



Founded in 1865

150 Years of Innovation



Milliken

Who We Are

Explore, discover, and create ways to enhance peoples lives.

Chemicals



Floor Coverings



Performance Fabrics



Protective Fabrics



Industrial Textiles



Specialty Textiles



Composites



Performance Solutions



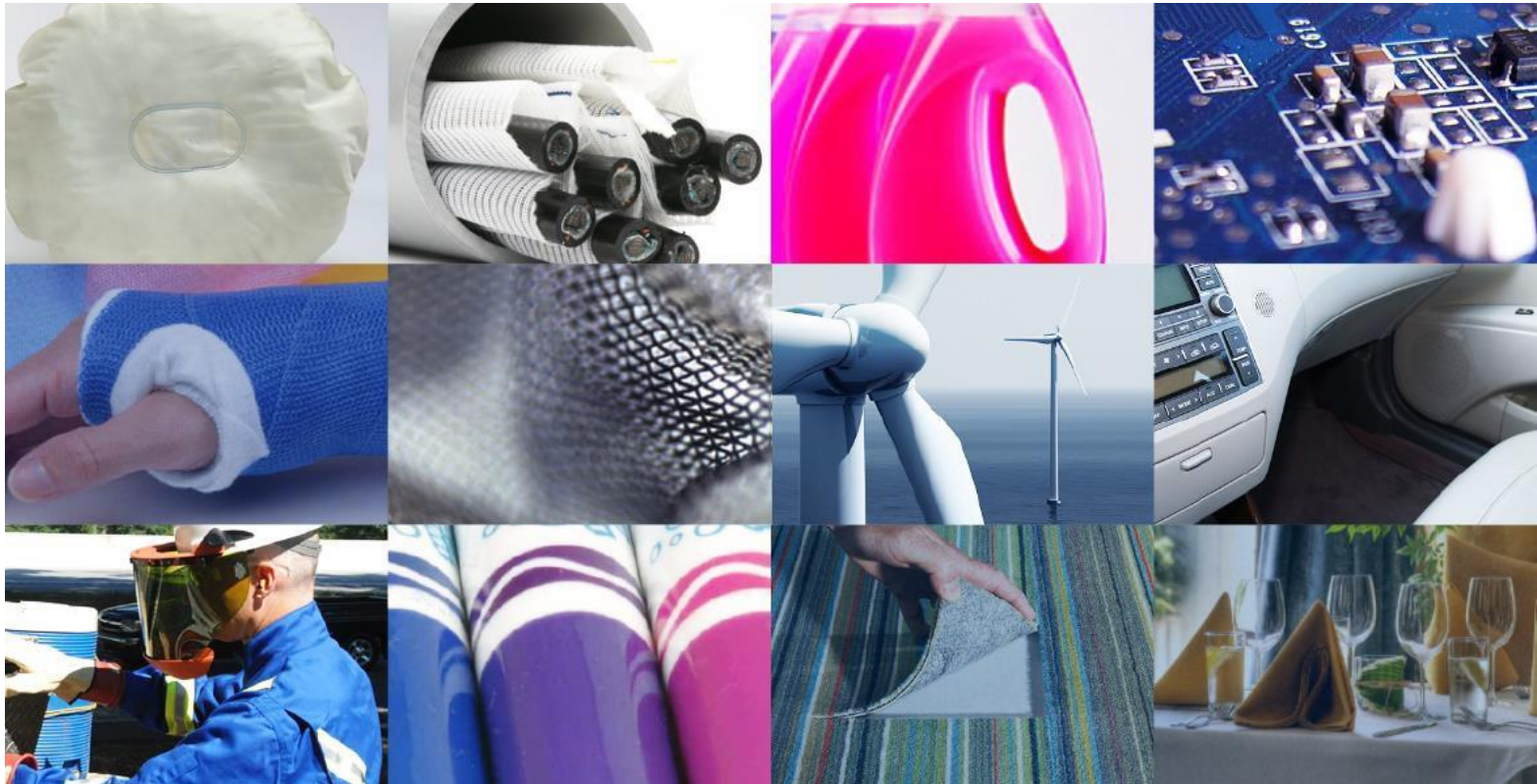
More than 48,000 products manufactured in,
39 facilities in 5 continents located in USA, UK,
Belgium, France, China, India, and Australia,
having 11,000 Associates.

More than carpet... a community of innovators



Milliken

You come into contact with a Milliken product up to 50 times a day.



Innovation...

through merging of unique insights, meaningful design & deep science
...to DO GOOD

Product & Service Innovation



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What separates Milliken from the rest?

Design Technologies

- Millitron® Digital Color Placement & Solution Dyed Nylon

Service Advantage

- Platform manufacturing
- Quick stocking program

Product Innovation

- Performance & wellbeing

Sustainability

- Our values: Products, Processes & People

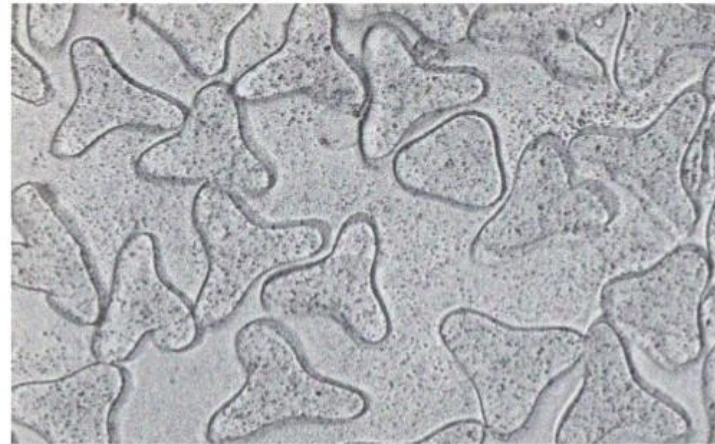


Product Performance: Nylon 6.6 vs 6.0

Milliken uses Nylon 6.6 because of some inherent advantages.

- More Resilient, can recoil or spring back into shape after bending or stretching.
- Higher Pile Height Retention, because of faster recovery to compression.
- Colourfastness to light and atmospheric contaminations, as it is harder for ozone to penetrate the fibre.
- Higher Stain Resistance properties, because it is harder for stains to penetrate.
- Higher Flammability Standards, because it has a higher melt point.

Type 6,6 Nylon, Mixed Denier



Stain Resistance

Type 6 vs. Type 6,6 nylon



Design Technologies: Solution Dyed Nylon (SDN)

Solution Dyed Nylon state of the art tufting technology for unlimited textures & designs.

Product Performance

- Solution Dyed Nylon 6,6
 - Most resilient fiber type
 - Stain resistance built in
- Solution Dyed Econyl® Nylon 6
 - 100% Recycled Content

Service

- Globally available yarns & tufting technology



Design Technologies: Digital Dye Infusion (DDI)

Millitron® Digital Color Placement:
Proprietary technology enables innovation in design, color & pattern across the floor plane.

- Combine color with texture and lustres
- Precise pattern registration
- Design customization
- No order minimums
- Global bases & print technology
 - Quick service program
 - Regionalized color pallet & yarn supply
 - Nylon 6 / Econyl® up to 100% recycled content yarn
- Environmentally efficient (EPD & LCA)
- Performance: Heavy Commercial Use
 - StainSMART® for soil / stain resistance



Product Performance: Texture Appearance Rating



- At Milliken carpets are evaluated by independent laboratories using the HEXAPO DRUM TEST as outlined in CRI TM1010.
- Each carpet is graded on a 5-point scale for appearance change after 4,000 and 12,000 cycles.
- The minimum scores for each Texture Appearance Retention Rating (TARR) classification are shown in the following chart.
- To achieve a particular TARR the carpet must meet or exceed the minimum numerical score at both 4,000 and 12,000 cycles.

	TARR at	TARR at
TARR Classification	4,000 Cycles*	12,000 Cycles*
Moderate use	3.0	2.5
Heavy use	3.5	3.0
Severe use	4.0	3.5

* **MUST BE EQUAL TO OR GREATER THAN BOTH RATINGS TO QUALIFY FOR CLASSIFICATION**

Product Performance: Maximize Useful Life



Milliken has 14 Lifetime warranties shown below for all modular products:

Face Fiber Wear	Staining/Soiling Resistance (StainSmart)	Color Pattern Permanency	Delamination of Backing	Edge Ravel
Tuft Bind	Floor Compatibility	Antistatic	Antimicrobial Protection (AlphaSan)	Flammability
Cushion Resiliency	Dimensional Stability	Floor Release	Moisture Resistance	

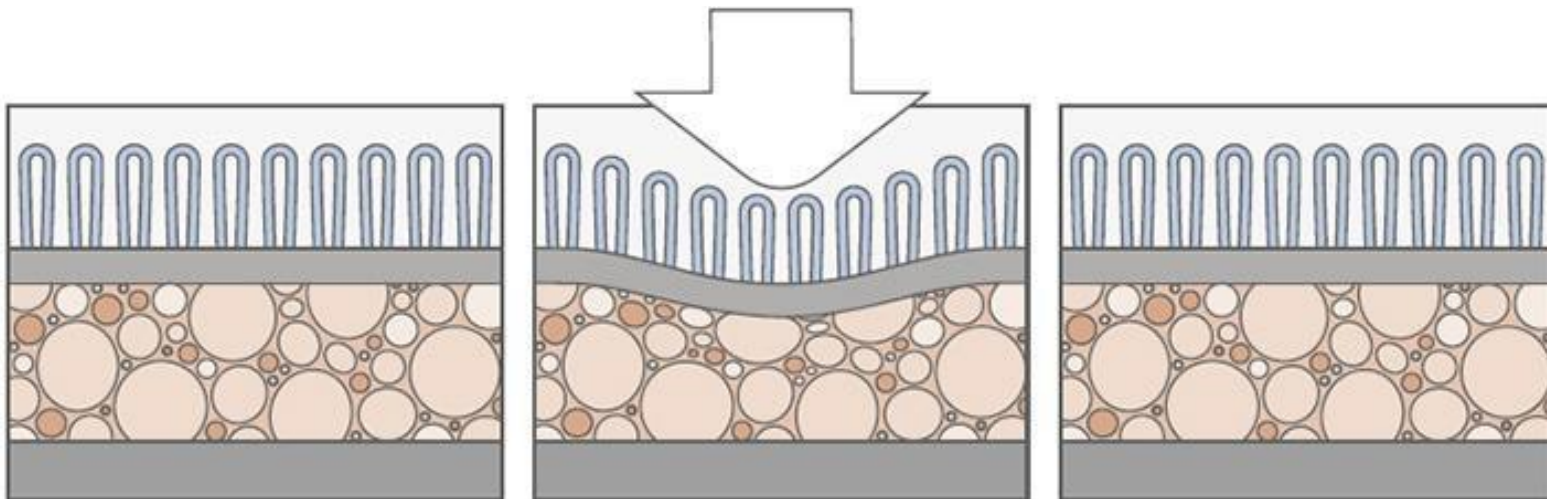
Backing Innovation to Maximize Useful Life



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Comfort Plus® cushion backing protects the face of the carpet from the effects of traffic and wear.

- Looks good for longer
- 'Severe' Traffic End-Use Applications



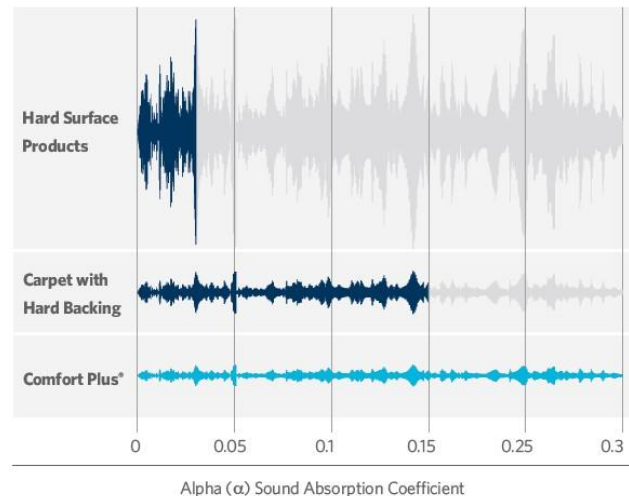
Comfort Plus® backing protects the face of the carpet from the effects of traffic and wear and can extend the life of the carpet by up to 40%.

Innovation for Well Being

Cushion back contributes towards a healthy interior environment.

- Cushion backing provides a quieter environment. Noise is one of the major causes of productivity loss.
- Cushion backing enhances comfort and ergonomics
- Cushion backed tiles meet highest standards of indoor air quality

Sound Absorption Comparison



Comfort Plus® reduces leg muscle fatigue by up to

24%

Comfort Plus® absorbs up to

50%

more noise than hardback

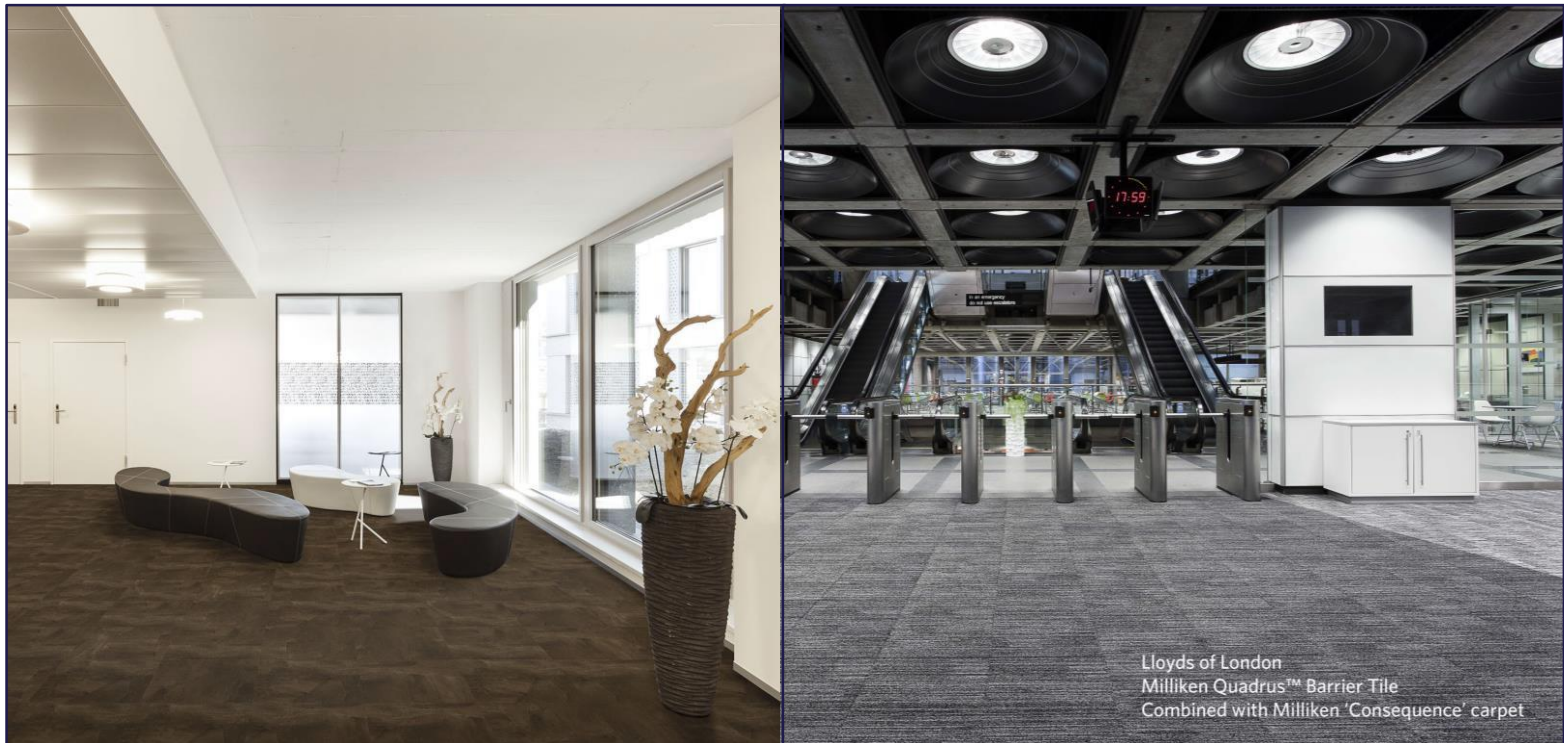
Total Flooring Solutions



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Milliken's extensive portfolio offers a complete range of flooring solutions to suit your needs.

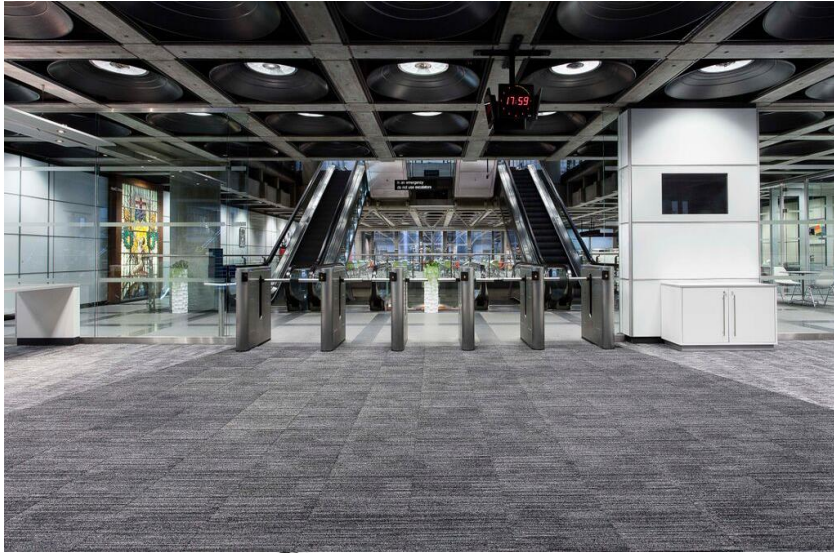
In addition to Carpet and Broadloom, Milliken offers LVT & Entry Way Solutions.



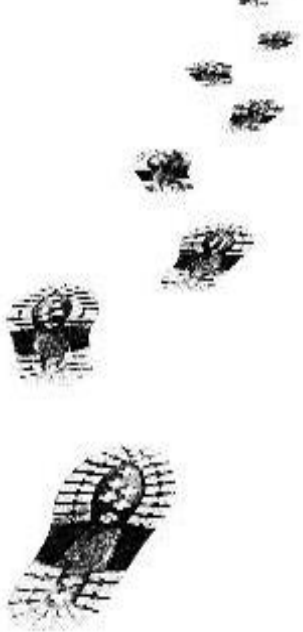
Milliken's Entry Way System



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- All Milliken Entry Way Solutions are designed to create specific zoned solutions for all types of commercial entrances
- Products are manufactured with heavy duty textile inserts for superior removal of moisture, dirt and debris from foot traffic



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Thank you

