

Milliken™

*Education Flooring
Solutions*



MEETING WITH MILLIKEN

Highlights of Milliken Flooring Benefits:

· Beauty + Science = Transformation

Milliken doesn't just sell flooring - they sell science backed platforms

· Compliant with Department of Education Guidelines

· Solve noise and moisture problems

· Quick response times

· Create positive atmosphere in schools

Teacher retention is a big deal

· Better workplace for teachers

· Improve student learning

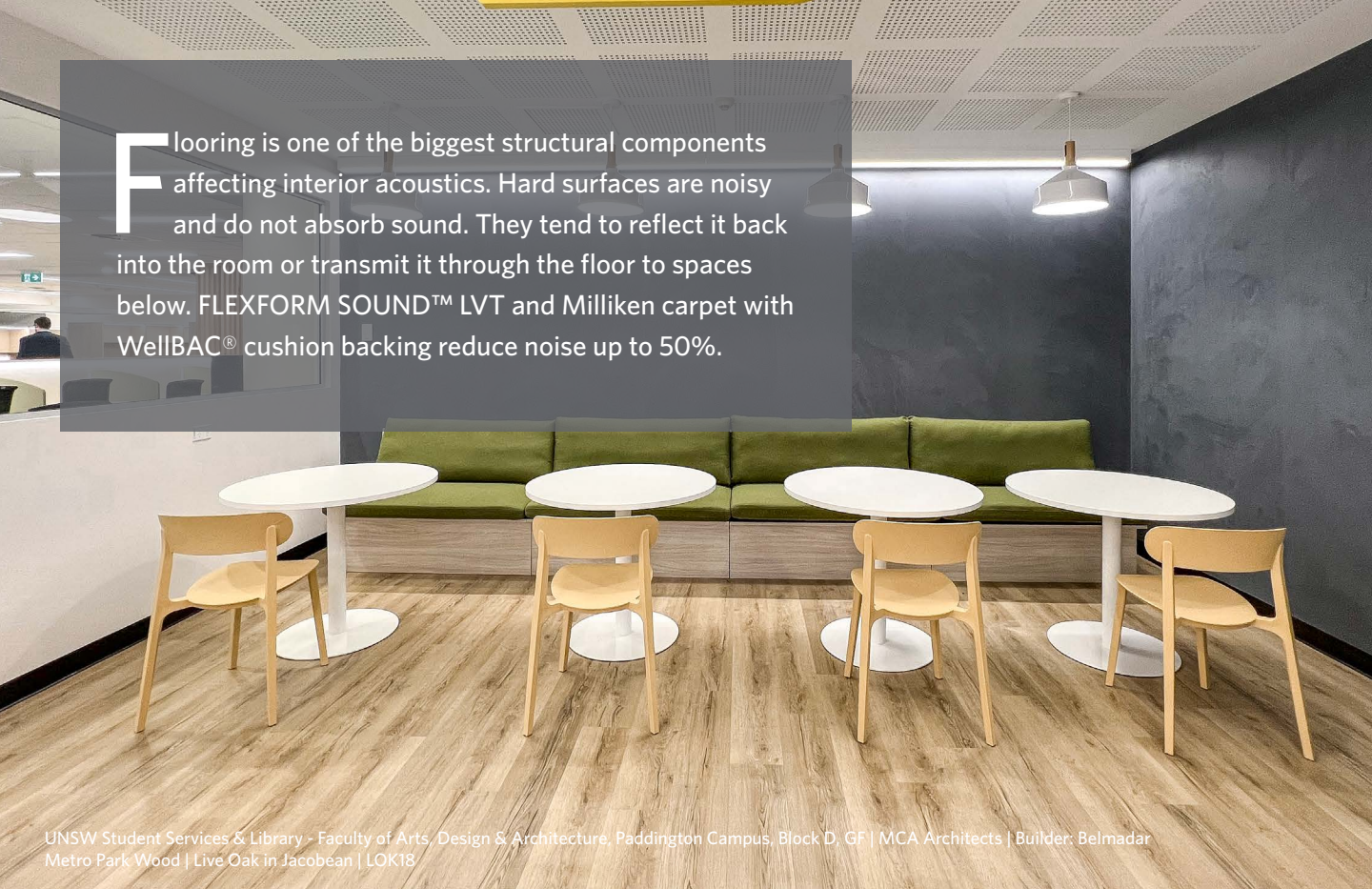
· Improve student behaviour

MILLIKEN COULD BE THE ANSWER TO A LOT OF PROBLEMS

NOTES

GOOD VIBES

Flooring is one of the biggest structural components affecting interior acoustics. Hard surfaces are noisy and do not absorb sound. They tend to reflect it back into the room or transmit it through the floor to spaces below. FLEXFORM SOUND™ LVT and Milliken carpet with WellBAC® cushion backing reduce noise up to 50%.



UNSW Student Services & Library - Faculty of Arts, Design & Architecture, Paddington Campus, Block D, GF | MCA Architects | Builder: Belmadar
Metro Park Wood | Live Oak in Jacobean | LOK18



Midcoast Forster Library NSW | TVS Architects | Photographer: Matthew Carbone
Water Yuludarla | Jagun in Blush (JAG146-100) and Mayala in Blush (MAY146-100) | Jagun in Oceanic (JAG73-180) and Mayala in Oceanic (MAY73-180)

ACOUSTICS

Milliken = The quietest floors in the industry

Sounds good to me!

• Noise causes stress

← Ha! Tell me about it.



• Noise hurts concentration

• Our WellBAC cushion backing tiles absorb 60% more noise and transmit 50% less noise than hardback

• Acoustic technology for carpet and LVT

• FlexForm Sound LVT

GAME CHANGER!

I can't even imagine a quiet school

NOTES



WellBAC®

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



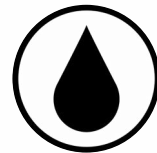
UNDERFOOT COMFORT

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



ACOUSTIC VALUES

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



MOISTURE MITIGATION

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



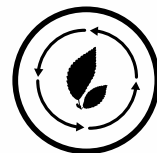
MATERIAL HEALTH

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



INDOOR AIR QUALITY

Enhanced Indoor Air Quality (Low VOC) for improved occupant and installer well-being.



CIRCULARITY

100% Recyclable at the 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

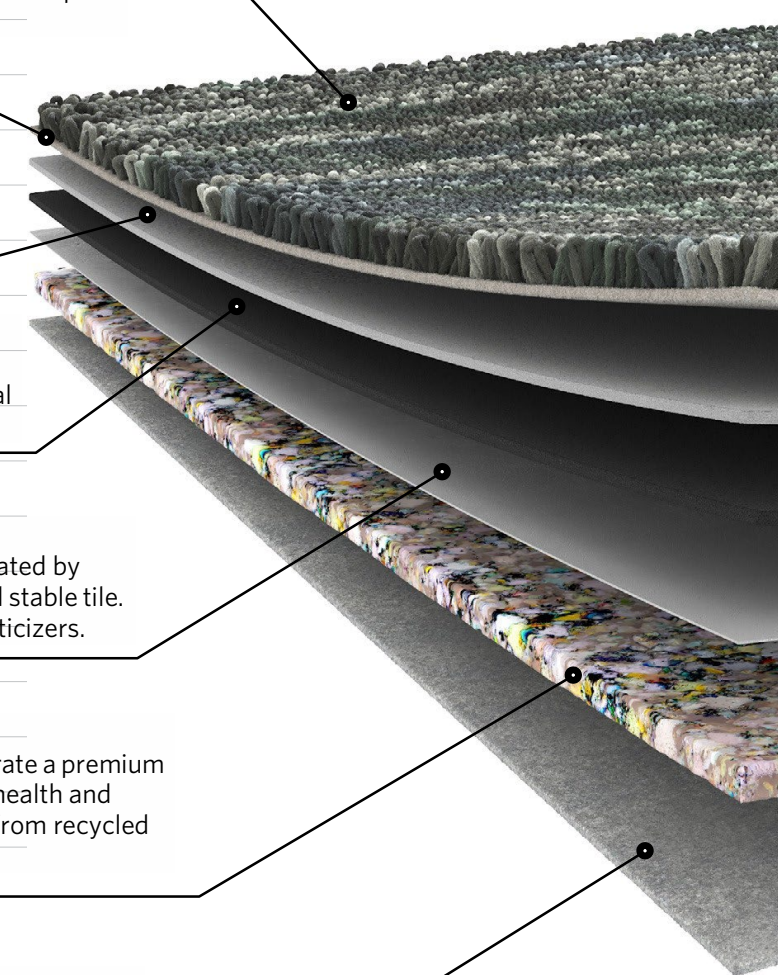
WellBAC® Comfort and Comfort Plus incorporate a premium cushion layer, designed to provide additional health and wellness benefits. Milliken's cushion is made from recycled polyurethane foam.

NOTES

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.





= COMFORT =

Reduce Teacher Fatigue

- Teachers stand in front of their classes
- Standing on hard floors is bad for joints
- Milliken carpet is cushioned
 - Reduces muscle fatigue by 25%
 - Reduces Heel impact loads by 30%
 - Lasts up to 50% longer than conventional carpet tiles

Keep my teachers
HAPPY!

NOTES



CBC Fremantle Education Facilities, Western Australia | Site Architecture Studio | Photographer: Dion Robeson
Beyond Chroma | Chroma in Duck Egg (CMA172), Cool (CMA172-132) and Carbon (CMA174)



UNSW Student Services & Library - Faculty of Arts, Design & Architecture, Paddington Campus, Block D, GF1 MCA Architects | Builder: Belmadar
Clerkenwell | Travelling Line (TVL154-180-174) and Three Corners (THC102-20-79)

MOISTURE

Our school is built on refilled land

Moisture is a problem for a lot of schools

- Mould, mildew
- Poor air quality makes schools unhealthy
- SOLUTIONS: Carpet with WellBAC cushion backing
 - LVT adhesive solution to alleviate moisture
 - Permeable, moisture evaporates
 - Eliminates the need to carry out extensive moisture mitigation before installation

Ask my rep

Talk about air quality and health at next internal meeting



NOTES



CLEANLINESS

Keep DIRT out of our school

• Milliken Entrance Flooring Tiles keep out up to 95% of dirt and contaminants

• It's called OBEX

← **nobody** [★]
Can compete with
Milliken

(Tile / Grid)

- Save money on maintenance

- Better indoor air quality

★ YES! ★

- Safety, cleanliness, long-term wear and tear

NOTES



Monash University CL28 | Kennedy Nolan Architects | Photographer: Derek Swalwell
Custom Design



North Melbourne Primary School | ARM | Photographer: John Gollings
Water Yuludarla | Jagun in Ochre (JAG33-59) and Bark (JAG94-59)
Beyond Chroma | Chroma in Brassed Off (CMA231-184)

☺ COLOUR AND BRANDING ☺

School Spirit with Milliken Couture

- Easily match school colours
- Emblems can be printed on carpet
- Quick Ship with flexible and quick lead times

Proprietary!
Milliken invented this!

PrintWorks technology
can digitally print seamless custom designs

This could really ramp up
the atmosphere

* I love the Clerkenwell collection -
lots of colour and design
options...

NOTES





Water Yuludarla Featured Artwork



Ridley College, Melbourne | ARM Architecture | Photographer: Chalk Studio
Left: Water Yuludarla, Yildaah in Ochre (YIL33-59)
Right: Water Yuludarla, Yildaah in Charcoal (YIL6-133)



Star of the Sea Jnr Primary School, South Australia | Edge Architects & Interior Design & Totalspace Design
Photographer: David Sievers
Water Yuludarla, Jagun in Charcoal (JAG6-133), Mayala in Fern (MAY141-180) and Formwork in Pitch (FWK27)

RECONCILIATION THROUGH DESIGN

Connecting to Country

Celebrating diversity and inclusion

- Platform to promote Indigenous artists in mainstream commercial projects
- Design-led collaboration with artists & designers = incorporating Indigenous culture & design in interiors
- Community benefit - royalties paid to artists
- Flexible + Adaptable + Customisable with Country influence

Great way to connect students to Indigenous heritage

NOTES

BRINGING INDIGENOUS ART TO THE FLOOR

Self-sanitising Carpet

Integrated Infection Control



MGUARD+ treatment kills 99% of the SARS-CoV-2 virus within 2 hours of contact with Milliken PrintWorks™ carpet tiles.

MGUARD+ treatment kills 99% of *S. aureus*, *E. coli*, *K. pneumoniae* in 24 hours as per AATCC 174-2.

Duration of protection varies with use.

Powered by HealthGuard®.

Only available in Australia and New Zealand.

Declare.



= MGUARD+ =

EFFICACY

MGUARD+ is proven to kill 99% of SARS-CoV-2 viruses within 2 hours of contact with Milliken PrintWorks™ carpet tiles as per ISO 18184 (2019) testing protocols and *S. aureus*, *E. coli*, *K. pneumoniae* bacteria, and prevent the growth of *A. brasiliensis* fungus as per AATCC 174 (2016) – Part 2&3, 24-hour and 7 days testing protocols.

Evaluation of the potential for skin irritation was conducted by an independent ISO-certified lab through an Occlusive Patch Test on 20 healthy subjects for both Immediate Skin Irritation Potential (ISIP) and Skin Irritation Potential (SIP). No allergic reaction was observed.

ENVIRONMENTAL

SAFE ON SKIN

The anti-viral agent used in MGUARD+ is accepted by the International Nomenclature of Cosmetic Ingredients (INCI) and is commonly used as a preservative in everyday household products, such as shampoos, conditioners, hand soaps and body washes.

The PrintWorks™ carpet tile treated with MGUARD+ meets the low VOC emission criteria set by GBCA/NZGBC, it is Declare Red List Free and does not contain any heavy metals.

DURABILITY

The durability of protection will vary with use.

NOTES

The MGUARD+ treatment is tested to remain 98.22% effective against Omicron BA.2 after 10 hot water extraction carpet cleaning cycles.

NEW INNOVATION

When you choose M/PACT™ products, you can be sure your choice is carbon neutral. M/PACT™ carbon neutral product offset the raw materials and manufacturing carbon footprint* by using 3rd party Verification 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.

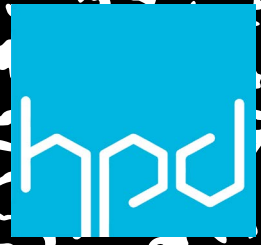
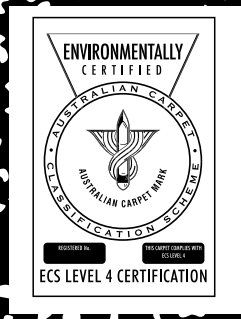
Milliken is fighting
CLIMATE CHANGE

- Responsible sourcing of raw materials
- No harmful chemicals ← Red List Free
- Recycled materials
- Manufacturing close to customers
- M/PACT - Milliken flooring products are carbon neutral everywhere in the world.



Need to do this for future generations!

NOTES



Milliken™

Customer Service: 1800 668 372 (AUS) | 0800 668 372 (NZ)
millikenanzcs@milliken.com | www.millikenfloors.com.au
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