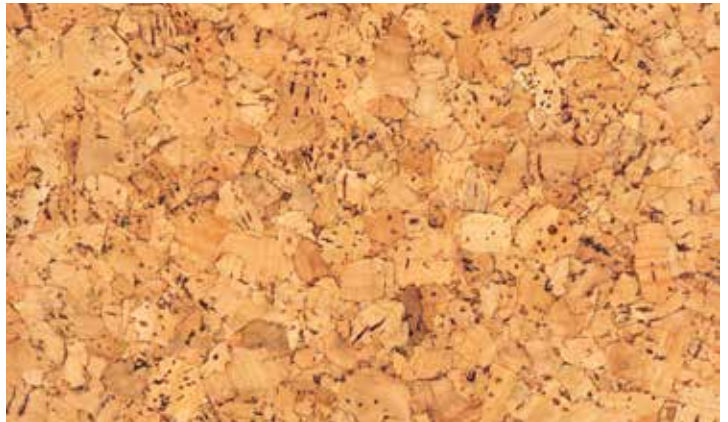
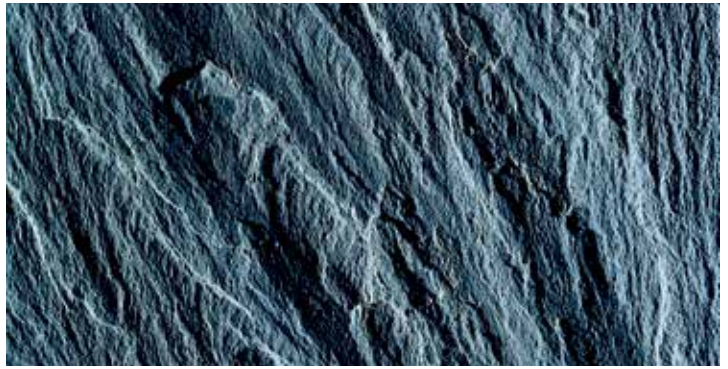


ENTWINED



MANNINGTON
COMMERCIAL

ENTWINED



Abstracted naturals. Organic movement. In a resilient sheet.

Building upon the success of the Entwined Carpet Collection (Gold Nightingale Award, 2015), Entwined heterogeneous resilient sheet is a new collection based on artistic interpretations of naturally occurring materials. Mannington's design team sketched and painted stylized explorations of bamboo, stones, cork, sedimentary rock, and other materials. The resulting patterns—Suber, Rosin, Burlap, and Lino—use pattern and texture to hint at the movement, power, and beauty on display throughout the natural world.



Cover: BURLAP - Oyster ETW204, SUBER - Munsell ETW456

Above: SUBER - Sedge ETW451, MOSO CARPET - Acorn 84334







ROSIN - Stone ETW303, LINO - Hull ETW102



LINO - Alfalfa ETW100



ROSIN - Alfalfa ETW300



BURLAP - Alfalfa ETW200



SUBER - Sedge ETW451

ENTWINED COLLECTION - COMPANION CARPET PRODUCTS



Husk



Moso









Ramie






PERFORMANCE AND FEATURES

	<p>AVAILABLE SIZES</p>	<p>Available in multiple widths – 6’, 9’, and 12’ – resulting in less waste, fewer seams, and greater ease of installation.</p>
	<p>WARRANTY</p>	<p>This product is backed by our Limited 10 Year Commercial Warranty and Limited 10 Year Quantum Guard® HP Wear Warranty.</p>
	<p>QUANTUM GUARD® HP</p>	<p>The highest performance commercial urethane finish in the industry. The patented aluminum oxide proprietary wear layer eliminates the need for polish, while enhancing durability, cleanability, appearance retention and slip retardance when compared to standard resilient floors – resulting in 39% annual savings in maintenance costs.</p>

SUSTAINABILITY











	<p>ENERGY LEADERSHIP</p>	<p>With one of the largest solar arrays in the flooring industry (3.3 acres in Salem NJ) and ambitious goals to improve energy efficiency by 25% over ten years, we have an ongoing partnership with the Department of Energy to lead manufacturing into smarter energy use, as well as to reduce related carbon emissions.</p>
	<p>WATER REDUCTION</p>	<p>Water is a precious natural resource and a key component in manufacturing. By investing in technology and a continual emphasis on efficiency and lean manufacturing, we have reduced our water use by more than 35% since 2007. We also actively help protect wetlands in the communities where we make flooring.</p>
	<p>SOLAR ARRAY</p>	<p>At 3.3 acres, we have one of the largest solar arrays in the flooring industry, generating 1,000,000 kilowatt hours annually.</p>
	<p>US MANUFACTURING</p>	<p>Mannington is a fourth generation, family-owned company deeply committed to U.S. manufacturing. We make flooring in seven communities across the U.S., allowing us to provide the highest levels of service and quality in the industry, while supporting local economies and crafting quality, American-made products.</p>
	<p>ISO 14001</p>	<p>ISO 14001 is a global environmental standard that provides a system for continual improvement in environmental performance.</p>
	<p>3RD PARTY CERTIFICATIONS</p>	<p>Certifications help navigate the world of green marketing claims. So we invest in ISO-14001 and environmentally preferable product certifications including NSF/ANSI-140, NSF/ANSI-332, FloorScore, and Green Label Plus. All of our products may contribute to multiple LEED and Green Globe credits.</p>

SUSTAINABILITY

 <p>ENVIRONMENTAL PRODUCT DECLARATION</p>		<p>EPDs communicate the comprehensive life cycle assessment of a product's environmental impact and facilitate transparency. Our EPDs conform to international standards and are 3rd party verified by ThinkStep and Underwriters Laboratory.</p>
 <p>PURPLE MARTINS</p>		<p>In the mid-1980s, we began attracting migrating birds called Purple Martins to our New Jersey manufacturing campus as a more natural alternative to the use of pesticides. This "Purple Martin Project" has proven to be an incredibly environmentally friendly and cost effective way to control insects. Our employees are engaged in the banding and tracking of the birds.</p>
 <p>HONEYBEES</p>		<p>In 2009, as part of an effort to show how an industrial enterprise can coexist with the agricultural & farming community and positively contribute to both, Mannington's New Jersey corporate site began to house honeybees. We now have 5 hives in Salem, NJ and 4 in Eustis, FL. The honeybees are thriving and each year we are able to enjoy and share the honey produced.</p>
 <p>CE MARK</p>		<p>Certifies that a product has met EU health, safety, and environmental requirements, which ensure consumer safety. Manufacturers in the European Union (EU) and abroad must meet CE marking requirements where applicable in order to market their products in Europe.</p>
 <p>CLIMATE REGISTRY</p>		<p>Mannington is dedicated to reducing our greenhouse gas emissions by 25% over 10 years. Since 2007, a 10% reduction can be attributed to energy efficiencies, process efficiencies, and use of renewable energy. Additional information can be found on the climateregistry.org.</p>



SPECIFICATIONS

	CONSTRUCTION	Heterogeneous Sheet (Non-Phthalate Construction)
	AVAILABLE SIZES	Available in 6' (1.83 m), 9' (2.75 m), 12' (3.66 m)
	OVERALL THICKNESS	.080" (2.03 mm)
	WEAR LAYER THICKNESS	.020" (.51 mm)
	WEIGHT PER SQUARE YARD	4.70 lbs/yd ² (2.55 kg/m ²)
	SQUARE YARD PER ROLL (MIN-MAX)	6': 30 - 50 sq. yds. (25.0 - 41.8 sq. m.) 9': 30 - 75 sq. yds. (25.0 - 62.7 sq. m) 12': 30 - 100 sq. yds. (25.0 - 83.6 sq. m)
	3RD PARTY CERTIFICATIONS	FloorScore, Industry wide 3rd party Type III EPD (Environmental Product Declaration)
	WARRANTY	This product is backed by our Limited 10 Year Commercial Warranty and Limited 10 Year Quantum Guard® HP Wear Warranty.
	LEED	Mannington Commercial products may contribute to multiple LEED credits.
	US MANUFACTURING	Mannington is a fourth generation, family-owned company deeply committed to U.S. manufacturing. We make flooring in seven communities across the U.S., allowing us to provide the highest levels of service and quality in the industry, while supporting local economies and crafting quality, American-made products.
	STATIC LOAD LIMIT	750 PSI
	SPECIFICATION (ASTM F1303)	Type 1, Grade 1, Class B
	HUD/FHA REQUIREMENTS	Exceeds
	AMERICANS WITH DISABILITIES ACT GUIDELINES (ADAG)	Meets or exceeds ADA Guidelines
	COEFFICIENT OF FRICTION (COF)	≥ 0.5 Leather; 0.6 Rubber
	FLOORING RADIANT PANEL (ASTM E648)	≥ .45 watts/cm ² , Passes (Class I)
	N.B.S. SMOKE CHAMBER (ASTM E662)	< 450, Passes
	INSTALLATION ADHESIVE	<p>Porous and Non-Porous Substrates V-88 8 lbs. MVER (ASTM F 1869) / 90% RH (ASTMF2170) Full Spread, Transitional Pressure Sensitive, High Moisture</p> <p>Porous and Non-Porous Substrates XpressStep for Sheet Vinyl 8 lbs. MVER (ASTM F 1869) / 90% RH (ASTM F2170) Spray Full Coverage, High Moisture</p> <p>Porous and Non-Porous Substrates V-95 3 lbs. MVER (ASTM F 1869) / 75% RH (ASTM F2170) Full Spread 2 part Epoxy</p> <p>Porous Substrates V-82 3 lbs. MVER (ASTM F 1869) / 75% RH (ASTM F2170) Full Spread</p> <p>Note: Must use V-95 or XpressStep for Sheet adhesive under hospital beds and heavy rolling load areas. Use V-95 for areas where higher risk of topical moisture would be a concern.</p>
	SEAM METHOD	<p>Mannington Commercial Solid Weld Rods or MLG-33 Chemical Seam Sealer</p> <p>Mannington Seam Coater Pen for high traffic areas</p> <p>Note: Heat welding is the recommended procedure for healthcare and high traffic applications.</p>

Floor designs copyrighted by Mannington Mills, Inc 2014. For complete specifications, visit manningtoncommercial.com
 *Visual / Color variations can occur from roll to roll. This variation does not affect product performance.



MANNINGTON
COMMERCIAL