

# Cross Section 2

P/5830

<b>Manufacturing</b>	
<b>ISO 14001 Certified</b>	Milliken's Environmental Management System is deployed in all global manufacturing facilities. Each facility is certified to ISO 14001 through third party auditors. This system assures continual improvement and monitoring of all key environmental impact categories and processes.
<b>OSHA VPP Sites</b>	The Voluntary Protection Program (VPP) promotes effective worksite-based safety and health. In the VPP, management, labor, and OSHA establish cooperative relationships at workplaces to implement a comprehensive safety and health management system. OSHA VPP approval indicates official recognition of the outstanding efforts of employers and employees who have achieved exemplary occupational safety and health. All Milliken U.S. manufacturing locations are OSHA VPP sites.
<b>Corporate Social Responsibility Actions</b>	
<b>Carbon Negative Status</b>	Carbon is one of the leading contributors to greenhouse Gas (GHG) emissions. Milliken achieves carbon negative certification from the respected Leonardo Academy without purchased Renewable Energy Credits based on renewable energy, carbon sequestration and energy reduction.
<b>ECO 360</b>	Eco 360 is Milliken's brand for sustainable products that meet rigid manufacturing standards with DfE and LCA protocols. It applies to all carpet collections.
<b>Ecountability</b>	Milliken has applied strict resource conservation guidelines to all operations for more than a century. These guidelines and sustainable policies are the foundation of our Milliken & Company Sustainability Process.
<b>EPA Partnerships</b>	The U.S. Environmental Protection Agency regulates, protects and educates concerning the environment. It offers many partnership opportunities for business to measure and reduce environmental impacts. Milliken participates in with SmartWay® and Landfill Methane Outreach Program (LMOP).
<b>Green Energy</b>	Conventional energy sources like oil, coal and natural gas are being replaced by greener sources like wind, solar and water. Milliken seeks renewable energy to meet its needs using methane and hydropower.
<b>Reduced Packaging</b>	Reduced packaging lowers waste and associated costs related to energy and transportation. Working with customers Milliken has saved more than 90 million pounds of cardboard by shipping modular carpet on pallets versus boxes, reducing packaging 91% since 1991.
<b>Reduced Environmental Footprint</b>	The amount of depletable raw materials and nonrenewable resources consumed to make products, added to the wastes and emissions generated in the process determine an organization's environmental impact or footprint. Through conservation and efficiency Milliken & Company has reduced its global eco-footprint 48% over the last 15 years. The Floor Covering Division has reduced its global eco-footprint by 85% during the same period.
<b>Trees for All</b>	Trees have long been a passion for Milliken & Company. This initiative educates the supply chain, enhances communities, and reduces GHG impacts for future generations via tree planting; partnering to nurture trees; adding shade for playground safety; and recognizing sustainable actions.
<b>Zero Waste</b>	All Milliken plants operate with a goal of 100% diversion or zero waste to landfill. The company has maintained zero waste from U.S. carpet manufacturing since 1999.



Certifications	
<b>Carbon Neutral</b>	Milliken professionally managed forests sequester more carbon dioxide than our facilities emit worldwide. All carpet collections are certified carbon neutral by the Leonardo Academy without purchased credits.
<b>CRI Green Label Plus</b>	CRI's Green Label Plus program for carpet and adhesives sets scientifically based standards for Indoor Air Quality (IAQ) to ensure that customers are purchasing low emitting products. All Milliken carpets meet the criteria for Green Label Plus certification. More than 90 percent of Milliken products are rated for "Severe Wear" (highest rating for appearance retention) by the Carpet and Rug Institute.
<b>NSF 140 – 2007e</b>	The ANSI/NSF 140-2007 Sustainable Carpet Assessment (NSF-140) is intended for commercial, hospitality, and similar carpets. Reliable third-party verification from reputable auditors provides assurance that product expectations are met. California standards have been incorporated into the final ANSI/NSF 140-2007 standard at Platinum certification levels. All Milliken commercial carpet collections are certified under the NSF 140-2007 Sustainable Carpet Assessment Standard.
<b>Partnership for a Sustainable Georgia</b>	The Partnership for a Sustainable Georgia assists Georgia businesses in using continuous improvement tools to reach better environmental results and a better bottom line. Milliken Floor Covering is a Gold Partner with Sustainable Georgia.
<b>SMaRT®</b>	SMaRT is a consensus national standard developed by MTS. SMART is approved as part of the LEED Green Building Rating System based on compliance with comprehensive sustainable product certification criteria. All Milliken commercial carpet collections are certified to SMaRT Consensus Sustainable Product Standards.
Technologies	
<b>AlphaSan®</b>	AlphaSan® provides long-lasting antimicrobial protection that inhibits odors caused by mold and mildew. AlphaSan is a safe and effective technology that demonstrates efficacy against all bacteria.
<b>ColorSeal®</b>	ColorSeal® bleach resistance assures appearance retention under adverse conditions.
<b>Comfort Plus® ES and ESP backing</b>	Milliken modular carpet customers have the option of ES backing with NSF-140 Gold ranking or ESP backing with increased post-consumer content and NSF-140 Platinum ranking.
<b>MilliCare®</b>	MilliCare® Textile and Carpet Care, a dry, non-toxic cleaning system, removes dirt and up to 99% of pollutants and harmful VOCs (Volatile Organic Compounds) when used with a properly functioning HVAC system. The MilliCare system also meets the California Code for low VOCs, plus Green Seal and CRI Seal of Approval certifications. MilliCare may contribute to LEED.
<b>PVC-free systems</b>	Concerns have increased regarding potential environmental and health effects related to polyvinyl chloride or PVC. Milliken introduced PVC-free carpet tiles in 1986.
<b>StainSmart™</b>	StainSmart™ stain and soil resistance technology is applied during manufacturing, becoming an integral component of the carpet that ensures long-term appearance retention.
<b>TractionBack®</b>	Indoor Air Quality (IAQ) is identified as one of the top health issues related to buildings. Bio-based TractionBack® adhesive-free modular installation improves indoor air quality by eliminating VOC off gassing. The friction coating is applied to modular carpet backing during manufacturing and secures tiles in place without wet adhesives, floor sealers or primers.

Affiliations	
<b>ASBE</b>	The Alliance for Sustainable Built Environments represents global companies recognized for leadership in sustainability and committed to delivering high performance sustainable solutions for the built environment. Milliken is a founding member.
<b>CARE</b>	Carpet America Recovery Effort <sup>SM</sup> (CARE), a voluntary initiative of the carpet industry and government, focuses on developing carpet reclamation and recycling methods to prevent carpet from burdening landfills. Milliken is an actively supports this industry effort.
<b>CRI</b>	The Carpet and Rug Institute (CRI) is the science-based source for information about carpet and rugs. As a founding member, Milliken continues to support industry efforts to provide fact-based education.
<b>EPA LMOP</b>	The U.S. EPA's Landfill Methane Outreach Program (LMOP) is a voluntary assistance and partnership program that promotes the use of landfill gas as a renewable, green energy source. Milliken partners with the City of LaGrange to harvest methane from the local landfill and expects to launch its second project by year end.
<b>EPA SmartWay<sup>SM</sup></b>	SmartWay <sup>SM</sup> is a voluntary collaboration between the U.S. EPA and the freight industry to increase energy efficiency while significantly reducing greenhouse gases and air pollution. Milliken joined the EPA SmartWay Transportation Partnership in 2006.
<b>GFC</b>	The Georgia Forestry Commission (GFC) provides leadership, service, and education in the protection and conservation of Georgia's forest resources. Milliken partnered with GFC to launch Making the Shade, a program to increase Georgia's playground safety by adding shade trees.
<b>IFMA</b>	Established in 1980, the International Facility Managers Association (IFMA) is dedicated to promoting excellence in the professional management of the built environment. Milliken is a founding Corporate Sustaining Member of IFMA.
<b>IIDA</b>	The International Interior Design Association (IIDA) was founded in 1994 to create an association that would represent interior designers worldwide. Milliken Contract maintains the highest level of industry membership status.
<b>MTS</b>	Sustainable products provide environmental, social and economic benefits while protecting public health, welfare, and environment over their full commercial cycle, from the extraction of raw materials to final disposition. MTS develops standards for sustainable products.
<b>National Arbor Day Foundation</b>	The National Arbor Day Foundation is a nonprofit, environmental education organization of nearly one million members, with a mission to inspire people to plant, nurture, and celebrate trees. With a passion for trees, Milliken has a long history of partnering with NADF.
<b>NEWH</b>	Founded in 1984, the Network of the Hospitality Industry (NEWH) is the premier networking resource for the hospitality industry, providing scholarships, education, leadership development, recognition of excellence, and business development opportunities. Milliken supports the organization and is represented on the sustainability committee.
<b>Roots &amp; Shoots</b>	Roots & Shoots makes positive change for communities, animals and the environment with tens of thousands of young people in almost 100 countries. Milliken supports tree planting programs in Asia.
<b>USGBC and WGBC</b>	The non-profit U.S. Green Building Council is committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings. Milliken is a founding member of USGBC and supports World Green Building Council.



LEED Contributions	LEED-NC	LEED-EB	LEED-CI
<b>Materials Credit 2 – Construction Waste Management</b> Divert construction, demolition and other debris from landfill disposal. Milliken’s No Carpet to Landfill Pledge supports this credit and can contribute.	✓	✓	✓
<b>Materials Credit 4 – Recycled Content</b> Milliken carpet with pre-consumer and post-consumer content can contribute to this credit.	✓	✓	✓
<b>Materials Credit 5 – Regional Materials</b> Raw material extraction locations and finished product manufacturing within regional areas can contribute to this point.	✓	✓	✓
<b>Materials Credit 4.1 – Low Emitting Materials</b> All Milliken carpet is certified to CRI – Green Label Plus and delivers the point associated with this credit.	✓	✓	✓
<b>Materials Credit 4.3 – Low Emitting Materials</b> All Milliken adhesives meet the requirements of the SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168 - ADHESIVE AND SEALANT APPLICATIONS and contribute to this credit.	✓	✓	✓
<b>Design in Innovation</b> Milliken products are third party certified by NSF 140 and SMaRT as Sustainable Products. Both of these certifications have been recognized as Design in Innovation credits and may be applicable to your project. All products are also third party certified as Carbon Neutral products.	✓	✓	✓



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This cushion-back carpet tile product is covered by one or more patents, published applications and/or patents pending.

