The Discovery Collection

Mannington COMMERCIAL

Cover: Encounter - Fortuity DC103, **Mannington Select Plank Chatham Oak** - Alpine MSC140
Above: Unlock - Luck DC202

Reveal - Serendipity DC305

QUANTUM GUARD® *elite*

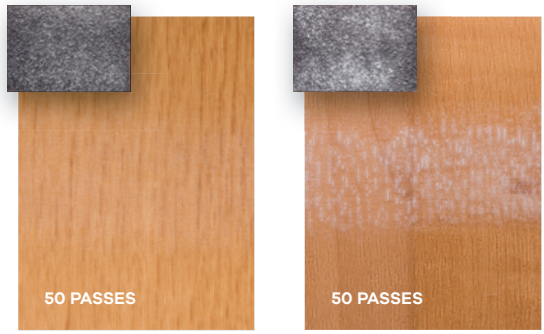
Success Is in Our Science

Introducing Quantum Guard Elite, the patent-pending technology that provides the complete performance solution for resilient sheet flooring.

- Engineered for ease of cleaning and reduced maintenance costs
- Highest abrasion resistance in the industry
- Advanced stain resistance
- Excellent slip resistance

Best-in Class Abrasion Resistance

Quantum Guard Elite | Leading Competitor



Our proprietary blend of aluminum oxide particles is suspended evenly through the urethane top coat, giving the industry's best abrasion resistance. *(Results after 50 passes with sanding block.)*

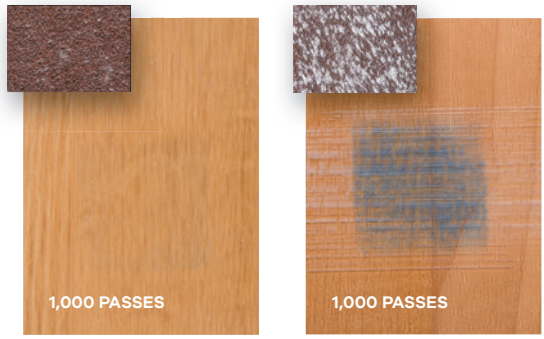
Cleans better than competitors

Quantum Guard Elite | Leading Competitor

Advanced urethane chemistry and an optimized texture make resilient sheet with Quantum Guard Elite easy to clean. *(Results after 10 passes with a wet microfiber mop on soiled floor.)*

Stain Resistance that Endures

Quantum Guard Elite | Leading Competitor



With new protective compounds from the aerospace industry and dentistry, Quantum Guard Elite's stain resistance performs over time at the same high level as the day it was installed. *(Results after 1,000 passes with a sanding block, staining with a blue Sharpie and cleaning with an alcohol wipe.)*

Warranted to Work

Products with Quantum Guard Elite feature our Limited Quantum Guard Elite Wear Warranty and Limited Commercial Warranty.

Mannington COMMERCIAL

The Discovery Collection

Style	Encounter, Reveal & Unlock
Construction	Heterogeneous Sheet (Non-ortho phthalate construction)
Classification	ASTM 1303 - Type 1, Grade 1, Class B
Total Thickness	.080" (2.03 mm)
Wear Layer Thickness	.020" (.51 mm)
Finish	Quantum Guard® Elite
Width	6' (1.83 m), 9' (2.75 m) 12' (3.66 m)
Colors	6 each style
Pattern Repeat	36" L x 72" W
Packaging	6' - 30-50 sq.yd. (25.0-41.8 sq.m) 9' - 30-75 sq.yd. (25.0-62.7 sq.m) 12' - 30-100 sq.yd. (25.0-83.6 sq.m)
Weight	4.90 lbs./sq.yd. (2.66 kg/sq.m)
Adhesive	**Porous & Non-Porous Substrates**: **V-88** Full Spread, Transitional Pressure Sensitive, High Moisture **V-95** Full Spread 2-part Epoxy **XpressStep** for LVT & Sheet Vinyl, Full Coverage Spray **Porous Substrates Only:** **V-82** Full Spread **Note:** Must use V-95 or XpressStep for LVT & Sheet Vinyl adhesive under hospital beds and heavy rolling load areas. Use V-95 in Operating Rooms or where higher risk of topical moisture would be a concern.
Seam Method	Mannington Commercial Weld Rods or MLG-33 Chemical Seam Sealer. Mannington Seam Coater Pen for high traffic areas. Note: Heat welding is the recommended procedure for healthcare and high traffic applications.

Testing	
HUD/FHA	Meets or exceeds
ADAG (American Disability Act Guidelines)	Passes
Flexibility (ASTM F137)	Passes - ¼" No Crack/Break
Static Load (ASTM F970)	Passes - Resid. Indent ≤ 0.005 in.
Static Load (ASTM F970 mod.)	Passes - 2,000 PSI; Resid. Indent ≤ 0.005 in.
Rolling Resistance/Castor Chair (ISO 4918)	25,000 Cycles, No Significant Change
Short Term Residual Indentation (ASTM F1914 / F1303)	Passes - Must Be ≤ 0.012 in.
Flooring Radiant Panel (ASTM E648)	Passes - Class 1; ≥ 0.45 watts/cm^2
Smoke Density (ASTM E662)	Passes - ≤ 450
Slip Resistance (ASTM C1028, Dry)	Passes - ≥ 0.5 Leather; 0.6 Rubber
Acoustic IIC (ASTM E492)	50 - 6" Concrete with Drop Ceiling
Acoustic STC (ASTM E90)	63 - 6" Concrete with Drop Ceiling
Resistance to Light (ASTM F1515)	Passes - < 8 Delta E Color Change
Chemical Resistance (ASTM F925)	Passes - No More Than Slight Change
Resistance to Heat (ASTM F1514)	Passes - < 8 Delta E Color Change
Resistance to Mold/Mildew (ASTM G21 / E2180)	Passes - No More Than Slight Change

Environmental Data	
Indoor Air Quality	FloorScore Certified; CDPH v1.1-2010
Product Declarations	EPD
LEED Scoreboard	May contribute to LEED Credits LEED 2009: MRc5 Regional Material; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEEDv4: Building Product Disclosure & Optimization - EPDs; IEQc2 - Low Emitting Materials
mindful Materials	Visit mM Origin website, mindfulmaterials.origin.build, for current transparency information
Manufacturing	Salem, NJ (USA) - ISO 14001 EMS Registered

Warranty	
	Limited 10 Year Commercial Warranty Limited 10 Year Quantum Guard® Elite Wear Warranty

Note: Visual / Color variations can occur from roll to roll. This variation does not affect product performance.