product wearlayer shall be Mannington's patented Quantum Guard™ HP with urethane aluminum oxide topcoat cured by a UV process. The product shall be manufactured in accordance with ASTM Specification F-1913. and be asbestos-free. The product shall offer a Limited 5-Year Commercial Warranty against manufacturing defects and a Limited 5-Year Quantum Guard™ HP Finish Warranty. The adhesive shall be Mannington Commercial V-82 for porous substrates or Mannington Commercial V-95 for non-porous substrates and under hospital beds or areas with heavy rolling loads. Chemically seal all seams using Mannington Commercial MCS 42 Seam Sealer and VST-96 Applicator Kit, or heat weld using Mannington solid color Heat Welding Rods. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. LifeLines II is manufactured in Salem, NJ and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

biospec®

homogeneous inlaid

product specs	US	METRIC
construction	Homogeneous Inlaid	
size	6'	1.83 m
wearlayer thickness	.080 inches	2.03 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	6.5 lbs./yd²*	3.53 kg / m²
	* For packing weight, it includes interleaf (0.4 lbs per square yard)(0.22 kg/m²).	
maximum square yard per roll	68 sq yds	56.9 sq m
minimum square yard per roll	30 sq yds	25.1 sq m
static load limit	750 p.s.i.	
ASTM *specification* (F-1913)	Exceeds	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	≥45 watts / cm², Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive porous substrates	Mannington V-82 / Full Spread	
installation adhesive non-porous substrates	Mannington V-95 / Full Spread Must use V-95 under hospital beds and heavy rolling loads.	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat-weld seam	Mannington Commercial Solid and Camouflaged Heat Heat-weld is the preferred method for hospitals and heavy traffic areas.	

Featuring Quantum Guard™, a protective urethane wearlayer providing the ultimate ease in maintenance. Quantum Guard is applied with UV curing, significantly reducing the need for polish in low to normal traffic areas. Polish may be required in areas adjacent to exterior doors or high traffic locations to extend the life of the floor. Low maintenance option.

BioSpec is not recommended in commercial areas that require static dissipation. BioSpec is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. BioSpec can be installed in wet areas as long as the seams are properly sealed and perimeter edges are protected or coved up the wall.

Dirt, wetness, and improper maintenance may cause significant variation on actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 133-136 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial Warranty, see page 144-145 for complete warranty information

architectural specifications

Biospec Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial BioSpec, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey, 08079, color_____(insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .080 inches (2.03 mm) nominal, and be available in 6 ft. (1.83 m) widths. The product shall be manufactured in accordance with ASTM Specification F-1913 and shall be asbestos-free. The product shall offer a Limited 5-Year Commercial Warranty against manufacturing defects. The recommended adhesive shall be Mannington Commercial V-82 Adhesive for porous substrates or Mannington Commercial V-95 for non-porous substrates and under hospital beds or areas with heavy rolling loads. All seams shall be either heat-welded with Mannington Commercial Solid Heat-Welding Rods, or chemically sealed using Mannington Commercial MCS 42 Seam Sealer with VST-96 applicator. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be as recommended in the current Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, NJ and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

fine fields®

inlaid

product specs	US	METRIC
construction	Inlaid	
size	6'	1.83 m
wearlayer thickness	.066 inches	1.67 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	5.7 lbs./yd^2	3.10 kg/m^2
weight per roll	285 lbs	129 kg
maximum square yard per roll	68 sq yds	56.9 sq m
minimum square yard per roll	30 sq yds	25.1 sq m
static load limit	500 p.s.i.	
ASTM *specification* (F-1303)	Type 2, Grade 1, Class A	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
Installation adhesive	Mannington V-81 / Full Spread	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat-weld seam	Mannington Commercial Solid and Camouflage color weld rods Heat-weld is the preferred method for hospitals and heavy traffic areas.	

Featuring Quantum Guard™, a protective urethane wearlayer providing the ultimate ease in maintenance. Quantum Guard is applied with UV curing, significantly reducing the need for polish in low to normal traffic areas. Polish may be required in areas adjacent to exterior doors or high traffic locations to extend the life of the floor. Low maintenace option.

Fine Fields is not recommended in commercial areas that require static dissipation. Fine Fields is not recommended in commercial areas where the surface temperature over radiant heat substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, and improper schedule may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit and other substances from being tracked onto floor.

maintenance	see pages 133-136 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial Warranty, see page 144-145 for complete warranty information

architectural specifications

Fine Fields Guide Specifications: All floors shown in the Finish Schedule or listed in the specification shall be Mannington Commercial Fine Fields, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number_____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .066 inches (1.67 mm) nominal, and be available in 6 ft. (1.83 m) widths. The product shall be manufactured in accordance with ASTM Specification F-1303 Type 2, Grade 1, Class A and shall be asbestos-free. The product shall offer a Limited 5-year Commercial Warranty against manufacturing defects. The recommended adhesive shall be Mannington Commercial V-81. Heat weld seams with Mannington Commercial Solid or Camouflage Heat-Welding Rods or chemically seal all seams by using Mannington Commercial MCS 42 Seam Sealer and VST-96 Professional Applicator Kit. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed.Manufactured in Salem, NJ and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

magna®

inlaid

product specs	US	METRIC
construction	Inlaid Sheet Flooring	
size	6'	1.83 m
wearlayer thickness	.055 inches	1.40 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	5.9 lbs./yd.^{2}	3.10 kg/m^2
maximum square yard per roll	68 sq yds	59.6 sq m
minimum square yard per roll	30 sq yds	25.1 sq m
static load limit	500 p.s.i.	
ASTM *specification (F-1303)*	Type 2, Grade 1, Class A	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive	Mannington V-81/ Full Spread	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat-weld seam	Mannington Commercial Solid Color Weld Rods Heat-weld is the preferred method for hospitals and heavy traffic areas.	

Featuring Quantum Guard™, a protective urethane wearlayer providing the ultimate ease in maintenance. Quantum Guard is applied with UV curing, significantly reducing the need for polish in low to normal traffic areas. Polish may be required in areas adjacent to exterior doors or high traffic locations to extend the life of the floor. Low maintenance option.

Magna is not recommended in commercial areas that require static dissipation. Magna is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90ºF. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 133-136 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
heat weld	see pages 156-157 for weld rod colors and complete seaming instructions
warranty	Limited 5-Year Commercial Warranty, see page 144-145 for complete warranty information

architectural specifications

Magna Guide Specifications: All floors shown in the Finish Schedule or listed in the specification shall be Mannington Commercial Magna, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number____(insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .055 inches (1.40 mm) nominal, and be available in 6 ft. (1.83 m) widths. The product shall be manufactured in accordance with ASTM Specification F-1303, Type 2, Grade 1, Class A, and be asbestos-free. The product shall offer a Limited 5-Year Commercial Warranty against manufacturing defects. The adhesive shall be Mannington Commercial V-81. Chemically seal all seams using Mannington Commercial MCS 42 Seam Sealer and VST-96 Professional Applicator Kit or heat weld using Mannington Solid Heat Welding Rods. Heat weld is preferred method for healthcare and high traffic areas. Installation shall be as recommended in the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed.Manufactured in Salem, NJ and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

insight™

heterogeneous light

product specs	US	METRIC
construction	Heterogeneous Light	
size	12'	3.66 m
wearlayer thickness	.020 inches	.51 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	3.3 lbs. / yd^2	1.76 kg/m^2
maximum square yard per roll	175 sq yds	146.30 sq m
minimum square yard per roll	55 sq yds	46.0 sq m
static load limit	175 p.s.i.	
ASTM *specification* (F-1303)	Type 1, Grade 1, Class A	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive	Mannington V-81 / Full Spread	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	

Insight is not recommended in commercial areas that require static dissipation. Insight is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90° F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 137-138 for complete maintenance instructions
installation	see pages 120-124 for complete installation instructions
warranty	Limited 10-Year Commercial Warranty. Limited 15-Year Residential Warranty. Limited 5-Year AquaLoc™ Moisture Protection Warranty. See pages 145-146for complete warranty information

architectural specifications

Insight Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Insight, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number _____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .020 inches (.51 mm) nominal and be available in 12 ft (3.66m) widths. The product shall be manufactured in accordance with ASTM Specification F-1303, Type 1, Grade 1, Class A, and be asbestos-free. The product shall have a Limited 10-Year Commercial and 15-Year Residential Warranty against manufacturing defects and a Limited 5-Year AquaLoc™ Moisture Protection Warranty. The adhesive shall be Mannington Commercial V-81. Chemically seal all seams using Mannington Commercial MCS 42 Seam Sealer and VST-96 Applicator Kit. Installation shall be as recommended in the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed.Manufactured in Salem, NJ 08079 and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

customspec II®

heterogeneous light

product specs	US	METRIC
construction	Heterogeneous Light	
size	12'	3.66 m
wearlayer thickness	0.20 inches	.51 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	3.3 lbs / yd^2	1.76 kg / m^2
maximum square yard per roll	140 sq yds	117 sq m
minimum square yard per roll	55 sq yds	46.0 sq m
static load limit	175 p.s.i.	12.3 kg / cm^2
ASTM *specification* (F-1303)	Type 1, Grade 1, Class A	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive	Mannington V-81 / Full Spread	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	

CustomSpec II is not recommended in commercial areas that require static dissipation. CustomSpec II is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90° F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked on the floor.

maintenance	see pages 137-138 for complete maintenance instructions
installation	see pages120-124 for complete installation instructions
warranty	Limited 10-Year Commercial Warranty. Limited 15-Year Residential Warranty. Limited 5-Year AquaLoc™ Moisture Protection Warranty. See pages145-146 for complete warranty information

architectural specifications

CustomSpec II Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial CustomSpec II, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number _____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .020 inches (.51 mm) nominal and be available in 12 ft. (3.66m) widths. The product shall be manufactured in accordance with ASTM Specification F-1303 Type 1, Grade 1, Class A, and be asbestos-free. The product shall offer a Limited 10-Year Commercial and 15-Year Residential Warranty against manufacturing defects and a Limited 5-Year AquaLoc™ Moisture Protection Warranty. The adhesive shall be Mannington Commercial V-81. Chemically seal all seams using Mannington Commercial MCS 42 Seam Sealer and VST-96 Professional Applicator Kit. Installation shall be as recommended in the current Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, NJ 08079 and can contribute to LEED RM Credit 5.1 and 5.2. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

realities™

heterogeneous

product specs	US	METRIC
construction	Heterogeneous	
size	6' / 9' / 12'	1.83 m / 2.75 m / 3.66 m
wearlayer thickness	.020 inches	.51 mm
overall thickness	.080 inches	2.03 mm
weight per square yard	4.70 lbs. / yd^2	2.55 kg/ m^2
maximum square yard per roll	6'—50 sq yds	41.8 sqm
	9'—75 sq yds	62.7 sqm
	12'—100 sq yds	83.6 sqm
minimum square yard per roll	6'—30 sq yds	25.0 sqm
	9'—30 sq yds	25.0 sqm
	12'—30 sq yds	25.0 sqm
static load limit	750 p.s.i.	
ASTM *specification* (F-1303)	Type 1, Grade 1, Class B	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive porous substrates	Mannington V-82 / Full Spread	
installation adhesive non-porous substrates	Mannington V-95 / Full Spread Must use V-95 under hospital beds and heavy rolling loads.	
chemical seam sealer	MCS 42 / VST-96 Applicator Kit	
heat weld seam	Mannington Commercial Solid Color Weld Rods Heat-weld is the preferred method for hospitals and heavy traffic areas	

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Realities is not recommended in commercial areas that require static dissipation. Realities is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. Realities is not recommended over wood subfloors.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purposes. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance see pages 136-137 for complete maintenance instructions
installation see pages 125-127 for complete installation instructions
heat weld see pages 156-157 for weld rod colors and complete seaming instructions
warranty Limited 5-Year Commercial and Limited 5-Year Quantum Guard™ HP Finish Warranty, see page 146-148 for complete warranty information

architectural specifications

Realities Guide Specifications: All floors shown in the Finish Schedule or listed in the specification shall be Mannington Commercial Realities, manufactured in the USA by Mannington Resilient Floors, Salem New Jersey 08079, color number _____ (insert number). The product shall have an overall thickness of .080 inches (2.03 mm) nominal, and a wearlayer thickness of .020 inches (0.51 mm) nominal and be available in 6 ft. (1.83 m), 9 ft. (2.75 m) and 12 ft. (3.66 m) widths. The product shall be manufactured in accordance with ASTM Specification F-1303 Type 1, Grade 1, Class B and be asbestos-free. The product shall offer a Limited 5-Year Commercial Warranty against manufacturing defects and a Limited 5-Year Quantum Guard™ HP Finish Warranty. The adhesive shall be Mannington Commercial V-82 for porous substrates or Mannington Commercial V- 95 for non-porous substrates. Chemically seal all seams using Mannington Commercial MCS42 Seam Sealer and VST-96 Professional Applicator Kit or heat weld using Mannington Commercial Solid Heat Welding Rods. Heat weld is preferred method for healthcare and high traffic areas. Installation should be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed.Manufactured in Salem, NJ 08079 and can contribute to LEED RM Credit 5.1 and 5.2. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

brushwork™ / inspirations™ / colorpoint™/ solidpoint™

premium visual tile

product specs	US	METRIC
construction	Through-Pattern Premium Visual Tile	
size	12" x 12"	305 mm x 305 mm
overall thickness	1/8"	3.2 mm
average weight per carton	65 lbs. per carton 1.43 lbs. per tile	29.5 kg per carton 0.65 kg per tile
pieces per carton	45 / ctn	
boxes per pallet	30	
static load limit	125 p.s.i.	8.79 kg / cm^2
ASTM *specification* (F-1066)	Class 2	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
flame spread (ASTM E-84)	Passes	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive	Mannington V-11 / Full Spread	

Premium Visual Tile products are not recommended for use in hospital operating suites, commercial kitchens, exterior areas, or in areas that require static dissipation. Do not mix same color dyelots. Darker colors may be subject to scratch whitening, requiring more frequent maintenance. Verify substrate (concrete) is dry per ASTM F-1869 5lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. Wood subfloors directly on concrete or sleepers—either on or below grade—are unsatisfactory for Premium Visual Tile installation.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variances do not effect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked on floor.

maintenance	see pages 138-139 for complete maintenance instructions
installation	see pages 127-129 for complete installation instructions
warranty	Limited 5-Year Commercial Warranty, see pages 148-149 for complete warranty information

architectural specifications

Premium Visual Tile Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Premium Visual Tile, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number _____ (insert number). The product shall be of through-pattern construction. The product shall have an overall thickness of 1/8 inches (3.2 mm) nominal, and be available in a 12" x 12" (305 mm x 305 mm) nominal size. The premium visual tile shall be manufactured in accordance with ASTM Specification F-1066, Class 2 and shall be asbestos free. The product shall have a Limited 5-Year Commercial Warranty against manufacturing defects. The adhesive shall be Mannington Commercial V-11 Premium Latex Adhesive. Installation shall be in accordance with the Mannington Professional Installation Guide.

Brushwork, ColorPoint and SolidPoint contain post-consumer (drywall) and pre-consumer recycled content. Inspirations contains pre-consumer recycled content. Products are composed of 85% limestone, an abundant natural resource. Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Manufactured in Salem, NJ 08079 and can contribute to LEED RM Credit 5.1 and 5.2. ISO 9001 and 14001 registered manufacturing facility. Adhesives meet VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

safewalks™

slip-retardant tile

product specs	US	METRIC
construction	Through-Pattern Slip-Retardant Vinyl Composition Tile	
size	12" x 12"	305 mm x 305 mm
overall thickness	1/8"	3.2 mm
average weight per carton	60.5 lbs.	
pieces per carton	45/ctn	
boxes per pallet	30	
static load limit	125 p.s.i.	
specification (ASTM 1066)	Class 2	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD/FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes - Class 1	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450, Passes	
installation adhesive	Mannington V-11 / Full Spread	

SafeWalks is not recommended for use in hospital operating suites, commercial kitchens, exterior areas or in areas that require static dissipation. Do not mix same color dyelots. Verify substrate (concrete) is dry per ASTM F-1869 5lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. Wood subfloors directly on concrete or sleepers, either on or below grade, are unsatisfactory for SafeWalks installation.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.

maintenance	see pages 138-139 for complete maintenance instructions
installation	see pages 127-129 for complete installation instructions
warranty	Limited 5-Year Commercial Warranty, see pages 148-149 for complete warranty information

architectural specifications

SafeWalks Guide Specifications: All floors shown in the finish Schedule or listed in the specifications shall be Mannington Commercial SafeWalks Slip-Retardant Tile, shipped from Mannington Resilient Floors, Salem, New Jersey 08079, color_____(insert number). The product shall have an overall thickness of 1/8 inches nominal (3.2mm) and be available in 12" x 12" (305 mm x 305 mm) nominal size. SafeWalks shall be manufactured in accordance with ASTM Specification 1066 and shall be asbestos-free. The product shall have a Limited 5-Year Commercial Warranty against manufacturing defects. The recommended adhesive shall be Mannington V-11 Premium Latex Adhesive. Installation shall be in accordance with the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program. FloorScore is an alternative compliance path to LEED EQ Credit 4.3. Meets CHPS 01350 IAQ test, passed and listed. Adhesive meets VOC content limit of SCAQMD Rule #1168 and can contribute to LEED IEQ Credit 4.1.

essentials™/ designer essentials®

vinyl composition tile

product specs	US	METRIC
construction	Through-Pattern Vinyl Composition Tile	
size	12" x 12"	305 mm x 305 mm
overall thickness	1/8"	3.2 mm
average weight per carton	65 lbs. per carton 1.43 lbs. per tile	29.5 kg per carton 0.65 kg per tile
pieces per carton	45 / ctn	
boxes per pallet	30	
static load limit modified (ASTM-F-970)	125 p.s.i.	8.79 kg / cm^2
ASTM *specification* (F-1066)	Class 2	
coefficient of friction (ASTM C1028)	Meets ADA Guidelines at 0.6	
HUD / FHA *requirements*	Exceeds	
flooring radiant panel test (ASTM-E-648)	Passes – Class 1	
flame spread (ASTM E-84)	Passes	
N.B.S. *smoke chamber test* (ASTM-E-662)	<450 Passes	
installation adhesive	Mannington V-11 / Full Spread	

Essentials/Designer Essentials are not recommended for use in hospital operating suites, commercial kitchens, exterior areas or in areas that require static dissipation. Do not mix same color dyelots. Darker colors may be subject to scratch whitening, requiring more frequent maintenance. Verify substrate (concrete) is dry per ASTM F-1869 3lbs. maximum MVTR or ASTM F-2170 75% maximum relative humidity. Wood subfloors directly on concrete or sleepers—either on or below grade—are unsatisfactory for Essentials/Designer Essentials installation.

Dirt, wetness, and improper maintenance may cause significant variation in actual performance. Specifications are based on averages from normal manufacturing tolerances. Such variations do not affect product performance. This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose. Use entryway systems outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto the floor.

maintenance	see pages 138-139 for complete maintenance instructions
installation	see pages 127-129 for complete installation instructions
warranty	Limited 5-Year Commercial Warranty, see pages 148-149 for complete warranty information

architectural specifications

Essentials/Designer Essentials Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Essentials and/or Designer Essentials Vinyl Composition Tile, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey 08079, color number_____(insert number). Essentials and Designer Essentials shall be of through-pattern construction. The product shall have an overall thickness of 1/8 inches (3.2 mm) nominal, and be available in a 12" x 12" (305 mm x 305 mm) nominal size. The vinyl composition tile shall be manufactured in accordance with ASTM Specification F-1066, Class, 2 and shall be asbestos-free. The product shall have a Limited 5-Year Commercial Warranty against manufacturing defects. The adhesive shall be Mannington Commercial V-11 Premium Latex Adhesive. Installation shall be as recommended in the Mannington Professional Installation Guide.

Third party certified via the FloorScore IAQ testing program and meets CHPS 01350 IAQ Test, passed and listed. Product is composed of 85% limestone, an abundant natural resource. Manufactured in Salem, New Jersey and/or Houston, Texas and may contribute to LEED RM Credits 5.1 and 5.2. and can contribute to LEED IEQ Credit 4.3. Houston is ISO 9001 and Salem is ISO 9001 and 14001 registered manufacturing facilities. Adhesive meets VOC content limit of SCAQMD Rule #1168.

adhesive and sealer recommendations and application

SECTION	ADHESIVE	PRODUCT OVERVIEW
I	V-11 Adhesive	Essentials / Designer Essentials Brushwork / ColorPoint / SolidPoint / SafeWalks
II	V-81 Premium Latex Adhesive	Magna / Fine Fields / Insight / CustomSpec II
III	V-82 Adhesive (over porous substrates)	BioSpec / LifeLines II / Mannington Assurance II Realities / Relay / Nature's Paths / Nature's Paths Select
IV	V-95 Adhesive (over approved non-porous substrates or in any areas requiring a high-performance adhesive)	BioSpec / LifeLines II / Mannington Assurance II* Realities / Relay / Nature's Paths / Nature's Paths Select

SECTION	SEALER	PRODUCT OVERVIEW
I	Low Gloss MLG 33 Urethane Sealer Kit	Mannington Assurance II / Realities
II	MCS 42 Commercial Seam Sealer	All Resilient products except Mannington Assurance II Sheet
III	VST-96 Professional Applicator Kit	Used with MLG33 and MCS42

* Mannington Assurance II slip-retardant flooring is the only Mannington Commercial product that is specifically designed for use in areas subject to standing water and topical moisture (i.e., entry ways, around floor drains, spas or saunas, or on ramps where heavy rolling loads are expected). In these areas, Mannington V-95 adhesive must be used to adhere Mannington Assurance II. Follow all recommendations and cautions for V-95 adhesive listed in the Mannington Professional Installation Guide.

section I – V-11 adhesive

essentials / designer essentials
inspirations / brushwork / colorpoint / solidpoint / safewalks

description
V-11 is a solvent-free premium latex adhesive developed specifically for installing Mannington Commercial Vinyl Composition and Premium Visual Tile. V-11 is nonflammable and provides a strong moisture-resistant and alkali-resistant bond. You may use it on all approved wood underlayments and on, above, or below-grade concrete substrates. Refer to Mannington Professional Installation Guide.

features
- Easy application
- VOC-compliant / solvent-free / low odor
- Non-flammable
- Moisture- and alkali-resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

directions
- Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, old adhesives, etc. It must be smooth and level.
- The building must have permanent heat / air.
- Sand off any high spots and fill low spots with the appropriate patching compound. Keep the adhesive, floor covering, and job site at a minimum of 65°F for at least 48 hours before, during, and after the installation.
- Apply V-11 with a trowel notched 1/16" wide, 1/32" deep, and 1/32" apart in an even and uniform thickness. V-11 can also be applied using a roller or a brush.
- After spreading, let the adhesive dry to touch. Normal drying time is approximately 45-50 minutes. High humidity and lower temperatures may extend that time.
- When placing tiles, set them firmly against adjoining tiles and press into the adhesive. Do not slide tiles into place.
- You can remove fresh adhesive with water. Dried adhesive can be removed with mineral spirits.

coverage
Approximately 250-300 sq ft per gallon

packaging
1-Gallon Pail #849811, weighs 9.8 lbs (4.45 kg) / 4 per carton
4-Gallon Pail #849814, weighs 38.3 lbs (17.8 kg)

precautions
- Do not use where **excessive** moisture, alkali, or hydrostatic pressure exists.
- Use with adequate ventilation.
- Avoid contact with eyes.
- Do not ingest.
- KEEP OUT OF THE REACH OF CHILDREN.

section II – V-81 adhesive

magna / fine fields / insight / customspec II

description
V-81 is a solvent-free premium latex adhesive developed specifically for use with Mannington Commercial's commercial-grade resilient sheet product which has a felt backing. V-81 is non-flammable, light-colored, and provides a strong moisture and alkali-resistant bond. You may use it over all approved suspended wood underlayments and on, above, or below-grade concrete substrates. Refer to Mannington Professional Installation Guide.

features
- Easy application
- VOC-compliant / solvent-free / low odor
- Non-flammable
- Moisture- and alkali-resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

directions
- Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, etc. It should be smooth and level. Sand off high spots and fill low spots, cracks, holes, etc., with the appropriate Mannington patching compound.
- The building must have permanent heat / air.
- Maintain the adhesive, floor covering, and jobsite at a temperature of at least 65°F for a minimum of 48 hours before, during, and after the installation.
- On porous underfloors, apply the adhesive with a trowel having notches 1/16" wide, 1/16" deep, spaced 1/16" apart.
- On non-porous underfloors, apply a thinner spread of adhesive using a trowel with notches 1/16" wide, 1/32" deep and 1/32" apart.
- Provide adhesive open time but do not allow the adhesive to "skin over" before laying the floor covering into the adhesive.
- Immediately roll the adhered material in both directions using a 100- or 150-lb, three-section floor roller.
- You can clean fresh adhesive smears with water. Remove dried adhesive with mineral spirits.
- Avoid heavy traffic on the finished floor for at least 24 hours.

coverage
Approximately 135-180 square feet per gallon

packaging
1-Gallon Pail #849846, weighs 9.2 lbs (4.17 kg) / 4 per carton
4-Gallon Pail #849845, weighs 41.4 lbs (18.78 kg)

precautions
- Do not use with Perimiflex or any other vinyl-backed materials.
- Do not use where **excessive** moisture, alkali, or hydrostatic pressure exists.
- Use with adequate ventilation.
- Avoid contact with eyes.
- Do not ingest.
- KEEP OUT OF THE REACH OF CHILDREN.

section III – V-82 adhesive

for use with porous substrates

biospec / lifelines II / mannington assurance II / relay / realities / nature's paths / nature's paths select

description
V-82 is a nonflammable, solvent-free, light-colored acrylic adhesive that provides good moisture and alkali resistance, and a strong bond for Mannington Commercial's homogeneous vinyl-backed products. Use over approved suspended wood floors and for on, above, or below-grade concrete. Refer to Mannington Professional Installation Guide

features
- Easy Application
- VOC-compliant / solvent-free / low odor
- Non-flammable
- Moisture- and alkali-resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

directions
- Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, etc. It should be smooth and level.
- Sand off high spots and fill low spots, cracks, holes, etc., with the appropriate patching compound.
- The building must have permanent heat / air.
- Maintain the adhesive, floor covering, and jobsite at a temperature of at least 65°F for a minimum of 48 hours before, during, and after installation.
- V-82 adhesive should be applied with a trowel having notches 1/16" wide, 1/32" deep, spaced 1/32" apart.
- The adhesive must be spread over 100% of the exposed subfloor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched.
- Provide adhesive open time but do not allow the adhesive to "skin over" before laying the floor covering into the adhesive. V-82 has a 30-minute working time after spread.
- After the adhesive has been applied, roll the sheet forward into the adhesive to eliminate trapping air. Do not drop or flop the material into the adhesive. Roll the floor covering with a three-section, 150-lb floor roller in both directions.
- Fresh adhesive smears can be cleaned with water. Remove dried adhesive with mineral spirits or painter's naphtha. **CAUTION:** Mineral spirits and naphtha are flammable.
- Avoid heavy traffic on the finished floor for at least 24 hours. **CAUTION:** All non-porous substrates must be rendered porous by applying an appropriate overlay of a cementitious product before applying V-82.

coverage
Approximately 150-200 sq ft per gallon

packaging
1-Gallon Pail #800282, weighs 12.3 lbs (5.579 kg) / 4 per carton
4-Gallon Pail #849882, weighs 49 lbs (21.05 kg)

precautions
- Use with adequate ventilation.
- Do not use where **excessive** moisture, alkali, or hydrostatic pressure exists.
- Prevent prolonged breathing of vapor and skin contact.
- Do not ingest.
- Avoid contact with eyes.
- KEEP OUT OF THE REACH OF CHILDREN.

section IV – V-95 adhesive

for use with non-porous substrates or where high performance adhesive is required
(i.e. for areas involving heavy rolling loads, or where frequent surface water exposure may occur.)

biospec / lifelines II / mannington assurance II / relay / realities / nature's paths / nature's paths select

description
V-95 is a solvent-free, two-component polyurethane adhesive for high performance indoor installations of Mannington Commercial BioSpec, LifeLines II, Realities, Mannington Assurance II, Nature's Paths and Nature's Paths Select sheet flooring products. You may use V-95 on all approved underlayments and on, above, or below-grade fully cured concrete substrates. V-95 must also be used when installing Mannington Commercial BioSpec, LifeLines II, Realities, Mannington Assurance II, Nature's Paths and Nature's Paths Select over non-porous substrates or in areas subject to standing water, topical moisture, or where heavy rolling loads are expected (i.e., patient rooms, hospital beds, entryways, around floor drains, spas, saunas, or on ramps). Refer to Mannington Professional Installation Guide.

features
- Easy application
- VOC-compliant / solvent-free / low odor
- Non-flammable
- Moisture and alkali resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

directions
- Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, etc. It should be smooth and level.
- Sand off high spots and fill low spots, cracks, holes, etc., with the appropriate Mannington patching compound.
- The building must have permanent heat / air.
- Maintain the adhesive, floor covering, and jobsite at a minimum temperature of 65°F and a maximum temperature of 90°F for at least 48 hours before, during, and after the installation.
- **Pour all of the "Part B" into the pail containing "Part A" while slowly mixing with a low-speed drill mixer (300 RPM or less) until a smooth consistency is obtained.**
- V-95 adhesive should be applied with a trowel having notches 1/16" wide, 1/32" deep, spaced 1/32" apart.
- The adhesive must be spread over 100% of the exposed subfloor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched. Do not spread more adhesive than can be covered within 45 minutes.
  NOTE: The floor temperature directly affects the setting time. The warmer it gets, the faster the adhesive sets.
- Wait 30-45 minutes, and then install the flooring material into the adhesive while still fresh. Proper adhesive transfer to the backing should be confirmed periodically by lifting the material. Roll the floor covering across the width and length with a 100-lb. three-section floor roller to break down adhesive ridges and ensure removal of entrapped air. Wait 1-2 hours and then repeat the rolling procedure as needed to ensure complete removal of all entrapped air.
  NOTE: The instant grab of V-95 is low, so it is sometimes required to apply weights, particularly on the seams, to maintain contact until the adhesive sets (16-24 hours).
- The material should be ready for light traffic in 12 hours, regular traffic in 24 hours. If you must walk on the floor before this time, lay plywood boards across the material to disperse the load. Wait at least 72 hours before allowing heavy traffic on the floor.

CAUTION: It is virtually impossible to remove V-95 when dry. You can remove fresh adhesive with mineral spirits.

coverage
Approximately 185-245 sq ft per gallon

packaging
1-Gallon Pail #849885, Part A weighs approximately 11.8 lbs (5.35 kg), Part B weighs approximately 0.9 lbs (0.41 kg) / 4 per carton

precautions
- Use with adequate ventilation.
- Do not use where **excessive** moisture, alkali, or hydrostatic pressure exists.
- Do not apply directly over gypsum-based surfaces.
- Prevent prolonged breathing of vapor and skin contact.
- Do not ingest.
- Avoid contact with eyes.
- KEEP OUT OF THE REACH OF CHILDREN.

section V – low gloss MLG 33 urethane sealer kit

mannington assurance II / realities

description
MLG 33 sealer (two-part seam sealer) is designed for Mannington Assurance II and Realities with low-gloss urethane-based wear layers. A properly sealed seam will be as strong as the surface of the floor covering, and will remain intact for the life of the floor. The Versatile Sealing Tip (VST-96) is included in this kit.

directions
- Prior to sealing, be certain all seams are clean, dry, and free of adhesive contamination.
- Part B, which contains the de-glossing agent, must be shaken vigorously before blending with Part A.
- Empty entire contents of Parts A and B into the supplied applicator bottle. After securing the VST Tip to the applicator bottle, gently shake the bottle to mix the ingredients. After mixing, the bottle should stand until all trapped air bubbles have dispersed, typically 15 minutes.
- Prior to use, check the flow of the sealer on a scrap piece of flooring.
- Use the forefinger of one hand on top of the flat portion of the tip to guide and uniform application. Use the other hand to control sealer flow. Hold the bottle at approximately a 45° angle.
- Lightly squeeze the bottle and apply a uniform bead of sealer approximately 1/8" wide centered on the seam cut.
- Do not insert the fin into the seam.
- Do not wipe the seam.
- Allow the sealed seam to dry before traffic can be allowed on the floor. Do not walk on or move heavy furniture directly over the sealer until it is fully dry. We recommend 24 hours. Mark the seam by placing a scrap piece of flooring along each side of the seam.
- MLG 33 cannot be saved for reuse. Properly discard any unused sealer, adhering to the local disposition codes and regulations.

coverage
One kit of MLG 33 will seal approximately 70 lineal feet of seams

packaging
#832233, Carton weight 3 lbs (1.4 kg) / 6 kits per carton

precautions
- Flammable liquid. Do not use near heat, sparks, pilot lights, fire, or other open flames.
- Do not ingest.
- Avoid contact with skin and eyes.
- Use in well-ventilated areas.
- Avoid prolonged breathing of vapors.
- Do not save for reuse.
- KEEP OUT OF THE REACH OF CHILDREN.

section VI—MCS 42 commercial seam sealer

applicable for all commercial resilient products except mannington assurance II and realities.

description
MCS 42 is used to seal all seams in Mannington Commercial resilient sheet flooring (except Mannington Assurance II and Realities). A properly sealed seam will be as strong as the surface of the floor covering and will remain intact for the life of the floor.

directions
- Before sealing the seam, make certain all seams are clean, dry, and free of adhesive contamination.
- Fill the VST-96 Professional Applicator bottle (sold separately) at least two-thirds full of sealer. Allow applicator bottle to stand until all air bubbles have dispersed. Before using, check the flow through the fin on a scrap piece of flooring.
- Use the forefinger of one hand on the top flat portion of the tip to guide and ensure proper fin penetration. Use the other hand to control sealer flow. Hold the bottle at approximately a 45° angle.
- When sealing seams, lightly squeeze the bottle and apply a uniform bead of sealer approximately 1/8" wide centered on the seam cut. **It is crucial that the seam sealer penetrates the full thickness for the seam cut to ensure a proper chemical weld. Do not wipe the sealer from the surface of CustomSpec II, Insight and Realities. Mark the seam by writing on scrap pieces of flooring placed on both sides of the seam.**
- When sealing seams (except Mannington Assurance II and Realities) insert the applicator tip into the seam cut making certain that the seam sealer is applied the full depth of the cut. Work in 5' to 6' sections at a time. Gently squeeze the bottle to start the flow of the sealer. Seam Sealer flow will stop when hand pressure is removed. This allows you to leave the applicator inserted in the seam cut when you reposition yourself along the length of the seam. *It is crucial that the seam sealer penetrates the full thickness of the seam cut to ensure a proper chemical weld.* Allow the sealer to remain on the surface of the floor for about 30-40 seconds after application. Wipe the sealer from the surface of the inlaid product after each sectional application with a clean white cloth dampened with mineral spirits.
- Allow the sealed seam to dry at least two hours before permitting traffic on the floor. Avoid walking or moving furniture directly over the sealer until it is fully dry; 24 hours is recommended.
- When sealing multiple seams, keep the applicator tip open by inserting the supplied cleaning wire.
- After all seams are sealed, pour any unused sealer back into the pint can. Do not store seam sealer in the applicator bottle—it will harden.
  NOTE: For homogeneous sheet products, heat weld is the preferred seaming method for commercial environments. For best installation results when heat welding, apply chemical sealer over installed weldrod to improve stain resistance.

coverage
One pint of MCS 42 will seal approximately 400-600 lineal feet

packaging
1-Pint Can #849832, weighs approximately 15 lbs (6.8 kg) / 12 per carton

precautions
- Flammable liquid. Do not use near heat, sparks, pilot lights, fire, or other open flames.
- Use with adequate ventilation.
- Avoid contact with skin and eyes.
- Avoid prolonged breathing of vapors.
- Keep the container tightly closed when not in use.
- KEEP OUT OF THE REACH OF CHILDREN.

section VII—VST-96 professional applicator kit

description
The Professional Seam Sealer Applicator Kit contains a 4-ounce bottle, a tip cleaning pin, and the Versatile Sealing Tip (VST-96). The Kit is intended to be used with Mannington MLG 33 and MCS 42 seam sealers. (MLG 33 seam sealer kits contain the VST-96.) The ergonomic design and specially engineered tip help apply the appropriate amount of seam sealer while completely penetrating the seam cut for all commercial resilient sheet flooring applications. Prior to sealing seams in all products, make certain that all seams are clean, dry, and free of adhesive contamination.

packaging
#832204, weighs approximately 2 lbs (0.9 kg) / 6 per carton

installation guidelines overview

SECTION	TYPE	PRODUCTS
I	Luxury Vinyl Tile	Nature's Paths / Nature's Paths Select
II	Advanced Composite	ICORE
III	Commercial Hardwood	Prestige / Legacy
IV	Slip-Retardant Sheet Homogeneous Inlaid Inlaid	Mannington Assurance II BioSpec / LifeLines II / Relay Fine Fields / Magna
V	Heterogeneous	Realities
VI	Vinyl Composition Tile Premium Visual Tile Slip-Retardant Tile	Essentials / Designer Essentials Inspirations / Brushwork ColorPoint / SolidPoint SafeWalks

section I – luxury vinyl tile / plank

nature's paths / nature's paths select

general information

These installation specifications are for all fully adhered installations of Mannington Commercial Nature's Paths luxury vinyl flooring. All recommendations are based on the most recent available information. This information provides general guidelines. For complete details consult Mannington's Professional Installation Guide. All instructions and recommendations must be followed for a satisfactory installation.

1. The floor covering, adhesive, and room temperature must be kept at a minimum temperature of 65°F or warmer for at least 48 hours before, during, and 48 hours after installation.
2. Install Nature's Paths only after the jobsite has been cleaned and cleared of other trade apparatus that may damage a finished tile installation.
3. Always check the cartons to assure the pattern number is correct and that the shade and lot numbers are the same on all cartons. To minimize shade variation, mix and install tiles from several different cartons.
4. All subfloor / underlayment patching must be done with a non-shrinking water resistant Portland cement patching compound such as Mannington MVP-2023.
5. Never install Mannington Commercial Nature's Paths over residual asphalt-type (cut back) adhesive. It can bleed through the new floor covering. Residual asphalt type adhesive must be covered with underlayment plywood or Mannington MVP 2023 cement patching compound mixed with latex additive.
6. Nature's Paths are to be adhered with Mannington Commercial V-82 adhesive or Mannington Commercial V-95 Adhesive.

section II – advanced composite flooring planks

icore

general information

Assemble all tools and materials listed below before beginning the installation process.

ICORE splines—side and end	Tapping block	Circular saw
CoreWeld™	Pencil	Drill
Mannington Hush® underlayment	Tape measure	Chalk line
Spacing wedges—5/16" (1 cm)	Carpenter's square	Blue masking tape
Pull bar	Transition moldings	Safety glasses*
Utility knife	Hand or power jamb saw	

* Always wear safety glasses when using a hammer or power equipment. Follow safety instructions and MSDS Data Sheets.
* For future repairs, wrap remaining panels in original box and store in a normal, dry interior storage area at normal room temperature.

subfloor information

- Can be installed over structurally sound wood and concrete subfloors on all grade levels.
- Subfloor must be clean and free of debris.
- Subfloor must be level to within 1/4 inch per 10-foot span.
- Low spots can be filled using Mannington's MVP 2023 floor patching compound.
- Sanding or grinding must be used to remove high spots.
- Can be installed over most existing hard surface flooring. Remove hardwood floors that are glued down over concrete.
- Can be installed over most ceramic tile floors.
- ICORE is not recommended in commercial areas where the surface temperature over radiant heated substrate exceeds 90°F.
- ICORE should not be installed over carpet.
- Job site installation temperature should be between 65°F and a maximum of 95°F.
- ICORE is intended for indoor use in buildings that are climate controlled.
- ICORE should not be installed over concrete sub floors where moisture* problems exist.

* **Although moisture will not effect ICORE plank, it is recommended not to install ICORE over concrete slab with history of excessive moisture.**

If removal of existing resilient floor covering is required, follow all recommended Resilient Covering Floor Institute (RCFI) work practices at www.rcfi.com.

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip, or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic "cutback" adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Resilient Floor Coverings" should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures. For more information, visit the Resilient Floor Covering Institute at www.rfci.com.

installation

1. Carefully remove existing wall base, trim, and transition moldings. Measure out the entire work area to ensure proper panel layout. Make sure the last panel to be laid in the work area will be no less than 2" wide. If not, the first panel to be laid in the work area must be cut to compensate the difference in the last panel. Install Mannington Hush underlayment only one sheet at a time during panel installation to prevent damaging the underlayment. Once the first sheet of Mannington Hush underlayment is covered with ICORE flooring, install the second sheet. Do not overlap sheets. Butt the two edges of the sheet together and seal with duct tape.

NOTE: A minimum of 6-mil polyethylene moisture barrier must be used with Mannington Hush if installed on or below grade.

2. Position 5/16"- wide spacing wedges 18" apart around the perimeter of the work area and around pillars, posts, pipes, thresholds, etc., to mark the required expansion gap.
3. Undercut all bottom door casings so the new flooring will fit underneath. Use a scrap piece of the ICORE plank and Hush underlayment as a guide. Make the cut using a hand or power jamb saw. Be certain to allow enough room under the casing for an expansion gap.

laying and adhering icore

4. Once the starting wall has been determined, begin laying the ICORE planks along the wall using spacers or adjustable wedges to maintain the expansion gap. It is imperative that this row be installed straight and tight at all end joints. Cut the last plank to fit.
   NOTE: ICORE planks can be cut using traditional cutting tools such as hand saws, jig saws, circular saws, power miter or chop saws, etc. Establish an area away from the work area for cutting and utilize "dust" containment systems when cutting. Keep the "dust" out of the work area.
5. ICORE splines are specifically designed to secure the planks together. The side splines are 84" long and are packaged 21 splines per carton. The end splines are 4 3/8" long and are packaged 26 per carton. One carton is required for every 60 square feet (3 cartons) of ICORE. ICORE co-extruded splines can be cut with side cutters, vinyl-molding cutters, or with a utility knife. The side splines should be staggered so they bridge the planks by extending at least 12" into the length of the adjoining plank.
6. Insert the ICORE splines into the groove along the first row. It is recommended to keep the stagger of the spline ends as far as possible from the plank ends. For example, if a full plank is used as the first plank in the layout, cut a spline to a length of approximately 30". Insert this spline in the first plank; install the second plank, and insert a full 84" long spline. This will provide 42" of spline in both panel grooves.
   NOTE: Maintain as much stagger with the side splines as possible to help "lock-in" the planks. Never allow an end joint of a spline to fall in line with an end joint of an ICORE plank.
7. In addition to the side splines, it is also necessary to insert end splines in the grooves on the plank ends. Insert the end spline into the already positioned plank; place the next plank onto the side spline, just slightly over the end spline. Apply a liberal amount of CoreWeld to the end spline. Tap the new plank into position over both the side and end splines.
   ENDSPLINES MUST BE USED BETWEEN EACH PANEL END. END SPLINES MUST BE SECURED WITH AN APPLICATION OF COREWELD.

8. Typically the cut-off plank from the first row can be used to start the second row, providing that it is 12" or longer. Stagger the end joints of the second row by at least 12" from the end joints in the first row. Position the groove of the planks onto the splines with slight hand force. Insert the splines into the grooves of the second row, and use a tapping block and hammer to firmly secure the second row to the first by tapping on the plank edge.
9. Be careful not to exert too much force with the tapping block on the edge of the co-extruded side spline. To prevent damaging the ICORE plank edge, **always tap on the side splines and never tap on the plank edges.** Install the third row of ICORE planks using the same procedure. Randomly stagger the end joints to achieve a random and aesthetically pleasing appearance.
10. Closely inspect these first three rows to assure that everything is straight and true. Be certain that all end joints are tight and aligned. If necessary, adjust these three rows of ICORE planks using adjustable wedges before proceeding with the installation. It is sometimes helpful to secure the alignment of these three rows with blue, non-marring masking tape.
    NOTE: Continue installing the planks across the work area. Remember that the double-grooved construction of the ICORE planks allows the panels to be turned 180° to each other to provide for a realistic, random appearance. Periodically throughout the installation, check to be certain that the panels are staying straight and true. Maintain the 5/16" expansion gap.
11. More than likely, the last row of planks will need to be rip cut to fit. Remember this last row must be at least 2" wide. Scribe the last row of panels as required, maintaining the 5/16" expansion gap. Install the cut planks and pull into place with a pull bar.
12. Fill the CoreWeld applicator and screw on the applicator tip. Snip off the very top of the applicator tip to the second ring.
13. Apply an even application of weld to all end and side joints.
14. The majority of the CoreWeld will penetrate into the joint and will also evaporate quickly from the surface of the flooring, however, wipe the area with a clean cloth to ensure that all of the CoreWeld has been removed from the surface.
    NOTE: After welding is complete, pour unused weld back into the can. Do not store CoreWeld in the applicator bottle.
15. Use the appropriate finish molding or terminating profile as a transition to door thresholds, steps, or other floor coverings. When installing base, caution must be taken to not nail into ICORE planks; planks must have the ability to move as building/subfloor shifts. ICORE has matching moldings for all running line decor color. The moldings include quarter-round, wall base, step-nosing, and end-molding. T-molding and reducers have an aluminum core and color match decor sheet for added durability.

repairs

Always inspect each panel closely before installation; however, if damage occurs after installation, the following repair procedures may be used:

If a panel is slightly damaged or chipped, fill it using Mannington Color-Matched Patchal Pencils. Follow all directions described on the container.

1. To replace an entire damaged panel, begin by drilling two 1/2" holes in each end of the damaged plank approximately 1/2" back from all four plank corners and as close to the plank end joints as possible. Drill two more holes in the damaged plank approximately 4" to 5" in from the previously drilled holes. Use extreme caution when drilling to prevent damage to adjoining panels and underlayment.
2. To remove the panel, cut the center with a circular saw. A line may be drawn between the holes to serve as a cutting guide to prevent mistakes. Set the saw to the precise depth of the plank (3/8") to prevent cutting into the underlayment or subfloor make a saw cut across the middle of the pre-marked center section. Starting in the center of the plank cut along the guidelines to the inner holes and continue the saw cut out to the pre-drilled end holes.
3. Wearing gloves or using vise-grip type pliers, grasp one half of the center strip and lift up and out. It may be helpful to pass a utility knife through the end joint to break the CoreWeld. Remove the remaining half of the center section.
4. Remove the remaining plank pieces by rocking up and down with a vise-grip type pliers to separate the groove edge of the replacement panel from the spline of the adjoining planks. An alternative method is to drill several holes along the length of the remaining plank pieces. Insert a sturdy screwdriver or drift pin into the holes and tap toward the center with a hammer. Use extreme caution when removing the damaged panel to prevent harm to adjoining panels.
5. Prepare the replacement plank by cutting off the plank's bottom flange at the groove along one side and both ends. The flange can be cut off using a table saw or by cutting with a utility knife with a new, sharp blade.
6. Apply CoreWeld to the existing splines and quickly slide the repair panel into place by placing the uncut groove side over the existing spline, allowing the cut flange side to rest on the adjoining spline. Apply an additional application of CoreWeld at all seams and wipe off the excess with a clean cloth.
7. Weight the repair panel and avoid active foot traffic for approximately 12 hours after the repair has been completed.

cautions and miscellaneous

1. Furniture should be moved onto the newly installed floor using an appliance hand-truck over hardboard runways.
2. Do not place heavy items on newly installed floor covering for at least 48 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
3. Floor covering subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential affects on the floor covering.
4. Oil or petroleum-based products can result in surface staining. Do not track asphalt driveway sealer or automobile oil drips onto the vinyl floor covering.
5. Use non-staining walk-off mats. Rubber can discolor floor covering.

section III – commercial hardwood

prestige / legacy

general information
All of the General Installation Guidelines regarding storage, job site conditions, including climatic and structural requirements found in Mannington's Professional Installation Guide are applicable to Mannington Hardwood Floors. Review and consider theses requirements before proceeding with the installation.

product inspection
Wood is a natural product, containing natural variations in color, tone, and grain. Before any Mannington engineered wood flooring leaves our plant, each plank goes through numerous inspection stations. A slight color variation between planks, however, is to be expected in a natural wood floor. Mannington cannot guarantee against natural variation in each plank, nor minor differences between samples and the color of the floor. With Mannington, you're protected by our exclusive Pre-Installation Limited Warranty (Gold and Silver Series only). Return any planks you are not satisfied with, uncut, BEFORE installation and we'll replace them. No questions asked.

We urge you to inspect for color, finish, and graining BEFORE installation. Care should be taken during installation to remove or repair particular characteristics you do not desire. We suggest you use cut planks as starter strips to begin each new row and to "rack" the flooring to ensure a random appearance.

Furthermore, we recommend that you examine cartons to determine those that contain random length planks and those that contain full length planks. Plan the layout accordingly so that a consistency is maintained throughout the installation

NOTE: Mannington Hardwood Floors accepts no responsibility for costs incurred when a floor with visible defects has been installed.

jobsite conditions
In addition to the general instructions, Mannington Hardwood has some category specific requirements.

Mannington engineered wood flooring does not need to be acclimated to the jobsite unless the flooring will be transported from one extreme temperature into another. If there is a severe temperature difference, make sure to condition the cartons of wood flooring and UltraSpread Mastic™ adhesive, if being used, 24 hours before the installation.

temperature requirements
As a general rule, the jobsite in a wood flooring installation must be climate-controlled. If you are transporting wood flooring from one extreme temperature into another, however, make sure to condition the cartons 24 hours before installation, 48 hours for bamboo. Wood flooring performs best in climate controlled interior environments. (Temperature and humidity should be controlled for the life of the flooring.)

UltraSpread Mastic has a minimum working temperature of 65°F. Never use UltraSpread Mastic below this requirement. Open time for UltraSpread Mastic is affected by temperature and humidity. As a general rule, the higher the temperature and humidity, the shorter the open time.

moisture requirements
Wood subfloor moisture content must never exceed 14% moisture content when measured with a dependable moisture meter. The difference between the wood subfloor system moisture content and that of the hard wood flooring must not be greater than 4%. The moisture content of the bamboo flooring and the wood subfloor must never be greater than 2% of each other.

Concrete subfloors must be visibly dry, with no history of or show no evidence of excessive moisture vapor transmission. The most common quantitative moisture test is the Anhydrous Calcium Chloride test. This test must be performed in accordance with ASTM F 1869, "Standard Test Method for Measuring Moisture Vapor Emissions Rate of Concrete Subfloor Using Anhydrous Calcium Chloride". According to the ASTM the moisture emissions from the concrete floor shall not exceed 5 lbs/1000 sq ft/ 24 hours.

Another quantitative moisture test method is the In-Situ Relative Humidity test. This test measures the relative humidity level within the concrete slab. This test must be performed in accordance with ASTM F 2170-02. The relative humidity of the slab must not exceed 75%.

DO NOT INSTALL ANY MANNINGTON HARDWOOD FLOOR UNTIL THE ABOVE PARAMETERS ARE MET.

wood subfloors
All wood subfloors must be structurally sound, dry, at least 3⁄4" in thickness, solidly fastened to appropriately spaced floor joists, and in compliance with all local building codes. First, make sure subfloor is dry. Subfloor wood moisture content cannot exceed 14% prior to installation, for bamboo it can not exceed 10%. To determine wood moisture content use a quality moisture meter. Next, determine if subfloor is structurally sound; both floor joist spacing and subfloor panel selection must be considered. Use the following requirements as a guide:

- Planks may be installed (stapled, nailed, glued, or floated) to a single layer of 3⁄4" thick, tongue-and-groove plywood or 3⁄4" structural grade oriented strand board (OSB) substrate over appropriately spaced floor joists.
- If the subfloor is plywood or OSB less than 3⁄4" thick, add a second cross layer for strength and stability (minimum 5⁄16" thick to total 1" in thickness). To reduce the possibility of squeaking, install the underlayment per the manufacturer's guidelines.
- 19.2" and 24" on center joist spacing may be acceptable if the subfloor system is designed in accordance with local building codes and is free of deflect on.

CAUTION: Wood substrates directly fastened to concrete are not satisfactory for the installation of wood floor coverings. This non ventilated construction practice will result in deterioration of the wood substrate system and may cause problems such as underlayment joint telegraphing. Mannington will accept no claims regarding performance of our wood products installed over this subfloor construction.

NOTE: Do not staple or nail down Mannington engineered wood flooring over particleboard subfloors.

concrete subfloors

All concrete subfloor systems must meet or exceed local building code specifications.
For concrete slabs that are on- or below-grade it is recommended that they are constructed so that ground water vapor cannot penetrate. Suspended, above-grade concrete subfloors often require extended drying time to lose initial moisture.. Curing and drying time will vary depending on the type of concrete mix and the environment in which it is placed. New concrete slabs require a minimum of 6 weeks' drying time before covering them with a wood floor. You may install Mannington engineered hardwood floors over concrete subfloors when you are using Mannington UltraSpread Mastic (glue-down method) or Mannington MegaGlue™ adhesive (floating method) if the subfloor and installation meet all criteria contained within this document.

structural requirements

The structural integrity of the jobsite is critical for a satisfactory wood installation. The type and method of construction, grade level, and flooring system components all impact the installation of wood flooring products. Many times local building codes establish only minimum requirements for flooring systems. These minimum requirements may not provide sufficient rigidity for successful installation and continued performance of wood flooring products. Subfloor must be clean. Remove all oil, dirt, grease, wax, sealers, paint, adhesives, or any other substance that would hinder installation.

Subfloor must be level to 1⁄4" per 10´ span. To check, just stretch a 10´ string or lay a 10´ straightedge over subfloor. If the subfloor dips or crowns 1⁄4" or more in the span, it must be leveled. Use a latex underlayment material such as Mannington MVP 2023 to level low areas in the subfloor. If the floor has a crown or rise, level it by sanding or grinding to meet 1⁄4" specifications.

blend cartons

There are additional concerns an installer must take into consideration for each different type of subfloor (wood, concrete, lightweight concrete, etc.) other than the requirements stated above.. You may find existing subfloors that do not meet industry standards, in that case, do not precede until repair or replacement of the subfloor is completed so your hardwood floor installation will be successful.

To provide for a uniform appearance throughout the entire installation, open sufficient cartons to blend planks for both shade and length variations. Plank length can vary from 12" to 42". Make sure your work area is well-lit. Good visibility ensures that color is consistent and that visually defective planks are detected and removed. Please keep in mind; it is always a good idea to retain a few planks in case a repair is ever required.

staple-down installation

REQUIREMENTS AND PROCEDURES
This fast and easy method uses our own Mannington Spotnails Floor Monster
Pneumatic Stapler and exclusive Mannington Spotnails nylon-coated precision staples. The staple-down technique is compatible for all Mannington Hardwood products (except Bamboo and Tradewinds Collections) for use over plywood and structural OSB. The steps outlined in this section are also suitable for the nail-down method provided that a specifically designed tongue-and-groove engineered flooring nailer is used. The Mannington Spotnails Floor Monster Pneumatic Stapler comes complete with two adapters, Allen wrenches, and oil. For a successful installation you will need the tools listed below.

SPECIAL TOOLS
- Mannington Spotnails Floor Monster Pneumatic Stapler SKU# FS4825W2
- 1⁄2", 9⁄16", and 3⁄8" Stapler Attachment (included with stapler)
- Mannington Spotnails Nylon-Coated Staples SKU# 4811PN-30M (5,000/box)
- Safety Glasses
- Compressor (with regulator)
- Tapping Block SKU# TPBK009X
- Power Drill

SETUP AND USE OF MANNINGTON SPOTNAILS FLOOR MONSTER PNEUMATIC STAPLER
Inspect Equipment Prior To Use
- Become familiar with the tools and their operation, especially the pneumatic stapler. When used improperly, staples can damage wood flooring. Test the tools on scrap material first.
- Parts that engage the planks must have no sharp burrs that can scratch or damage the flooring, especially pre-finished surfaces.

- Make sure the tool's adapter seats properly in the tongue-and-groove of the flooring.
- Use the retaining feet of the adapter to make adjustments so that the plank is held securely against the subfloor.

CAUTION: Make certain the adapter size for the Mannington Spotnails Floor Monster Pneumatic Stapler correlates directly with the size of the product being installed. For instance, if you are installing 1⁄2" thick wood flooring, use the 1⁄2"–9⁄16" adapter.

CAUTION: Only use Mannington Spotnails 4811PN nylon-coated staples during staple-down installation with the Mannington Spotnails Floor Monster Stapler.

FLOOR MONSTER SETUP
- Loosen screws on retaining feet.
- Using a scrap piece of flooring, test tool on subfloor and engage the adapter into tongue-and-groove.
- Slide retaining feet down until they make contact with plank.
- Tighten screws.
- Calibrate the compressor so staples are properly set in the nail pocket to avoid damaging the floor or squeaking.

NOTE: If stapler is improperly set up, staples will not position correctly and may cause squeaking, crackling, and dimpling of the floor.

COMPRESSOR SETUP
- With the correct adapter fastened, attach tool to compressor.
- Set the regulator at 80 psi and start the compressor.

NOTE: Pressure must never exceed 100 psi, since it can damage the stapler or cause harm to you or others.

- On a scrap piece of flooring, set stapler flush on the substrate and fully engage the stapler into the tongue-and-groove joint. Pull the trigger and examine staple placement
- When the top of the staple's crown is flush with the nail pocket, the tool is properly positioned.
- Should the staple penetrate too deeply or not deeply enough, reduce or increase the pressure until the staple is flush.

JOB PREPARATION AND INSTALLATION
Before installation, do a calculation to determine the width of the last row of planks. If it is less than 11⁄2" wide, split the difference between the starter row and the last row. In any case, you will most likely be required to cut the last row of planks to width with a table saw equipped with a plywood cutting blade. For the staple-down and nail-down methods, cover the subfloor with red rosin paper or any other suitable lining material. This will help keep dust away from the wood floor, retard moisture from below, and may help prevent squeaks from occurring. There is no complete moisture barrier system, however, for nail-down and staple-down applications. Maximum wood or panel subfloor moisture should never exceed 14%.

Snap a chalk line from these points, parallel to that wall and perpendicular to the adjacent walls. Since most walls are not straight, the edge of some planks may have to be trimmed along the wall or cut to fit. Although engineered wood flooring is generally more dimensionally stable than solid wood flooring, the safe approach for a good commercial installation is to leave a 5/16" expansion space around the perimeter. Select a starter wall. An outside wall is best because it's most likely to be straight and square with the room. Measure out from this wall, at each end, the width of the plank plus 1⁄4".

"Racking" the Floor
This process is essential to achieve a random appearance. Start by either using random length planks found in the carton or by cutting four to five planks in random lengths, differing by at least 6". When starting these first few rows or courses, make certain to always measure from the tongue end of the plank for cutting. As you continue working across the floor be sure to maintain the 6" minimum between end joints on all adjacent rows. Randomly install different lengths to avoid a patterned appearance. Never waste materials; the ends cut from starter rows should be used at the opposite side of the room to complete rows or may also be used to start the next row.

NOTE: As stated earlier, it is extremely important to blend planks from several cartons to ensure a good balance of color and graining, and plank.

INSTALLATION PROCEDURE
Install the first row of planks by laying the tongue edges on the chalk line. Proper alignment is critical. Misaligned starter rows can ruin the entire installation. Secure each plank to subfloor using a pneumatic brad tacker or with finishing nails (Drill pilot holes through the face of (in dark grain) if using finishing nails).
NOTE: Proper alignment of planks is critical. Misaligned starter rows can ruin the entire installation.

After the first row is complete, adjacent rows should also be pre drilled in the nail pocket and secured with finishing nails set at 45°. Rows of flooring will need to be installed in this manner until flooring planks are a sufficient distance away from the wall to accommodate the stapler. Stapling schedule is every 6" to 8" on center.

NOTE: Avoid clustering end joints and stagger random lengths so that the end joints are no closer than 6".

The precise engineering of our UltraFit™ tongue-and-groove system delivers a very stable
floor. But you MUST make a good connection. Use a tapping block to tap the planks until the tongue-and-groove "snaps" into place.

CAUTION: Never use a rubber mallet to tap planks, since this can mar or damage the flooring.
Using the Mannington Spotnails Floor Monster stapler, with the proper adapter attached (see stapler instructions for proper setup), continue to staple new planks every 6" to 8" on center, fastening the ends of the planks approximately 2" from each end.

Using a pry bar, position the final filler planks. Face nail or tack each final plank into place with the pneumatic stapler. Install the molding and retain a few leftover planks in case a repair is ever required.

Do not use manual nailers on any Mannington Hardwood Floors maple flooring or on any Tradewinds Collection. Bamboo flooring should not be stapled.

Sweep floor to remove all dust and dirt. Take care not to scratch the finish.

FINAL INSPECTION
After the floor is cleaned, inspect the floor for nicks, scratches, or any other imperfections that need attention. Touch up nicks and scratches with Mannington Hardwood Floors touch-up products. The newly installed floor can accept foot traffic immediately.

FLOOR PROTECTION DURING CONSTRUCTION
Always protect the surface of installed flooring during construction by laying a quality felt paper over the floor and taping it to the baseboards. Never use plastic or polyethylene sheeting to cover the floor since they will trap moisture. The covering material must allow the floor to breathe.

glue-down installation

Requirements & Procedures
The Mannington glue-down system makes installation smooth and easy. Wood planks are glued to the subfloor using Mannington UltraSpread Mastic™ adhesive and a minimum 3⁄16" x 5⁄32" V-Notched trowel. This moisture-cured polyurethane adhesive forms a tenacious bond. The adhesive is VOC compliant, nonflammable, contains 0% water, and has a very mild odor. You may install Mannington engineered hardwood floors over concrete subfloors when you are using Mannington UltraSpread Mastic if the subfloor is visually dry and has no history of moisture problems.

NOTE: Do not install Mannington Hardwood Floors over perimeter-installed resilient flooring.

SPECIAL TOOLS
- Mannington UltraSpread Mastic
- Mannington PROTVNX Trowel 3⁄16" x 5⁄32" V-Notched (minimum)
- Non-marring blue painters tape
- Tapping Block SKU# TPBK009X
- 100-lb Roller

JOB PREPARATION AND INSTALLATION
Before installation, do a calculation to determine the width of the last row of planks. If it is less than 1-1⁄2" wide, split the difference between the starter row and the last row. In any case, you will most likely be required to cut the last row of planks to width with a table saw equipped with a plywood cutting blade.

"Racking" the Floor
This process is essential to achieve a random appearance. Start by either using random length planks found in the carton or by cutting four to five planks in random lengths, differing by at least 6". When starting these first few rows or courses, make certain to always measure from the tongue end of the plank when cutting. As you continue working across the floor be sure to maintain the 6" minimum between end joints on all adjacent rows. Randomly install different lengths to avoid a patterned appearance. Never waste materials; the ends cut from starter rows should be used at the opposite side of the room to complete rows or used to start the next row.

NOTE: As stated earlier, it is extremely important to blend planks from several cartons to ensure a good balance of color, graining, and plank length.

INSTALLATION PROCEDURE
Select a starter wall. An outside wall is best because it's more likely to be straight and square with the room. Measure out from this wall, at each end, the width of two planks.

Snap a chalk line from these points, parallel to that wall and perpendicular to the adjacent walls. Since most walls are not straight, the edge of some planks may have to be trimmed along the wall or cut to fit. Although engineered wood flooring is generally more dimensionally stable than solid wood flooring, the safe approach for a good commercial installation is to leave a 5/16" expansion space around perimeter.

Install the first row of starter planks and secure into position with the tongue facing the starter wall. Proper alignment is critical, misaligned starter rows can ruin the entire installation. It may be helpful to firmly secure a straight edge along the chalk line as a guide; this also helps to prevent planks from shifting in the wet adhesive. Or else, top nail the first row with finishing nails (wood subfloor) or sprig/pin nails (concrete subfloor).

Spread Mannington UltraSpread Mastic from the chalk line out to the width of two planks with a minimum 3⁄16" x 5⁄32" V-Notched trowel. You may start laying planks immediately into wet adhesive; however, for optimum performance Mannington recommends allowing the adhesive to set for 30 minutes.

The precise engineering of our UltraFit™ tongue-and-groove system creates a very stable floor. But you MUST make a good connection. Use a tapping block to tap the planks together until the tongue-and-groove "snaps" into place.

When the first two starter rows are secure, spread 21⁄2 to 3´ of adhesive across the length of the room. (Never spread more adhesive than can be covered in approximately 3 hours). If the adhesive has set and will not transfer to the back of the plank, scrape up the adhesive and apply fresh UltraSpread Mastic adhesive.

Place planks into position on top of adhesive and tap into place with a tapping block. Avoid clustering the end joints. Stagger random lengths so that end joints are no closer than 6". After several rows of planks are down, secure the rows using non-marring, releasable blue painters tape. Do not allow the tape to remain on the planks longer than required. Repeat this process as the installation progresses.

Note: When using releasable blue painters tape it must never be left on the flooring planks for more than a few hours. Additionally, this type of tape is affected by heat and sunlight and will lose its "releasable" property. Always use "fresh "tape when securing wood planks.

When you have finished installing planks across the work area, and if you used a starter straightedge, go back to the beginning of the installation and remove straightedges. Spread adhesive onto exposed subfloor and use a pry bar to position the final two rows into place. Be aware that you will have to remove the tongue from the last row to complete the installation.

Thoroughly roll the flooring in both directions using a clean, three-section 100-lb floor roller. Clean any residual adhesive off of the installed planks using a urethane adhesive cleaner such mineral spirits.

FINAL INSPECTION
After the floor is rolled and cleaned, inspect the floor for nicks, scratches, and planks that may have moved during installation, as well as any other imperfections that need attention. Touch up nicks and scratches with Mannington Hardwood Floors touch-up products. In typical climates, the new floor can accept foot traffic within 12 hours and heavier furniture or fixtures within 24 hours. Arid (dry) climates may require more curing time. Retain a few leftover planks in case a repair is ever required.

FLOOR PROTECTION DURING CONSTRUCTION
Always protect the surface of installed flooring during construction by laying a quality felt paper over the floor and taping it to the baseboards. Never use plastic or polyethylene sheeting to cover the floor since they trap moisture. The covering material must allow the floor to breathe.

floating installation

REQUIREMENTS AND PROCEDURES
Mannington 9⁄16", 1⁄2", and 3⁄8" thick engineered wood plank flooring 3" and wider may be installed using the floating method over numerous subfloors, including concrete, gypsum subfloors, plywood, composition board, ceramic tile, vinyl tile, sheet vinyl, and radiant-heated floors. The floating method tends to be one of the easiest methods of install engineered wood floors and is the only technique that is appropriate for many substrates that are not suitable for other installation methods.

NOTE: While the floating method offers some advantages, there are some things of which you should be aware:
(1) The floor may have a hollow sound when walking on it.
(2) The wood rests on the subfloor with its own weight, which may cause the floor to have slight vertical movement.

SPECIAL TOOLS
- Appropriate Mannington Underlayment (see below for details)
- Mannington MegaGlue™ Adhesive (SKU #600021)
- Glue Scraper
- Spacing Wedges
- Safety Glasses
- Tapping Block (SKU #TPBK009X)
- Pry Bar
- Non-marring blue painters tape

MANNINGTON UNDERLAYMENTS
AquaBarrier II™
AquaBarrier II is an underlayment sheeting that combines a foam cushion layer and a moisture barrier film all in one sheet. The underlayment also has a built-in edge sealing system for attaching the sheets together.. AquaBarrier II is to be used for below-grade or on-grade subfloors where moisture is a concern.
AquaBarrier II–Jumbo Roll (Item #600001)
1 roll of underlayment (300 sq ft)

ComfortBarrier™
ComfortBarrier is an underlayment foam cushion to be used for above grade subfloors ONLY where subfloor moisture is not a concern. ComfortBarrier (Item #600002)

Mannington® Hush Underlayment
Mannington Hush Underlayment stops footsteps in their tracks. When installed properly, this new underlayment system "deadens" the sounds made on a Mannington Hardwood Floor.

INSTALLATION OF AQUABARRIER II UNDERLAYMENT
AquaBarrier II Underlayment eliminates the need for a separate moisture barrier film and underlayment cushion. Install one sheet of AquaBarrier II Underlayment net along the starting wall. Unroll only one sheet at a time during plank installation to prevent damaging the underlayment. If any part of the AquaBarrier II Underlayment is punctured
or damaged during installation, seal the area with duct tape.

You will need one (1) roll of AquaBarrier II for every four (4) cartons of wood flooring installed. The amount of MegaGlue Adhesive required depends on the plank width being installed. Please see MegaGlue Adhesive Requirements chart on page 16.3 for further details. Install AquaBarrier II by laying it out, poly side facing up. Seal all seams using the built-in edge sealing tape system. Tape any relief cuts or butt seams with duct tape.

INSTALLATION OF COMFORTBARRIER OR MANNINGTON HUSH UNDERLAYMENT
If the installation area is above ground and protection against moisture is not a concern, you may install ComfortBarrier or Hush Underlayment. Please note, the directions outlined below explain the installation and use of AquaBarrier II Underlayment. Please follow these general guidelines. However, when the installation requires more than one sheet of ComfortBarrier or Hush, simply butt each end together and seal with duct tape.

"Racking" the Floor
This process is essential to achieve a random appearance. Start by either using random length planks found in the carton or by cutting four to five planks in random lengths, differing by at least 6". When starting these first few rows or courses, make certain to always measure from the tongue end of the plank when cutting. As you continue working across the floor be sure to maintain the 6" minimum between end joints on all adjacent rows. Randomly install different lengths to avoid a patterned appearance. Never waste materials; the ends cut from starter rows should be used at the opposite side of the room to complete rows or used to start the next row.
NOTE: As stated earlier, it is extremely important to blend planks from several cartons to ensure a good balance of color, graining, and plank length.

FLOATING INSTALLATION
In a floating floor installation, the flooring is NOT nailed or glued to the underlayment,
but is glued in the plank's groove only. Apply Mannington MegaGlue adhesive to the bottom of groove along the entire length and on the end of each plank. Do not completely fill the groove with adhesive.

JOB PREPARATION
Undercut all door casings 1/16" higher than the thickness of the flooring and underlayment to be installed. Place a scrap piece of plank and a sheet of underlayment against the door casing act as a guide and cut the door casing with a hand saw or power jamb saw set to the correct height.

After deciding the direction in which the planks will run, measure the width of the room (the dimension perpendicular to the direction of the flooring). The last row of flooring should be no less than 1-1/2" wide. If it is less, we recommend cutting the starter row narrower. This will require extra cutting but it will make the rest of the installation easier and faster.

INSTALLATION METHOD
Cut the Mannington MegaGlue adhesive applicator nozzle at a 45° angle with a utility knife. Do not cut off any part of the cap locking ring around the nozzle

The installation sequence is critical and provides stability to the first two rows. Proper alignment is critical. Misaligned starter rows can ruin the entire installation.

Before starting to glue planks, dry-lay the entire first two rows on top of the selected underlayment. Begin in the upper right corner of the work area with the groove side of the planks facing the wall. Place spacing wedges along the walls on both the ends and sides of all planks. Although engineered wood flooring is generally more dimensionally stable than solid wood flooring, the safe approach for a good commercial installation is to leave a 5/16" expansion space around perimeter. In addition, it is not recommended to anchor any fixtures or furniture directly to a floating wood floor. When anchoring any product directly to the sub floor below, be sure to leave a 3/16" - 5/16" expansion space around the anchor.

The installation sequence is critical and provides stability to the first two rows. Closely follow the next several instructions to obtain the proper gluing sequence for the first few rows of planks. To start, glue the first plank in the second row to the first plank in the starter row, and so on. Use a tapping block and a hammer to push glued planks together until no gaps are seen. Immediately wipe away any excess adhesive with a glue scraper or a clean damp cloth.

CAUTION: Never use a hammer or mallet directly on the flooring.

Glue the next plank to the plank in the previous row. Apply adhesive only to the width end of the plank. Tap the planks together carefully with a tapping block and hammer. Remember to continually remove adhesive squeezed up between the joints with a glue scraper or a clean damp cloth.

Glue the next plank in the same row to the previously glued plank from the previous row. Apply adhesive to both the length and width edges of the plank.

At the end wall use a pry bar, if needed, to pull the ends of the planks tight. Continue laying the floor on top of the selected underlayment, working right to left, laying plank after plank, row after row, tapping the planks together as you go. Be sure to continue using 5/16" spacing wedges at all walls and obstructions throughout the installation.

Once the first sheet of underlayment is covered with wood flooring, install the second sheet. After several runs of planks are down, use strips of non-marring, releasable blue painters tape to hold the planks securely. Repeat this process as the installation progresses. Remove the tape as you go. Do not allow the tape to remain on flooring planks longer than 2 hours.

Note: When using releasable blue painters tape it must never be left on the flooring planks for more than a few hours. Additionally, this type of tape is affected by heat and sunlight and will lose its "releasable" property. Always use "fresh "tape when securing wood planks.
The last row will most likely require cutting to width but it should be no less than 1-1/2" wide. To do this, lay the plank on top of, and edge-to-edge with, the plank in the next-to-the-last row. Trace the wall contour on the last plank using a scrap piece of plank and cut as required.
Install cut planks and pull into place with a pry bar. Install spacing wedges between planks and wall. Allow floor to dry for a minimum of 12 hours before removing all spacing wedges and allowing foot traffic. Sweep the floor to remove all dust and dirt, taking care not to scratch the finish.

FINAL INSPECTION
After the floor is cleaned, inspect the floor for nicks, scratches, and planks that may have moved during installation, as well as any other imperfections that need attention. Touch up nicks and scratches with Mannington Hardwood Floors touch-up products. In most climates, the floor can accept foot traffic within 12 hours and heavier furniture or fixtures within 24 hours.

Floor Protection During Construction
Always protect the surface of installed flooring during construction by laying a quality felt paper over the floor and taping it to the baseboards. Never use plastic or polyethylene sheeting to cover the floor since they trap moisture. The covering material must allow the floor to breathe.

Although Mannington Commercial engineered wood flooring is inherently tough, it can be accidentally chipped by something falling on top of it. Always inspect each plank closely before installation. If damage occurs after installation, however, the following repair procedure may be used.

NOTE: Warranty does not cover labor for repair and replacement when a floor with visual defects has been permanently installed.

repairs

To replace an entire damaged plank, begin by drilling four 1⁄2" holes in the damaged plank approximately 1⁄4" away from all four plank corners. Use extreme caution when drilling to prevent damage to adjoining planks. It is a good idea to mark your cutting path before drilling/sawing into the damaged plank.

To remove the plank you must cut it with a circular saw. Set saw to precise depth of plank. Cut diagonally from one corner hole to the opposite corner hole to create an "X" in the damaged plank. Follow directions below to remove cut planks.

To remove cut planks, loosen by prying up at saw cut with a chisel or small pry bar. Position weights on an existing plank along the seam edge of the damaged plank. This will weight the existing floor as you break the glue bond. With your hands, pry and lift the piece out of place. Wear gloves as an extra precaution to avoid injury. Use extreme caution when removing the damaged plank pieces to also prevent harm to adjoining planks.

Use a chisel and a hammer to remove any remaining damaged plank pieces.

Once the plank is thoroughly removed, clean the tongue-and-groove joints of the surrounding planks with a sharp chisel.

Vacuum all sawdust and debris away from repair area before proceeding.

Prepare the replacement plank by cutting off the plank's bottom groove along both the length and width using a power saw. Cutting this bottom flange away will help ease placement of the repair plank into the repair area. Also cut off 3" of the tongue from the repair plank. Check planks for fit.

Always use Mannington adhesive and sundry products. When employing the floating method, apply adhesive to the bottom of the groove on the repair plank. For the glue-down method, spread the appropriate amount of UltraSpread Mastic™ with the correct V-Notched trowel. Slide the repair plank into place using a tapping block, first inserting the side with 3" cut off the tongue. Wipe away any excess glue with a clean dampened cloth or with a Mannington glue scraper Weight the repair plank and avoid active foot traffic for approximately 12 hours after the repair has been completed.

moldings and trim

Finish your installation with Mannington Wood Floors' matching moldings and trim. Our prefinished moldings and trim are manufactured to match our line of finishes to enhance the final appearance of your wood floor installation.

REDUCER STRIP
This molding creates a perfect transition between floors of different heights; for example, engineered wood to resilient flooring.

STEP NOSING
Stairs often take a lot of traffic and they also serve as a decorative focal point. This protective strip along the edges will catch the brunt of foot traffic, while enhancing the overall beauty of the staircase.

BABY THRESHOLD
Baby Thresholds are used in the doorways of adjoining rooms with floors of two different heights.

T-MOLDING
T-Molding should be used to join two different floor surfaces that are approximately the same height; for example, engineered wood to ceramic tile.

WALL BASE
This molding accents the wood floor at the base of the walls. It gives any room a formal finished look, while maintaining a crisp, sharp juncture between the floor and wall. This molding can be used with or without Quarter Round.

QUARTER ROUND
The rounded profile of this molding creates a subtle blend between the floor and the wall. It can be used with or without Wall Base molding.

molding installation

Install Mannington Commercial wood moldings using traditional methods. Simply nail moldings into place with clean finishing nails. Follow the instructions below for specific installation techniques on each molding.

QUARTER ROUND & WALL BASE
Nail Quarter Round and Wall Base molding into the wall with finishing nails. Wall Base and Quarter Round can either be used separately or together, each achieving a different look and style. Do not fasten these moldings directly into the flooring. They should be kept slightly off the floor so as not to bind or jam the flooring.

Step Nosing requires a unique installation method. Glue the wood flooring and Step Nosing directly to the stair tread using Mannington UltraSpread Mastic™.

When installing T-Molding, Baby Threshold, or Reducer Strip, first drill small holes in the molding to avoid wood splits. Using the drilled holes as your guide, hammer finishing nails directly into the subfloor every 18".

FINISH MOLDINGS
Use appropriate finish moldings or terminating profiles as transitions to door thresholds, steps, or other floor coverings. T-Molding, Baby Threshold, and Reducer Strip moldings can be glued or nailed to the subfloor using finishing nails. When installing Quarter Round and Wall Base it is important to miter all corners as well as junctures. Drill small holes for nailing in the molding to avoid wood splits and nail into the wall every 18".

section IV – slip-retardant sheet, homogeneous inlaid, inlaid and heterogeneous light

homogenous inlaid: biospec / lifelines II / relay
inlaid: fine fields / magna
heterogeneous light commercial: customspec II / insight
slip-retardant sheet: mannington assurance II

roll widths

The differences in product construction impact the installation procedures, especially in the area of seam cutting and seam sealing.

PRODUCT	CONSTRUCTION	ROLL WIDTH
Fine Fields, Magna	Inlaid	6' wide rolls only
BioSpec, LifeLines II, Relay	Homogeneous Inlaid	6' wide rolls only
CustomSpec II, Insight	Heterogeneous Light	12' wide rolls only
Mannington Assurance II	Slip-Retardant Sheet	6' wide rolls only

Because Mannington Commercial Resilient Sheet Flooring products are intended for use in high-traffic areas, underfloor selection and preparation are especially important. In most cases, remove all existing floor coverings before installing these commercial products. (You must strictly follow all federal, state, and local regulations regarding the removal of existing flooring.) Furthermore, all concrete under floors must be tested for moisture before starting the installation. Mannington requires that the anhydrous calcium chloride test be performed in accordance with standard test method ASTM-F1869. Alternate test is ASTM-F2170 with a relative humidity level of 75% maximum. **NOTE:** Please be aware that installing these products over existing flooring may reduce their excellent indentation resistance.

handling procedures

It is imperative to maintain the material, adhesive, and job site at a minimum temperature of 65°F and a maximum temperature of 90°F for 48 hours before, during, and after the installation. If the material has been stored at colder temperatures, it will need to be unrolled and allowed to relax overnight before proceeding with the installation. **When using V-95 adhesive, make sure to maintain the adhesive, floor covering, and job site at a minimum temperature of 65°F for a minimum of 48 hours before, during, and after the installation.**

NOTE: If the flooring contractor elects to install new floor covering over an existing floor covering, the flooring contractor assumes all responsibility as to the suitability and continued performance of the existing floor covering. If removal of existing resilient floor covering is required, follow all recommended Resilient Covering Flooring Institute (RFCI) work practices at www.rfci.com.

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic "cutback" adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Resilient Floor Coverings" should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures. For more information visit the Resilient Floor Covering Institute at www.rfci.com.

patching & leveling compounds

We recommend the use of latex / Portland cement trowelable underlayments or self-leveling cementitious products for repairing or leveling concrete subfloors. Sand and fill approved underlayment panel joints using a latex / Portland cement compound. The properties and handling characteristics of Mannington MVP 2023 Fast Patch make it an ideal compound for use under Mannington Commercial resilient sheet flooring products. **Do not use gypsum or mineral-based patching compounds in commercial applications under any circumstances.**

cutting & fitting

Mannington Commercial inlaid products are flexible and will handle easily when cutting and fitting. This product characteristic enables the installer to fit the material using freehand knifing techniques.

- If the job site is complex and requires a precise fit, use pattern-scribing techniques.
- The material may also be fit using direct scribing techniques. (Refer to Mannington's Professional Installation Guide for pattern scribing and direct scribing.)
- Once the material has been fit, it is necessary to tube or lap back half of the sheet to expose the underfloor for adhesive application.
- Take care when folding the material back. Always fold the material in a wide radius to avoid sharp kinks and creases, which may cause breaks in the product.

applying adhesive

- Fully adhere Mannington Commercial resilient sheet flooring to an approved underfloor.
- After you have trimmed the material to fit the room, tube or lap it back to expose the underfloor. Apply adhesive with the following recommended notched trowels.
- Spread adhesive over 100% of the exposed subfloor, leaving no gaps or puddles.
- Maintain uniform coverage by keeping the trowel clean and properly notched.
- In most cases it is advisable to give the adhesive sufficient open time. Open time allows the moisture to flash off the adhesive, permitting the adhesive to develop more body and immediate tack. Open time is always determined by subfloor porosity and atmospheric conditions. Be certain to provide ample open time on non-porous subfloors and at seam lines.

TYPE OF UNDERFLOOR AND ADHESIVE	TROWEL NOTCH
Porous substrates with V-81	1/16" wide, 1/16" deep, and 1/16" apart
Non-porous substrates with V-81	1/16" wide, 1/32" deep, and 1/32" apart
Porous substrates with V-82	1/16" wide, 1/32" deep, and 1/32" apart
Porous substrates with V-95	1/16" wide, 1/32" deep, and 1/32" apart
Non-porous substrates with V-95	1/16" wide, 1/32" deep, and 1/32" apart

- After the adhesive has begun to tack-up, roll the sheet forward into the adhesive to avoid trapping air. Do not drop or flop the material into the adhesive. Roll the floor covering with a three-section, 100 lb (or heavier) floor roller in both directions.
- After the first half of the sheet has been adhered and rolled, fold back the second half and repeat the procedure.

CAUTIONS:

- **When providing open time, do not permit the adhesive to "skin over" or dry. Too much open time will result in insufficient bonding.**
- **BioSpec, Relay and LifeLines II should be installed using V-82 adhesive over porous substrates. Use V-95 adhesive over non-porous substrates.**
- **Mannington V-95 adhesive has low initial tack. It may be necessary to apply weights to the floor covering, especially in the seam area, until the adhesive sets. When using V-95 adhesive, roll the adhered flooring with a 100 lb (or heavier) roller within one hour after the flooring is installed.**
- **Wait one to two hours and re-roll the flooring again to ensure full contact has been achieved. Re-rolling the material will also help remove any trapped air bubbles.**

seam cutting and seam sealing

PRODUCTS	METHOD TO USE
CustomSpec II and Insight	Traditional Double-cutting method
Magna, Fine Fields, BioSpec, Relay, LifeLines II and Mannington Assurance II	Recess Scribing method

double-cutting seams

customspec II and insight

1. If required to seam CustomSpec II or Insight, provide additional length on the second and succeeding sheets to allow for proper pattern alignment.
2. Position CustomSpec II and Insight floors using the "Reverse" or "Do not Reverse" method.
3. To minimize pattern run-out, the floor covering should always be laid out minimizing the length of the seams.
4. Cut material to the appropriate sizes the day before the actual installation.
5. Store the material at recommended temperatures.
6. Roll these cuts tightly, face-out around a core, maintaining as equal a diameter as possible.
7. Cut and install the pieces in sequential order. If the job requires more than one roll of floor covering, make sure all rolls are marked with the same shade letter and that the roll serial numbers are in consecutive order.
8. After aligning the pattern and providing adequate overlap, adhere the sheets of material up to the predestinated dry zone.
9. Cut the seam using a utility knife with a new, sharp blade. Using a steel straightedge, cut through both sheets of flooring at a 90° angle to the floor covering.
10. Once you have cut the seam, remove the selvage and fold back the sheets to expose the dry zone.
11. Apply adhesive with a properly notched trowel across the dry zone.
12. Allow the adhesive to develop tack and lay the sheet that was on the bottom during the cutting process into the adhesive first.
13. Then place the top sheet into the adhesive; avoid scraping adhesive into the cut. Roll the area with the three-section floor roller.
14. Bring seam edges level with the use of a hand seam roller.
15. Thoroughly clean the seam area and wipe dry. For a more detailed and photographed description, see Mannington's Professional Installation Guide.

sealing seams

customspec II and insight

Seal all CustomSpec II and Insight seams using Mannington Commercial MCS 42 Seam Sealer.

- Apply the sealer using the VST-96 Professional Applicator Kit.
- Fill the applicator bottle at least two thirds full with the seam-sealing liquid and allow all entrapped air bubbles to disperse prior to sealing the seam.
- Follow the seam sealing directions in Mannington's Professional Installation Guide, but do not wipe the sealer from the surface of CustomSpec II and Insight .
- Allow the seam sealer to thoroughly dry (minimum two hours) before traffic is allowed on the floor.
- Do not allow dirt or dust to contaminate the wet sealer. Avoid walking on the seam or moving heavy furniture over it for another 24 hours.
- It is crucial to apply the seam sealer between the full thickness of the floor covering from top to bottom.
- To ensure a strong, tight seam make sure there are no skips or skids along the cut. A properly sealed seam will provide a continuous, impervious surface and will remain intact for the life of the flooring.

recess scribing seams for inlaid construction

mannington assurance II, biospec, relay, fine fields, magna and lifelines II

- When seaming is required with Magna, LifeLines II, Fine Fields, Relay, BioSpec, and Mannington Assurance II, position the materials as "Reverse Sheets." This requires positioning the arrow-marked side of the sheet alongside another arrow-marked side. Only felt-backed commercial products have arrow-marked sides.
- Cut the selvage edge of one sheet using a straightedge and a utility knife or edge trimmer. Trim off about 3/8" from the edge. Trimming is necessary since 6' rolls are typically stored on-end causing compression on one edge. Or the rolls might even be damaged during transport.
- Position the sheets in such a manner that the top sheet will overlap the previously straightened sheet by approximately 1/2".
- Fold back the sheets to expose the underfloor and apply the appropriate adhesive. Place the trimmed sheet into the adhesive while providing sufficient overlap of the second sheet; then lay in the second sheet.
- Roll the adhered areas to within 6" of the seam line with a 100 lb three-section floor roller.
- Adjust the recess scriber before actually cutting the seam by cutting a slit in a scrap piece of resilient flooring material. Insert the button on one edge of the slit. The needle should just touch the opposite side of the slit. Make sure to set the scriber to produce a net fit, neither gapped nor too full.
- Using a recess-scribing tool, insert the scriber against the straightedge piece of resilient. Use the bottom end of the tool, the guide, to follow the bottom sheet and lightly score the top sheet with the needle of the scribing tool. Keep the scribing tool perpendicular to the seam when scribing.
- Cut the seam net with a utility knife (straight or hook blade). Cut the seam by following the scribed mark. A burr may be created on the seam in the needle of the scriber is set too deep or too much pressure is applied. Remove any burrs by placing the seam with the back of a hook knife.
  CAUTION: If the scriber is pulled too tightly against the bottom sheet, the seam will be too full to have the potential to peak.
- After scribing and cutting the seam, roll the seam area with a hand seam roller to bring the seam edges level. Re-roll the entire adhered area with the 100 lb floor roller. Thoroughly clean the seam area and wipe dry.

recommended seaming methods—chemical or heat welded seams

PRODUCT	CHEMICALLY WELDED	HEAT WELDED
mannington assurance II biospec lifelines II relay	Recommended	Recommended—preferred method
fine fields magna	Recommended	Recommended—preferred method
customspec II insight	Recommended	Not Recommended

chemical seam sealing

mannington assurance II

- To utilize a chemical seam sealing method for Mannington Assurance II, the flooring must be installed full spread using appropriate adhesive. Using V-95 centered at the seam location in a 4-6" wide band.
- After installing the flooring, apply a narrow bead of MLG-33 seam sealer using the applicator with the fin up.
- **Do not insert the fin into the seam.**
- Be sure that the sealer is in contact with both sides of the flooring.
- Leave this bead of sealer on top of the flooring.
- **Do not wipe the seam.**
- **Allow 24 hours for the sealer to set up before allowing foot traffic or moving furniture / appliances across seamed area.**

chemical seam sealing

magna, fine fields, biospec, relay and lifelines II

- **Thoroughly clean the seam of all adhesives, dirt, etc, before sealing it.**
- **If the seams are to be chemically welded, use Mannington Commercial MCS 42 Seam Sealer.**
- **When inserting the applicator tip into the seam cut, it is crucial that the seam sealer be applied to the full depth of the cut.**
- Wipe off all sealer from the surface of the seam with a clean white cloth dampened with mineral spirits.
- Because the seam sealer should not be allowed to remain on the surface of the flooring more than 30 or 40 seconds, it is recommended 5 or 6 lineal feet of seam be sealed and then wiped clean. Be certain to overlap each application of seam sealer.

heat welding

Heat welding is the act of fusing resilient sheets together with a heated thermal vinyl weld rod. This technique is suitable for installing the following Mannington Commercial resilient sheet flooring products: Fine Fields, LifeLines II, BioSpec, Relay, Magna, and Mannington Assurance II. **Never use heat welding on Mannington resilient products, CustomSpec II or Insight.**
NOTE: Heat welding is the preferred method of sealing seams for homogeneous products.

weld rods

Mannington's weld rod is available on spools and is designed to fit the most popular heat welding guns. Mannington offers a broad range of solid rod colors to coordinate with all of our heat-weldable flooring. Camouflage weld rods are offered for Fine Fields and BioSpec.

heat welding recommendations

- To achieve good sealing results, knowledge of proper heat welding procedures is important. Follow the steps outlined in this chapter.
- A repeated stop / start method will produce rough uneven seams, creating an unpleasant appearance.
- Temperature setting is critical to the success of any heat welding application. If the welding gun is set too hot or applied too slowly, the flooring is likely to burn, char, or craze the surface next to the weld rod. If welding gun is not hot enough or applied too quickly, the weld may have poor fusion. Follow all Mannington temperature requirements to achieve an even seam with good bond strength and integrity.
- Prior to heat welding, allow the flooring adhesive to completely dry. Preheat welding gun and determine proper temperature setting and router depth by practicing on scrap pieces of flooring. Make certain the speed nozzle is clean and free of obstructions.
- After waiting 24 hours for the adhesive to dry, use a power-grooving machine to cut a groove the entire length of the seam. Adjust the machine so the depth of the groove is about two thirds of the product's thickness. Stop machine grooving several inches away from the wall.
- Extend the groove to the wall using a hand-grooving tool.
- Insert welding rod into the speed nozzle allowing approximately 3" to extend out. Arrange welding rod in such a manner that it will not interfere with the application. Be careful when inserting the welding rod because the nozzle is extremely hot.
- Pull the gun along the length of the seam toward your body while maintaining a downward pressure. Keep the gun perpendicular to the floor. Weld the seam at a constant, even speed.
- Stop and change direction of the weld when you are near the back wall. Pull the gun out of the groove and cut the weld rod.
- Remove the urethane coating before heat welding inside corner by grooving or sanding. Performed metal corner caps may also be used.
- Allow welded rod to cool, and then groove the installed rod with a hand-grooving tool. Grooving the rod makes it possible to achieve complete seam coverage when you start seaming from the opposite direction to finish the job.
- Reposition yourself and your tools at the back wall and continue welding into the grooved rod you just made so there are no missed spots in the seam. It is important to achieve a smooth, continuous coverage of the rod into the seam.
- After the welded rod shrinks and cools for approximately 30 minutes, trim down the excess by using the following two steps: Remove approximately two thirds of the exposed welded rod. Use a spatula trim knife and trim plate to trim off the top layer. There should be about 1/32" excess weld rod projected above the surface of the resilient.
- **CAUTION:** When trimming weld rods on Mannington Assurance II, do not allow weld rod to cool.
- The second step is to trim the welded rod level until it is flush with the surface of the resilient sheet. Use an extremely sharp spatula knife without the trim place at a 5° to 10° angle to the floor surface. Keep the sharpened side down against the welded rod. Be careful not to cut or dig into the resilient surface. Inspect the finished seam carefully and remove any missed high spots with a spatula knife. If there are low spots, the seam weld may require a rod reapplication.
- Once the entire area has been trimmed and inspected, smooth out seam with one of the two recommended methods. When using camouflage weld rods, both steps are required.

1. Glaze Curing the Seam: Apply heat from the welding tool by removing speed nozzle and using the same heat setting to direct a flow of heat from the gun along the length of the seam.
2. Seam Sealing the Seam: To smooth out the seam, apply MCS 42 seam sealer to the welded seam and leave it on no longer than 30 to 40 seconds. Wipe all sealer from the surface of the seam with a clean white cloth dampened with mineral spirits. Do not wipe the seams of camouflage weld rods. Allow the sealer to be absorbed into the rod.
   Both of these two last steps reduce porosity of the trimmed rod and glaze the surface of the welded rod to produce a smooth, continuous appearance.

finishing & maintenance

- Protect all exposed edges of floor covering with trim or restrictive moldings.
- Remove all scraps and trash from the jobsite.
- Remove all adhesive smears or residue from the surface of the floor covering with a clean cloth dampened with mineral spirits.
- After 24 hours of the completed installation, thoroughly clean the floor.
- Mannington Commercial resilient sheet flooring should receive three to five coats of a high-quality, cross-linked, acrylic floor finish before the flooring is put in service.
  CAUTION: Do not wash the floor until 48 hours after installation. After 48 hours, you may damp mop the floor to remove any residual surface dirt.

repairs

replacing damaged areas

- If possible, the floor covering repair piece should come from the original installation. Typically, consumers retain leftover pieces from the original installation.
- Tape the repair piece over the damaged area and double-cut using a steel square as a guide.
- Remove the damaged area and scrape the subfloor clean. Apply adhesive on the back of the repair piece and insert into the flooring.
- Roll the repair piece with a hand seam roller.
- Use the appropriate Mannington seam sealer to seal all cuts.

flash coving resilient sheet products

All Mannington resilient sheet goods can be installed using the flash coving method. This edging technique, often preferred by hospitals and other health care facilities, is a process of extending the resilient flooring up the wall to create a wall base. Normally, the floor covering is extended up the wall to a height of 4" to 6". Coving is popular with end users because it eliminates the need for a floor/wall juncture and it is also easy to maintain.

As with all resilient installations, proper preparation of the work area is critical to the success of the installation. Clean the underfloor carefully and make certain it is structurally sound. The juncture of the floor and wall also needs special preparation before beginning a coved installation. Follow the instructions below to install the cove cap and the cove stick (cove fillet strip).

- Measure desired height for the cove caps at each corner and strike a chalk line.
- Attach aluminum or vinyl cove caps at this height using flathead nails with a hammer or brad pusher, or use contact cement.
- Always miter inside and outside corners in the cap. When mitering the outside corners, file the ends of the cap smooth. Use a specially designed miter tool with interchangeable die sets to make corners on the cove cap. This tool eliminates sharp edges at the outside corners.
- Cove sticks support the resilient flooring as it is flashed up the wall, eliminating the chance of puncturing the resilient flooring. Firmly secure plastic or wood cove sticks where the floor meets the wall with adhesive or nails.
- Use nonstaining nails and set the flush with the stick. The stick should have a minimum radius of 1 1/8" and be precisely mitered at all inside and outside corners.
- Provide a smooth transition in the door casings and other areas where the coving ends by cutting back to the cove stick.
- Tack the scribing felt to the wall with brad type nails before beginning to scribe it. Use a combination square, a small metal ruler, or a 1" piece of resilient to pattern scribe the felt.
- Fit the scribing tool up inside the cove cap and scribe the felt by sliding the tool along the cap as you mark the felt with a pencil.
- Scribe and cut the outside corners of the felt using a utility knife and the inside corners of the felt, using dividers.
- After scribing the entire work area, position the pattern squarely on the resilient sheet flooring and transcribe the pattern with pencil dividers. Be careful when cutting the material on the inside and outside corners.
- Dry fit the material. Inside corners should fit snug, but not be forced into position. Make sure to always position the shorter side first and then the longer side.
- Gently pull material away from the wall. Apply the appropriate adhesive to the floor, wall, cove cap, and cove stick.
- Allow the appropriate amount of open time. Fit the material back into place. Remember to always position the shorter side first.
- Roll the flooring with the appropriate size roller (use a hand roller on coved areas). Apply the appropriate seam sealer at all seams, following the recommended directions for the resilient floor being installed.
- The most demanding aspect of a coved installation is forming the outside corners. Fill outside corners with a "boot" type plug, rather than a V-type plug, on the least visible wall. The plugged corner fill piece should extend back at least several inches from the corner. The seam of the floor should be below the cove stick. Using an underscriber, scribe the back of the plug at the corner. This will mark the pattern of the corner on the plug.
- Cut along the scribed line at a 45° angle with a curved trim knife or a utility blade while holding the plug steady with a metal ruler and your other hand. When cutting, leave the face of the plug longer than the back.
- Check the fill piece for accurate fit. Make any minor adjustments to the plug as necessary to fill the space correctly. Remove the fitted fill piece and apply the appropriate adhesive. Reposition the fill piece and apply seam sealer.

NOTE: If planning to heat weld the seams, be aware that only Mannington Commercial Fine Fields, BioSpec, Relay, Mannington Assurance II, Magna, and LifeLines II products can be used. (See Heat Welding Procedure page 123)
Remove the urethane coating before heat welding each inside corner by grooving or sanding. Preformed metal corner caps may also be used.

section V – heterogeneous

realities

general information

All recommendations are based on the most recent available information. These installation specifications are for fully adhered installations of Mannington Commercial heterogeneous product, Realities.

1. Cut order pieces should be rolled face out on a core to take to the job site. Otherwise, the roll will flatten or "oval", making it difficult to get the floor covering to lay flat when unrolled.
2. The floor covering, adhesive, and room temperature must be kept at a minimum temperature of 65°F with a maximum of 90°F for at least 48 hours before and during, and 48 hours after installation.
3. All subfloor patching on and below grade must be done with a non-shrinking, water-resistant Portland cement patching compound such as Mannington MVP-2023.
4. Never install Mannington sheet goods over residual asphalt-type (cut back) adhesive. It can bleed through the new floor covering. Residual asphalt type adhesive must be removed or isolated from the finished flooring by providing a mechanical barrier, such as Mannington MVP-2023.
5. Realities should only be installed on properly prepared concrete substrates. (See concrete section below). **Do not install these products on wood panel underfloors.**
6. Realities must be fully adhered using Mannington V-82 on porous substrates. Use Mannington Commercial high performance V-95 two part polyurethane adhesives on non-porous substrates or in areas that require high performance adhesives (i.e. under hospital beds, exceptional high traffic areas).
7. All seams must be sealed by either using Mannington Commercial MCS 42 chemical seam sealer or heat welded with Mannington solid color weld rod.

subfloor information

Careful and correct preparation of the subfloor is a major part of a satisfactory sheet floor covering installation. Roughness or unevenness of the subfloor will telegraph through the new floor covering, resulting in an unsightly surface and excessive wear on high spots. Proper subfloor selection and preparation are essential for a trouble-free job.

wood subfloors

MANNINGTON COMMERCIAL HETEROGENEOUS PRODUCTS SHOULD NOT BE INSTALLED OVER WOOD PANEL SUBFLOORS.

concrete subfloors

1. Concrete subfloors must be dry, smooth, and free from dust, solvent, paint, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The surface must be hard and dense, and free from powder or flaking.
2. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured. Curing agents, surface hardeners and other additives may cause adhesive bonding failure. These should be removed by sanding or grinding.
3. All concrete slabs must be checked for moisture before installing material. Follow ASTM F-1869 recommendations for performing calcium chloride test. Alternate Test F-2170 with a relative humidity level of 75% maximum.
4. Realities must never be installed where hydrostatic pressure or excessive moisture vapor emissions may exist. Moisture emission from subfloor cannot exceed 3 lbs. per 1,000 sq. ft. per 24 hours. Mannington will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission that exceed the levels stated above.
5. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.
6. Concrete floors with a radiant heating system are satisfactory, provided the temperature of the floor does not exceed 90°F at any point.
7. Holes, grooves, and other depressions must be filled with Mannington MVP–2023 patching and leveling compound, (or equivalent) and troweled smooth and feathered even with the surrounding surface.

existing resilient floor coverings

To achieve maximum product performance, Realities should not be installed over existing resilient floor coverings. In the rare cases where removal of the existing resilient floor covering is not an option, the existing flooring must be covered with Mannington MVP-2023 or other appropriate porous underlayment.
NOTE: Consult Mannington's Commercial Installation Guide or the Recommended Work Practices brochure from the Resilient Floor Covering Institute for specific instructions on removal of old resilient floor covering. Visit www.rfci.com

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic "cutback" adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Resilient Floor Coverings" should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures. For more information, visit the Resilient Floor Covering Institute at www.rfci.com.

installation

cutting and fitting

- It is imperative that the material, adhesive and job site be maintained at a minimum temperature of 65°F or a maximum of 90°F. 48 hours before, during and 48 hours after installation.
- If the material has been stored at colder temperatures, it will be necessary to unroll the material and allow it to relax over night before proceeding with the installation.
- If the job site is complex and requires a precise fit, traditional pattern scribing techniques should be used.
- The material may also be fit using direct scribing techniques. Once the material has been fit, it will be necessary to tube or lap half of the sheet back to expose the underfloor for adhesive application.
- Care should be taken when folding the material back. Always fold the material in a wide radius to avoid sharp kinks and creases which may cause breaks in the product.

adhesive application

After the material has been trimmed to fit the room, it should be tubed or lapped back to expose the underfloor.

- On porous substrates, V-82 adhesive should be applied with a 1/16" wide, 1/32" deep spaced 1/32" apart notched trowel.
- V-95 two-component urethane adhesive must be used on all non-porous substrates and in areas demanding high performance. Follow all directions on adhesive container. V-95 has low initial tack, it may be necessary to apply weights, particularly in the seam area, until adhesive sets. V-95 should be applied with a 1/16" wide, 1/32" deep, spaced 1/32" apart notched trowel.
- The adhesive must be spread over 100% of the exposed subfloor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched.
- After the adhesive has been applied, roll the sheet forward into the adhesive to eliminate trapping air.
- Do not drop or flop the material into the adhesive.
- Roll the floor covering with a three-section 100 lb. or heavier floor roller in both directions.
- After the first half of the sheet has been adhered and rolled, fold back the second half and repeat the procedure.
- When using V-95, the flooring should be rolled with a 100 lb. floor roller within one hour after the flooring is installed.
- Wait 1–2 hours then re-roll again to insure full contact and to remove any trapped air.

CAUTION: When providing open time, do not permit the adhesive to "skin" over or dry. Too much open time will result in insufficient bonding.

seaming

Realities is available in 6', 9' and 12' widths. Choose product width to eliminate unnecessary seams and minimize waste. When seaming is required with Mannington Commercial heterogeneous sheet flooring, the materials should be positioned Reverse Sheets for seaming.

The construction of heterogeneous flooring requires that the seams be cut using the **trace cutting technique.**

- The selvage edge of one sheet should be straight-edged approximately 3/8" from the edge.
- Position the sheets in such a manner that the straight-edged top sheet will overlap the untrimmed bottom sheet and maintain the pattern match.
- Carefully trace along the edge of the top sheet with a utility knife with a sharp blade or a cutting tool designed for this purpose.
- Remove the trimmed selvage edge of the bottom sheet.
- Once the seams are cut, weigh the sheets and tube or lap back the sheets to expose the underfloor.
- Apply the appropriate Mannington adhesive using the correctly notched trowel over 100% of the exposed underfloor.
- After providing sufficient open time for the adhesive, lay the straight-edged sheet into the adhesive first and then lay in the second sheet.
- Roll the adhered areas to within about 6" of the seam line with a 100 lb. three-section floor roller.
- Roll the seam area with a hand seam roller to bring the seam edges level. Re-roll the entire adhered area with the 100 lb. floor roller.
- Thoroughly clean the seam area and wipe dry.

heat welding heterogeneous flooring

- Seams may be heat welded using coordinating solid color weld rod.
- Wait at least 24 hours after initial installation to allow the adhesive to cure before grooving Realities to receive the heat weld rod.
- Proper temperature of the heat welding tool is critical to the success of this process. Heat welding is always dependent on speed of application and temperature. Practice on a scrap piece of material to determine optimum speed and temperature.
- After the weld rod has cooled, trim the applied weld rod in two steps. Always use a trim plate with a sharp spatula trim knife for the first pass. Trim weld rod flush with the spatula knife, being careful to not gouge the vinyl surface.
- Mannington Commercial Heat Weld Rod is color coordinated for use with Realities. Contrasting colors may be used if so desired.

chemical seam sealing heterogeneous flooring

Seams in Realities may be sealed using the chemical seam sealing method.

- The seams will be sealed with MCS 42 and the VST–96 professional applicator tip.
- Before sealing the seams, make certain all seams are clean, dry and free of adhesive contamination.
- Fill the VST-96 applicator bottle at least 2/3 full of sealer. Tightly screw on the applicator tip.
- Before using, check the flow through the applicator on a scrap piece of flooring.
- Insert the fin into the seam cut and lightly squeeze the bottle to apply a uniform bead of sealer approximately 1/8" wide, centered on the seam cut. It is crucial that the seam sealer penetrates the full thickness of the seam cut to insure a proper chemical bond.
- **Do not wipe the sealer from the surface of the flooring.**

flash coving

All Mannington Commercial sheet flooring can be integrally self or flash coved at the wall line. Flash coving is the procedure in which the flooring material is continued up the wall to the height of 4 or 6 inches. This coving technique eliminates the floor-wall juncture and provides for easy maintenance.

When flash coving is required, follow these recommendations:

- Prepare the area by installing a cove fillet strip and a cove cap (either aluminum or vinyl).
- The cap should be firmly attached to the wall at the designated height. Outside corners in the cap should be notched and formed rather than mitered. This eliminates a sharp edge at the corner.
- Cove fillet strip is available in both plastic and wood. The fillet strip should have a minimum 1 1/8" radius.
- The cove stick should be precisely mitered at all inside and outside corners and firmly secured into the floor or the wall.
- Best results can be obtained by pattern or template scribing Mannington Commercial Sheet flooring when flash coving is required. Traditional pattern scribing techniques should be followed.
- Inside corners should be cut net, with no fullness or gaps. Outside corners must be filled using "boot" plugs. Preformed metal corner caps may also be used.

finishing the job

- Cover all exposed edges.
- Use wood molding or vinyl cove base along all walls, cabinet toekicks, etc.
- Use metal strips in doorways or where new flooring joins another floor covering.
- Caulk along tubs, toilet bowls, etc.
- Do not wash the floor for 48 hours after installation.
- After 48 hours, damp mop to remove residual surface dirt.
- Follow appropriate maintenance schedule for heterogeneous flooring products.

cautions and miscellaneous

A. Do not place heavy items on newly installed floor covering for at least 48 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
B. Furniture should be moved onto the newly installed floor using an appliance hand truck over hardboard runways.
C. Floor covering subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential affects on the floor covering.
D. Oil or petroleum-based products can result in surface staining. Do not track asphalt driveway sealer or automobile oil drips onto the vinyl floor covering.
E. Use non-staining walk-off mats at building entrances to remove excess dirt and grit from foot traffic—rubber can discolor vinyl floor covering.

section VI – vinyl composition tile, premium visual tile and slip retardant tile

vinyl composition tile: essentials / designer essentials
premium visual tile: inspirations / brushwork / colorpoint / solidpoint
slip retardant tile: safewalks

general instructions

Follow all General Instruction Guidelines as described on page 109. Always store Mannington Commercial products in a protected, dry interior area. Do not double-stack pallets. Keep the jobsite, adhesives, and tile at a minimum temperature of 65°F and a maximum of 95°F for at least 48 hours before installation. Maintain this minimum temperature during the installation and for 48 hours after the installation to assure proper bond of the adhesives.

If you intend to cover a concrete slab with the resilient floor covering, always test the concrete slab for the presence of moisture. The required quantitative test is the calcium chloride test ASTM-1869. Alternate test is ASTM F-2170 with a relative humidity level of 75% maximum. The maximum acceptable moisture vapor emission specification is not to exceed 5 lbs per 1000 sq ft per 24 hours for all Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile products when installed with Mannington V-11 Vinyl Composition Tile adhesive. **This only applies to Mannington Commercial Vinyl Composition Tile/Premium Visual Tile/Slip Retardant Tile installations using V-11 adhesive.** If any other adhesive is specified or selected, follow the adhesive manufacturer's warranty and recommendations regarding acceptable maximum moisture emission levels. Furthermore, this increase is only applicable to Mannington Commercial Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile and commercial felt-backed resilient sheet products and not any other Mannington resilient sheet product. The maximum acceptable moisture vapor emission level for all Mannington homogeneous resilient sheet products is 3 lbs per 1000 sq ft per 24 hours.
NOTE: Moisture testing can only indicate conditions at the time of the test and cannot predict any future changes in moisture levels. Neither Mannington nor the flooring contractor can be responsible if moisture levels change in the future.

Install Mannington Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile only after the jobsite has been cleaned and cleared of other trade apparatus that may damage the finished tile installation. The lighting on the jobsite must be sufficient to permit inspection and preparation of the underfloor, layout, installation, cleanup, and final inspection of the tile. Always check the cartons to assure the pattern number is correct and that there is a sufficient quantity of tile for the installation. Make certain the lot numbers are the same on all cartons. To minimize any minor shade variation on large installations, mix and install tiles from several different cartons. If the shade variation is extreme, do not install the tile.

NOTE: Please be aware that installing Vinyl Composition Tile/Premium Visual Tile/Slip Retardant Tile over existing flooring may reduce its excellent indentation resistance.

existing resilient floor coverings

To achieve maximum product performance, Mannington Commercial Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile should not be installed over existing resilient floor coverings. In the rare cases where removal of the existing resilient floor covering is not an option, the existing flooring must be covered with Mannington MVP-2023 or other appropriate porous underlayment.
NOTE: Consult Mannington's Professional Installation Guide or the Recommended Work Practices brochure from the Resilient Floor Covering Institute for specific instructions on removal of old resilient floor covering.

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic "cutback" adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Resilient Floor Coverings" should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures. For more information, visit the Resilient Floor Covering Institute at www.rfci.com.

tile layout

You may position Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile either square or diagonal to the room. In both cases, layout is critical. All border tile should be relatively even in width and, if possible, at least one-half of a tile wide. Additionally, if you lay the tile on the diagonal border tile color and/or graining against the wall should be consistent within the area. Refer to Mannington Professional Installation Guide for specific square and diagonal layouts.

adhesive recommendations and application

Mannington V-11 is a premium thin-spread adhesive developed specifically for Mannington Commercial Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile. V-11 is non-flammable and provides a strong moisture-resistant and strong alkali-resistant bond. You may use V-11 on all approved wood underlayments, existing resilient floor coverings, and all grade levels of concrete. You may also apply V-11 directly over cutback adhesive residual stains after all of the old adhesive has been removed.

Use of adhesives contrary to this recommendation is strictly the responsibility of the flooring contractor and/or the adhesive manufacturer.

CAUTION: Solvent-based adhesives are flammable. Refer to instructions on adhesive labels for precautions.

application

- Make sure the subfloor is clean of dirt, paint, oils, wax, etc. The subfloor must be smooth and level before starting the installation.
- Maintain the adhesive, tile, and jobsite at a minimum temperature of 65°F and a maximum temperature of 95°F for 48 hours before, during, and after installation.
- After you complete the tile layout, apply adhesive to one-half of the work area. Exercise caution to maintain the working lines. If necessary, restrike the working lines over the adhesive after it dries clear.
- Apply V-11 with a trowel notched 1/16" wide, 1/32" deep, and 1/32" apart. V-11 can also be applied using a roller or a brush.
- Apply adhesive evenly, with no bare spots or heavy puddles. Avoid overlapping edges of adhesive.
- Before installing tile, allow V-11 adhesive to develop tack and dry. This normally takes 45 to 50 minutes. Humidity and/or subfloor porosity, however, always dictate the proper open time.
- Set tiles firmly against adjoining tiles and press into adhesive. Do not slide tiles into place.
- You can remove fresh adhesive smears with a cloth dampened with water. Dried adhesive may be cleaned using mineral spirits and a clean cloth.

tile installation

After the V-11 adhesive dries, begin laying tile at the intersection of the working lines. Place the first tile squarely against the working lines. Since the positioning of this tile determines the accuracy of the entire installation, it is critical to lay the starter tile exactly on the lines.

Once you have set the first tile firmly in place, begin laying tiles outward along both guide lines. Place tiles firmly against adjoining tiles and press into adhesive. Do not slide into place. Keep tiles on the guide. Essentials, Designer Essentials and Inspirations can be installed either quarter-turned or in one direction. SolidPoint, ColorPoint, Brushwork and Safewalks are recommended to be installed in one direction.

After you have positioned several tiles along the working lines, begin stair-stepping tiles into the field area. This will keep tiles square to each other throughout the installation. Lay tiles up to where border tiles must be cut to fit. Apply adhesive to the second half of the

work area, let it dry clear, then continue laying tile.

cutting and fitting border tiles

You may cut border tile to fit using several techniques. The most common technique for square layouts is to place a full tile directly over the last full field tile. Using another full tile placed firmly against the wall and over the border tile, score the border tile. Be certain the graining of the border tile is properly aligned. Cut the border tile along the scored line and position factory edges of tiles together with the cut edge against the wall.

Use a template cut from stiff cardboard or hardboard to cut border tile in diagonal layouts. For Mannington Commercial 12" Vinyl Composition Tile, Premium Visual Tile and Slip Retardant Tile, cut the template to the diagonal dimension of the tile, approximately 17" square. Use accurate measurements to measure and cut the template. Use the template in place of the tile and proceed as outlined above.

You may direct scribe or pattern scribe the border tile for irregular walls, pipes, etc. For intricate cuts, we recommend you heat the tile from the back and cut with a sharp utility knife along the scribed marks.

finishing and maintenance

Do not wash or scrub the floor for at least 4 or 5 days after installation to allow the floor tiles to bond to the underlayment/subfloor. Keep heavy furniture and equipment off the floor for at least 48 hours to allow the adhesive to set. Sweep or vacuum thoroughly, and remove any residual adhesive with a clean white cloth dampened with mineral spirits. Apply a minimum of two coats of a high-quality cross-linked acrylic floor polish to temporarily protect the floor until regular maintenance procedures can begin.

mannington maintenance overview

SECTION	TYPE	PRODUCTS	MAINTENANCE
I	Overview of Cleaning Procedures and Recommended Floor Pads		
II	Commercial Hardwood	Prestige / Legacy	Same Maintenance
III	Advanced Composite	ICORE	Product Specific
IV	Homogeneous Inlaid Inlaid	BioSpec Fine Fields / Magna	Product Specific
V	Luxury Vinyl Tile/Plank Slip Retardant Sheet Homogeneous Inlaid Heterogeneous	Nature's Paths / Nature's Paths Select Mannington Assurance II Lifelines II, Relay Realities	Product Specific
VI	Heterogeneous Light	Insight / CustomSpec II	Same Maintenance
VII	Vinyl Composition Tile Premium Visual Tile Slip Retardant Tile	Essentials / Designer Essentials Inspirations / Brushwork ColorPoint / SolidPoint SafeWalks	Same Maintenance Procedures

section I – overview of cleaning procedures and recommended floor pads

NOTE: Not applicable for Mannington Assurance II

RPM OF MACHINE:	LOW=Less than 350	Medium =Less than 1500	HIGH=1500 or greater

Dry sweep or dust mop the floor to remove the loose debris and grit. Using walk-off mats (non-staining types) at entrances to building can prevent grit and stainants from being tracked onto the surface floor.

scrubbing

Function:	To remove marks and ground-in soil as required.
Supplies and Equipment:	Cleaning solution and appropriate scrubbing pad, treated dust and wet mops, brush and dust pan, putty knife, two buckets, wet / dry vacuum, two wringers, floor machine, "floor hazard" signs, and water-proof shoe coverings.
Procedures:	Sweep or dry mop floor prior to scrubbing. **Note: All Guantum Guard™ HP floors must be scrubbed prior to applying finish.** Follow cleaning solution manufacturer's labeled directions. Wet floors can be slippery. Follow recommended safety precautions. Follow recommended dilution ratios.
RPM of Machine:	Low, typically less than 350 RPM
Chemical/ Wet Dry:	Cleaner / Wet
Pad Recommendations:	Use pad and machine matched to the scrubbing needs of the floor. i.e. auto scrubber with red pad for smooth surface finish and a soft medium brush for textured finishes like Mannington Assurance II.
Results:	Removes dirt and marks from heavily soiled floors.

finishing

Function:	To protect floor surface, improve the appearance and make the floor easy to maintain.
Supplies and equipment:	Cross-linked liquid acrylic finish, two buckets on dolly or cart with casters, two wringers (one per bucket), "floor hazard" signs, plastic liner, and best quality rayon wet mop (used only for floor finish).
Procedures:	Follow acrylic finish manufacturer's directions.
RPM of Machine:	Use of machines with 1500+ RPM should only be used when there is a finish base of at least five coats.
Chemical/ Wet-Dry:	Apply finish, allow sufficient time between drying
Pad Recommendations:	N/A

finish restorer

Function:	To fill in scratches and restore shine.
Supplies and Equipment:	Finish restorer, two buckets on dolly or cart with casters, two wrings (one per bucket), "floor hazard": signs, plastic liner and best quality rayon wet mop (used only for floor finish).
Procedures:	Follow finish restorer manufacturer's directions.
Results:	Uniformed consistent gloss, similar to original appearance

spray buffing	
Function:	To restore the gloss, repair traffic damage.
Supplies and Equipment:	Spray buffing medium, treated dust mop, putty knife, damp and dust mops, liquid spray bottle, spray buffing pad floor machine and "floor hazard" signs.
Procedures:	Clean floor utilizing scrubbing procedure. Follow spray buff solution manufacturer's directions. Wet floors can be slippery, follow safety precautions. Follow recommended dilution ratios.
RPM of Machine:	Low to medium, typically less than 1500 RPM
Chemical/ Wet Dry:	Spray buff solution / wet
Pad Recommendations:	Use pad and machine matched to the spray buffing needs of the floor being maintained. Higher RPM machines will typically use a less aggressive pad.
Results:	Spray buff solution will clean wet and shine when dry (sometimes called "restoring" the finish) Thoroughly cleans all dirt and some finish from heavily soiled floors. **NOTE:** Mannington Assurance II with a slip-resistance finish and significant embossed texture is not recommended for being maintained using spray buffing.
buffing/ burnishing	
Function:	To restore gloss and repair traffic damage
Supplies and Equipment:	General purpose cleaner, two buckets on dolly or cart (one scrub, one rinse), wringer squeegee, "floor hazard": signs, scrubbing pad, floor machine, wet / dry vacuum, burnishing floor machine, and burnishing pad.
Procedures:	Clean floor utilizing scrubbing procedure. Allow floor to dry. Follow polish manufacturer's directions.
RPM of Machine:	Buffing / Burnishing can be performed utilizing a wide range of machine speeds. The higher the machine RPM the less aggressive pad and / or pad pressure utilized. Some polishes can be formulated specifically for low RPM machines, while others are formulated specifically for high traffic areas and will only respond to high RPM machines.
Chemical/ Wet Dry:	Dry or light water mist
Pad Recommendations:	Follow polish manufacturer's labeled directions for pad type and machine speeds best matched for burnishing of polish used on floor.
Results:	Polish is a clean, dry floor; upgrades the finish quality after scrubbing or spray buffing.
stripping	Stripping of new floors is typically not required nor recommended.
Function:	To remove old floor finish damaged by ground in soil, stains, marks, etc. When the finish will not respond to normal cleaning and burnishing—stripping may be required.
Supplies and Equipment:	Finish Stripper, treated dust and wet mops, brush and dust pan, putty knife, two buckets, wet / dry vacuum, squeegee, two wringers, floor machine, stripping pads, "floor hazard" signs, and waterproof shoe coverings.
Procedures:	Wet floors can be slippery. Follow recommended safety precautions. Follow strip solution from manufacturer's label directions. Follow stripping solution manufacturer's label direction. This typically involves mopping of the solution, wait recommended time, scrubbing old finish loose, mop or pick up old finish, making sure floor is clean and dry before applying new finish.
RPM of Machine:	Low, typically less than 350 RPM
Chemical / Wet Dry:	Strip solution / wet
Pad Recommendations:	3M Green pad or equivalent for all products except Mannington Assurance II which would utilize 3M #53 brush or equivalent
Results:	Removal of all finish and dirt down to the original floor's surface.

These are good starting recommendations. Because of the vast differences in finishes, machines and operator techniques, results may vary. Unless noted with (*), pad recommendations are for 3M "Scotchbrite." Any good quality equivalent pad may also be used.

*Microton "Polyvline / Valuline" Pads

LEAST AGGRESSIVE	White	Tan	Red	Green	Blue	Brown*	Black*	MOST AGGRESSIVE
						X	X	

*NOTE: THE USE OF BLACK OR BROWN PADS ON THE MANNINGTON PRODUCTS LISTED ABOVE IS NOT RECOMMENDED AND WILL VOID THE WARRANTY.

section II – commercial hardwood

prestige / legacy

protect your floor & your warranty
We offer a complete floor-care system formulated specifically for our real hardwood floors. Our floor care products are easy to use and require no mixing. Like any floor covering, our hardwood floors will show signs of wear over time, depending on the level of commercial traffic. However, by observing a few precautions, and using our recommended cleaning and maintenance program, you can expect years of beauty from a Mannington Hardwood Floor.

preventive maintenance
- Use dirt-trapping, non-staining, walk-off mats on all exterior entryways.
- For chairs and heavy furniture use felt pads under legs to minimize scratches and dents
- Protect your floor by using a dolly for moving furniture or appliances. Never slide or roll heavy furniture/appliances directly across the floor.
- Make sure furniture casters are clean and operate properly (a minimum 1" width diameter is recommended).
- Remove spills promptly using a clean non colored absorbent cloth /towel and Mannington recommended cleaning products.
- Sweep or vacuum regularly, since built-up grit can damage the finish. The vacuum head must be a soft brush or felt type. **Do not use a vacuum with a beater bar head.**
- **Do not use oil soaps, liquid, or paste products or other cleaners that contain lemon oil, tung oil, or ammonia since this warranty does not cover damage caused by non-recommended products**.
- **Never mop or flood the floor with water or other non recommended cleaning products. This can severely damage the flooring.**

recommended cleaning & maintenance projects
UltraClean® - Mannington Commercial has developed this all-purpose cleaner to work with our unique finishes without damaging the gloss and luster. 32 oz bottle.

UltraClean® Mop Kit- Includes 24 oz UltraClean® Trigger Spray, Microfiber Mop, 3 Piece Handle.

Customer Care Kit- Over time, it is only natural that your floor should suffer a few nicks and dents. Our Customer Care Kit includes color-matched pencils and markers to repair blemishes.

regular/daily maintenance
- Dust mop or sweep the floor as required to prevent build-up of dust and grit on the floor surface. Use non scratching vacuum brush, if using a sweeper.
- Clean, using a microfiber mop or by dampening a clean cloth dust mop with Mannington UltraClean® wood floor cleaner (do not soak cloth).
- As the cloth becomes soiled, change frequently during the cleaning process.
- Remove spills promptly. Use UltraClean® floor cleaner if required to remove residual stain or surface effect.
- Water can damage your floor. Do not wet clean or steam clean your wood floors.

heavy soils / spot / stain removal
- For most stains apply UltraClean® on a cloth and wipe off.
- For stubborn stains use isopropyl alcohol or mineral spirits (spot cleaning only).

damaged planks
- Scratches and gouges can be repaired using color-matched pencils and markers provided in the Customer Care Kit.
- Heavily damaged planks should be removed and replaced using the procedure outlined in the Mannington Commercial Hardwood Installation Guidelines.

long term maintenance
After many years of use, your floor may naturally show some signs of wear. To restore your floor's luster you may screen and recoat your floor. Contact a professional.

section III – advanced composite

icore

daily maintenance
Advanced Composite Flooring is a low maintenance floor. Following these easy steps ensure that an ICORE floor will look good for years.
- Sweep or damp mop as needed to eliminate loose dust and debris. Use 3M Doodleduster cloth or equal.
- Damp mop as needed with Johnson Diversey Stride or 3M 3-in-1 cleaner, 3M Neutral cleaner, or equal.

heavy soils
- Sweep or damp mop as needed to eliminate loose dirt and grit.
- Thoroughly clean floor with GP Forward general purpose cleaner by Johnson Diversey, 3M Heavy Duty Multi-Surface Cleaner, or equal.
- Use 3M #53 General Purpose Floor Brush, if desired.

spot and stain removal
- Use 3M Citrus base Cleaner—ICORE only—(bulk or aerosol), General Purpose Spotter by Johnson Diversey or equal. Allow products to remain on affected area 3–4 minutes, scrub with soft brush, rinse and wipe clean with damp cloth. **NOTE:** Do not use aggressive buffing pads and/or high speed machines when maintaining ICORE. They may build up heat on ICORE's aluminum oxide wear layer, causing surface burns.

important
- **Never** use soap, wax, polish, or lacquer to care for your ICORE floor. Doing so many damage the wear surface, causing it to be slippery or retain unattractive smudges.
- **Never** use abrasive cleaners such as scouring powder, steel wool, or rotary sanding pads.
- **Never** use a steam cleaner.
- **Never** use any type of sealant on ICORE.
- **Never** flood the floor with water.

damaged planks
- Scratches and small gouges can be fixed using color matching patch pencils and / or melt-in color repair sticks.
- Heavily damaged planks should be removed and new planks installed following the procedures outlined in the ICORE Installation Brochure.

cleaning stains and other problems

STAIN / PROBLEM	PROCEDURE
Juice, Wine, Grease, or Chocolate	Dampen a rag with 3M citrus base cleaner, general purpose spotter by Johnson Diversey or equal, or warm water and mild detergent; then spot clean.
Cigarette Burns, Asphalt, Shoe Polish, Paint, Crayon, Ink, Dried Foods, Nail Polish	Dampen a rag with alcohol or nail polish remover and spot clean.
Candle Wax, Chewing Gum	Allow to harden and gently scrape with a plastic scraper.

section IV – homogeneous inlaid and inlaid

homogeneous inlaid: biospec
inlaid: fine fields / magna

maintenance for a newly installed floor
1. Sweep or vacuum the floor after the seam is completely dry.
2. Damp mop the floor the day after installation with a diluted, non-alkaline, general purpose floor cleaning solution to remove heel marks or stubborn soil that may have occurred during installation.
3. Allow at least 48 hours for the seam to be bonded and the floor to be adhered tightly to the sub floor before washing or scrubbing the floor. Keep walking traffic to a minimum and avoid moving heavy objects across the floor during this time period.
4. When the floor has been thoroughly cleaned and dried, immediately apply multiple coats (3–5 coats) of a high quality metal cross-linked acrylic floor finish to protect the floor surface.

regular maintenance
1. Dry sweep or dust mop the floor to remove the loose debris and grit. Using walk-off mats at entrances to buildings can prevent grit and stainants from being tracked onto the surface of a floor.
2. Damp mop the floor using a properly diluted, non-alkaline, general purpose floor cleaner to maintain an attractive appearance. A low rpm floor machine with the appropriate pad for scrubbing (see pages 130-131) may be used to remove heavy soiling on the floor.
3. After a finished floor is cleaned, rinsed, and dried, it may be spray buffed or burnished to repair scratches in the surface or to bring back the shine of the floor.
4. To spray buff, apply a spray buff medium in front of the machine in an area no larger than 2' x 3' and buff immediately. Buff until the floor is glossy and is not tacky to the touch.
5. Burnish buffing gives a higher gloss look. Utilizing 1500+ RPM high floor machines with proper selection of pads (see pages 130-131) can restore gloss to a finished floor.

■ maintenance

6. To extend the life of the finish and to lengthen the time between recoatings, it is recommended that a finish restorer be used. Apply the finish restorer with a damp mop or automatic scrubber. A thin coating of finish restorer on the floor can protect the finish from abrading when burnish buffing.
7. If the floor is badly soiled and scratched, spray buffing or burnishing will no longer restore the shine of the floor. A stripping operation is required to remove the dirty and damaged finish, followed by reapplication of a new finish.
8. Promptly repair any damage to the floor noticed during the performance of routine maintenance. Refer to the Mannington Professional Installation Guide for floor repair information or call 1-800-241-2262.
   NOTE: During cleaning, floors become wet and slippery. "Caution wet floor" signs must be displayed.

cleaning procedure

1. Sweep the floor with a dust mop or soft push broom to remove all loose dirt and dust. Carefully remove any sticky substances with a putty knife or dull knife.
2. Damp mop or scrub the floor with a non-alkaline, general purpose cleaner. Prepare the solution according to manufacturer's instructions.
3. Spread the solution on the floor, covering an area about 3' x 3'. Use either a mop or a floor machine equipped with a clean scrubbing pad to remove all dirt. Keep the mop as clean as possible by rinsing frequently. This ensures that soil is being removed effectively. In general, one gallon of cleaning solution can clean approximately 2000 square feet.
4. Rinse the floor with a clean mop and clear water. Use a mop or a wet / dry vacuum to remove all wet residue left on the floor.
5. Allow the floor to dry thoroughly before opening it to traffic.
   NOTE: In special application areas, such as hospital operating rooms and clean rooms where waxes or finishes are not normally applied, the use of wet or dry mechanical scrubbing is NOT recommended nor required. In these areas, floors should be damp mopped to remove soils or stains. Antiseptics or disinfectants may be applied after damp mopping to sanitize, if required.

finishing procedure

1. Prior to applying the floor finish, clean the floor thoroughly as described in the cleaning procedure. Any soil left on the floor will become trapped between the finish coats.
2. Soak a clean mop in clear water and wring it as tightly as possible. Dip the mop in the bucket of finish and tap lightly with the wringer. Saturation of the mop provides a more uniform application. Proper saturation is indicated when the finish drips slowly from the wrung-out mop.
3. When the floor is dry, apply the finish in a corner of the room opposite the door and work towards the door. Apply more finish on heavy traffic areas. To prevent edge buildup, apply one coat to non-traffic edges for every three coats applied to heavy traffic areas. On the first application stay at least 12 to 14 inches away from baseboards and corners. Gradually work closer to the edges with each subsequent application.
4. Apply the finish with smooth, overlapping strokes of the mop. Thin coats may dry fast, but often lack strength. Reload the mop with finish frequently enough to ensure that the finish is applied evenly. In general, the finish will cover 2000 square feet per one gallon bottle.
5. It is recommended that 3 to 5 coats be applied to build up a gloss and to provide an adequate foundation for spray buffing or burnishing operation. Allow 45 minutes to one hour dry time between each coat applied, and at least one hour after the last coat of finish has dried before opening the floor to traffic.
6. Discard the remaining finish into a sanitary sewer drain, adhering to the local disposition codes and regulations.

stripping procedure

1. Remove all loose soil and debris from the floor with dust mop, push broom, or vacuum cleaner.
2. Follow the recommended dilution ratio of stripper to water. If cold water is used, longer contact time will be required for complete removal of the old finish. One gallon of properly diluted stripper solution will strip off 800–1200 square feet of floor area.
3. Begin application of the stripper in a corner away from the door, and work towards the door. Liberally apply the stripper solution to the floor with a mop, allowing the stripper solution to penetrate into the floor finish for several minutes. For heavy buildup, it may be necessary to apply more stripper to the floor in order to achieve a complete finish removal. (Warning: At this stage the floor becomes slippery.)
4. Check to see if the finish film is loosened sufficiently to be scraped off easily. Then scrub the floor with a nylon pad or brush (see pages 130-131).
5. Remove all stripping solution with a squeegee and a wet vacuum or with a damp mop. Do not re-use solution.
6. Immediately rinse the floor with clear water, using a clean mop and bucket. Remove the rinse solution with a squeegee and wet vacuum or use a clean, damp mop.
7. Allow the floor to dry thoroughly. Floor fans will assist in shortening the drying time of the rinsed floor. The floor must be kept free of any dirt at this point, so avoid any walk-through traffic.
8. Immediately apply the finish by the following proper finishing procedure as recommended by manufacturer.
9. Discard the remaining finish into a sanitary sewer drain, adhering to the local disposition codes and regulations.

spray buffing procedure

Spray buffing is a machine maintenance procedure to restore the gloss of a floor and to remove scuffs and black marks caused by traffic. Spray buffing can only be done when a solid base of at least three coats of finish already exists on the floor.

1. Sweep the floor to remove loose dirt and debris; remove sticky substances carefully with a dull knife. The floor must be clean before spray buffing.
2. Select the proper, clean spray buffing pad (see pages 130-131) and attach to a floor machine with medium RPM capability.
3. Select an RPM setting appropriate for the buffing medium. Take appropriate precautions to assure grounding and protection of electrical circuits and connections.

4. Dilute the spray buffing medium as per manufacturer's instructions. A high speed floor machine will require that the spray buffing medium be less diluted for proper results. However, using higher concentrations at lower buffer speeds will slow down the operation and result in more soil becoming packed into the spray buffing pad. The spray buffing medium will cover an area of approximately 10,000 to 15,000 square feet per gallon.
5. Spray the medium as a light mist on a 2' x 3' area in front of the machine, enough to wet the pad. This gives the best gloss enhancement and best repair. If the pad is too dry, the operation will scratch and dull the finish. If the pad is overly wet, additional passes with the machine will be required to obtain proper repair of the traffic damage. When the pad becomes clogged with finish and soil, flip the pad over or replace it with a clean pad.
6. After the spray buffing operation has been completed, remove the pad from the machine and clean it with a strong stream of clear water or soak the pad into the stripper solution overnight, and then thoroughly rinse it.
7. Allow the pad to completely dry before reusing.

burnishing / buffing

High speed burnishing / buffing provides the best gloss and damage repair. Floors which are to be high speed burnished should have at least four coats of finish. This base coat should be periodically rebuilt to compensate for the loss of finish from this operation. How often the floor requires burnishing is determined by the appearance of the floor and the traffic intensity. Burnishing more frequently than actually required wastes labor and unnecessarily removes the protective finish. Burnishing at too low a frequency will result in a degraded floor appearance and may allow traffic damage and soil embed in the finish.

High speed burnishing / buffing is NOT a cleaning procedure, nor will it remove larger scratches. Keep the floor clean and minimize the grit that causes these scratches. Any residual soil on the floor will become darkened and discolored. Once this darkening has occurred, stripping off the finish and recoating will be necessary.

Proper selection of the appropriate pad to match the floor machine is important. Low RPM machines and ones utilizing lower pad pressure may require the use of a more aggressive pad.

Heavier pad pressure and more powerful machines, such as those with internal combustion engines, generally require the use of less aggressive pads. A mismatch of pad and machine may result in floor damage, dulled finish, or insufficient repair of traffic damage. Pads are typically color-coded based upon the aggressiveness of the pads, with lighter being less aggressive and darker being more aggressive. (see pages 130-131)

burnishing / buffing procedure

1. The floor must be clean and dry before burnishing. Do not apply antiseptic or disinfectant until burnishing is completed.
2. Sweep or dust mop all surface debris and grit.
3. Damp mop the floor with a properly diluted floor cleaner.
4. Inspect the pad to ensure that it is clean and mechanically sound.
5. Perform a routine safety check on the equipment before beginning the burnishing operation. Take appropriate precautions to assure grounding and protection of electrical circuits and connections.
6. Operate the burnisher in a straight line, making sure to slightly overlap on each pass.
7. Keep the machine in constant motion to avoid surface abrasion and heat damage due to operating the machine in one spot too long.
8. When floor appearance does not respond to high speed burnishing, thoroughly clean the floor and apply a gloss restorer, spray buff, or recoat the original finish.
9. **Burnishing is not recommended for installations exhibiting telegraphing of subfloor irregularities or debris trapped under the floor (inadequate floor preparation).**
10. Discard the remaining finish into a sanitary sewer drain, adhering to the local disposition codes and regulations.

biospec flooring—operating rooms

For areas such as operating rooms, it is not necessary for the floor to be polished. An initial two coats of commercial grade acrylic polish is suggested and shall be applied within 48 hours after installation if utilized. The premise is that Operating Rooms, by definition, are areas where there should be minimal dirt and grit. In addition to normal cleaning and disinfecting that takes place in an OR setting, periodic brush cleaning is required to minimize any surface residue that may collect due to product texture. In some critical care areas, local codes do not permit polishes to be used in OR's. While it is desirable to apply an initial two coats of polish, some codes discourage the use of polish in critical areas.

low maintenance option

1. Use of walk-off mats at entryways is an essential part of extending the life and appearance of the floor. Frequent cleaning of walk-off mats will minimize tracked in grit.
2. Dry sweep or vacuum to remove the loose debris and grit.
3. Damp mop or scrub the floor using a diluted, non-alkaline general-purpose floor cleaner to maintain an attractive appearance. A low RPM floor machine with the appropriate pad for scrubbing (white or green) may be used to remove heavy soils, stains, or spills on the floor.
4. **Dry buffing with a lamb's wool pad or white synthetic pad is the recommended method for maintaining and restoring luster on Realities floors. Normal cleaning in conjunction with occasional buffing will maintain the floor's appearance. Although polishes can be used on Realities floors, they are not needed. Not using polish results in considerable savings of both time and costs in a commercial maintenance program.**

5. **Dry buffing with synthetic pads will restore luster; however, use care to prevent these pads from burning or scarring the floor. When using synthetic pads, always keep the buffing machine in constant motion.**
6. Dry buffing over heavily soiled or badly marked areas should be avoided as it increases the risk of burnishing the residue into the flooring surface. These heavily soiled areas should be scrubbed to ensure complete removal of the soiling material prior to dry buffing. Dry buffing is intended primarily for gloss enhancement rather than soil or scuff removal.
7. **The use of high speed buffing (burnishing) machines, those operating over 1500 RPM, is NOT recommended.**
8. **Burnishing is not recommended for installations exhibiting telegraphing of sub floor irregularities or debris trapped under the floor (inadequate floor preparation).**
9. Realities floors may be polished in lieu of dry buffing; however, once polish has been applied, continued use of a polish or spray buffing is recommended to restore luster to the floor rather than dry buffing.
10. For spray buffing or burnishing, the floor should have 3–5 coats of polish as a base. The floor must be cleaned, rinsed, and allowed to dry. Then it may be spray buffed or burnished to repair scratches in the surface or to restore the gloss.
11. If the floor is badly soiled and/or scratched and spray buffing or burnishing will no longer restore the shine of the floor, a stripping operation is required to remove the dirty and damaged polish, followed by reapplication of new polish. Strip floor only when necessary following the procedures outlined in the previous section on General Maintenance Information.

The use of high-speed buffing (burnishing) machines, those operating over 1500 RPM, is NOT recommended for these products.

Lamb's wool pads are the preferred pads used for gloss restoration. These pads reduce the chance of scratching the flooring surface Lamb's wool pads should be cleaned frequently. Dry-buffing with synthetic pads will also restore gloss; however, use care to prevent these pads from burning or scarring the floor. When using 3M Thickline White synthetic pads, always keep the buffing machine in constant motion.

section V – luxury vinyl tile/plank, slip retardant sheet, homogeneous inlaid and heterogeneous

luxury vinyl tile/plank: nature's paths / nature's paths select
slip retardant sheet: mannington assurance II
homogeneous inlaid: lifelines II / relay
heterogeneous: realities

Featuring Quantum Guard™ HP, Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

Proper cleaning is an essential part of keeping your floor looking good for years to come. These guidelines will help extend the appearance and life of your Mannington Lifelines II Mannington Assurance II, Nature's Paths, Nature's Paths Select and/or Relay floor.

maintenance for a newly installed floor

1. Allow the floor to bond to the underlayment/subfloor for at least 48 hours prior to cleaning the floor.
2. Moving furniture, etc into a room protect floor with appropriate runner boards and moving dollies
3. Sweep or vacuum thoroughly
4. Remove any marks on the floor's surface. Residual adhesive can be removed using a clean white cloth dampened with mineral spirits.
5. Damp mop the floor as required, using a neutral cleaner. Follow container for proper dilution ratio detail.

regular maintenance

Routine maintenance for a LifeLines II, Mannington Assurance II, Nature's Paths, Nature's Paths Select, Realities and/or Relay floor – where traffic volume or use application permits reduced maintenance requirements

1. Dry sweep or dust mop the floor to remove the loose debris and grit. Using entryway systems (non-staining types) at entrances to building can not be over emphasized as to the part they play in reducing subsequent maintenance requirements.
2. Damp mop or utilize an auto scrubber using a properly diluted neutral cleaner in order to maintain an attractive floor appearance. Wet scrub as necessary to prevent accumulation of stubborn soil, sticky substances, etc. Remember wet floors can be slippery. Wet floor signs should be conspicuous when wet maintenance is being performed.
3. Although not required, unless a significant change in appearance occurs over time, use of a finish can help restore, maintain or even out appearance.

mannington assurance II

Mannington Assurance II is used in many areas such as operating rooms, laboratories, building entrance ways, etc. Mannington Assurance II utilizes a combination of embossing texture that provides drainage under foot, plus use of aggregate incorporated into the wear layer, that provides micro-traction and added wear protection. Consequently, the cleaning aspects of Mannington Assurance II are different from most commercial products. Many commercial products, such as VCT or various sheet goods are flat and smooth and are cleaned using various color-coded synthetic cleaning pads. The synthetic color-coded cleaning pads are not recommended for maintaining Mannington Assurance II products. **Mannington Assurance II requires periodic cleaning with a soft brush (e.g. 3M # 53 brush or equivalent) in order to make sure the surface is cleaned down in the embossed areas.**

utilizing finish

Utilizing a finish on a newly installed LifeLines II, Mannington Assurance II, Nature's Paths, Nature's Paths Select, Realities and/or Relay Floor

1. Because of Lifelines II, Mannington Assurance II, Nature's Paths, Nature's Paths Select and/or Relay with Quantum Guard HP™ wear layer, finish is optional, however, if someone wants to utilize a finish on a newly installed Lifelines II, Mannington Assurance II, Nature's Paths, Nature's Paths Select and/or Relay floor; it is required to thoroughly clean the floor with a "Strong or Deep Cleaner" (not stripper) using an auto-scrubber or slow speed scrubbing machine using a tan-red pad or soft bristle brush. Rinse then allow the floor to dry before applying finish.
2. Apply two coats of commercial acrylic finish, making sure there is adequate dry time between coats.
3. Follow regular maintenance procedures. See above.
4. Spray buffing and high speed buffing or burnishing with machines operating at greater than 1500 rpm in order to restore gloss is not normally required for Mannington LifeLines II, Mannington Assurance II, Nature's Paths, Nature's Paths Select and/or Relay. If utilizing spray buffing or high speed burnishing make sure there is an adequate foundation of finish*.

Cleaning and maintenance frequency varies based upon specific traffic volume and area of use. Use of entryway systems, combined with daily sweeping and a reasonable wet cleaning frequency will help minimize more extensive maintenance steps.

*TIP: If planning to use a finish contact the finish manufacturer for recommendations regarding maintenance materials that best match your equipment, type and amount of traffic, desired gloss level and cleaning schedule..

section VI – heterogeneous light

customspec II / insight

The following maintenance procedures are recommended for Mannington CustomSpec II and Insight when installed in light or medium use commercial applications.

new floors

- Floor covering that has just been installed should not be washed or maintained for at least 24 hours to ensure bonding of all adhesives and seam sealers, etc.
- Walking traffic should be kept to a minimum and moving of heavy appliances and equipment should be avoided for 24 hours for the same reasons.
- Seam sealers should be allowed to dry thoroughly and not allowed to be trafficked for at least 24 hours.

precautions

When moving heavy furniture, equipment, or appliances over floor covering, care must be taken to use sheets of hardboard, plywood or other suitable protective materials so as not to mar or gouge the floor covering. Use protective runways even if objects are equipped with wheels or an appliance dolly is used.

Support furniture with wide-bearing, non-staining floor protectors. Ideally, the protectors should be a minimum of 1" in diameter, made of hard plastic, and rest flat on the floor. Casters with a minimum 3/4" flat surface width or floor protectors are recommended for all movable furniture. Make sure any metal protectors are rustproof. Replace narrow dome furniture rests with wide-bearing ones.

basic maintenance

The basic maintenance schedule for most commercial installations contains five steps:

1. Dry mopping / sweeping
2. Damp mopping
3. Wet scrubbing
4. Rinsing and pick-up
5. Power buffing

NOTE: During cleaning, floors become wet and slippery. "Caution wet floor" signs must be displayed.

Although daily sweeping is recommended, the remaining procedures need only be performed as necessary.

controlling grit

Surface dirt and grit should be kept from being tracked onto the flooring. The abrasive action of these materials underfoot can cause surface dulling and scratching. Mats with non-staining backings at entryways are strongly recommended.

Entryway flooring should be at least as wide as the doorway and a minimum of 6 - 12 ft. long (3 - 6 foot falls). Entryway flooring should have non-staining backing. Coco-fiber mats are not recommended as they may scratch the surface of resilient floors. Routine cleaning of entryway flooring should be included in the maintenance procedure. This will increase effective entryway life.

Although soft bristle brooms or vacuum cleaners may be used to control dirt and grit, dust-mopping with a treated (non-oily) mop is the most cost effective and, therefore, most widely used method.

damp mopping

Damp mopping should be used to remove residual surface dirt that remains after dust mopping. The use of a "tight mop" (one that has been well wrung out) is effective and will require less drying time. We recommend high-quality non-alkaline cleaners. Many cleaners leave an unsightly residual film, rinsing the floor will provide a cleaner surface.

wet scrubbing
Wet scrubbing is required when the flooring has become heavily soiled or marked. Scrubbing with a high quality non-alkaline cleaner followed by rinsing is recommended. In addition, if stripping solution or cleaner is used at a higher than recommended strength, a final rinse step is required.

Scrubbing machines which operate in the low range (350 RPM or less) are most commonly used. These low RPM machines give better scrubbing action, less water slinging, and allow working a soiled or marked area more effectively than a high RPM machine. A pad no coarser than a "hog's-hair" pad is recommended. (Coarse synthetic pads or stiff bristle brushes should only be used for wet scrubbing when an ample amount of cleaning solution is applied to the floor.)

The use of automatic floor machines has become prevalent in the commercial maintenance industry. These machines, which are totally self-contained, apply the cleaning solution, scrub the floor, and vacuum up the dirty solution in one pass. Damp mop rinsing, which provides a cleaner floor, is recommended.

floor polishing and dry buffing
Buffing is the recommended method for maintaining and restoring luster on all Mannington CustomSpec II and Insight floors. Normal cleaning in conjunction with occasional buffing will maintain the floor's luster. Although polishes are not the norm for these products, they will work, and a high quality metal cross-linked liquid acrylic finish can be used. Use of quality cleaner is recommended to remove polish and heavy dirt buildup.

Dry buffing over heavily soiled or badly marked areas should be avoided because it increases the risk of burnishing residue into the flooring surface. These heavily soiled areas should receive special attention using appropriate cleaners / strippers during wet scrubbing to ensure complete removal of the soiling material.

High-speed buffing (burnishing) machines operate in the medium range (1500 RPM or less). The use of high speed machines, those operating over 1500 RPM, is not recommended. Lamb's wool pads are the preferred pads used for gloss restoration. These pads significantly reduce the chance of scarring or scratching the flooring surface.

Lamb's wool pads should be kept clean by washing in Woolite® or a similar product.

Dry buffing with synthetic pads will also restore gloss. Extreme care must be used to prevent these types of pads from burning or scarring the floor. When using synthetic pads, it is critical to keep the buffing machine in constant motion.

Low speed (350 RPM or less) machines will restore gloss as well as higher speed buffers, but will require more time to cover equivalent flooring area. Power buffing machines are intended primarily for gloss enhancement rather than soil or scuff removal.

floor finishes
Although finishes can be used on Mannington's CustomSpec II and Insight commercial floors , they are not needed; and by not performing unnecessary procedures, a facility can achieve considerable savings of both time and costs in a commercial maintenance program.

section VII – vinyl composition tile, premium visual tile and slip retardant tile

vinyl composition tile: essentials / designer essentials
premium visual tile: brushwork / colorpoint / solidpoint / inspirations
slip retardant tile: safewalks

general information
Proper and regular maintenance is necessary to protect and prolong the life of the floor. A good maintenance routine involves the following:
- Frequent sweeping, mopping, or vacuuming to control loose soil and grit
- Prompt removal of stains and spills
- Polishing to protect the floor surface and add gloss. Always use a quality name brand product and follow manufacturer recommendations to ensure the best results. Restrict traffic when cleaning, waxing, or stripping due to the possibility of slipping. Use protective runways when moving heavy objects, even if equipped with wheels, to avoid causing adhesive displacement, marring, or gouging of the tile.

maintenance for a newly installed floor
- Do not wash or scrub the floor for at least 4 or 5 days after installation to allow the floor tiles to bond to the underlayment / subfloor.
- Keep heavy furniture and equipment off the floor for at least 48 hours to allow the adhesive to set.
- Sweep or vacuum thoroughly and remove any residual adhesive with a clean white cloth dampened with mineral spirits.
- Apply a minimum of two coats of a high quality cross-linked acrylic floor polish to temporarily protect the floor until regular maintenance procedures can begin.

preparation for commercial use

1. Scrub the floor using a good quality non-alkaline floor cleaner and a floor machine of low RPM equipped with a green or blue scrubbing pad.
2. Heavily soiled or scratched floors may be stripped, following the same procedure as for scrubbing, but using a floor stripping detergent.
3. Thoroughly rinse the floor, being careful to avoid flooding the floor, and allow the floor to dry completely.
4. Apply 3–5 coats* of a high-quality, cross-linked acrylic floor polish, allowing sufficient drying time (at least 30 minutes) between applications.
   ***NOTE:** Maintenance conditions vary. Contact the polish manufacturer to determine the specific recommendations for polishing based upon your equipment, schedule, traffic, and desired gloss level.

regular maintenance

1. Clean floor frequently with a treated (non-oily) dust mop or clean, soft push broom.
2. Damp mop the floor as required, using a properly diluted, neutral-detergent solution. Light scrubbing with an automatic floor machine may be required in heavily soiled areas.
3. Rinse the floor with clean water and allow to dry completely.
4. After damp mopping or light scrubbing, spray buffing or high speed burnishing may be performed to restore gloss.
   NOTE: During cleaning, floors become wet and slippery. Caution wet floor signs must be displayed.

spray buffing

Spray buff only when a solid base coat of at least three coats of polish already exists on the floor. Spray buff using a diluted floor polish (7%–8% solids) or a spray buffing compound. Before the liquid is dry, buff with a floor machine equipped with a white or tan buffing pad or a soft brush at medium RPM. After buffing the liquid dry, a thin, glossy film remains which protects the base coat of polish, reducing the need for stripping. Heavy traffic areas may need extra coats of polish on a more frequent basis.

high speed burnishing

CAUTION: Operators of ultra high-speed burnishing machines should be well trained. Careless or improper use of these machines can result in severe and extensive damage to the floor. Ensure that the floor is free of all loose dirt and debris. High-speed burnishing utilizes a machine of 1500+ RPM capacity. It is a dry buffing procedure performed on a floor already coated with at least four coats of polish specifically formulated for burnishing. This base coat should be periodically rebuilt by recoating to compensate for loss of finish from this operation. The machine should be operated in a straight line, with a push-pull method, rather than a sweeping motion. When the floor appearance no longer responds to high-speed burnishing, thoroughly clean the floor and apply gloss restorer, spray buff or recoat the original finish (see page130-131). **Burnishing is not recommended for installations exhibiting telegraphing of subfloor irregularities or debris trapped under the floor (inadequate floor preparation).**

stripping

Use of high quality maintenance products and regular adherence to a quality maintenance program will greatly reduce the need for stripping. Strip floors only when necessary. Follow the manufacturer's label recommendations for proper dilution, use, clean-up, and disposal of stripper.

CAUTION: High solvent content strippers (no-rinse / no-scrub) must NOT be used on tile floors installed less than two years old. Apply stripper liberally with a clean mop and allow it to penetrate into the floor finish for several minutes (without allowing it to dry). Scrub the floor with a single disc floor machine equipped with a red, green, or blue pad at low RPM. Remove all stripping solution with a squeegee and wet vacuum or a damp mop. Immediately rinse floor with clear water, remove rinse water with a squeegee and wet vacuum or damp mop. Allow the floor to dry completely, then reapply polish (see pages 130-131).

mannington warranties overview

SECTION	TYPE	PRODUCTS
I	Luxury Vinyl Tile / Plank	Nature's Paths / Nature's Paths Select
II	Advanced Composite	ICORE
III	Commercial Hardwood	Prestige / Legacy
IV	Slip-Retardant Sheet Homogeneous Inlaid Inlaid	Mannington Assurance II LifeLines II / BioSpec / Relay Fine Fields / Magna
V	Heterogeneous Light	Insight / CustomSpec II
VI	Heterogeneous	Realities
VII	Vinyl Composition Tile Premium Visual Tile Slip-Retardant Tile	Essentials / Designer Essentials Inspirations / Brushwork / ColorPoint / SolidPoint SafeWalks

section I – luxury vinyl tile / plank

nature's paths / nature's paths select

warranty information
The following warranty conditions apply to Mannington's Nature's Paths flooring when installed in commercial applications in accordance with the Mannington Professional Installation Guide.

limited 10-year commercial warranty on mannington luxury vinyl tile and plank flooring
Mannington warrants from the date of original installation, that for ten (10) years of commercial use, Nature's Paths Tiles and Planks will be free of manufacturing defects and will not fade under artificial light or sunlight, stain, or show wear through the image layer.

A plank that does not perform as stated will be repaired to conform with this warranty. If repair is not commercially practicable, Mannington will replace the plank with the same style product, if it is still available, or with a comparable product from the current running line. Replacement planks and/or tiles will be provided at no charge to the end user. If the floor was installed by a professional flooring contractor hired by you, Mannington will also cover reasonable labor costs for installation of replacement planks and/or tiles.

pre-installation warranty
We will guarantee your satisfaction with each Nature's Paths plank and/or tile. Should any Nature's Paths plank and/or tile not meet your satisfaction because of a visual defect, simply return it to your Mannington flooring contractor, PRIOR TO INSTALLATION, for replacement.

quantum guard HP™ 5-year coating finish warranty
Quantum Guard™ HP is Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

- Products are warranted to the original owner that Quantum Guard HP™ urethane surface wear layer will not wear through or separate from the floor for a full 5 Years from the date of purchase when used under normal commercial traffic conditions.
  Exceptions:
- The addition of the Quantum Guard HP finish does not permanently preclude the use of floor finishes
- Chair Casters- Chair mats are required
- Indentations, scratches or surface damages caused improper maintenance, misuse, negligence, spike heeled shoes, pebbles, sand, other abrasives or insufficient protection on furniture
- Sub-floor irregularities can cause premature wear on the HP wear layer and will void the wear layer
- Using non-recommended floor care products which may damage the floor and void the warranty
- If your floor fails to perform as stated in the applicable Limited Warranty, Mannington Commercial will, at its option, (i) repair without charge the affected flooring to conform to the warranty; or (ii) replace the affected planks without charge, with planks of equal value and/or quality. If your floor was installed by a professional flooring contractor, Mannington Commercial will also pay for the professional labor cost to install your replacement floor. Mannington Commercial will not pay for the removal or replacement of cabinets, appliances or other fixtures. Replacement floors are warranted hereunder only for the remaining time of the original warranty and are not warranted to match in dye lot and gloss with your existing floor.

THESE ARE YOUR EXCLUSIVE REMEDIES UNDER THE LIMITED WARRANTIES SET FORTH ABOVE. UNDER THE TERMS OF THESE LIMITED WARRANTIES, MANNINGTON COMMERCIAL WILL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND, NO MATTER WHAT THE CAUSE.

THERE ARE NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE, EXTENDING BEYOND THE TERMS OF THESE LIMITED WARRANTIES. EXCEPT AS SET FORTH HEREIN, THERE ARE NOT EXPRESS WARRANTIES MADE BY MANNINGTON COMMERCIAL COVERING THIS PRODUCT.

Note: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

warranty conditions
This warranty does not cover defects or damage to Nature's Paths planks and/or tiles caused by installation caused by (i) installation or maintenance that does not comply strictly with the instructions set forth in the Mannington Professional Installation Guide, and Care and Maintenance Instructions, (ii) abuse (e.g. abrasives like steel wool to scour the floor, sliding heavy objects across the floor without proper protection), or (iii) severe accidents (e.g. fire, burns). This warranty covers water damage from normal use, excluding natural disasters.

This warranty applies only to the original purchaser and installation site(s) and is not transferable. This warranty is valid for commercial installations. Any area that receives replacement planks and/or tiles must be cleared, at the consumer's expense, of any equipment, furnishings, partitions, etc., that have been installed or put into place over the planks and/or tiles subsequent to the original installation. This warranty does not cover planks and/or tiles installed with obvious visual defects.

incidental or consequential damages
Under the terms of these limited warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties
There are no implied warranties, including merchantability and fitness for a particular purpose, extending beyond the terms of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights. You may also have other rights which vary from state to state or province to province in Canada.

warranty claims
If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the floor was purchased. This notice must be received by the flooring contractor within the warranty period from the date of purchase. The flooring contractor will notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the dealer. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

section II – advanced composite

icore

warranty information
The following warranty conditions apply to first quality Mannington Commercial iCORE flooring when installed in commercial applications in accordance with the current Mannington Professional Installation Guide.

limited 10-year commercial warranty on mannington advanced composite flooring
Mannington warrants from the date of original installation, that for ten (10) years of commercial use, iCORE planks ("planks") will be free of manufacturing defects and will not fade under artificial light or sunlight, stain, or show wear through the image layer, and will resist wear damage under normal conditions.

A plank that does not perform as stated will be repaired to conform to this warranty. If repair is not commercially practical, Mannington will replace the plank with the same style product, if it is still available, or with a comparable product from the current running line. Replacement plank(s) under warranty will be provided at no charge to the end user. If the floor was installed by a professional flooring contractor hired by you, Mannington will also cover reasonable labor costs for installation of replacement planks.

ICORE pre-installation warranty
We will guarantee your satisfaction with each ICORE plank. Should any ICORE plank not meet your satisfaction because of a visual defect, simply return it to your Mannington flooring contractor, PRIOR TO INSTALLATION, for a replacement.

warranty conditions
IMPORTANT NOTICE: This warranty does not cover defects or damage to ICORE planks caused by (i) installation or maintenance that does not comply strictly with the instructions set forth in the Mannington Professional Installation Guide, and Care & Maintenance Instructions, (ii) abuse (e.g. abrasives like steel wool to scour the floor, sliding heavy objects across the floor without proper protection), (iii) severe accidents (e.g. fire, burns), or (iv) loss of gloss or build-up due to lack of or improper maintenance. This warranty covers water damage from normal use, excluding natural disasters.

This warranty applies only to the original purchaser and installation site(s) and is not transferable. This warranty is valid for commercial installations. Any area that receives replacement plank(s) must be cleared, at the consumer's expense, of any equipment, furnishings, partitions, etc., that have been installed or put into place over the plank(s) subsequent to the original installation. This warranty does not cover planks installed with obvious visual defects and does not cover labor costs on any non-professionally installed material. This warranty is in lieu of all other express warranties. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

incidental or consequential damages
Under the terms of these limited warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties
There are no implied warranties, including merchantability and fitness for a particular purpose, extending beyond the terms of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights. You may also have other rights which vary from state to state or province to province in Canada.

warranty claims
If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the floor was purchased. This notice must be received by the flooring contractor within the warranty period from the date of purchase. The flooring contractor will notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the dealer. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

If you need maintenance advice or have any questions about Mannington products please call 1-800-241-2262 or write to Mannington Resilient Floors, P.O. Box 30, Salem, NJ 08079.

section III – commercial hardwood

prestige / legacy

limited lifetime structural warranty
Mannington Commercial warrants that your Mannington Commercial hardwood flooring will be free from manufacturing defects and, for the life of the product, when used under normal commercial conditions, will not buckle, warp, twist or separate at the plies due to glue bond failure.

limited lifetime subfloor bond warranty
Mannington Commercial warrants that, when installed according to Mannington's installation guidelines using Mannington Commercial's Ultra-Spread Mastic, and when used under normal commercial conditions, your Mannington Commercial hardwood flooring will not release from the subfloor during the life of the product. Failure to comply with all conditions set forth in the Installation Guide will void warranty.

limited ultrawear plus finish warranty
Mannington Commercial warrants that its factory applied ULTRAWEAR® Plus no-wax finish, under commercial use, will not wear through or peel for three years after the date of purchase. This warranty is applicable only to those products contained in the Mannington Commercial Prestige, Legacy, and Summit Collections as well as Madison Oak, Brandywine Oak, California Oak, and Concord Oak.

limited pre-installation warranty
Prior to installation, Mannington Commercial will replace (up to a maximum of six months after date of purchase) any Mannington Commercial Hardwood flooring plank which does not meet with your satisfaction. Simply return the plank to your Mannington Commercial retailer, and you will be given a replacement subject to a restocking fee. This warranty does not apply to Mannington's Commercial Harrington Oak or Jamestown Oak flooring products.

limited warranty exclusions and conditions
The Limited Warranties set forth herein apply only to flooring purchased after March 6, 2006. Proof of purchase is necessary to verify all warranty claims.

1. The Limited Warranties do not apply to "seconds," "off goods, " economy grade, cabin grade or shop grade product.
2. The Limited Warranties apply only to the original purchaser and the original installation site, and are not transferable.
3. The Limited Warranties do not cover conditions or defects, including buckling, caused by improper installation, the use of improper adhesives; inadequate, uneven or irregular subflooring or improper sub-floor preparation; or by the failure to follow Mannington's installation guidelines, which are included in the product cartons and can be obtained by calling Mannington at 1-800-241-2262 or 1-800-FLOOR-US (1-800-356-6787).
4. The Limited Warranties do not cover gapping of planks.
5. The Limited Warranties do not cover construction related damage.

6. The Limited Warranties do not cover planks that have been installed with obvious visual defects.
7. The Limited Warranties do not cover noises, such as popping, crackling or squeaking.
8. The Limited Warranties do not cover damage caused by insects.
9. The Limited Warranties do not cover conditions caused by improper use or maintenance, such as:
   - Loss of gloss or build-up of dulling film due to lack of maintenance or improper maintenance.
   - Damage resulting from failure to follow floor care instructions
   - Scuffs, scratches, gouges, dents, cuts or marks caused by abuse (i.e. dragging objects across the floor without proper protection)
   - Damage caused by burns, flooding, fires and other accidents
   - Wear caused by caster wheels or vacuum cleaner beater bars
   - Wear caused by pebbles, sand and other abrasives or spike heels
   - Use of rubber backed mats, latex-backed or coco fiber mats or mats that are not labeled as "non-staining"
   - Failure to support furniture and fixtures with floor protectors that are at least one inch in diameter, made of non-staining felt or non-pigmented hard plastic, rest flat on the floor and are replaced regularly.
10. The Limited Warranties do not cover fading or discoloration from heat or sunlight.
11. For purposes of the Limited ULTRAWEAR® Finish Warranty for Commercial Use, "wear through" means complete loss of the Mannington Commercial wear layer.
12. The Limited Warranties do not cover variations of color, shade or texture of the floor your purchase from those shown on samples or photographs.
13. Use of Mannington Commercial Hardwood flooring in environments that are excessively dry, excessively humid, or prone to dramatic variations in humidity may result in small cracks in the planks which may affect your floor's finish.
14. The Limited Lifetime Subfloor Bond Warranty does not apply unless the subfloor is visually dry at the time of installation and does not have a history of moisture problems and meets all parameters set forth in the installation guidelines.

maintenance instructions

Sweep or vacuum regularly, since built-up grit can damage the finish and surface of hardwood. The vacuum head must be a brush or felt type. Be certain the wheels of the vacuum are clean and do not damage the finish. Do not vacuum with a beater bar head.

- Remove spills promptly using a soft cloth and cleaning products recommended by Mannington.
- Never mop or flood your floor with water or other products. This can severely damage the flooring.
- The use of Mannington Commercial maintenance and floor-care products is highly recommended.
- Do not use oil soaps, liquid or paste wax product or other household cleaners that contain lemon oil, tung oil or ammonia.
- Use a dolly and protective sheets of plywood when moving heavy objects.
- Make certain furniture casters and floor protectors are clean and operate properly (a minimum of 1" continuous width is recommended).

Your floor will wear more evenly if you use area rugs in heavily traveled areas and pivot points (i.e. stair landings, room entries, etc).

Use dirt-trapping walk-off mats at all exterior doors to keep sand, dirt, grit, grease and oil outside.

This warranty gives you specific legal rights and you may also have other rights which vary from State to State in the U.S. or Province in Canada.

If your floor fails to perform as stated in the applicable Limited Warranty, Mannington Commercial will, at its option, (i) repair without charge the affected planks to conform to the warranty; or (ii) replace the affected planks without charge with planks of equal value and/or quality.

If your floor was installed by a professional flooring contractor, Mannington Commercial will also pay for the professional labor cost to install your replacement planks. Mannington Commercial will not pay for the removal or replacement of cabinets, appliances or other fixtures.

Replacement planks are warranted hereunder only for the remaining time of the original warranty and are not warranted to match in color, grain and gloss with your existing floor.

Flooring that fails to perform as stated in the Limited Lifetime Subfloor Bond Warranty will be repaired or replaced only one time.

THESE ARE YOUR EXCLUSIVE REMEDIES UNDER THE LIMITED WARRANTIES SET FORTH ABOVE.

UNDER THE TERMS OF THESE LIMITED WARRANTIES, MANNINGTON COMMERCIAL WILL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND, NO MATTER WHAT THE CAUSE.

THERE ARE NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXTENDING BEYOND THE TERMS OF THESE LIMITED WARRANTIES.

EXCEPT AS SET FORTH HEREIN, THERE ARE NOT EXPRESS WARRANTIES MADE BY MANNINGTON COMMERCIAL COVERING THIS PRODUCT.

Note: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

section IV – homogeneous inlaid, inlaid and slip retardant sheet

homogeneous inlaid: biospec / lifelines II / relay
inlaid: magna / fine fields
slip retardant sheet: mannington assurance II

warranty information
The following warranty conditions apply to first quality Mannington Commercial Magna, Fine Fields, Mannington Assurance II, BioSpec, Relay and LifeLines II when installed in commercial applications in accordance with the current Mannington Professional Installation Guide.

limited 5-year commercial warranty for manufacturing defects
The Mannington Commercial floor that you purchase is guaranteed to be free from manufacturing defects. If a defect occurs in your floor, upon verification of the defect, Mannington will authorize repair or replacement of the affected area. Reasonable labor costs, if installed by a professional flooring installer / contractor, will be reimbursed at 100% if the defect is reported within the first year of the original purchase, and at 50% if the defect is reported within the second year of the original purchase. Labor costs will not be reimbursed if the defect is reported within the third, fourth, or fifth year of the original purchase. Mannington's obligations under this warranty are subject to the exclusions stated below.

excluded from limited 5-year commercial warranty
1. Purchase of "Seconds," "Remnants," "Mill Trials" or other "irregular" (non first quality) flooring material, or material not part of, or available in, the regular Mannington product line.
2. Dissatisfaction due to improper installation. Mannington installation instructions are available from your dealer or by calling 1-800-FLOOR-US.
3. Any damage such as burns, stains (including those caused by rubber backed floor mats), cuts, scratches, scuffs, gouges, indentations, including lack of or improper floor protectors and furniture rests; staining caused by tracked-in dyes from carpet, fertilizers, coal, tar, or asphalt driveway sealers or oil drippings; fading or discoloration from prolonged, excessive exposure to sunlight or heat; and damage caused by other abuse or accident.
4. Problems caused by uses and installation contrary to Mannington recommendations.
5. Labor on material installed with obvious defects.
6. Mannington warranties do not cover labor costs on repair or replacement of material which was not originally professionally installed.
7. Loss of gloss or film build-up due to lack of or improper maintenance.
8. Any discoloration or bond failure on Mannington Commercial product resulting from improper adhesive selection or application.
9. Damage from narrow tipped heels.
10. Problems due to moisture, mildew, alkaline substances, or hydrostatic pressure in the underfloor.
11. Color, shade, or embossing deviations from samples or printed color illustrations.

Recommended adhesives include the following:
V-81: Fine Fields and Magna
V-82 Porous or V-95 Non-porous: Mannington Assurance II, BioSpec and LifeLines II, Relay

quantum guard HP™ warranty - lifelines II, relay and mannington assurance II products only
Quantum Guard™ HP is Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

- Products are warranted to the original owner that Quantum Guard HP™ urethane surface wear layer will not wear through or separate from the floor for a full 5 Years from the date of purchase when used under normal commercial traffic conditions.

Exceptions:
- The addition of the Quantum Guard HP finish does not permanently preclude the use of floor finishes
- Chair Casters- Chair mats are required
- Indentations, scratches or surface damages caused improper maintenance, misuse, negligence, spike heeled shoes, pebbles, sand, other abrasives or insufficient protection on furniture
- Sub-floor irregularities can cause premature wear on the HP wear layer and will void the wear layer
- Using non-recommended floor care products which may damage the floor and void the warranty
- If your floor fails to perform as stated in the applicable Limited Warranty, Mannington Commercial will, at its option, (i) repair without charge the affected flooring to conform to the warranty; or (ii) replace the affected planks without charge, with planks of equal value and/or quality. If your floor was installed by a professional flooring contractor, Mannington Commercial will also pay for the professional labor cost to install your replacement floor. Mannington Commercial will not pay for the removal or replacement of cabinets, appliances or other fixtures. Replacement floors are warranted hereunder only for the remaining time of the original warranty and are not warranted to match in dye lot and gloss with your existing floor.

THESE ARE YOUR EXCLUSIVE REMEDIES UNDER THE LIMITED WARRANTIES SET FORTH ABOVE. UNDER THE TERMS OF THESE LIMITED WARRANTIES, MANNINGTON COMMERCIAL WILL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND, NO MATTER WHAT THE CAUSE.

THERE ARE NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXTENDING BEYOND THE TERMS OF THESE LIMITED WARRANTIES. EXCEPT AS SET FORTH HEREIN, THERE ARE NOT EXPRESS WARRANTIES MADE BY MANNINGTON COMMERCIAL COVERING THIS PRODUCT.

Note: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

warranty conditions
IMPORTANT NOTICE: All warranties apply to the original user and are not transferable under any condition. If a Mannington Commercial floor is replaced under warranty, the replacement floor will be an equivalent Mannington Commercial product and will be warranted under the terms of this warranty for the balance of the five year life of the original warranty. Mannington warranties do not cover labor costs on any non-professionally installed material. This warranty is in lieu of all other express warranties.

incidental or consequential damages
Under the terms of these limited warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties
There are no implied warranties, including merchantability and fitness for a particular purpose, extending beyond the terms of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights. You may also have other rights which vary from state to state or province to province in Canada.

warranty claims
If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the floor was purchased. This notice must be received by the flooring contractor within the warranty period from the date of purchase. The flooring contractor will notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the flooring contractor. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

For more information, please call 1-800-241-2262 or write to Mannington Resilient Floors, P.O. Box 30, Salem, NJ 08079.

section V – heterogeneous light

customspec II / insight

warranty information
The following warranty conditions apply to first quality Mannington Commercial CustomSpec II and Insight Heterogeneous Light Commercial when installed in commercial applications in accordance with the current Mannington Professional Installation Guide.

limited 10-year commercial warranty for manufacturing defects
The Mannington Commercial resilient sheet floor that you purchase is guaranteed to be free from manufacturing defects. If a defect occurs in your floor, upon verification of the defect, Mannington will authorize repair or replacement of the affected area if installed by a professional flooring installer / contractor. Reasonable labor costs, if installed by a professional flooring installer/ contractor, will be reimbursed at 100% if the defect is reported within the first year of the original purchase, and at 50% if the defect is reported within the second year of the original purchase. (see page 120) Mannington's obligations under this warranty are subject to the exclusions stated below. **NOTE:** This product carries a 15-Year Warranty when used in residential applications.

excluded from limited 10-year commercial warranty
1. Purchase of "Seconds," "Remnants," "Mill Trials" or other "irregular" (non first quality) flooring material, or material not part of, or available in, the regular Mannington product line.
2. Dissatisfaction due to improper installation. Mannington installation instructions are available from your dealer or by calling 1-800-FLOOR-US.
3. Any damage such as burns, stains (including those caused by rubber backed floor mats), cuts, scratches, scuffs, gouges, indentations, including lack of or improper floor protectors and furniture rests; staining caused by tracked-in dyes from carpet, fertilizers, coal, tar, or asphalt driveway sealers or oil drippings; fading or discoloration from prolonged, excessive exposure to sunlight or heat; and damage caused by other abuse or accident.
4. Problems caused by uses and installation contrary to Mannington recommendations.
5. Labor on material installed with obvious defects.
6. Mannington warranties do not cover labor costs on repair or replacement of material which was not originally professionally installed.
7. Loss of gloss or film build-up due to lack of or improper maintenance.
8. Any discoloration or bond failure on Mannington Commercial product resulting from improper adhesive selection or application.
9. Damage from narrow tipped heels.
10. Problems due to moisture, mildew, alkaline substances, or hydrostatic pressure in the underfloor.
11. Color, shade, or embossing deviations from samples or printed color illustrations.

limited 5-year aqualoc® moisture protection warranty against damage caused by alkali and moisture

The Mannington commercial floor you purchase is protected from discoloration resulting from mold or mildew growth in the vinyl. If discoloration occurs in your CustomSpec II or Insight floor and is reported within the first three years, Mannington will authorize repair or replacement at no charge and pay for reasonable labor costs. After three years and up to five from original purchase date, Mannington will cover material only—NOT LABOR.

excluded from customspec II and insight aqualoc® warranty

1. Discoloration due to installation practices contrary to Mannington recommendations.
2. Discoloration of material installed over subfloors, underlayments, and patching compounds not recommended by Mannington. This includes installation over gypsum-based underlayments.
3. Discoloration from hydrostatic pressure or excessive moisture caused by flooding, plumbing, and appliance leaks (i.e., dishwasher), and water leakage through sliding glass doors.
4. Problems and discoloration resulting from the use of any adhesive other than Mannington Commercial V-81 Premium Latex Adhesive. **NOTE:** Under the terms of the AquaLoc Warranty, any failure due to discoloration caused by mold or mildew growth will be replaced one time. If the replacement material discolors in the same manner as the first floor, Mannington will not assume responsibility for subsequent replacements. If two floors fail on the same site, the conditions under which the product is installed have proven themselves too severe for the successful installation of vinyl sheet goods.

warranty conditions

IMPORTANT NOTICE: All warranties apply to the original user and are not transferable under any condition. If a Mannington floor is replaced under warranty, the replacement floor will be an equivalent Mannington Commercial product and will be warranted under the terms of this warranty for the balance of the ten year life of the original warranty. This warranty is in lieu of all other express warranties.

incidental or consequential damage

Under the terms of these limited warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties

There are no implied warranties, including merchantability and fitness for a particular purpose, extending beyond the terms of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights. You may also have other rights which vary from state to state or province to province in Canada.

warranty claims

If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the floor was purchased. The flooring contractor must receive this notice within the warranty period from the date of purchase. The flooring contractor will then notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the flooring contractor. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

Quantum Guard™ HP is Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard™ HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.
For more information, please call 1-800-241-2262 or write to Mannington Resilient Floors, P.O. Box 30, Salem, NJ 08079.

section VI – heterogeneous

realities™

warranty information

The following warranty conditions apply to first quality in Mannington Commercial Realities heterogeneous resilient sheet flooring when installed in commercial applications in accordance with the current Mannington Professional Installation Guide.

limited 5-year commercial warranty for manufacturing defects

The Mannington commercial resilient sheet floor that you purchase is guaranteed to be free from manufacturing defects. If a defect occurs in your floor, upon verification of the defect, Mannington will authorize repair or replacement of the affected area if installed by a professional flooring installer / contractor. Reasonable labor costs, if installed by a professional flooring installer / contractor, will be reimbursed at 100% if the defect is reported within the first year of the original purchase, and at 50% if the defect is reported within the second year of the original purchase. Labor costs will not be reimbursed if the defect is reported within the third, fourth or fifth year of the original purchase. Mannington's obligations under this warranty are subject to the exclusions stated below.

excluded from limited 5-year commercial warranty

1. Purchase of "Seconds," "Remnants," "Mill Trials" or other "irregular" (non first quality) flooring material, or material not part of, or available in, the regular Mannington product line.
2. Dissatisfaction due to improper installation. Mannington installation instructions are available from your dealer or by calling 1-800-FLOOR-US.
3. Any damage such as burns, stains (including those caused by rubber backed floor mats), cuts, scratches, scuffs, gouges, indentations, including lack of or improper floor protectors and furniture rests; staining caused by tracked-in dyes from carpet, fertilizers, coal, tar, or asphalt driveway sealers or oil drippings; fading or discoloration from prolonged, excessive exposure to sunlight or heat; and damage caused by other abuse or accident.
4. Problems caused by uses and installation contrary to Mannington recommendations.
5. Labor on material installed with obvious defects.
6. Mannington warranties do not cover labor costs on repair or replacement of material which was not originally professionally installed.
7. Loss of gloss or film build-up due to lack of or improper maintenance.
8. Any discoloration or bond failure on Mannington Commercial product resulting from improper adhesive selection or application.
9. Damage from narrow tipped heels.
10. Problems due to moisture, mildew, alkaline substances, or hydrostatic pressure in the underfloor.
11. Color, shade, or embossing deviations from samples or printed color illustrations.
12. Recommended adhesives include the following: V-82 porous or V-95 non-porous.

quantum guard HP™ 5-year coating finish warranty

Quantum Guard™ HP is Mannington's patented high performance wearlayer with urethane aluminum oxide topcoat cured by a UV process. It is the industry's first true low maintenance floor providing superior appearance retention, cleanability, durability and slip retardance. Quantum Guard HP can eliminate the need for polish over an extended period of time depending upon the amount of commercial traffic.

- Products are warranted to the original owner that Quantum Guard HP™ urethane surface wear layer will not wear through or separate from the floor for a full 5 Years from the date of purchase when used under normal commercial traffic conditions.

Exceptions:
- The addition of the Quantum Guard HP finish does not permanently preclude the use of floor finishes
- Chair Casters- Chair mats are required
- Indentations, scratches or surface damages caused improper maintenance, misuse, negligence, spike heeled shoes, pebbles, sand, other abrasives or insufficient protection on furniture
- Sub-floor irregularities can cause premature wear on the HP wear layer and will void the wear layer
- Using non-recommended floor care products which may damage the floor and void the warranty
- If your floor fails to perform as stated in the applicable Limited Warranty, Mannington Commercial will, at its option, (i) repair without charge the affected flooring to conform to the warranty; or (ii) replace the affected planks without charge, with planks of equal value and/or quality. If your floor was installed by a professional flooring contractor, Mannington Commercial will also pay for the professional labor cost to install your replacement floor. Mannington Commercial will not pay for the removal or replacement of cabinets, appliances or other fixtures. Replacement floors are warranted hereunder only for the remaining time of the original warranty and are not warranted to match in dye lot and gloss with your existing floor.

THESE ARE YOUR EXCLUSIVE REMEDIES UNDER THE LIMITED WARRANTIES SET FORTH ABOVE. UNDER THE TERMS OF THESE LIMITED WARRANTIES, MANNINGTON COMMERCIAL WILL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND, NO MATTER WHAT THE CAUSE.

THERE ARE NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXTENDING BEYOND THE TERMS OF THESE LIMITED WARRANTIES. EXCEPT AS SET FORTH HEREIN, THERE ARE NOT EXPRESS WARRANTIES MADE BY MANNINGTON COMMERCIAL COVERING THIS PRODUCT.

Note: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

warranty conditions

IMPORTANT NOTICE: All warranties apply to the original user and are not transferable under any conditions. If a Mannington Commercial floor is replaced under warranty, the replacement floor will be an equivalent Mannington Commercial product and will be warranted under the terms of this warranty for the balance of the five year life of the original warranty. This warranty is in lieu of all other express warranties.

incidental or consequential damage

Under the terms of these warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties

There are no implied warranties, including merchantability and fitness for a particular purpose, extending beyond the terms of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights, and you may also have other rights, which vary, from state or province to province in Canada.

warranty claims
If there is a manufacturing defect, you must immediately provide written notice of such defect, together with proof of purchase to the flooring contractor from whom the floor was purchased. The flooring contractor must receive this notice within the warranty period from the date of purchase. The flooring contractor will then notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the flooring contractor. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

For more information, please call 1-800-241-2262, or Mannington Commercial Fax On Demand at 1- 800-FLOOR-85 or write to Mannington Resilient Floors, P.O. Box 30, Salem, NJ 08079.

section VI – vinyl composition tile, premium visual tile and slip-retardant tile

vinyl composition tile: essentials / designer essentials
premium visual tile: inspirations / brushwork / colorpoint / solidpoint
slip-retardant tile: safewalks

warranty information
The following warranty applies to all first quality Mannington Commercial Vinyl Composition Tile, Premium Visual Tile or Slip-Retardant Tile products when installed in commercial applications in accordance with the current Mannington Professional Installation Guide.

limited 5-year commercial warranty for manufacturing defects
The Mannington Commercial Vinyl Composition Tile or Premium Visual Tile floor you purchase is guaranteed free from defects resulting from the manufacturing process for a period of five years from the original purchase date. If a defect occurs in your floor, upon verification of the defect, Mannington will authorize repair or replacement of the affected area. Reasonable labor costs, if installed by a professional flooring installer / contractor, will be reimbursed at 100% if the defect is reported within the first year of the original purchase, and at 50% if the defect is reported within the second year of the original purchase. Labor costs will not be reimbursed if the defect is reported within the third, fourth, or fifth year of the original purchase. Mannington's obligations under this warranty are subject to the exclusions stated below.

excluded from limited 5-year commercial warranty
1. Purchase of "Seconds," "Remnants," "Mill Trials" or other "irregular" (non first quality) flooring material, or material not part of, or available in, the regular Mannington product line.
2. Dissatisfaction due to improper installation. Mannington installation instructions are available from your dealer or by calling 1-800-FLOOR-US.
3. Any damage such as burns, stains (including those caused by rubber backed floor mats), cuts, scratches, scuffs, gouges, indentations, including lack of or improper floor protectors and furniture rests; staining caused by tracked-in dyes from carpet, fertilizers, coal, tar, or asphalt driveway sealers or oil drippings; fading or discoloration from prolonged, excessive exposure to sunlight or heat; and damage caused by other abuse or accident.
4. Problems caused by uses and installation contrary to Mannington recommendations.
5. Labor on material installed with obvious defects.
6. Mannington warranties do not cover labor costs on repair or replacement of material which was not originally professionally installed.
7. Loss of gloss or film build-up due to lack of or improper maintenance.
8. Any discoloration or bond failure on Mannington Commercial product resulting from improper adhesive selection or application.
9. Damage from narrow tipped heels.
10. Problems due to moisture, mildew, alkaline substances, or hydrostatic pressure in the underfloor.
11. Color, shade, or embossing deviations from samples or printed color illustrations.

warranty conditions
IMPORTANT NOTICE: All warranties apply to the original user and are not transferable under any conditions. If a Mannington Commercial floor is replaced under warranty, the replacement floor will be an equivalent Mannington Commercial product and will be warranted under the terms of this warranty for the balance of the five year life of the original warranty. This warranty is in lieu of all other express warranties. Mannington warranties do not cover labor costs on any non-professionally installed material. Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause.

incidental or consequential damages
Under the terms of these limited warranties, Mannington will not be liable for indirect, special, incidental, consequential, or other damages of any kind, no matter what the cause. Some states do not allow the exclusion of incidental or consequential damages, so the exclusion in the preceding sentence may not apply to you.

implied warranties

There are no implied warranties, including merchantability and fitness for a particular purpose extending beyond the term of this written warranty. **NOTE:** Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is in lieu of all other express warranties and gives you specific legal rights. You may also have other rights which vary from state to state or province to province in Canada.

warranty claims

If there is a claim under this warranty, you must immediately provide written notice, together with proof of purchase, to the flooring contractor from whom the floor was purchased. This notice must be received by the flooring contractor within five years from the date of purchase. The flooring contractor will notify Mannington's Customer Care (888-673-2274) who will arrange inspection of the floor or review the complaint with the flooring contractor. Should this inspection or review indicate an obligation on the part of Mannington, such obligation will be satisfied through your flooring contractor.

For more information please call 1-800-241-2262 or write to Mannington Resilient Floors, P.O. Box 30, Salem, NJ 08079.

stain test data chart

	Nature's Paths / Nature's Paths Select	ICORE	Mannington Assurance II	Relay	LifeLines II	BioSpec	Fine Fields	Magna	Insight	CustomSpec II	Realities	Essentials Designer Essentials Inspirations / Brushwork ColorPoint / SolidPoint	SafeWalks
BASES													
Ammonium Hydroxid 30%	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonium Hydroxid 10%	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium Hydroxide 15%	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium Hydroxide 50%	0	0	0	0	0	0	0	0	0	0	0	0	0
INORGANIC CHEMICALS													
Copper Sulfate 10%	0	0	0	0	0	0	0	0	0	0	0	0	0
Ferric Chloride	2	0	2	2	2	2	2	0	0	0	0	3	3
Lead Acetate 10%	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver Nitrate	0	0	0	0	0	0	0	0	0	0	0	0	0
ACID REGENTS													
Acetic Acid 28%	0	0	0	0	0	0	0	0	0	0	0	0	0
Acetic Anhydride	0	0	0	0	0	0	0	0	0	1	0	0	0
Boric Acid 4%	0	0	0	0	0	0	0	0	0	0	0	0-S	0-S
Chromic Acid 1%	0	0	0	0	0	0	0	0	0	0	0	0	0
Glacial Acetic Acid	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrocholoric Acid 38%	0	1	0	0	0	0	0	0	0	0	0	0-S	0-S
Hydrocholoric Acid 10%	0	1	0	0	0	0	0	0	0	0	0	0-S	0-S
Nitric Acid 70%	3-S	4	4	4-S	3-S	3-S	3-S	1-S	0	0-S	0	3-S	3-S
Phosphoric Acid 85%	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphuric Acid 98%	3-S	4	4	4-S	3-S	3-S	3-S	2	0	0-S	0	4-S	4-S
Sulphuric Acid 55%	0	3	0	0	0	0	0	0	0	0	0	0	0
HOSPITAL & MISCELLANEOUS STAINS Hospital Stains													
Aniline Blue 2.5%	0	3	0	0	0	0	0	0	2	0	2	2	2
Rhodamine B. Base	3	3	4	4	3	3	3	4	2	0	1	1	1
Basic Fuchsin	4	3	4	4	3	4	4	4	1	0	1	1	1
Betadine-Cleanser	0	0	0	0	0	0	0	0	0	0	0	0	0
Betadine 10%	0	0	0	0	0	0	0	0	0	1	0	0	0
Carbol Fuchsin	4	0	4	4	3	4	4	4	1	1	1	1	1
Eosin	0	0	1	1	0	0	0	0	1	0	0	0	0
Giemsa Bloodstain	1	0	2	2	1	1	1	2	0	0	0	0	0
Hematoxylin	0	0	0	0	0	0	0	0	1	2	0	0	0
Hema 3 Solution 2	0	0	2	2	0	0	0	1	0	0	0	0	0
Iodine	3	0	4	4	2	3	3	4	0	0	0	0	0
Dialysis Solution	0	n/a	0	0	0	0	0	0	0	0	0	0	0
K Permanganate	0	0	0	0	0	0	0	1	0	0	0	0	0
Methylene Blue	0	0	4	4	0	0	0	0	1	0	0	0	0
Povidone-Iodine	0	0	0	0	0	0	0	0	1	0	1	1	1
Wright's Bloodstain	1	0	2	2	1	1	1	2	0	1	0	0	0
Wright-Giemsa	1	n/a	2	2	1	1	1	1	1	2	0	0	0

	Nature's Paths / Nature's Paths Select	ICORE	Mannington Assurance II	Relay	LifeLines II	BioSpec	Fine Fields	Magna	Insight	CustomSpec II	Realities	Essentials Designer Essentials Inspirations / Brushwork ColorPoint / SolidPoint	SafeWalks
MISCELLANEOUS STAINS & REAGENTS Miscellaneous													
Car Grease	0	n/a	0	0	0	0	0	0	0	0	0	0	0
Carbon Paper	0	0	0	0	0	0	0	0	0	0	1	0	0
Clorox Bleach	0	n/a	0	0	0	0	0	0	0	0	0	0	0
Graphite (powdered)	0	0	0	0	0	0	0	0	0	0	1	0	0
Hair Dye (black)	3	0	4	4	3	3	3	4	0	2	4	2	2
Inks: Ball Point Pen	0	n/a	0	0	0	0	0	2	0	0	3	0	0
Inks: India	0	n/a	0	0	0	0	0	0	0	0	0	0	0
Marine Grease	0	0	0	0	0	0	0	0	0	0	0	0	0
White Grease	0	0	0	0	0	0	0	0	0	0	0	0	0
Oils: Crankcase	0	0	0	0	0	0	0	0	0	0	0	0	0
Oils: Exxon Lube	0	n/a	0	0	0	0	0	0	0	0	0	0	0
Oils: SAE = 10	0	n/a	0	0	0	0	0	0	0	0	0	0	0
Oils: Turbo = 5	0	0	0	0	0	0	0	0	0	0	0	0	0
Oils: Used Motor	0	0	0	0	0	0	0	0	0	0	0	0	0
Tar	2	0	1	1	1	2	2	1	0	4	4	4	4
Urine, Synthetic	0	0	0	0	0	0	0	0	0	0	0	0	0
LABORATORY STAINS & REAGENTS Alcohols													
Denatured Alcohol	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopropanol 70% vol	0	0	0	0	0	0	0	0	0	0	0	0	0
Methanol	0	n/a	0	0	0	0	0	0	0	0	0	0	0
ETHERS & ESTERS													
Isoamyl Acetate	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethyl Acetate	0	0	0	0	0	0	0	0	0	0	0	0	0
KETONES & ALDAHYDES													
Acetone	0	0	0	0	0	0	0	0	0	0	0	0	0
Formaldehyde 37%	0	0	0	0	0	0	0	0	0	0	0	0	0
M.E.K.	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORINATED SOLVENTS													
Tricholorethylene	0	0	0	0	0	0	0	0	0	2	0	0	0
HYDROCARBON SOLVENTS													
Benzosol	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0
Kerosene	0	0	0	0	0	0	0	0	0	0	0	0	0
Mineral Spirits	0	0	0	0	0	0	0	0	0	0	0	0	0
Naphtha 68/72	0	0	0	0	0	0	0	0	0	0	0	0	0
Toluol	0	0	0	0	0	0	0	0	0	0	0	0	0
Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0

Samples were tested as manufactured.
All samples were exposed to stains and reagents for 1 hour, then cleaned with cleaning solution.
Stains: 0 = no stain, 1 = trace stain, 2 = slight stain, 3 = moderate stain, 4 = heavy stain, S = softening

recommended use chart

Installed Cost / Sq. Ft. (c)	Nature's Paths / Nature's Paths Select $4.25– $6.35	ICORE $10.00– $12.00	Commercial Hardwood $7.00– $13.00	Mannington Assurance II $4.35– $4.95	Relay $3.70– $4.50	LifeLines II $3.60– $4.30	BioSpec $3.30– $3.95	Fine Fields $2.90– $3.50	Magna Micaflec $2.45– $2.95
Educational I Institutional									
Classrooms	HR	HR	R, O	R	R	R	R	HR	HR
Laboratories	Ri	NRh	NR3	R	HR	HR	HR	R	R
Computer Labs	NR4	NR4	R	NR4	NR4	NR4	NR4	NR4	NR4
Multipurpose Rooms	HR	R	R	R	HR	HR	HR	HR	HR
Cafeterias, Dining Areas (d)	R	R	R	HR	R	R	R	HR	HR
Food Service Areas (d)	R	R	NR3	HRd	Rf	Rf	Rf	Rf	Rf
Dormitory Rooms	R	R	R	R	R	R	R	HR	HR
Locker Rooms (no spikes)	NR3	NR3,i	NR3	NR3	NR3	NR3	NR3	NR3	NR3
Lavatories	NR	HR	NR3	HR	HR	HR	HR	HR	HR
Corridors	HR	R	NRP	HR	HR	HR	HR	HR	HR
Ramps	NR3	NR	NR3	NR	NR	NR	NR	NR	NR3
Utility / Storage Areas	R	R	R	R	R	R	R	R	HR
Dance Studios	R	NR7	R	NR	NR	NR	NR	NR	NR
Light Industrial (e)									
Research Laboratories	Ri	NRh	NR	HR	HR	HR	HR	HR	R
Production Laboratories	Ri	R	NR	R	HR	HR	HR	HR	HR
Clean Rooms	R	NR2,h	NR	R	HR	HR	HR	HR	HR
Small Parts Assembly	R	R	NR	R	HR	HR	HR	HR	HR
Sterile Packaging	R	R	NR	R	HR	HR	HR	HR	R
Photo Processing	R	R	NR	R	HR	HR	HR	HR	HR
Computer Repair Labs	NR4	NR4	NR	NR4	NR4	NR4	NR4	NR4	NR4
Electronic Testing Labs	NR4	NR4	NR	NR4	NR4	NR4	NR4	NR4	NR4
Electronics Manufacturing	NR4	NR4	NR	NR4	NR4	NR4	NR4	NR4	NR4
Hospital / Healthcare (a)									
Patient Rooms	R	R	NR3	R	HR	HR	HR	R,L	R,L
Patient Corridors	HR	HR	NR,P	R	HR	HR	HR	R	R
Operating Rooms (b)	NR1	NR1, 5	NR3	Rh, K	HRh,6	HRh	HRh,6	Rh	NR5
Scrub Rooms	NR1	NR1, 2, 5	NR3	HR	HRh	HRh	HRh	Rfh	Rfh
Emergency Rooms / Areas	R	NR	NR3	R	HR	HR	HR	NR	NR
Procedure Rooms	R	R	NR3	R	HR	HR	HR	HR	R
Laboratories	Ri	NR1	NR3	HR	HR	HR	HR	HR	R
Physical Therapy (f)	HR	R	R	HR	HR	HR	HR	HR	R
Dialysis (f)	NR1	NR2	NR3	R	HR	HR	HR	HR	R
Hyperbaric Rooms	NR4	NR4	NR3	NR4	NR4	NR4	NR4	NR4	NR4
Critical / Intensive Care	R	NR	NR3	R	HR	HR	HR	NR	NR
Ramped Corridors	NR3	NR3	NR3	R	NR3	NR	NR3	NR3	NR3
Utility/Storage Rooms	R	R	R	R	R	R	R	R	R
Assisted Living									
Corridors, Patient Rooms	HR	HR	R,Of	HR	HR	HR	HR	HR	HR
Residence Kitchens (d)	HR	HRd	R	HR	HR	HR	HR	HR	HR
Game / TV Rooms	HR	HR	R	R	HR	HR	HR	HR	HR
Lavatories	NR2	NR	NR3	HR	HR	HR	HR	HR	HR
Retail									
Sales Floors	HR	HR	R,O	R	R	R	R	HR	HR
Checkout / Cash Wrap	HR	HR	NR,P	R	R	R	R	HR	R
Food Service (d)	Rf	NR	NR3	NR	Rf	Rf	Rf	Rf	Rf
Specialty Shops / Areas	HR	HR	R,O	R	HR	HR	HR	HR	R
Produce Areas	NR3	NR3	NR3	HRj	NR3	NR3	NR3	NR3	NR3
Entryways	Rf	HR	NR,P	HRj	Rf	Rf	Rf	Rf	Rf
Frozen Food	HR	R	NR3	R	R	R	R	R	R
Office									
Offices / Conference Rooms	HR	HR	R	R	R	R	R	HR	HR
Computer Rooms	NR4	NR4	R	NR4	NR4	NR4	NR4	NR4	NR4
Corridors	HR	HR	NR,P	R	R	HR	R	HR	HR
Lobbies	HR	HR	R,f	HR	R	R	R	HR	HR
Elevators	HR	R	NR	R	HR	HR	HR	HR	R
Vestibules / Entryways	Rf	HR	NR,P	HR	Rf	Rf	Rf	Rf	Rf
Lunchrooms (d)	HR	HR	R,O,Q	HR	R	R	R	HR	HR
Utility / Storage Rooms	R	HR	R	R	R	R	R	R	R
Lavatories	NR2	NR	NR3	HR	HR	HR	HR	HR	HR
Hospitality									
Vestibules / Entryways	Rf	HR	R	HR,k	Rf	Rf	Rf	Rf	Rf
Lobbies	HR	HR	R	R	HR	R	HR	HR	HR
Elevators	HR	R	NR,O	R	HR	HR	HR	HR	R
Dining Rooms (d)	HR	HR	R,O	HR	HR	R	HR	HR	HR
Corridors	HR	HR	NR3	R	HR	R	HR	HR	HR
Hospitality Rooms	HR	HR	R	R	HR	R	HR	HR	HR
Lavatories	NR2	NR	NR3	HR	HR	HR	HR	HR	HR
Lounges	HR	HR	R,O	R	HR	R	HR	HR	HR
Indoor Pool / Spa Decks	NR3	NR2, 3	NR3	R	NR3	NR3	NR3	NR3	NR3

Magna Multiflec $2.30– $2.80	Insight $2.55– $3.20	CustomSpec II $2.30– $3.05	Realities $3.70– $4.40	Essentials/ Designer Essentials $1.30– $1.95	Inspirations/ Brushwork ColorPoint/SolidPoint $1.65– $2.95	SafeWalks $1.95– $3.25
HR	R	R	R	HR	HR	R
R	NR1	NR1	HR	Ri	Ri	R
NR4	NR4	NR4	NR4	NR4	NR4	NR4
HR	R	R	HR	R	R	R
HR	R	R	HR	R	R	HR
Rf	Rf	Rf	R	Rf	Rf	HRd
HR	HR	R	HR	R	R	R
NR3	NR	NR	NR	NR	NR	HR
R	R	R	HR	R	R	HR
HR	HR	HR	HR	HR	HR	HR
NR3	NR3	NR3	NR3	NR3	NR3	NR
HR	R	R	R	HR	HR	R
NR	NR	NR	NR	NR	NR	NR
R	NRi	NRi	HR	Ri	Ri	HR
HR	NRi	NRi	HR	Ri	Ri	R
HR	R	R	HR	R	R	R
HR	R	R	HR	R	R	R
R	R	R	HR	R	R	R
HR	R	R	HR	R	R	R
NR4	NR4	NR4	NR4	NR4	NR4	NR4
NR4	NR4	NR4	NR4	NR4	NR4	NR4
NR4	NR4	NR4	NR4	NR4	NR4	NR4
R,L	NR	NR	HR	R	R	R
R	NR	NR	HR	R	R	R
NR5	NR1	NR1	NR	NR1	NR1	Rh, K,8
Rfh	NR1	NR1	HR	NR1	NR1	HR
NR	NR1	NR1	HR	R	R	R
R	NR1	NR1	HR	R	R	R
R	NR1	NR1	HR	Ri	Ri	HR
R	NR	NR	HR	HR	HR	HR
R	NR2	NR2	HR	NR2	NR2	R
NR4	NR4	NR4	NR4	NR4	NR4	NR4
NR	NR1	NR1	HR	R	R	R
NR3	NR3	NR3	NR3	NR3	NR3	R
R	R	R	R	R	R	R
HR	R	R	HR	HR	HR	HR
HR	HR	HR	Rd	R	R	HR
HR	HR	HR	HR	HR	HR	R
HR	HR	HR	HR	R	R	HR
HR	R	R	R	HR	HR	R
R	R	R	R	HR	HR	R
Rf	Rf	Rf	Rf	Rf	Rf	NR
R	R	R	R	HR	HR	R
NR3	NR3	NR3	NR3	NR3	NR3	HRj
Rf	NR3	NR3	Rf	Rf	Rf	HRj
R	NR	NR	R	HR	HR	R
HR	HR	HR	R	R	R	R
NR4	NR4	NR4	NR4	NR4	NR4	NR4
HR	HR	R	R	R	R	R
HR	R	R	R	R	R	HR
R	R	R	HR	R	R	R
Rf	NR3	NR3	Rf	Rf	Rf	HR
HR	R	R	R	R	R	HR
R	R	R	R	HR	HR	R
HR	R	R	HR	R	R	HR
Rf	NR3	NR3	Rf	Rf	Rf	HR,k
HR	R	R	HR	HR	HR	R
R	R	R	HR	R	R	R
HR	R	R	HR	R	R	HR
HR	R	R	HR	R	HR	R
HR	R	R	HR	R	R	R
HR	R	R	HR	R	R	HR
HR	R	R	HR	R	R	R
NR3	NR3	NR3	NR3	NR3	NR3	R,8

Each of the following classifications–**HR** (Highly Recommended), **R** (Recommended), and **NR** (Not Recommended) are based on performance, cost, and the design criteria of the space—not solely on performance.

HR: Highly Recommended–An excellent floor for the space.
R: Recommended–Other floors may be better suited.
NR: Not Recommended–Should not be used in this space.

The following code explains why a floor receives an NR recommendation:

1. Aseptic Area–Hygienic conditions are extremely important.
2. Water Resistance–Wet area installation is necessitated (flash covering, sealed seams).
3. Slip Retardance–A more secure surface is dictated.
4. Static control flooring normally called for in this area.
5. Required maintenance not practiced in this area.
6. Low Contrast (LC) colors available.
7. iCORE will wear down the taps used in tap dancing, creating an airborne dust.

NOTES:

a. In most cases, veterinary applications are similar.
b. Only use in operating rooms not requiring conductive flooring.
c. Prices are estimates. Actual prices vary. Such elements as competitive bids, labor costs, and job conditions will affect final price. Estimated prices include materials and labor on a 500 square foot (46.45 square meter) open-area, void of special cutting needs.
d. Mannington Resilient Floors are not recommended for commercial kitchens.
e. Mannington Resilient Floors are not recommended for heavy industrial areas.
f. No standing water; non-staining entryway systems required.
h. Heat weld only.
i. Not recommended in laboratories that require special decontamination procedures on surfaces, including floors.
j. For areas where there can be significant exposure to trafficked dirt and debris, it is recommended that 1–2 coats of a high quality finish be utilized to minimize the risk of ground in trafficked grime.
k. Higher level of maintenance may be required versus smooth surface floors.
l. Hospital beds must use flat, minimum 1" wide casters.
m. V-95 adhesive required under hospital beds and heavy rolling loads.
n. Polish may be required.
o. All furniture must have floor protectors. Casters must be clean and operate properly (minimum 1" width).
p. High traffic area.
q. Food and beverage must be cleaned immediately. No standing water.

NOTE: Mannington Resilient floors are not recommended for exterior use or where golf or track shoes are present.

NOTE: Mannington Resilient Floors are not suitable as wall covering or wall surfacing. All Mannington Commercial sheet floors can be flash covered (integral cove). Most building codes consider flash covering in the same category as baseboard trim when applied to fire coding. Consult fire codes in your area to determine allowable height for flash cove.

specifications comparison chart

Mannington Commercial Brand	Overall Thickness (nominal)	Wearlayer (nominal)	Static Load Limit PS1	Width
Nature's Paths Luxury Vinyl Tile	.100" (25mm)	.020" (0.51mm)	750	16" x 16" (406 mm x 406 mm)
Nature's Paths Luxury Vinyl Plank	.100" (25mm)	.020" (0.51mm)	750	3" x 36" (76.2 mm x 914.5 mm) 4" x 36" (101.5 mm x 914.5 mm) 6" x 36" (152.5 mm x 914.5 mm)
Nature's Paths Select Luxury Vinyl Tile	.100" (25mm)	.020" (0.51mm)	750	18" x 18" (457.2 mm x 457.2 mm)
Nature's Paths Select Luxury Vinyl Plank	.100" (25mm)	.020" (0.51mm)	750	3" x 12", 24", 36", 48" multiple lengths (76.2 mm x 305 mm, 610 mm, 914.5 mm, 1,219 mm) 5" x 48" (127 mm x 1,219.2 mm) 7" x 48" (177.8 mm x 1,219.2 mm)
ICORE Advanced composite	.470" (Installed thickness with Hush Underlayment)	commercial grade melamine with aluminum oxide	1500	5" x 72" (127mm x 1829mm)
Prestige Commercial Hardwood	.5" or .625" (style dependent) (12.7mm, 14.3mm)	UltraWear™ Plus with Scratch Resist™ 8-step UV cured urethane aluminum oxide finish	style dependent	3", 5" (style dependent) (7.6cm, 12.7cm)
Legacy Commercial Hardwood	.5" or .625" (style dependent) (12.7mm, 14.3mm)	UltraWear™ Plus with Scratch Resist™ 8-step UV cured urethane aluminum oxide finish	style dependent	5" (12.7cm)
Mannington Assurance II Slip Retardant Sheet	.080" (2.03mm)	.080" (2.03mm)	750	6' (1.83m)
Relay	.080" (2.03mm)	.080" (2.03mm)	750	6' (1.83m)
LifeLines II Homogeneous Inlaid	.080" (2.03mm)	.080" (2.03mm)	750	6' (1.83m)
BioSpec Homogeneous Inlaid	.080" (2.03mm)	.080" (2.03mm)	750	6' (1.83m)
Fine Fields Inlaid	.080" (2.03mm)	.066" (1.67mm)	500	6' (1.83m)
Magna Inlaid	.080" (2.03mm)	.055" (1.39mm)	500	6' (1.83m)
Insight Heterogeneous Light	.080" (2.03mm)	.020" (.51mm)	175	12' (3.66 m)
CustomSpec II Heterogeneous Light	.080" (2.03mm)	.020" (.51mm)	175	12' (3.66 m)
Realities Heterogeneous	.080" (2.03mm)	.020" (.51mm)	750	6', 9', 12' (1.83m, 2.75m, 3.66m)
Essentials Designer Essentials Vinyl Composition Tile	.125" (3.18mm)	.125" (3.18mm)	125	12" x 12" (305mm x 305mm)
Brushwork Solid Point ColorPoint Inspirations Premium Visual Tile	.125" (3.18mm)	.125" (3.18mm)	125	12" x 12" (305mm x 305mm)
SafeWalks Slip Retardant Tile	.125" (3.18mm)	.125" (3.18mm)	125	12" x 12" (305mm x 305mm)

1. Listed overall thicknesses as well as wearlayer thicknesses are nominal and subject to variances within referenced specifications.
2. Fire Test Data: A) ASTM E-648 Flooring Radiant Panel Critical Radiant Flux = 0.45 watts / sq. cm^2
   B) ASTM E-662 Smoke Chamber Specific Optical Smoke Density. Numerical flammability ratings are provided only for use in product selection. They may not reflect performance under real-life fire conditions.
3. Heat Weld is preferred method for healthcare and high traffic areas.
4. For commercial wood, the smoke value is taken from E-84 which rates the product as a Class C with a smoke value of less than 450.

Mannington Adhesive	Mannington Seam Sealer	Mannington Weld Rod	Reference Specifications	ASTM E-648 0.45 WATTS/ CM2 or More CLASS 1[2A]	ASTM E-662 450 or Less[2B]
V-82 Porous V-95 Non Porous	N/A	N/A	ASTM F-1700	Yes	Yes
V-82 Porous V-95 Non Porous	N/A	N/A	ASTM F-1700	Yes	Yes
V-82 Porous V-95 Non Porous	N/A	N/A	ASTM F-1700	Yes	Yes
V-82 Porous V-95 Non Porous	N/A	N/A	ASTM F-1700	Yes	Yes
N/A (free floating)	CoreWeld™	N/A	NALFA LF01-2003	Yes	Yes
Glue method requires Ultra Spread adhesive. Other options include: nail, staple or float (style dependent).	N/A	N/A	N/A	Yes	ASTM E-84 (4)
Glue method requires Ultra Spread adhesive. Other options include: nail, staple or float (style dependent).	N/A	N/A	N/A	Yes	ASTM E-84 (4)
V-82 Porous V-95 Non Porous	MLG-33 (3)	Solid Color	ASTM F-1913	Yes	Yes
V-82 Porous V-95 Non Porous	MCS 42 (3) Applicator Kit	Solid Color	ASTM F-1913	Yes	Yes
V-82 Porous V-95 Non Porous	MCS 42 (3) Applicator Kit	Solid Color	ASTM F-1913	Yes	Yes
V-82 Porous V-95 Non Porous	MCS 42 (3) Applicator Kit	Solid or Camouflage Color	ASTM F-1913	Yes	Yes
V-81	MCS 42 (3) Applicator Kit	Solid or Camouflage Color	ASTM F-1303	Yes	Yes
V-81	MCS 42 (3) Applicator Kit	Solid Color	ASTM F-1303	Yes	Yes
V-81	MCS 42 (3) Applicator Kit	N/A	ASTM F-1303	Yes	Yes
V-81	MCS 42 (3) Applicator Kit	N/A	ASTM F-1303	Yes	Yes
V-82 Porous V-95 Non Porous	MLG-33	Solid Color	ASTM F-1303	Yes	Yes
V-11	N/A	N/A	ASTM F-1066	Yes	Yes
V-11	N/A	N/A	ASTM F-1066	Yes	Yes
V-11	N/A	N/A	ASTM F-1066	Yes	Yes

weld rod color match up chart

mannington commercial solid and camouflage heat weld rods
Mannington Commercial solid and camouflage-color heat-weld rods are designed to be used in conjunction with Mannington Homogeneous Inlaid and Heterogeneous commercial sheet flooring products. Mannington camouflage-color weld rods can be used with Fine Fields or BioSpec products to create the look of continuous flooring by minimizing the appearance of the seam. The solid and camouflage welding rods are 4 mm in diameter, and can be used with all commercially available heat-welding equipment designed for use on PVC floor coverings.

LifeLines II

Product #	Rod #
13200	842316
13201	842310
13202	842322
13204	842353
13205	842354
13206	842326
13208	842327
13209	842349
13400	842366
13401	842381
13402	842382
13403	842383
13406	842368
13407	842316
13600	842317
13601	842367
13602	842356
13603	842335
13604	842362
13607	842387
13608	842388
13609	842332
13800	842372
13801	842322
13802	842367
13804	842309
13805	842326

Magna

Product #	Rod #
18000	842310
18001	842317
18002	842332
18003	842322
18004	842361
18005	842357
18006	842349
18007	842326
18008	842362
18009	842327
18010	842354
18011	842364
18012	842336
18013	842309
18014	842365
18015	842363
19000	842366
19001	842360
19002	842367
19003	842370
19004	842368
19005	842369
19006	842347
19007	842334
19008	842353
19009	842324
19010	842352

Fine Fields

Product #	Rod #/ Camo Rod #
10101	842322/ 415101
10102	842309/ 415102
10103	842354/ 415103
10112	842326/ 415112
10128	842332/ 415128
10129	842342/ 415129
10133	842336/ 415133
10134	842335/ 415134
10135	842334/ 415135
10137	842339/ 415137
10140	842311/ 415140
10145	842371/ 415145
10146	842372/ 415146
10148	842367/ 415148
10149	842374/ 415149
10159	842396/ 415159
10162	842405/ 415162
10164	842361/ 415164
10165	842317/ 415165
10168	842352/ 415168
10175	842333/ 415175
10177	842346/ 415177

BioSpec

Product #	Rod # / Camo Rod #
15101	842322/ 415101
15102	842309/ 415102
15103	842354/ 415103
15112	842326/ 415112
15128	842332/ 415128
15129	842342/ 415129
15131	842338/ 415131
15133	842336/ 415133
15134	842335/ 415134
15135	842334/ 415135
15137	842339/ 415137
15140	842311/ 415140
15145	842371/ 415145
15146	842372/ 415146
15148	842367/ 415148
15149	842374/ 415149
15154	842416/ 415154
15155	842417/ 415155
15156	842414/ 415156
15157	842398/ 415157
15158	842397/ 415158
15159	842396/ 415159
15160	842410/ 415160
15161	842406/ 415161
15162	842405/ 415162
15163	842399/ 415163
15164	842361/ 415164
15165	842317/ 415165
15166	842400/ 415166
15167	842408/ 415167
15168	842352/ 415168
15169	842407/ 415169
15170	842413/ 415170
15171	842401/ 415171
15172	842402/ 415172
15173	842411/ 415173
15174	842384/ 415174
15175	842333/ 415175
15176	842412/ 415176
15177	842346/ 415177
15178	842409/ 415178
15179	842403/ 415179
15180	842404/ 415180
15181	842415/ 415181
15182	842424

Relay

Product #	Rod #
22001	842371
22002	842381
22003	842420
22004	842335
22005	842334
22006	842419
22007	842368
22008	842352
22009	842366
22010	842421
22011	842324
22012	842332
22013	842404
22014	842418
22015	842413
22016	842409

Mannington Assurance II

Product #	Rod #
16301	842353
16302	842316
16303	842358
16304	842354
16305	842356
16306	842336
16307	842357
16308	842349
16309	842348
16311	842359
16313	842333
16314	842326
16315	842334
16318	842339
16319	842408
16320	842401
16321	842411
16322	842414
16323	842409
16324	842402
16325	842407
16326	842393
16327	842366
16328	842352
16329	842417
16330	842416
16331	842413

Realities

5601	842395
5602	842393
5603	842387
5804	842347
5611	842347
5612	842392
5613	842392
5614	842393
5621	842394
5622	842343
5623	842393
5624	842392
5625	842395
5631	842422
5632	842422
5633	842423
5634	842397
5635	842356
5641	842395
5642	842395

Weld rod is available in 165 lineal feet (49.5 m) spools

solid color heat weld rods


842309 842310 842311 842314 842316 842317 842322 842324


842326 842327 842332 842333 842334 842335 842336 842338


842339 842342 842343 842346 842347 842348 842349 842352


842353 842354 842356 842357 842358 842359 842360 842361


842362 842363 842364 842365 842366 842367 842368 842369


842370 842371 842372 842374 842376 842377 842378 842379


842380 842381 842382 842383 842384 842385 842386 842387


842388 842389 842390 842391 842392 842393 842394 842395


842396 842397 842398 842399 842400 842401 842402 842403


842404 842405 842406 842407 842408 842409 842410 842411


842412 842413 842414 842415 842416 842417 842422 842423


842424

camouflage color heat weld rods


415101 415102 415103 415112 415128 415129 415131 415133


415134 415135 415137 415140 415145 415146 415149 415154


415155 415156 415157 415158 415159 415160 415161 415162


415163 415164 415165 415166 415167 415168 415169 415170


415171 415172 415173 415174 415175 415176 415177 415178


415179 415180 415181

■ notes