

WHALE SONG

Milliken



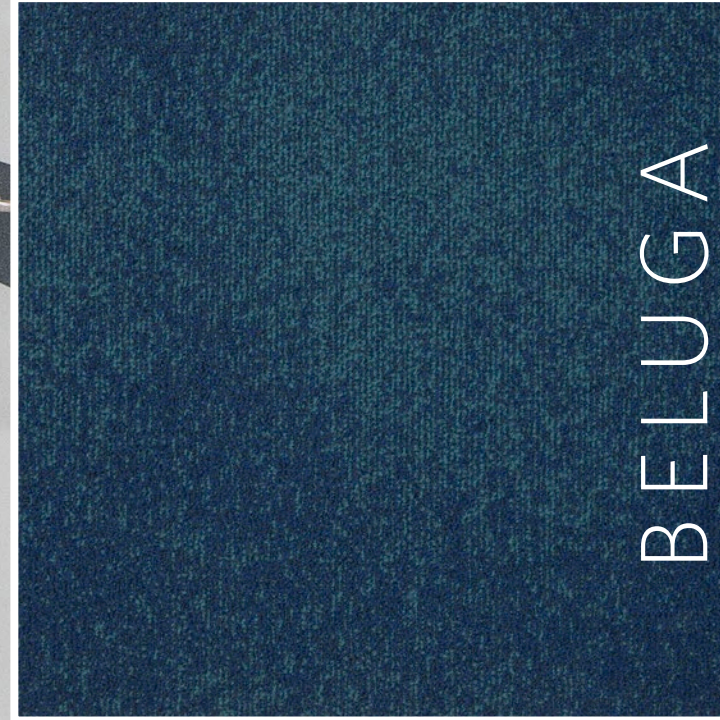




# WHALE SONG

*The timeless composers of the ocean bestow melodies upon the earth's waters. The rhythmic and foreseeable symphonies, emanating from some of the planet's largest mammals, stand as the most intricate in the animal kingdom. Whether easing into a steady note or swiftly ascending into a finely tuned cadence, these elaborate compositions forge a connection, inviting us into a different realm of communication.*





BELUGA

BEL159-123 | SEA LEVEL



HUMPBACK

HUM159-123 | SEA LEVEL

## New Colours. Multiple Options.

*The Whale Song collection introduces two standard patterns to the Milliken solution-dyed offering: Beluga and Humpback.*

*These highly textured, loop and tip-sheared designs draw inspiration from the acoustic patterns of whale communications and the environments where these songs are sung.*

*Whether stretched and elongated or pixelated for greater definition, each pattern offers a unique perspective to the floor and harmonizes well with other products in the Milliken portfolio.*

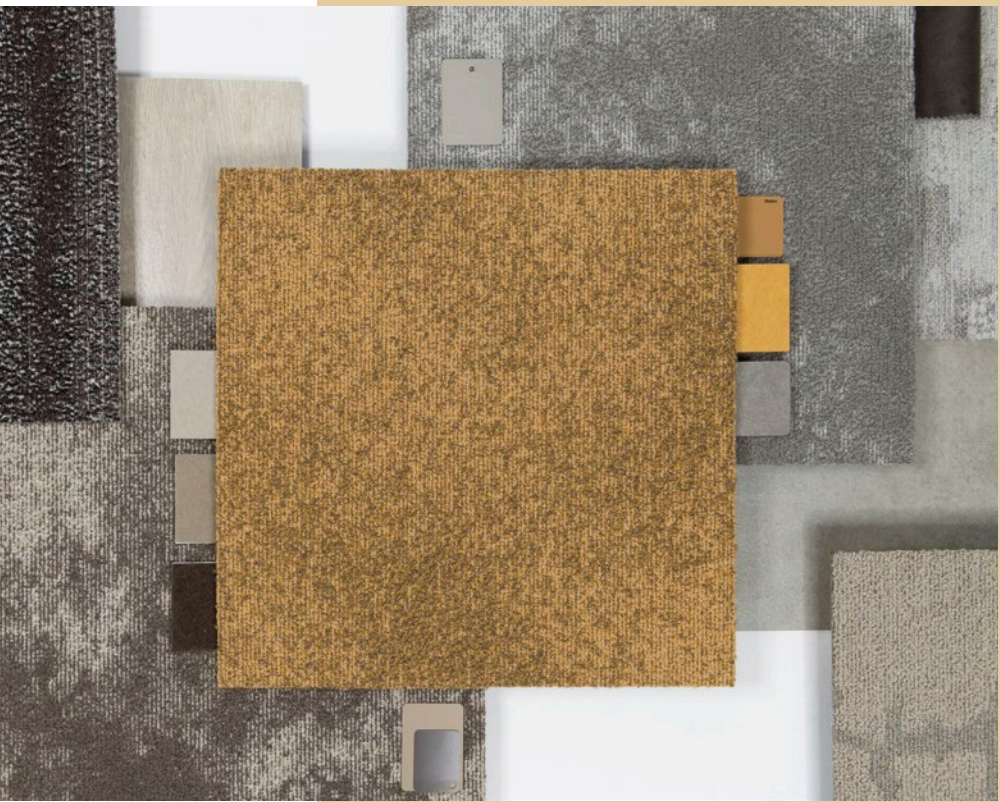
Field: Beluga in Ice Cap | BEL209-152 | Brick (Horizontal) Installation  
Triangular Inserts: Humpback in Sea Level | HUM159-123 | Brick (Horizontal) Installation



# BELUGA

*Envisioning the gentle dispersion of sound through water, Beluga crafts a contemporary flooring solution.*

*This nuanced texture gradually softens as it extends across the room, cultivating a space where movement is deliberate yet serene.*



Top to Bottom: Beluga in Ocean Spray (BEL167-124) and Beluga in Perma Frost (BEL215-235) | Brick (Horizontal) Installation





Top: Beluga in Tidal Current (BEL139-101) and  
Humpback in Tidal Current (HUM139-101) | Ashlar (Vertical) Installation  
Bottom: Beluga in Tundra | BEL203-240 | Ashlar (Vertical) Installation



Beluga in Coral | BEL146-70 | Brick (Horizontal) Installation





Left: Beluga in Seawash | BEL204-153 | Ashlar (Vertical) Installation  
Walkway: Humpback in Seabed | HUM119-174 | Ashlar (Vertical) Installation  
Circular Insert: Beluga in Seawash | BEL204-153 | Ashlar (Vertical) Installation



# HUMPBACK

*Communication is essential for a whale's foraging and maintaining connection with its pod. When considering the humpback pattern, we envision the underwater landscape as diverse as any terrestrial terrain.*

*The ebb and flow of the Humpback design allow for a harmonious blend of scales within the pattern, balancing positive and negative spaces with grace.*



Southern Cross Head Office, New Zealand | STACK Interiors | Photographer: Rebecca Swan  
Left to right: Humpback in Algae (HUM45-28) and Barnacle (HUM173-174) | Brick (Horizontal) Installation



Humpback in Breaker | HUM152-106 | Brick (Horizontal) Installation





Insert: Humpack in Saltwater | HUM201-161 | Brick (Horizontal) Installation  
Field: Beluga in Night Tide | BEL52 | Brick (Horizontal) Installation





Meeting Room: Humpback in Tundra | HUM203-240 | Brick (Horizontal) Installation  
Circular Insert: Humpback in Arctic Swell | HUM230-87 | Brick (Horizontal) Installation  
Walkway: Humpback in Maritime | HUM119-106 | Brick (Horizontal) Installation



COLOURWAY

BELUGA



BEL119-174  
SEABED



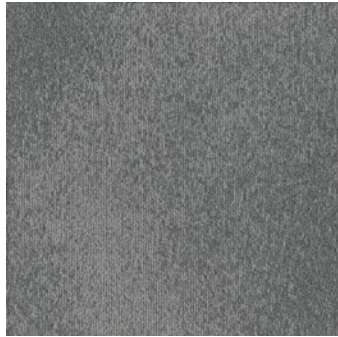
BEL119-106  
MARITIME



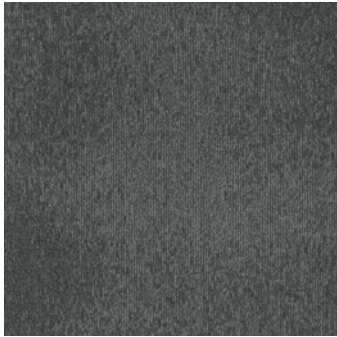
BEL173-174  
BARNACLE



BEL70-102  
ACOUSTIC SOUNDS



BEL209-152  
ICE CAP



BEL152-106  
BREAKER



BEL108-204  
BRINY



BEL146-70  
CORAL



BEL215-235  
PERMA FROST



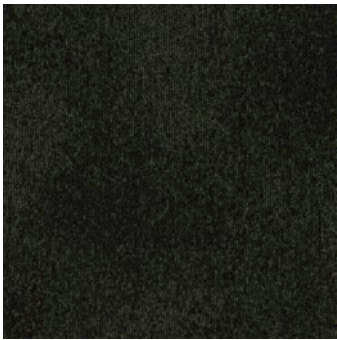
BEL204-153  
SEAWASH



BEL209-143  
NAVIGATION



BEL167-124  
OCEAN SPRAY



BEL28-133  
KELP FOREST



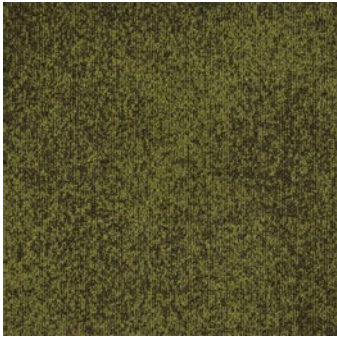
BEL230-87  
ARCTIC SWELL



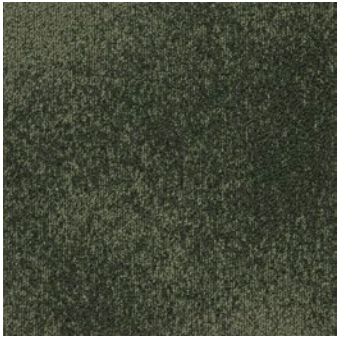
BEL125-201  
MARINE



BEL52  
NIGHT TIDE



BEL45-28  
ALGAE



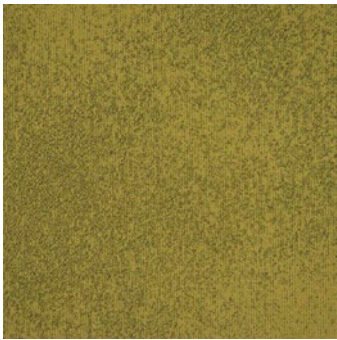
BEL203-240  
TUNDRA



BEL101-125  
PACK ICE



BEL19  
COASTLINE



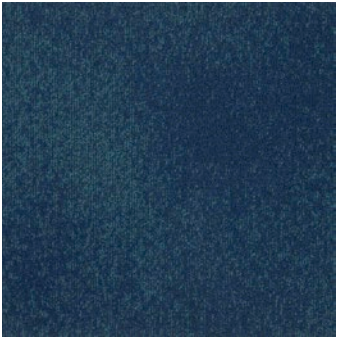
BEL103-45  
MOSS



BEL139-101  
TIDAL CURRENT



BEL201-161  
SALTWATER



BEL159-123  
SEA LEVEL



COLOURWAY

HUMPBACK



HUM119-174  
SEABED



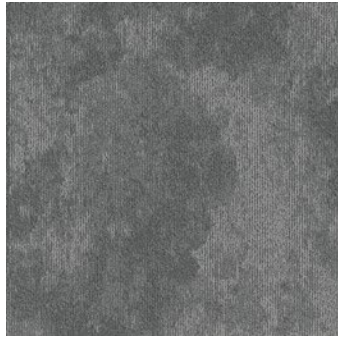
HUM119-106  
MARITIME



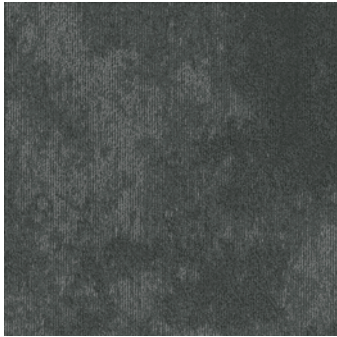
HUM173-174  
BARNACLE



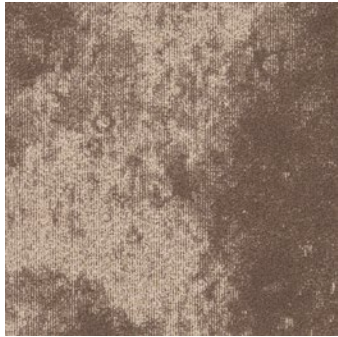
HUM70-102  
ACOUSTIC SOUNDS



HUM209-152  
ICE CAP



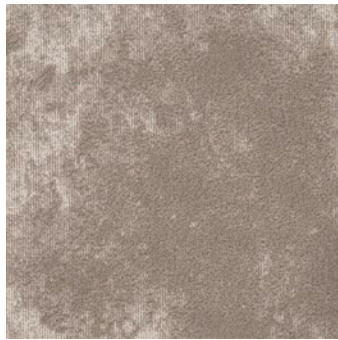
HUM152-106  
BREAKER



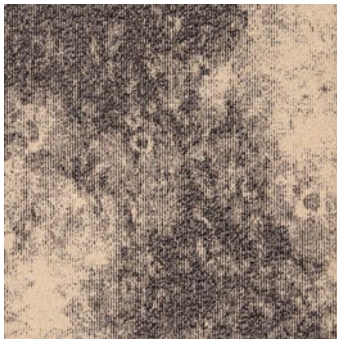
HUM108-204  
BRINY



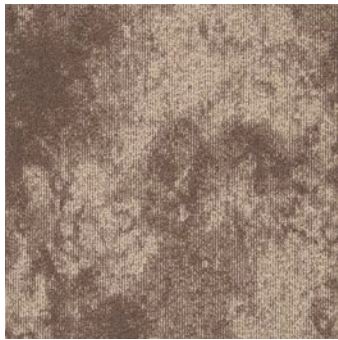
HUM146-70  
CORAL



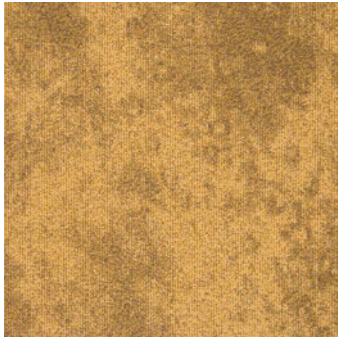
HUM215-235  
PERMA FROST



HUM204-153  
SEAWASH



HUM209-143  
NAVIGATION



HUM167-124  
OCEAN SPRAY



HUM28-133  
KELP FOREST



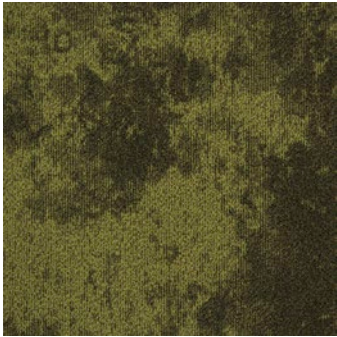
HUM230-87  
ARCTIC SWELL



HUM125-201  
MARINE



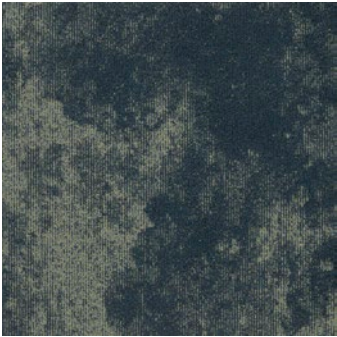
HUM52  
NIGHT TIDE



HUM45-28  
ALGAE



HUM203-240  
TUNDRA



HUM101-125  
PACK ICE



HUM19  
COASTLINE



HUM103-45  
MOSS



HUM139-101  
TIDAL CURRENT




HUM201-161  
SALTWATER



HUM159-123  
SEA LEVEL





# 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*



# 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.

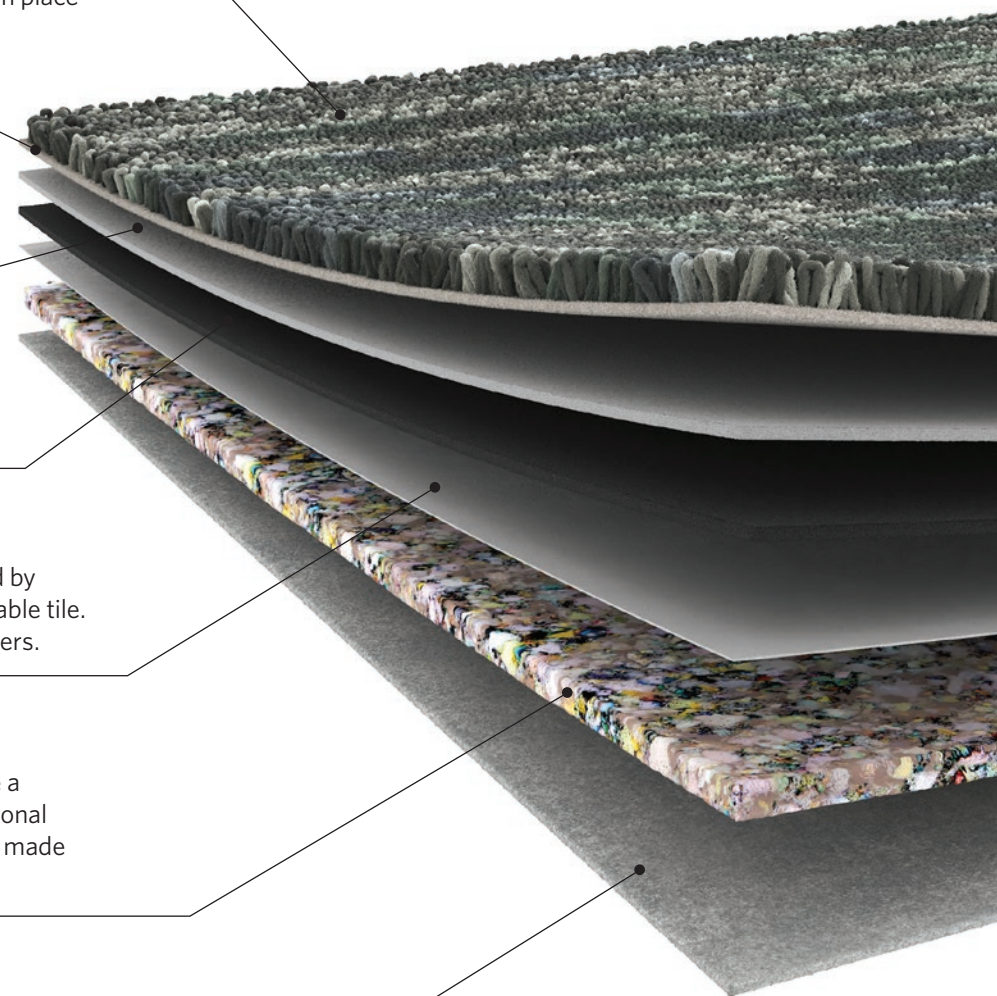
## PREMIUM CUSHION

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.**





# WHALE SONG

Beluga | Humpback

## 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 $\geq 0.25$ Impact Sound Pressure Level - $L_{n,w} \leq 47dB$
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 <a href="http://www.millikenfloors.com.au">www.millikenfloors.com.au</a>

Construction	Tufted, Textured Loop, Tip Shear	Flammability (Radiant Panel Test)	CHF/CRF = 5.0kW/m <sup>2</sup> , Smoke value = 208%.min
Tile Size	50cm x 50cm	Lightfastness (AATCC 16E)	$\geq 4.0$ at 80 Hours
Yarn Type	100% Recycled Solution Dyed Nylon	Static Electricity	$\leq 3.5KV$
Stain Resist   Soil Release	Built-In Protection	(AATCC-134) 20% R.H., 70°F	
Dye Method	Solution Dyed	Indoor Air Quality	$\leq 0.5mg/m^3$ (GLP7205)
Embodied Carbon	4.5 kg/m <sup>2</sup> co <sup>2</sup> E	CRI Green Label Plus™	
Gauge	1/12	VOC	Pass (ISO 10580:2010)
Stitches Per Inch	11.6	ACCS Grading	CEHD(S) 4*, REHD2 (S)6*
Tufts	136/in <sup>2</sup> (2,153/100cm <sup>2</sup> )	Environmental	Suitable for stairs
Recyclable	100%		ECS Grading - Level 4 + (Core +
Recycled Content by Total Weight	63%		No Chemicals of Concern + EPD +
Nominal Total Thickness	8.7mm		Carbon Neutral)
Nominal Pile Thickness	2.7mm		Declare - RED LIST FREE
Nominal Total Weight	94.4 oz/yd <sup>2</sup> (3,270g/m <sup>2</sup> )		Cradle to Cradle - Silver
			M/PACT™ Carbon Neutral
			Environmental Product Declaration (EPD)
			Health Product Declaration (HPD)
			Works with WELL

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	Brick (Horizontal)   Ashlar (Vertical)
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

Scan to explore the  
Collection Story.



Top to Bottom:  
Humpback in Moss (HUM103-45)  
and Beluga in Navigation (BEL209-143)  
Brick (Horizontal) Installation

Australia:  
Toll Free: 1800 668 372  
  
New Zealand:  
Toll Free: 0800 668 372  
  
[www.millikenfloors.com.au](http://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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