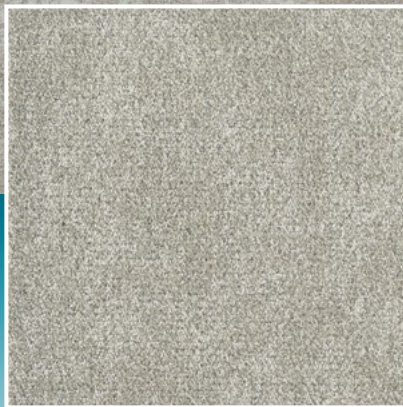




SNOW



FIRN



GLACIER



NORTHWARD BOUND 2.0

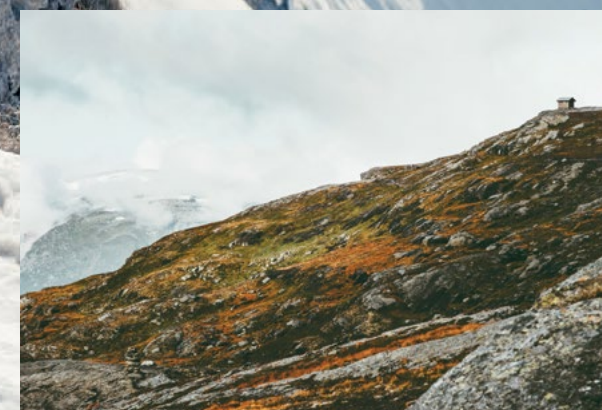
Milliken™

D/LUX | LUXURY DEMATERIALIZED



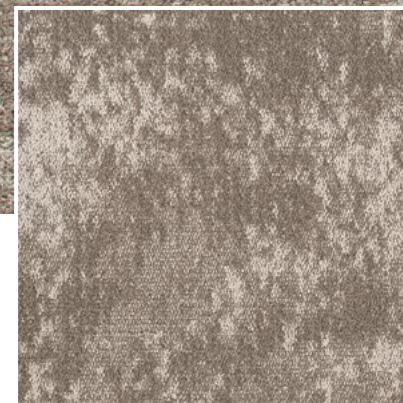
NORTHWARD BOUND 2.0

As brave adventurers head north towards the polar ice cap, their endurance is tested to the full. For the successful though, the rewards are rich. Fairy-tale snow covered landscapes with richly textured glacial layers, that seem to stretch forever, are punctuated only by dramatic calved icebergs. No wonder protection of this land of extreme beauty, fascinating cultures and magnificent wildlife is considered vital to the future of our entire planet.





Left to Right: Snow in Lookout (SNO235-44), Firn in Lookout (FIR235-44) and Glacier in Lookout (GLA235-44)
Monolithic Installation



SNOW



FIRN



GLACIER

THE D/LUX SERIES LUXURY DEMATERIALISED



INNOVATIVE USE OF YARN SYSTEM
AND TUFTING TECHNOLOGY



USES LESS RAW MATERIAL;
REDUCES EMBODIED CARBON



ACOUSTIC TECHNOLOGY
REDUCES IN-ROOM NOISE



RATED FOR SEVERE
TRAFFIC AREAS

THE D/LUX SERIES LUXURY DEMATERIALISED

Inspiration comes from the world around us, so it makes sense to protect that world. Northward Bound 2.0 is part of an innovative sustainable program, the D/Lux series – a high performance carpet that uses less raw materials. Luxury, Dematerialised.



Top and Bottom: Firn in Survival | FIR145-217 | Monolithic Installation
Centre Outer and Right: Snow in Camp | SNO220-236 | Monolithic Installation
Centre Inner Left: Firn in Camp | FIR220-236 | Monolithic Installation









Left to Right: Firn in Tour (FIR215-212), Snow in Tour (SNO215-212), Firn in Tour (FIR215-212) and
Glazier in Tour (GLA215-212) | Monolithic Installation



NORTHWARD BOUND 2.0

SNOW + GLACIER

Top to Bottom: Glacier in Pursuit (GLA211-210) and Snow in Wanderer (SNO245-250) | Monolithic Installation

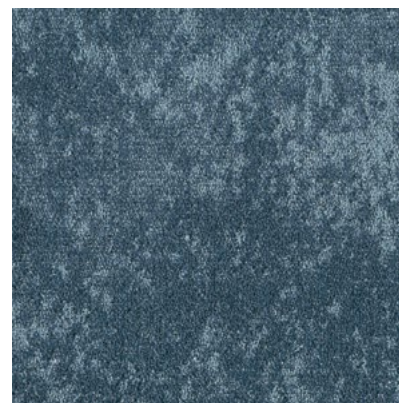
SNOW



SNO139-245 Seek



SNO245-250 Wanderer



SNO199-245 Communicate



SNO180-106 Endurance

GLACIER



GLA139-245 Seek



GLA245-250 Wanderer



GLA199-245 Communicate



GLA180-106 Endurance

FIRN



FIR139-245 Seek



FIR245-250 Wanderer



FIR199-245 Communicate



FIR180-106 Endurance

SNOW



SNO48-64 Odyssey

GLACIER



GLA48-64 Odyssey

FIRN



FIR48-64 Odyssey

SNOW



SNO211-210 Pursuit

GLACIER

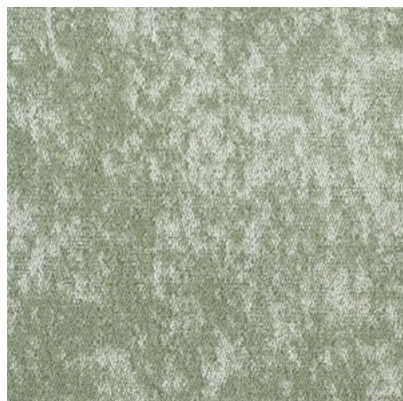


GLA211-210 Pursuit

FIRN



FIR211-210 Pursuit



SNO241-240 Track



GLA241-240 Track



FIR241-240 Track



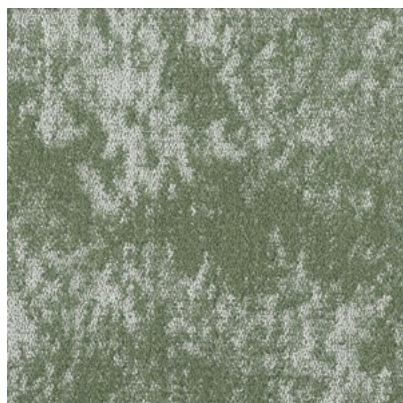
SNO146-70 Experience



GLA146-70 Experience



FIR146-70 Experience



SNO203-241 Itinerary



GLA203-241 Itinerary



FIR203-241 Itinerary



SNO220-236 Camp



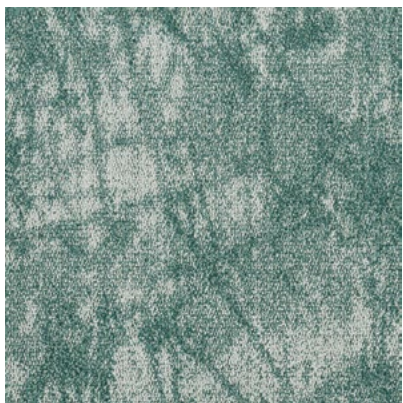
GLA220-236 Camp



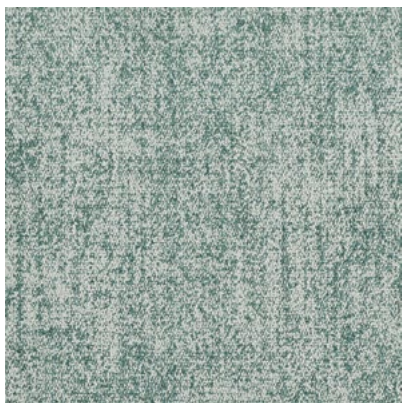
FIR220-236 Camp



SNO274-241 Survey



GLA274-241 Survey



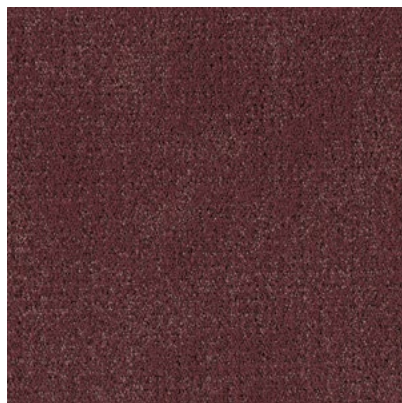
FIR274-241 Survey



SNO143-174 Excursion



GLA143-174 Excursion



FIR143-174 Excursion

SNOW



SNO250-174 Plan



SNO250-152 Encountered



SNO153-174 Navigate



SNO174-27 Travel

GLACIER



GLA250-174 Plan



GLA250-152 Encountered

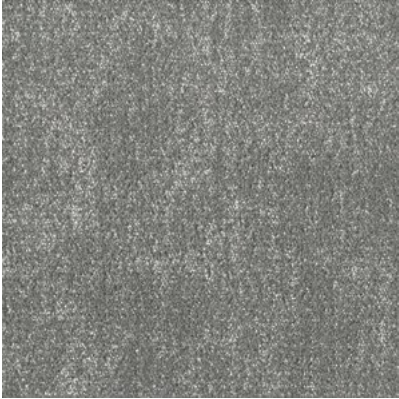


GLA153-174 Navigate

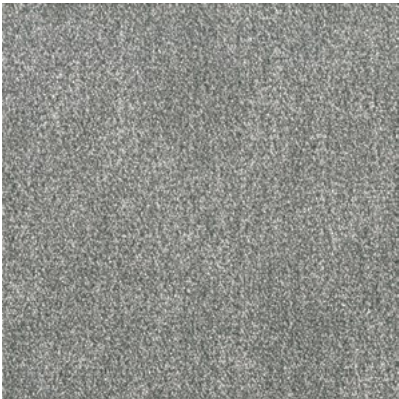


GLA174-27 Travel

FIRN



FIR250-174 Plan



FIR250-152 Encountered



FIR153-174 Navigate



FIR174-27 Travel

SNOW



SNO108-215 Mapping



SNO138-250 Climb



SNO138-264 Search



SNO248-249 Challenge

GLACIER



GLA108-215 Mapping



GLA138-250 Climb



GLA138-264 Search



GLA248-249 Challenge

FIRN



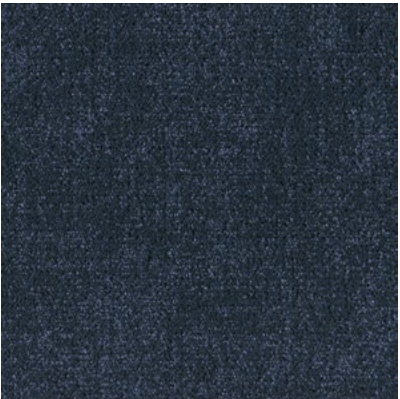
FIR108-215 Mapping



FIR138-250 Climb



FIR138-264 Search



FIR248-249 Challenge

SNOW



SNO144-6 Exploration

GLACIER



GLA144-6 Exploration

FIRN



FIR144-6 Exploration

SNOW



SNO215-212 Tour

GLACIER



GLA215-212 Tour

FIRN



FIR215-212 Tour



SNO250-83 Expedition



GLA250-83 Expedition



FIR250-83 Expedition



SNO145-217 Survival



GLA145-217 Survival



FIR145-217 Survival



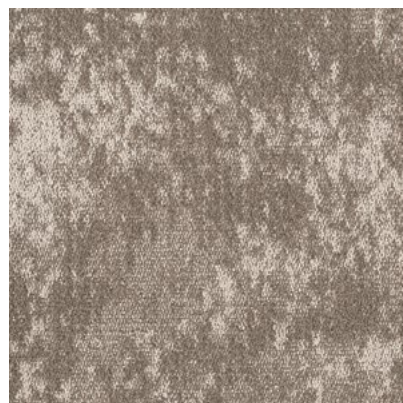
SNO212-254 Hike



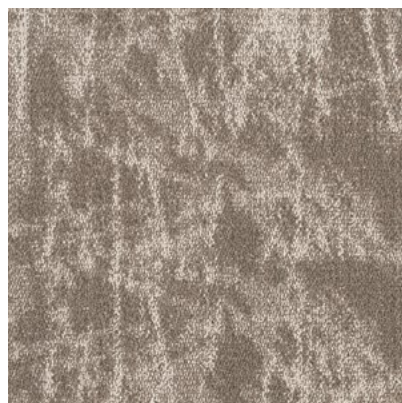
GLA212-254 Hike



FIR212-254 Hike



SNO235-44 Lookout



GLA235-44 Lookout



FIR235-44 Lookout



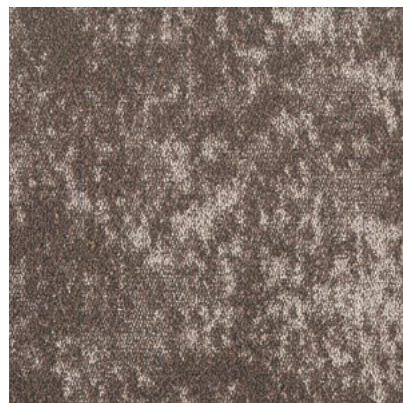
SNO213-120 Guide



GLA213-120 Guide



FIR213-120 Guide



SNO235-225 Mission



GLA235-225 Mission



FIR235-225 Mission



WellBAC®

Milliken WellBAC® open cell foam cushion provides superior durability, appearance retention and cushioning.



UNDERFOOT COMFORT

Up to 24% greater underfoot comfort for enhanced ergonomics whilst standing.



ACOUSTIC VALUES

Up to 50% improved acoustics for quieter, more productive spaces.



INDOOR AIR QUALITY

Enhanced Indoor Air Quality (Green Label Plus™ Certified Low VOC) for improved occupant and installer well-being.



MOISTURE MITIGATION

Industry leading moisture management with non-reactive backings to enhance the installation process, saving time and money.



MATERIAL HEALTH

3rd party Verified Declare™ Red-List Free products for occupant and installer well-being.



CIRCULARITY

100% Recyclable through the Milliken N/XT LIFE™ circularity program for both installation waste and end-of-life.

FACE FABRIC

Patterns and structures made up of nylon yarns with our state of the art tufting technology.

PRIMARY BACKING

The face yarn is tufted through a high quality non-woven textile. The structure of the textile holds the yarn in place acting as the primary backing.

PRECOAT

The precoat layer locks the tufted yarns in the primary backing to ensure good tuft bind strength between the yarns and the backing.

FIBERGLASS

A high quality fiberglass layer is embedded in the polyolefin compound to ensure dimensional stability of the tile.

SECONDARY BACKING

Proprietary Polyolefin compound layer formulated by Milliken R&D scientists to create a durable and stable tile. Our formulation does not contain PVC or plasticizers.

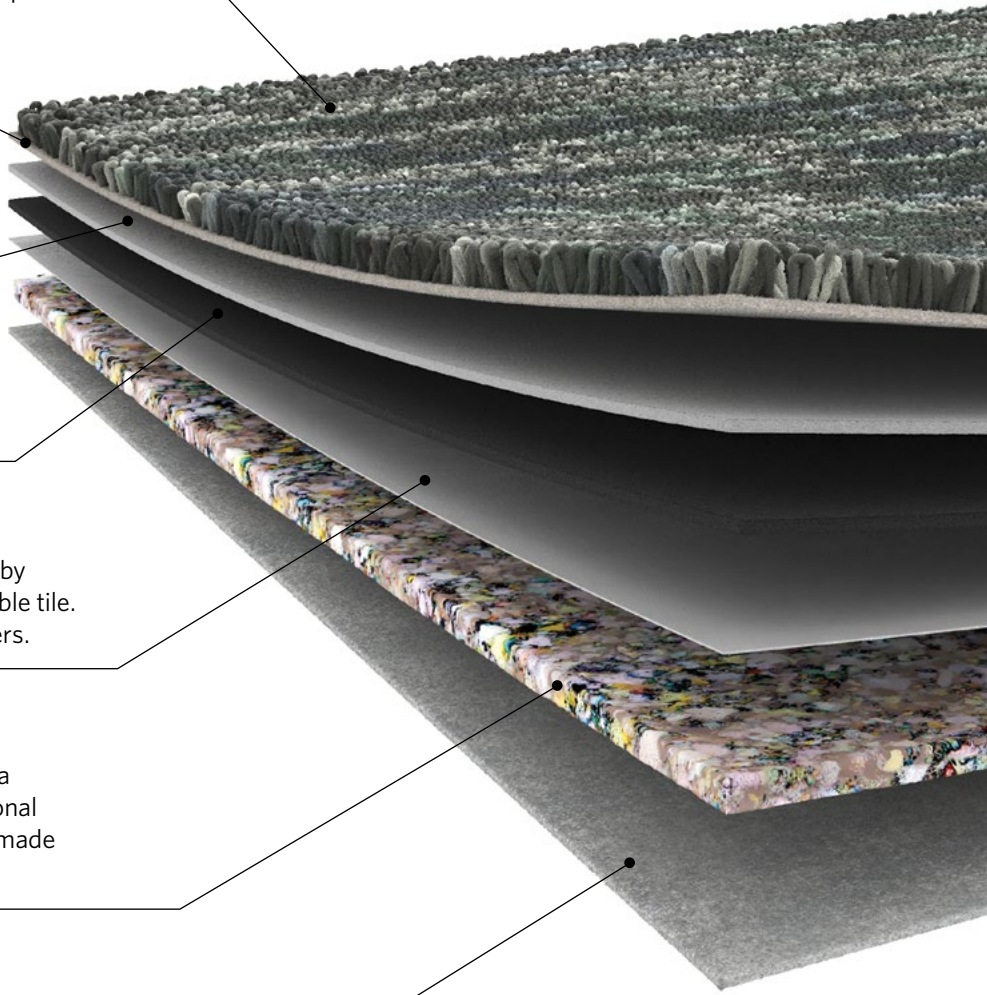
PREMIUM CUSHION

WellBAC® Comfort and Comfort Plus incorporate a premium cushion layer, designed to provide additional health and wellness benefits. Milliken's cushion is made from recycled polyurethane foam.

FELT BACK

A protective non-woven textile layer provides a breathable non-reactive finish. It enhances health and wellness.

Milliken's standard cushion backing system — offering enhanced underfoot comfort, acoustic and wear performance.



DESIGN FOR DISASSEMBLY - TRACTIONBACK®

TractionBack is a high friction coating applied to the back of Milliken carpet tiles and planks that allows clean, efficient, adhesive-free installation.

This proprietary layer is applied during the manufacturing process and has been engineered to secure the carpet to the floor, without the use of wet adhesives. This remarkable innovation also allows the carpet module to be easily lifted and replaced when required.



No compromise on indoor air quality

TractionBack is a formulation free of Volatile Organic Compounds (VOCs), that avoids the potentially harmful off-gassing and emissions associated with traditional adhesive systems. This makes TractionBack a much cleaner, healthier and safer method of modular carpet installation that positively considers the well-being of both the installer and the building's occupants.

A technically advanced, proven solution

This award-winning innovation has been created by the dedicated team at Milliken's in-house, industry leading Research and Development facility. TractionBack has been used successfully around the world, for over 15 years, for clean, efficient, and sustainable Milliken carpet installations.

Fully sustainable and kinder to our planet

Milliken's Innovation team is committed to environmental leadership and continuous improvement of products and processes. After extensive testing, Milliken has launched TractionBack which offers even better initial "grab" to the floor. It remains recyclable and provides a truly sustainable carpet installation solution.

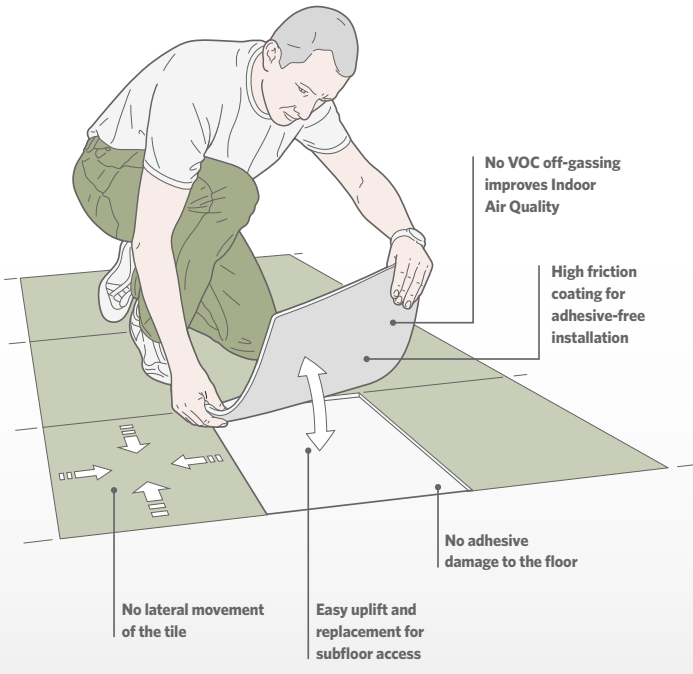
How does TractionBack work?

Milliken's unique TractionBack formulation has been specifically engineered to create a firm grip to a clean sub-floor surface without permanently adhering to the floor. This prevents any lateral movement of the carpet tile or plank across the floor when installed.

While this invisible coating is tacky to the touch, unlike traditional wet adhesives, it leaves no sticky residue on the hands or on the floor. This means Milliken carpet modules can be cleanly lifted and replaced without any mess or loss of performance.

TractionBack is applied during the carpet manufacturing process, to the full surface of the carpet backing for maximum grip. The coating is available, on request, on all Milliken cushion backed carpet tile and plank products.

Full installation instructions are available at millikenfloors.com.au



DESIGN FOR DISASSEMBLY - TRACTIONBACK®

1 MINIMAL IMPACT ON THE PLANET

All Milliken modular floor covering products are already carbon neutral and recyclable.

By consuming minimal raw materials and eliminating potentially harmful Volatile Organic Compounds (VOCs) from adhesives, TractionBack drives down the environmental impact of Milliken modular carpet even further.

- Pre-installation floor preparation treatments are eliminated
- No wasteful adhesives or adhesive containers
- No sticky tabs or packaging
- No harmful VOCs

2 CAN BE RECYCLED AND REUSED

TractionBack is ideally suited for recycling and reuse helping to achieve a circular economy.

As a completely clean method of carpet installation, TractionBack carpet tiles and planks do not become contaminated with the adhesives, or particles of the sub-floor, that can often hamper their recyclability. Modular carpet with TractionBack can be recycled through Milliken's Carpet Take Back Program.

3 INSTALLATION IS CLEANER AND HEALTHIER

With TractionBack, wet adhesives and floor sealants are largely eliminated.

This removes any of the sticky mess and potentially harmful off-gassing of VOCs often associated with on-site drying of these preparation products.

Milliken's TractionBack provides an odourless, non-toxic and VOC-free alternative. For the installer, this makes the installation of Milliken carpet a much cleaner and healthier process. For the building's occupants, there is absolutely no compromise to air quality post-installation. By eliminating VOCs TractionBack can help achieve the WELL certification goal for clean indoor air.

4 FASTER INSTALLATION, REDUCED DOWNTIME

As TractionBack has already been applied to the back of the tile or plank on delivery, it is ready to install straight out of the box!

TractionBack requires no floor surface pre-treatment** or adhesives and there are no sticky tabs or similar, to deal with. This makes the installation process so much easier and quicker for the modular carpet installer. For the client, it also minimises the disruption and downtime associated with other traditional modular carpet installation methods.

**a thorough floor clean is required prior to installation to remove loose surface dust and debris.



5 GREATER FLEXIBILITY FOR PHASED INSTALLATIONS

TractionBack takes considerably less time to install than conventional carpet installations.

Whether the carpet is for a new build or a refurbishment, carpet with TractionBack allows much greater flexibility for project managing carpet installations. This means it can be more easily scheduled into an interior fit-out program or worked around a client's on-site day-to-day business requirements.

6 MAINTENANCE COULDN'T BE EASIER

TractionBack carpet modules can be simply lifted and replaced.

If carpet tiles or planks become damaged, they can be easily removed without leaving sticky adhesive residues on the sub-floor.

For raised floors, access to the sub-floor is quick and convenient as carpet can be lifted and easily replaced multiple times, without any loss of grip.

7 SUB-FLOOR PROTECTION

Installed TractionBack tiles cause no damage to the sub-floor.

For buildings with a high frequency of occupancy change, building owners can find that sub-floors become contaminated with layers of adhesives and become damaged over time. Ridges can form with dirt and debris becoming embedded in the surface which is costly to repair or replace.

Milliken carpet with TractionBack offers the perfect solution, whether required to protect raised access sub-floors or something more precious such as marble or parquet.

When the carpet is lifted normal buffing returns the floor to its original condition.

8 TRACTIONBACK SAVES TIME AND MONEY

With TractionBack modular carpet installation there are no additional materials to order.

As the TractionBack coating is already applied to the tile or plank, there is no need to purchase any additional adhesives, tapes or sticky tabs in order to install the carpet.

At the end of the installation process, apart from recyclable tile boxes, there is nothing further to dispose of, no additional materials or their packaging.

As well as material cost savings, considerable labour savings can also be made on time for floor preparation and carpet fitting compared to alternative installation methods.

*Adhesive or alternative fixing may be required on small perimeter cuts, to prevent lifting when vacuum cleaning or in areas of extreme loads or high turning points. Typically over 97% of the adhesive requirement will be eliminated.



It takes humans to protect humanity.

Make changes to end climate change. Design a better future.

M/PACT™
CARBON NEUTRAL PROGRAM

CLIMATE CHANGE IS ONE OF THE GREATEST THREATS FACING HUMANITY, AND WE ARE ALL RESPONSIBLE.

That's why Milliken Floor Covering launched the M/PACT™ carbon neutral program. Today, our carpet, LVT and entrance flooring tiles are carbon neutral everywhere in the world.

M/PACT carbon neutral products offset the raw materials and manufacturing carbon footprint* by using 3rd party Verified Carbon Standard Credits that support renewable energy and carbon reduction technologies to help fight climate change. When you choose M/PACT products, you can be sure your choice is carbon neutral.



SCAN TO LEARN MORE ABOUT
OUR CARBON NEUTRAL PROGRAM

M/PACT™

M/PACT™
CARBON NEUTRAL PROGRAM

Investment

Today we invest through renewable energy credits, verified carbon offsets, and installing solar power at our Sydney manufacturing facility. We also continue to invest in more efficient manufacturing technologies and in local supply chains.

Materials

We believe material health is essential to enable circularity. The use of materials that don't contain harmful chemicals provides a critical pathway to end-of-life product recycling. Our carpet, LVT and entrance flooring tiles are recyclable.

Dematerialisation

We continue to support the advancement of a circular economy – one that uses less new raw materials and creates less waste. For example, we have created a portfolio of carpet tiles that use less raw material, reducing embodied carbon. We will continue to challenge ourselves and our supply chains to extend innovation in new technologies for dematerialisation.

Manufacturing

We leverage our global manufacturing and local supply chains to minimise carbon emissions. More efficient manufacturing and distribution not only reduces our global carbon footprint, it also has a direct positive impact on the communities we call home.

Wellness

Climate change directly impacts human health and wellness. Pollution. Natural disasters. Droughts. As a founding member of the Well Living Lab and a Well Portfolio Member, we aspire to design products that enhance well-being and quality of life of indoor spaces.

We will continue to do more to lower our carbon footprint.

The M/PACT™ program is long-term, because the fight to stop climate change will be a long one. As a global manufacturing company, we set 2025 goals that align with the United Nations Sustainable Development Goals. We push ourselves to meet our targets on Planet, Product, and People, including a 25% reduction in indexed greenhouse emissions by 2025. These 2025 goals are a benchmark for us to achieve more, faster. We encourage you to specify our carbon neutral products for all of your projects to ensure the climate change journey continues.

Together, we can make a positive M/PACT™ on the world for generations.

* As calculated and verified scope A1-3 GWP through a ISO14025/ISO14040 compliant LCA and published in third party EPDs.

Milliken

Real sustainability doesn't start One Day - it start today!
For a bigger purpose. Recycling locally.
FROM DAY ONE.

Our N/XT Life™ Circularity Program sets the foundation for a truly circular future, starting **FROM DAY ONE.** Every material, every process, every decision is made with intention.

 **CLOSED-LOOP RECYCLING.
FROM DAY ONE.**

All our carpets are 100% recyclable locally in Australia and New Zealand.

 **NOTHING LEFT BEHIND.
FROM DAY ONE.**

Zero carpet waste to landfill. Every off-cut, every scrap—recycled and reborn, through our N/XT Life™ Circularity Program.

 **DESIGNED TO RETURN.
FROM DAY ONE.**

All our carpets are free of any chemicals of concern and certified Declare Red List Free—designed to live again and again.

The result is Renasci: an innovative flooring solution that closes the loop for good. Made possible by everything we've done right **FROM DAY ONE.**

 **WASTE.
REINCARNATED.**

Born of 80% carpet waste and 20% soft plastic waste, Renasci gives waste another life.

 **LIGHTER
FOOTPRINT.**

Renasci closes the loop right here in Australia and New Zealand—resulting in low embodied carbon.

 **BORN AGAIN.
BY DESIGN.**

Because of our N/XT Life™ Circularity Program, every Milliken carpet can live again as Renasci—completing the cycle for good.

RENASCI™

An innovative flooring solution that closes the loop for good. Marking **DAY ONE** of a truly circular future.



NORTHWARD BOUND 2.0

Firn | Snow | Glazier

SPECIFICATION



When you choose M/PACT™ products, you can be sure your choice is carbon neutral. M/PACT™ carbon neutral products offset the raw materials and manufacturing carbon footprint* by using 3rd party Verified Carbon Standard Credits that support renewable energy and carbon reduction technologies to help fight climate change.

*as calculated and verified through a ISO14025/ISO14040 compliant LCA and published in third party EPD.

Standard Backing	Cushion Backing WellBAC® Comfort (PVC FREE) (Non-Reactive Cushion Backing)
Acoustic Value	Noise Reduction Coefficient – NRC ≥ 0.25 Impact Sound Pressure Level - Ln,w ≤ 47dB
Concrete Slab Moisture Mitigation	Site-Related Solutions (SRS): Milliken cushion-backed tile + Non-Reactive Standard Adhesive means installation 45 days after a new concrete pour, fully warranted no moisture testing required. Refer to www.millikenfloors.com.au

Construction	Tufted, Textured Loop Pile	Flammability (Radiant Panel Test)	Firn Glazier: CHF/CRF = 5.8kW/m², Smoke value = 136%.min
Tile Size	50cm x 50cm		Snow: CHF/CRF = 5.5kW/m², Smoke value = 97%.min
Yarn Type	Thrive® Matter 90% Recycled Solution Dyed Nylon	Lightfastness (AATCC 16E)	≥ 4.0 at 80 Hours
Stain Resist Soil Release	Built-In Protection	Static Electricity (AATCC-134) 20% R.H., 70°F	≤ 3.5KV
Dye Method	Solution Dyed	Indoor Air Quality CRI Green Label Plus™	≤ 0.5mg/m³ (GLP1095)
Embodied Carbon	Firn Glazier: 4.64kg/m² co²E Snow: 4.59kg/m² co²E	VOC	Pass (ISO 10580:2010)
Gauge	1/12	ACCS Grading	CEHD(S) 4*, REHD2 (S)6* Suitable for stairs
Stitches Per Inch	Firn Glazier: 10.18 Snow: 9.83	Environmental	ECS Grading - Level 4 + (Core + No Chemicals of Concern + EPD + Carbon Neutral)
Tufts	Firn Glazier: 122/in² (1,893/100cm²) Snow: 118/in² (1,827/100cm²)		Declare – RED LIST FREE Cradle to Cradle – Silver M/PACT™ Carbon Neutral
Recyclable	100%		Environmental Product Declaration (EPD) Health Product Declaration (HPD) Works with WELL
Recycled Content by Total Weight	69%		
Nominal Total Thickness	Firn Glazier: 9.4mm Snow: 9.0mm		
Nominal Pile Thickness	Firn Glazier: 3.5mm Snow: 3.1mm		
Nominal Total Weight	Firn Glazier: 118 oz/yd² (4,000g/m²) Snow: 115 oz/yd² (3,900g/m²)		

The recognised Product Certification Initiatives in the Green Star rating tools that contribute to the responsible product value of Milliken carpet tiles are as listed. The Green Building Council of Australia recognises Responsible Products that may contribute to a Green Star rating through its Responsible Credits (rpv).

1. ECS Carpet Standard v2.2
2. Cradle to Cradle
3. Declare 2.0 – Red List Free
4. Science-Based Targets Initiative (SBTi)

GBCA
Responsible Product Value
30 rpv

Recommended Installation Methods	Monolithic
Recommended Area of Use	Commercial Extra Heavy Duty
Warranties	20-year Wear Warranty 20-year Anti-Static Warranty 20-year Dimensional Stability Warranty 20-year Castor Chair Wear Warranty



Declare.



Milliken

Top to Bottom: Firn in Challenge (FIR248-249)
and Glazier in Experience (GLA146-70)
Monolithic Installation

Australia:
Toll Free: 1800 668 372

New Zealand:
Toll Free: 0800 668 372

www.millikenfloors.com.au
(Australia & New Zealand)

This WellBAC® cushion-back carpet tile product is covered by one or more patents, published applications and/or patents pending. Specifications are subject to normal manufacturing tolerances and may be changed without prior notice. Copies of actual test results are available upon request.

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