Education

SOLUTION GUIDE

Designing Schools of the Future

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DESIGNING SCHOOLS OF THE FUTURE

Architects, interior designers, estate managers...

You are building the schools of tomorrow.

More flexible, modular, dynamic. Schools designed for everyone's well-being... and to preserve the planet. Schools that are ever more inclusive, more connected, more open.

We ask a lot of you.

You are at the heart of every challenge facing society.

That's why we at Tarkett stand resolutely at your side.

We put the well-being of people and of the planet at the heart of what we do.

We're with you all the way, from decision-making and setup and through the lifecycle of innovative solutions that address your problems and challenges.

We are committed to doing everything we can to support you every day.

Tarkett, supporting the Education Community



STUDIES SHOW THAT THE LEARNING ENVIRONMENT INFLUENCES **EDUCATIONAL ACHIEVEMENT.***

- increasing attention spans, and reducing eye fatigue.
- learning efficiency.
- reducing eye strain.
- in consideration increasing sustainability standards.
- as enhancing staff retention.

· Colour can be used to achieve functional benefits such as helping wayfinding through contrast and signage, · Being able to clearly hear without the distraction of background noise improves communication, working and · Good natural light (supplemented by artificial light when necessary) promotes physical and mental comfort while · Better indoor air quality can prevent asthma and allergies, and reduce absenteeism. • The carbon footprint of a building is extremely important, which is why construction and renovation need to take • Building cleanliness improves student behaviour, creating respect and a sense of pride in the institution as well These are among the factors that create an optimal learning environment conducive to students' academic personal development and staff retention.

* Source: University of Salford, Manchester - Clever Classrooms / CIRI (Cleaning Industry Research Institute) Healthy School Environments and Enhanced Educational Performance.

CARING ABOUT INDOOR AIR QUALITY & WELL-BEING

Children spend five days out of seven at school, mostly indoor. Studies show that the air inside a building is up to five times more polluted than the air outside. This is attributed largely to concentrations of Volatile Organic Compounds (VOCs), dust and allergens. One of the highest risk factors for developing asthma, especially among infants, is exposure to indoor allergens. This is why indoor air and environmental quality matter so much to the overall well-being of the young.

Asthma affects 14% of all children worldwide and is a major

CONSIDER **INDOOR AIR** QUALITY

cause of school absenteeism.*

Indoor air quality is impacted by airbone particules (such as dust), and Volatile Organic Compounds (VOCs). You may reduce emissions at source by wisely choosing construction materials, furniture and cleaning agents.



GOOD MATERIALS FOR BETTER INDOOR **ENVIRONMENT**

Carefully-selected materials will have an influence on the indoor environment and will reduce potential effects on children's health. As an example, phthalates are common contaminants in the indoor environment, and research suggests that they may have a detrimental effect on human health.

OUR RECOMMENDATIONS

- Select floor and wall coverings which are guaranteed to have the lowest VOC emissions, ideally 10 to 100 times lower than European standards requirements (<1000µg/m³ after 28 days).
- Choose surface treatments that need less maintenance (with no stripping or polishing) to prevent exposing pupils and academic staff to harmful chemicals.
- · Reduce concentration of fine dust in the air by selecting innovative floors/carpets that capture the invisible dust particles in the air and prevent them from becoming airborne again until they can be vacuumed away.
- Go further and choose asthma and allergies approved products, such as Allergy UK approval which assess the reduced presence of allergens on the surface and also the composition of the flooring and wall coverings.

OUR RECOMMENDATIONS

- · Opt for flooring solutions that are phthalatefree.
- · Ask for transparency from your supplier. Third-party endorsements, such as the Material Health Statement (MHS) which assess materials for their impact on environment, people's health, is a reliable source of information.
- · Select suppliers that have knowledge of the chemical components of each raw material and who continuously optimise towards safer materials. (Cradle to Cradle® approach is a reference to developing products).



CHILDREN'S BREATHING: THE CRUCIAL DIFFERENCE

Why are young lungs different? A child's respiratory system is not simply a miniature version of an adult's. The lungs of a newborn baby have around 50 million alveoli, while adult lungs have 300 million. This is why air quality and emissions are even more important for younger children.



* Source: Forum of International Respiratory Societies (FIRS)

REDUCING THE ENVIRONMENTAL IMPACT OF EDUCATIONAL BUILDINGS

Designing sustainable buildings and adopting a life-cy cle approach for their construction is key to reducing their environmental impact. It also contributes to the students' and staff's well-being and good health. More and more parents and local authorities want environmentally friendly buildings that set an example to others and form a focal point for their surrounding communities. Reducing CO_2 emissions when bulding a school is nowadays a key challenge for participating in the overall reduction in global warming.

In 2015, the COP21 Paris Agreement set out a global framework to avoid dangerous climate change by limiting global warming to well below $2^{\circ}C$ and pursuing efforts to limit it to $1.5^{\circ}C$ by 2050.

REI

REDUCE THE CARBON FOOTPRINT

One of the main challenges in the future will be to limit our environmental footprint to mitigate climate change. The construction of education facilities needs to participate, and reduce the embodied and operational carbon emissions of the buildings.



Closing the loop on waste, preserving our planet's natural resources and developing a circular economy is one of the main ways of reducing our impact on climate change.

OUR RECOMMENDATIONS

- Ask for product specific **EPDs*** to help you calculate the carbon emissions of the building.
- Select suppliers that are constantly working to reduce the impact of their products during the entire life cycle.
- Ensure that selected materials are truly low carbon on the whole building life cycle and not only "Cradle to Gate" (i.e. from raw material extraction to the factory gate).
- Choose **"Cradle to Cradle"** approach encouraging product end-of-lif e recycling which has a high impact on effectively reducing carbon footprint.
- Consider cleaning and maintenance optimisation: it will also impact embodied carbon emissions.

* Environmental Product Declarations

**Source: https://www.un.org/sustainabledevelopment/climate-change-2/

OUR RECOMMENDATIONS

- Choose productions that preserve natural resources through responsible sourcing, use of materials that are abundantly available in nature, rapidly renewable or recyclable.
- Opt for floors produced with recycled materials instead of raw materials.
- Consider partners that can recycle not only production waste but also post-use waste
- Make sure that your selected suppliers have an effective recycling programme in place, by both collecting and treating waste.



THE RIGHT CHOICE OF FLOORING CAN HELP ACHIEVE THE HIGHEST STANDARDS OF SUSTAINABILITY

Green building labels (such as BREEAM, DGNB, LEED, WELL and others) set guidelines and standards for indoor air quality, water and energy consumption, and waste management. The table below shows how flooring can address these requirements and help gain points for obtaining sustainable labels.

CLIMATE AND CIRCULAR ECONOMY	 Avoid sending construction waste to landfill, encouraging recycling Select building materials whose environmental impact are low Select building materials whose environmental impacts are quantified 	ReStart®, ou Offering records floorings (I Using recyrd Availability Producing GBCA PVC EF
GOOD MATERIALS	 Select products whose raw materials present no harm to people or environment Select products that are durable (avoid degradation) and are easily maintained/replaced Select suppliers who have ISO 14001 and 9001 certifications 	Availibility Our PVC is The materi Tarkett is I: Resilient flu
HEALTH AND WELL-BEING	 Select low-emitting materials Acoustic Comfort Visual comfort 	Floorings v standards Floor score Products tt Floor finish Floorings v Sloorings v Sloorings v Sloorings v Sloorings v

Tell us about your objectives and the green-label certification you're aiming for, and our teams will advise you on the best flooring solutions.

TARKETT CONTRIBUTION

- our take-back and recycling programme where we certify the amount you contribute to ecyclable products, and we effectively recycle post-use some categories of our (lino, homogeneous, carpet...)
- cled content in the production of our products
- y of product specific EPDs
- flooring collections containing bio-based or bio-sourced materials.
- PD°
- of MHS
- s phthalate-free*
- rials we use are Cradle to Cradle assessed by a third party
- ISO 14001 and 9001: 2015 certified
- floorings that are durable and can easily be repaired or replaced



opean production sites

- with VOC emissions level between 10 and 100 times lower than the most stringent
- re certified products (low emitting materials)
- that are assessed and approved by Allergy UK
- shes contribute to reducing impact noise and increase sound absorption
- with LRV between 20 and 60% as recommended by the EN 12464-1 Lighting standard



COMMITING TO SUSTAINABLE SCHOOLS



We continuously work on closing the loop on waste, using more recycled content to preserve our planet's natural resources, and ultimately reducing our carbon emissions and impact on climate change.

- 6 recycling centres and 5 sustainable production sites in EMEA
- Our ReStart[®] programme offers hassle-fr ee flooring take-back
- Recycling waste and post-use
- Using and increasing use of recycled content in our products
- · Continually working to reduce our products' carbon footprint - scope 1 to 3

WHAT WE CAN OFFER YOU

- · We help you hit your sustainability targets and reach green building labels such as LEED, WELL and BREEAM.
- · We offer products with industry-best accr editation levels (Cradle to Cradle certified® products, Allergy UK,...)
- We offer products with low carbon footprint (certified with EPD)
- We provide you a hassle-free tak e-back and recycling scheme and certify the amount you contribute, recycling not only waste but also post-use.
- · We provide detailed & specific Environmental Product Declarations (EPD) and Material Health Statements (MHS), which offer total transparency for the ingredients used in our flooring.

• Greenstar RPV best practice products (RPV \ge 12)



We offer radical transparency about our products and subject ourselves to external scrutiny, so you can be clear on the health and environmental performance of our flooring and confident in your choice.

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GOOD

MATERIALS

- Phthalate-free products Responsible use of PVC
- · Full transparency on our production, providing thirdparty assessments (EPD, MHS)
- Product development following Cradle to Cradle® approach

We produce floorings that will not have negative impact on health, and participate in creating healthy indoor spaces with the highest standards of Indoor Air Quality.

- Floors with VOC lower than the most stringent regulations
- Asthma & allergies certifications
- Developing cleaning protocols to reduce use of biocides and harmful chemicals
- · Reducing the concentration of fine dust in the indoor air

EASY CHOICES WITH OUR CIRCULAR SELECTION

The need for sustainable flooring is obvious in many of your projects, but the choice may not be always easy to do.

You often wonder which one will participate better in the overall carbon footprint reduction, but also suits your needs for learner-centric buildings? Your quest for sustainable flooring can be complex and confusing, and sometimes you just don't have all the information you need.

At Tarkett, we want to help you make informed choices.

That's why we created our "Circular Selection", with products that respect all of the below criteria:





WHICH PRODUCTS ARE BEST SUITED FOR EDUCATION PROJECTS?





TARKETT LINO Bio-based linoleum flooring

 Cradle to Cradle certified® Gold or Silver

* With a third party assessment made according to Cradle to Cradle® principles.













IMPLEMENTING THE LIFE CYCLE COST APPROACH

The economic aspect is key in the education sector where costs must be optimised and carefully considered. However, choices must not be driven only by the initial cost of purchase and installation. The overall life cycle of the product must be considered (durability, reparability, cleanability, and maintenance). Wrong choices can end up in costing more over time, both environmentally and economically.



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costs.

Purchase and installation represent less than 10% of the total cost of the overall flooring life cycle.

90% of the total cost is related to cleaning and maintenance.

and staff health.

ANALYSE LIFE CYCLE COST

Assessing the total cost of materials over the whole building life cycle means analysing not only the initial cost of purchase and installation, but also cleaning costs, replacement costs and consumption of water, energy and chemicals required for maintenance.

OUR RECOMMENDATIONS

Select products that will last, provide

consistent long-term performance, and offer

easy installation as well as low life cycle

• Choose flooring that's quick and easy to

• Do not discard what seems an expensive

option upfront: a top-quality surface treatment can reduce maintenance costs because it needs less intensive cleaning.

clean and maintain. Removing the need for

wax or stripper will also save cost and time.

OUR RECOMMENDATIONS

MAKE CLEANING EASIER

AND HEALTHIER

Cleaning regimens often involve chemicals and are

physically demanding, which can impact maintenance

- Choose floor coverings with no requirement for wax or stripper and the chemicals they contain.
- These floors will be easier and quicker to maintain, and will lower impact by reducing chemical, water and energy consumption.
- They will also **minimise staff exposure to chemicals**.



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USING COLOUR TO SUPPORT STUDENTS' LEARNING ABILITY

Designing schools and other academic facilities should aim to encourage students' ability to learn and help create a positive educational environment. More than just part of the decor, colour directly affects how people feel and behave, particularly in their formative years, and the colours which have the greatest impact on performance are the ones people like best. The choice of colour for school and university interiors should be guided by the age of the students who use them, as the reaction to colour varies by age group.



Memory improves by **55-78%** in children surrounded by their preferred colours.*



USING COLOUR TO SHAPE THE ENVIRONMENT

Colours, patterns and materials can help to define spaces and support their purpose, such as providing stimulation or encouraging a learning mindset.



COLOUR TO AGE

Use the emotional effect of colours to support the function of the space concerned (e.g. promoting sociability or creating reassurance, calming the mood or inducing concentration).

OUR RECOMMENDATIONS

- Use different materials, patterns and colours to differentiate areas according to the activity - from learning zones to transition spaces or sociabilisation areas
- · In large spaces, colour can help with spatial orientation, support function and create a welcoming atmosphere.
- · Choose materials according to the needs of flexibility and modularity, to be able to change a space according to the situation or occasion

OUR RECOMMENDATIONS

- Switch colours, materials, and patterns to stimulate perception and emotion according to age.
- Adapt colour combinations to meet the evolving needs and tastes of children during their development.
- Vary the coloured spaces, saturations and luminosities in order to give all children the chance to feel comfortable in a given space.
- · Adjust the degree of colour saturation for light intensity to prevent glare and eye fatigue.



A COLOUR PALETTE FOR EACH AGE GROUP

Beyond its decorative contribution, colour acts directly on emotions, behaviours and well-being. Harnessing this capability is important for creating high-quality spaces. To better understand the influence of colours and materials in learning environments, Tarkett has conducted extensive interviews with children and students, international schools and childhood experts, interior designers and architects. We can propose palettes of colours suitable for each age group and its educational spaces. These colour suggestions should be used as a working basis and adapted to the specific context of each project.



* Source: Cockerill, I.M. & B.P. Miller: 'Children's Colour Preferences and Motor Skill Performance with Variation in Environmental Colour' (1983)



REDUCING NOISE TO MINIMISE DISTURBANCE

Studies show that noise affects children much more than adults in tasks involving **speech perception** and listening comprehension. Reducing noise in academic environments is therefore important to help students learn effectively. Students themselves generate noise of course, but it also comes from the impact of feet and chairs on the floor above or from communal spaces. **Limiting noise** in study areas like classrooms, lecture theatres and librairies is vital for concentration, while making corridors and cafeterias quieter contributes to a more relaxed atmosphere.



A quiet classroom of 30 students generates around **50dB** of ambient noise, requiring the teacher to speak at 65dB to be heard.*

Intelligibility drops by up to 70% in noisy environments, making concentration and learning much harder.**



MINIMISE IN-ROOM AMBIENT NOISE

Shuffling feet, scraping chairs and falling objects are among the many causes of in-room noise that prevents effective learning and study.

The covering used for floors, walls and ceilings can absorb ambient noise, helping create a calmer environment that encourages concentration.

Movements in

MINIMISE NOISE FROM ADJACENT ROOMS

Movements in corridors or activities in adjacent classrooms increase the surrounding sound level. In some countries, regulation limits the amount of impact noise allowable from overhead to 60dB (EN ISO 717/2).

OUR RECOMMENDATIONS

- Choose flexible flooring over tiling. Ceramic tiles reflect sound and add to the general noise, whereas flexible flooring contributes to reduce indoor ambient noise.
- Choose a **class A<65dB** (NFS31-074) vinyl or linoleum flooring for the noisiest areas.
- Opt for carpet flooring with a high absorption coefficient (ISO 354) for keeping things quieter in large spaces like lecture theatres or libraries.

OUR RECOMMENDATIONS

- A flooring with an **acoustic backing** will significantly reduce impact noise transmission.
- For classrooms, choose a floor with good indentation resistance and acoustic performance to reduce impact sound while preventing damage from chair legs.



HOW FLOORING CONTRIBUTES TO IMPROVED ACOUSTIC COMFORT

The flooring can contribute to reduce impact noise caused by footsteps, rolling furniture, scraping chairs, falling objects in the room, and adjacent rooms. In large spaces subject to reverberations, carpet flooring will contribute to absorb airborne noise.

	TARKETT SOLUTIONS	IMPACT SOUND INSULATION EN IS0717/2	IN ROOM IMPACT NOISE NFS31-074	SOUND ABSORPTION ISO 354
Vinyl on foam backing	Tapiflex 80	ΔLw = 19 dB	Class A Ln,e,w < 65 dB	-
Linoleum on foam backing Linoleum Silend		ΔLw = 19 dB	Class A Ln,e,w < 65 dB	-
Compact linoleum	Linoleum xf ²	ΔLw = 5 - 8 dB	Class B Ln,e,w < 75 dB	-
Compact vinyl	Acczent Excellence 80	ΔLw = 3 dB	Class C Ln,e,w < 85 dB	-
	Air Master	ΔLw > 22 dB	Class A Ln,e,w < 65 dB	0.15a _w
Carpet	Air Master with Sound master backing	ΔLw up to 31 dB	Class A Ln,e,w < 65 dB	0.30a _w
Ceramics	-	-	Class D Ln,e,w ≥ 85 dB	-

* Source: Dr Paul McCarty and Jack Rollow's 2005 Los Angeles Unified School District (LAUSD) study **Source: AFT = American Federation of Teachers

HELPING STUDENTS FLOURISH THROUGH SPORT

Gyms and sport are increasingly recognised as **essential features of the learning environment**. As well as promoting health and well-being, physical education as a collective activity brings people together. With more schools and universities offering sports facilities, the choice of **sports surface** matters more than ever. The main factors to consider are what the surface will be used for and the typical user profile. The right surface will enhance player comfort, make play more enjoyable and **improve performance**, while colours link to the learning environment.

) Up to **80%** of children attending school in Europe only practise sport at school.*



CHOOSE THE SURFACE ACCORDING TO GYM USAGE

Gyms are generally used for sport, but some must occasionally accommodate other activities such as exams or social events. Usage is the first thing to consider when fitting out a gym. Another key factor is the typical gym-u ser profile.

For example, the heaviest the player is the more shock absorbent the surface will need to be.



CONTRIBUTE TO A HEALTHIER ENVIRONMENT

Players breathe 8-10 times more while exercising substantially increasing their sensitivity to pollutants. Playing sport in a healthier environment with good indoor air quality and limited pollutants is a must, especially for children.

OUR RECOMMENDATIONS

- **Sport only:** Prioritise shock absorption, vertical deformation and friction levels that reduce the risk of muscle and joint pain. Users' weight will also help to define the most appropriate sports floor.
- Multi-use: Wear and tear, indentation and rolling load resistance must be factored in.

All these parameters are governed by a European standard: EN 14904.

OUR RECOMMENDATIONS

- Minimise the risk of respiratory disease by choosing flooring with **extremely low VOC** emissions.
- Give preference to floorings that **need less glue** during installation for a more sustainable approach.



WHY DOES EXPOSURE TO UNCLEAN AIR DURING SPORT AFFECT CHILDREN MORE?

Indoor air quality is essential for the health of athletes, especially children whose immature lungs are at greater risk from indoor air pollution.





WITHOUT sports activity

* Source: European Parliament – 2016 briefing – Physical Education in EU schools



ATHLETES during sports activity



CHILDREN during sports activity

PROMOTING ACCESSIBILITY

Today's schools and universities welcome a wide range of people, from students of all ages to teaching, administrative and maintenance staff. Furthermore, efforts to make education more inclusive mean provision must be made for students with disabilities, such as impaired vision or reduced mobility. Difficulty in finding one's way often leads to a loss of confidence and can be unsettling. With so many users, these spaces must be easy to navigate, utilising colours and daylight to promote **traffic flow** and help guide people around the building.



An estimated **19 million children** are vision-impaired.*



Colour contrast is vital to help people with visual impairment identify doors, furniture or changes in floor level, enabling them to perceive their surroundings more easily. Careful combinations of light and colour can give these users the confidence to make full use of the building.

ENSURE SMOOTH TRAFFIC FLOW

Smooth traffic flow can be difficult in large buildings with many users trying to circulate simultaneously, between classes for example. The risk of falling should be considered in areas prone to water and viscous-liquid spillages.

OUR RECOMMENDATIONS

- A difference of at least 30 Light Reflectance Value (LRV) points between floor and wallcovering colours is advisable.
- · Use warning tiles to indicate a level change and tactile strips to help visually-impair ed users navigate entrances and corridors.

OUR RECOMMENDATIONS

- · Use floor colours to help signal and differentiate key spaces.
- · Effective signage should be recognisable, concise and clearly visible to all. Floors and walls can be used for signage.
- Flooring choices will be driven by the likelihood and extent of spillages.



COLOUR CONTRAST CAN HELP WITH IMPAIRED VISION.

These images show how a child with impaired vision is affected compared to a child with full vision. A difference of 30 points LRV makes it possible to distinguish between the floor, walls, board and furniture when moving around, leading to fewer injuries.



USE LRV TO ENHANCE CONTRAST

Light Reflectance Value, or LRV, measures how much light a colour reflects. The higher the difference in LRV, the greater the contrast. LRV is measured on a scale ranging from 0% (pure black that absorbs all light) to 100% (pure white that reflects all light).



* Source: World Health Organisation





A SOLUTION FOR EVERY SPACE

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SPORTS AREAS:

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REDUCE POLLUTANTS FOR A HEALTHIER LEARNING ENVIRONMENT

Specify flooring solutions that help improve indoor air quality. On average, students and teaching staff spend 40% of their day in the classroom. Good air quality not only contributes to well-being and academic performance but also reduces the health risks from asthma and allergies. International standard ISO 16000-6 fixes the maximum permissible TVOC level at <1000µg/m3 after 28 days. However it is preferable to select the lowest VOC level solution.

LEARNING AREAS: CLASSROOMS

Classrooms are becoming more and more flexible to encourage group-based projects, collaboration and creativity, desks in rows are now replaced by modular furniture and rolling chairs allowing quick space reconfiguration. Active learning strategies produce necessarily more noise that can affect users of neighbouring rooms.



TARKETT- RECOMMENDED SOLUTIONS

Tapiflex Excellence 80

HETEROGENEOUS VINYL

- Traffic resistance and easy cleaning with TopClean XP top treatment
- High acoustic performance: sound reduction of 19dB, rated Class A<65dB (NF S31-074)
- 127 stunning patterns and colours
- Visual comfort with matte finish to prevent glare
- Full floor, wall, and stairs coordination
- Good indoor air quality: phthalate-free and very low TVOC emissions

Added value: Combine design possibilities and acoustic comfort

Essence Maze

CARPET TILES

- Stunning geometric patterns in a variety of colours
- SoundMaster acoustic backing offers an impact sound insulation value up to +10dB
- Impact sound reduction $\Delta LW 25 \, dB$
- Cradle to Cradle Bronze certified®
- Optional with 100% recyclable DESSO EcoBase backing or SoundMaster acoustic backing

Added value: Recyclable & good Acoustic performance

AirMaster with SoundMaster Backing CARPET TILES

- Sound reduction improved up to 33dB and 0.25 $\alpha_{\!\scriptscriptstyle W}$ when combined with SoundMaster backing
- Good indoor air quality: reduces the concentration of fine dust in the air
- First and only carpet product awarded with GUI Gold Plus label
- Cradle to Cradle Silver certified®

Added value: Improved Acoustic comfort & good indoor air quality

OTHER SUITABLE RANGES: iQ Acoustic, Tapiflex Excellence and Safetred Universal Acoustic

Find all technical data on pages 40-43



Easy Indoor cleaning air quality



DESSO FIELDS/ FUSE

CONTRIBUTE TO SOUND ABSORPTION

Creating a quiet environment in huge and crowded lecture rooms and libraries can be challenging. Structured and soft surfaces are best for absorbing noise and are even more effective with carpet.



LEARNING AREAS: LECTURE ROOMS & LIBRARIES

The Indoor Environmental Quality (IEQ) in educational buildings is really important knowing that students spend most of their time at school. In places with high density of students like in lecture rooms or libraries, it is especially crucial to ensure good indoor air quality, acoustic, and visual comforts.



TARKETT- RECOMMENDED SOLUTIONS

AirMaster with EcoBase backing CARPET TILES

- absorption coefficient of $0.15 \, \alpha_w$
- Good indoor air quality: reduces the concentration of fine dust in the air
 - First and only carpet product awarded with GUI Gold Plus label
 - Cradle to Cradle Silver certified®

Added value: Acoustic comfort & good indoor air quality

AirMaster with SoundMaster backing CARPET TILES

- Sound reduction improved up to 31dB and 0.30 $\alpha_{\!\scriptscriptstyle W}$ when combined with SoundMaster backing
- Good indoor air quality: reduces the concentration of fine dust in the air First and only carpet product awarded with GUI Gold Plus label
- Cradle to Cradle Silver certified®
- Added value: Improved Acoustic comfort & good indoor air quality

OTHER SUITABLE RANGES: Tapiflex Excellence 80, Linoleum Silencio xf²

\\|// (\bigcirc) Heavy-traffic Visual comfort resistance

High acoustic performance: sound reduction of at least 23dB depending on the pattern chosen with a noise-



CREATE SEAMLESS FLOOR TRANSITIONS

Transitioning from one floor covering to another can be difficult because of the difference of thickness. Levelling the subfloor or using transition strips are often required. With Tarkett Fusion, we bring high-quality, resilient luxury vinyl tiles and carpet tiles together. Produced in tile or plank format across a range of patterns, colours and styles, Fusion offers endless possibilities to create beautiful flooring designs.

COMMUNAL AREAS: TRANSITIONAL SPACES

Learning environments should support the shift from passive learning to active learning. Thus, the role of transitional spaces grow in importance as they offer opportunities for social interactions and informal learning. These large spaces should incorporate a variety of human scale spaces to avoid feeling overwhelmed and to create inviting environments. Playing with floors can help to create distinctive spaces in an open floor plan.

TARKETT- RECOMMENDED SOLUTIONS

iD Naturals 70 LUXURY VINYL TILES

- 64 nature-inspired timber and stone designs / 18 locally stocked colours
- Extremely durable for high traffic areas
- Unequalled resistance to wear thanks to the new TEKTANIUM™ PU coating with ultra matte finish
- Minimal visible pattern repeat for up to 12m²
- High-definition printing

Added value: Variety of designs and formats to play with

AirMaster[®] EcoBase[™]

CARPET TILES/LUXURY VINYL TILES

- High quality for high traffic areas with 15dB sound reduction
- Easy to install and just as easy to remove, without damaging the substrate
- 7 formats that can be mixed together
- designs, to ensure seamless transitions without any strips

Added value: Variety of contrasting textures to play with

OTHER SUITABLE RANGES: iQ Range, Acczent Excellence 80, iD Inspiration Ultimate

Good indoor air quality: phthalate-free and very low TVOC emissions (<10µg/m³ after 28 days)

Perfect fit with carpet tiles thanks to similar thicknesses (difference in height is < 2.5mm) and matching

BOOST STUDENTS' SENSE OF BELONGING TO THE SCHOOL USING OUR FLOORCRAFT SERVICE

Inviting and safe spaces with effective wayfinding systems give students feelings of security, inclusion and community, and contribute to creating a strong school's identity.

Our floorcraft sonic-cutting customisation service allows elements from basic lettering to logos or more sophisticated design elements to be incorporated into our flexible floor covering. You can choose pre-existing playful designs from our catalogue or wayfinding features which can easily be integrated for attractive and useful signage.

You can also provide a logo, graphic or pattern for a bespoke project.

COMMUNAL AREAS: CORRIDORS

If the building is a human body, the corridors are its veins. Students and teachers use them to circulate between classrooms and other areas. Corridors must promote wayfinding but also withstand heavy wear while being quick and easy to clean.

TARKETT- RECOMMENDED SOLUTIONS

Tapiflex Excellence 80

HETEROGENEOUS VINYL

- Traffic resistance and easy cleaning with TopClean XP
- High acoustic performance: sound reduction of 19dB.
- 127 stunning patterns and colours
- Visual comfort with matte finish to prevent glare
- Full floor, wall, and stairs coordination
- Good indoor air quality: phthalate-free and very low TV

Added value: Combine design possibilities and acoustic co

Linoleum xf^{2™}

LINOLEUM

- Easy cleaning and maintenance: xf² surface treatment
- Made of 76% of bio-based materials and Carbon negative
- Good indoor air quality with very low TVOC emissions
- Cradle to Cradle Silver certified®
- Allergy UK approved
- Recyclable through our ReStart® Programme (Installati

Added value: Bio-based and durable materials

OTHER SUITABLE RANGE: iQ Range, Safetred

ProtectWall 1.5

- High-performance wall protection from stains,
- Traffic resistance and easy cleaning with TopCl
- Full floor & wall coordination
- Good indoor air quality: phthalate-free and very .
- Linowall

PROTECTION

WALL I

- 10 colours and simple patterns, ideal to coordin
- Allergy UK approved
- Exclusive xf² surface treatment for excellent durability, cleanability and stains resistance .
- Cradle to Cradle Silver certified®

Visual comfort	Wall protection
^o top treatment rated Class A<65dB (NF S31-074	4)
OC emissions comfort	
(no wax no polish) and very favo	ourable life cycle cost
tive production (stages A1-A3)	
ion and post use waste)	
· ,	
scratches and impacts lean XP top treatment	
low TVOC emissions	
acto with Etrucoc flags	

FIND THE RIGHT BALANCE BETWEEN ACOUSTIC PERFORMANCE AND RESISTANCE TO DENTS

A lower indentation value offers better resistance to dents from chair and table legs. The right balance between withstanding indentation and reducing noise ensures acoustic comfort and a good-looking floor able to cope with impacts from furniture legs over time.

COMMUNAL AREAS: CAFETERIA

Mealtimes represent a welcome break in the academic routine, offering students the chance to relax and mix with their peers. Filled with the sound of voices, laughs and scraping chairs, the cafeteria can be a noisy place. The food preparation and serving areas are prone to stains and spillages too, so the floor covering must ensure a pleasant, hygienic environment for students and staff.

Cafeteria Essentials

TARKETT- RECOMMENDED SOLUTIONS

Acczent Excellence 80

COMPACT HETEROGENEOUS VINYL

- Traffic resistance and easy cleaning with TopClean XP top treatment
- Visual comfort with matte finish to prevent glare
- 127 stunning patterns and colours

Full floor, wall, and stairs coordination Good indoor air quality: phthalate-free and very low TVOC emissions Added value: Combine design possibilities and performance OTHER SUITABLE RANGE: iQ Range

ProtectWall 1.5

- WALL PROTECTION
- Full floor & wall coordination
- Good indoor air quality: phthalate-fr ee and very low TVOC emissions

		PA
Visual comfort	Wall protection	Resistance to indentation and abrasion

High-performance wall protection from stains, scratches and impacts Traffic resistance and easy cleaning with TopClean XP top treatment

OMNISPORTS REFERENCE MULTI-USE Teddy Riner Gymnasium - LESQUIN, FRANCE

CHOOSE THE RIGHT SPORT FLOORING

Usage and user profile will drive the choice.

Multi- sports	POINT ELAST				FLOORINGS
Type of usage Multi- use	ts Vith an adapted floor protection		With an adapted floor protection	~	With an adapted floor protection
Athletes' weight	letes' weight Light /Medium			n/High	Light / Medium / High
Sport performances	Sport High sports performance Vinyl solutions performances ● Multi-spo rts, versatility and cost effectiveness		Very high performance Wooden systems and wooden sub-construction associated with compact resilient flooring Performance and energy for competition level	Very high performance Wooden sub-construction associated with compact resilient flooring Performance and multi-use	Very high sports performance Wooden sub-construction associated with compact resilient flooring with cushion backing ▶ Performance and extreme comfort
	Omnisports	s Reference			
Tarkett solution	. Multi-use	. Omnisports Active + . Omnisports PurePlay"	. Reflex M Evolution . Multiflex M . Omnisports Compact	. Omnisports Compact	Omnisports Reference Multi-use

SPORTS AREAS: SPORTS HALL

Sports halls or gyms need to be versatile, often catering for users ranging from pupils just starting school to university-age adults. The demands placed on the flooring by an 11-y ear-old weighing 35kg won't be the same as those of a 25-y ear-old weighing ar ound 100kg. As well as being sports areas, gyms sometimes have to double as examination halls, party or performance venues requiring a multi-use floor.

Comfort for athletes

Indoor air quality

TARKETT- RECOMMENDED SOLUTIONS

Omnisports Reference Multi-Use VINYL FLOORING

- Ideal flooring for multi-sports practice and non-sporting events
- P1 level shock absorption > 25%
- Exceptional resistance to static loads (chairs, tables, bleechers,...)
- Good indoor air quality: phthalate-free and very low TVOC emissions
- Easy cleaning thanks to TopClean XP PUR surface treatment
- Allergy UK approved
- GreenLay installation method: 98% glue free Shorter installation downtime (-20% vs a fully glued one)
- FIBA and IHF certified

Added value: Multi-sports and multi-use performances

Multiflex M

WOOD FLOORING

- Comfortable solution for multi-sports up to competition level and leisure facilities
- Perfect shock absorption and vertical deformation balance (A4 level)
- Loose lay installation system
- Ideal for renovation projects: 38mm thickness
- FIBA certified

Added value: Multi-sport wood system fast and easy to install

Easy cleaning

GRANIT SAFE.T

PREVENT SLIPPING IN WETROOMS

- A floor's degree of slip-resistance must be selected depending on:
- Whether students wear shoes or not, and then the respective standards (barefoot or wearfoot standard)
- Type of liquid spillage: water and/or viscous material (oil, grease...)

AREAS WHERE SHOES ARE WORN	SHOWERS
AS 4586 Wet Pendulum *96 Slider	AS 4586 Wet Pendulum (Bare foot test) *55 Slider
P4	Р5
P4	Р5
	AREAS WHERE SHOES ARE WORN AS 4586 Wet Pendulum *96 Slider P4 P4

SPORTS AREAS: CHANGING ROOMS, SHOWERS & TOILETS

Water spillage is the main consideration in these areas, with bare feet increasing the chances of slipping and falling. Flooring that can handle damp conditions will minimise the injury risk for users, and ease of cleaning matters too for preventing the fungal growth that can occur in moist environments.

TARKETT- RECOMMENDED SOLUTIONS

Primo Safe.T

HOMOGENEOUS VINYL

- Slip-resistant R10 grip
- HFS Flexible for easier coving
- Safety Clean XP top treatment for easy maintenance

Added value: Best in class performance with low-cost maintenance

Granit Safe.T

HOMOGENEOUS VINYL

WALL PROTECTION

- Particularly enhanced offering high slip-resistance for bare feet (P5)
- Sustainable slip resistance throughout product life
- HFS Flexible for easier coving
- Safety Clean XP top treatment for easy maintenance

Added value: Safest solution for bare foot areas

OTHER SUITABLE RANGE: Granit Multisafe

Aquarelle Wall HFS

- Waterproof solution featuring hot-welded joints for increased hygiene

ProtectWALL 1.5mm & CR

- High-performance wall protection from stains, scratches and impacts
- TopClean XP treatment simplifies cleaning and maintenance

Watertight construction

Easy cleaning

Fully watertight system with a limited number of hot-welded, sealed joints with Aquarelle Wall

Fully watertight system with a limited number of hot-welded, sealed joints with Aquarelle Wall

Easy cleaning and maintenance: f ewer joints minimising moisture traps Available in 27 bright, distinctive designs for harmonious combinations with our flooring ranges

TECHNICAL DATA

		Homogeneous compact vinyl					Acoustic Homogeneous vinyl	Heterogeneous compact vinyl	Acoustic heterogeneous vinyl	Compact Linoleum	Acoustic Linoleum
		iQ Eminent	iQ Granit	iQ Megalit	iQ Optima	iQ Surface	iQ Granit Acoustic	Acczent Excellence 80	Tapiflex Excellence 80	Lino xf² 2.5mm Veneto / Etrusco / Style Elle / Style Emme	Lino xf² Silencio
	Transition space	•	•	•	•	•	•	•	•	•	•
	Corridor	•	•	•	•	•	•	•	•	٠	•
	Classroom	•	•	•	•	•	•	•	•	•	•
Location	Cafeteria	•	•	•	•	•	•	•	•	٠	•
	Staircase	•	•	•	•	•	•	•	•	•	•
	Lecture room	•	•	•	•	•	•	•	•	٠	•
	Library	•	•	•	•	•	•	•	•	•	•
	EN ISO 24346	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	3.5mm	2.00mm	3.25mm	2.50mm	3.80mm
	EN ISO 23997	2700 -2800 g/m ²	2700 -2800 g/m ²	2700 -2800 g/m ²	2700 -2800 g/m ²	2700 -2800 g/m ²	3810 g/m²	3100 g/m²	3250 g/m²	2900 g/m²	3350 g/m²
	EN ISO 10874	34	34	34	34	34	34	34	34	34	33
Technical	Wear layer thickness ISO 24340	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	0.80mm	0.80mm	2.50mm	2.50mm
characteristics	Average indentation EN ISO 24343-1 (Best measured value)	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.09mm	0.01mm	0.08mm	0.08 mm	0.20 mm
	Wall protection Resistance to impacts EN 259-2	-	-	-	-	-	-	-	-	-	-
	Wall protection Scratch resistance Scelerometer test	-	-	-	-	-	-	-	-	-	-
Easy cleaning	Top treatment	New iQ PUR	New iQ PUR	New iQ PUR	New iQ PUR	New iQ PUR	New iQ PUR	TopClean XP™	TopClean XP™	xf²™	xf²™
	Slip resistance (shoes on) DIN 51130	R10	R10	R9	R10	R10	R9	R9 / R10 (Woods)	R9 / R10 (Woods)	R9	R9
	Slip resistance BS 7926-2	Low risk of slip	Low risk of slip	Low risk of slip	Low risk of slip	Low risk of slip	Low risk of slip	-	-	-	-
Public building characteristics	Slip resistance (bare foot) AS 4586	P4	P4	P4	P4	P4	P3	-	-	-	-
	Reaction to fire AS/ISO 9239.1	Critical radiant flux 11.0kW/m² Smoke 117%.min	Critical radiant flux 9.8kW/m² Smoke 99%.min	Critical radiant flux 9.0kW/m² Smoke 288%.min	Critical radiant flux 10.4kW/m² Smoke 143%.min	Critical radiant flux 10.3kW/m² Smoke 71%.min	Critical radiant flux 8.8kW/m² Smoke 254%.min	Critical radiant flux 6.7kW/m² Smoke 193%.min	Critical radiant flux 7.1kW/m² Smoke 236%.min	Critical radiant flux 3.4kW/m² Smoke 260%.min	Critical radiant flux 4.0kW/m² Smoke 268%.min
	Impact sound reduction	-	-	-	-	-	15dB	3dB	19dB	6dB	19dB
Comfort	Acoustic Improvement	-	-	-	-	-	Class A (< 65 dB)	Class C (< 85 dB)	Class A (< 65 dB)	Class C (< 85 dB)	Class A (< 65 dB)
& well-being (acoustic	Measurement of sound absorption	-	-	-	-	-	-	-	-	-	-
properties and indoor air quality)	TVOC emissions ISO 16000-6 (After 28 days)	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³
	Phthalate-fr ee	yes	yes	yes	yes	yes	yes	yes	yes	-	_
	Allergy UK seal of approval	-	-	-	-	-	-	-	-	Approved	Approved
	Specific EPD	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	MHS	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	C2C	-	-	-	-	-	-	-	-	Silver	Silver
Environmental credentials	Biobased product % Estimate in kg/sqm	-	-	-	-	-	-	-	-	76% 2.20 kg/m²	63% 2.20 kg/m²
	Take back programme	ReStart [®]	ReStart [®]	ReStart [®]	ReStart [®]	ReStart [®]	ReStart [®]	ReStart [®]	ReStart [®]		
	Recyclable ISO 14021	Post installation & Post use	Post installation & Post use	Post installation & Post use	Post installation & Post use	Post installation & Post use	Post installation & Post use	Post installation	Post installation	Post installation & Post use	Post installation
	Recycled content	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	33%	21%	36%	40%

TECHNICAL DATA

		Luxury Vinyl Tile glue down	Luxury Vinyl Tile Loose Lay	Luxury Vinyl Tile Click	Carpet tiles	Compact heterogeneous safety solution	Wetroom concept		Wall protection		
		iD Naturals 70	iD Inspiration Loose Lay	iD Inspiration Ultimate	Air Master® EcoBase ™ Econyl yarn®	Safetred Design / Universal / Spectrum	Granit Safe.T	Aquarelle Wall HFS	ProtectWALL 1.5	LinoWall	
	Transition space	•	•	•	•				•	•	
	Corridor	•	•	•	•				•	•	
	Classroom	•	•	•	•				•	•	
	Cafeteria	•							•	•	
Location	Staircase	•							•	•	
	Lecture room	•	•	•	•				•	•	
	Library	•	•	•	•				•	•	
	Changing room / Shower & toilets	2 		2 		•	•	•			
	Total thickness EN ISO 24346	2.5mm	4.5mm	6.50mm	6.00mm	2.00mm	2.00mm	0.92mm	1.50mm	2.00mm	
	Total weight EN ISO 23997	3950 g/m²	7500 g/m²	11400 g/m²	4150 g/m²	3340 g/m² (Design & Ion) 3230 g/m² (Spectrum & universal)	2950 g/m²	1500 g/m²	2400 g/m²	2900 g/m²	
	Commercial classification EN ISO 10874	34	33	33	33	34	34	-	-	-	
Technical	Wear layer thickness ISO 24340	0.70mm	0.55mm	0.70mm	-	-	2.00mm	0.12mm	0.35mm	-	
characteristics	Average indentation EN ISO 24343-1 (Best measured value)	≤ 0.05mm	≤ 0.10mm	≤ 0.02mm	-	≤ 0.10mm	0.02 mm	-	-	-	
	Wall protection Resistance to impacts EN 259-2	-	-	-	-	-	-	-	No visible bursts or cracks	No visible bursts or cracks	
	Wall protection Scratch resistance Scelerometer test	-	-	-	-	-	-	-	Excellent No visible scratch with naked eye	-	
Easy cleaning	Top treatment	Tektanium™	TopClean XP™	PUR Ultimate	-	Safety Clean XP™	Safety Clean XP™	-	TopClean XP™	xf²™	
	Slip resistance (shoes on) DIN 51130	R9 / R10	R9	R9 / R10	-	R10 / R11	R10	-	-	-	
	Slip resistance BS 7926-2	-	-	-	-	Low risk of slip	Low risk of slip	-	-	-	
Public building characteristics	Slip resistance (bare foot) AS 4586	-	-	-	-	P3 / P4	Class B (≥18°)	-	-	-	
	Reaction to fire AS/ISO 9239.1	Critical radiant flux 9.3kW/m ² Smoke 161%.min	Critical radiant flux 9.1kW/m² Smoke 172%.min	Critical radiant flux 10.3kW/m² Smoke 230%.min	Critical radiant flux 4.0kW/m ² Smoke 294%.min	Critical radiant flux 8.6 - 9.3kW/m ² Smoke 60 - 83%.min	Critical radiant flux 11.0kW/m² Smoke 88%.min	- Group 1 Average specific extinction	Group 1 Average specific extinction	Group 3 Average specific extinction	
	Impact sound reduction							area 469.4m²/kg	area 131.1m²/kg	area 194.0m²/kg	
	EN ISO 717/2	3dB	8dB	19dB	25dB	4dB	-	-	-	-	
Comfort	Acoustic Improvement NF S31-074	Class C (< 85 dB)	-	Class C (< 85 dB)	-	-	-	-	-	-	
& well-being (acoustic	Measurement of sound absorption ISO 354	-	-	-	0.15α _w	-	-	-	-	-	
properties and indoor air quality)	TVOC emissions ISO 16000-6 (After 28 days)	≤ 10 µg/m³	≤ 100 µg/m³	≤ 10 μg/m³ ≤ 100 μg/m³	-	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	
	Phthalate-fr ee	yes	yes	yes	-	yes	yes	yes	yes	-	
	Allergy UK seal of approval	-	-	-	-	_	-	-	-	Approved	
	Specific EPD	Ves	-	-	ves	Ves	Ves	Ves	Ves		
	MUS	,00			Vee	,00	,	,00	,		
	C2C	yes -	_	yes -	Silver	yes _	yes -	_	_	- Silver	
Environmentel	Biobased product %	_		_	-		_		_	-	
credentials	Estimate in kg/sqm Take back programme	ReStart®	ReStart®	ReStart®	ReStart®	ReStart®	ReStart [®]	ReStart®	ReStart®	ReStart®	
	Recyclable ISO 14021	Post installation	Post installation	Post installation & Post use	Post installation & Post use	Post installation	Post installation	Post installation	Post installation	Post installation & Post use	
	Recycled content	35%	-	17%	EcoBase backing at least 75%, Econyl yarn varies depending on colours	42% (Spectrum & Universal) 40% (Design) /27% (Ion)	25.5%	4.5%	11%	-	

147.11	
wall	nrotection
run	protection

TECHNICAL DATA SPORTS AREAS

			Wooden system		
		Omnisports Reference Multi-Use	Omnisports Active +	Omnisports PurePlay	Multiflex M
Location	Sports Hall	•	•	•	•
Technical characteristics	Total thickness EN ISO 24346	6.20mm	8.10mm	9.40mm	38mm
	Total weight EN ISO 23997	3950 g/m²	4760 g/m²	6200 g/m²	16000 g/m²
	Commercial classification EN ISO 10874	-	-	-	-
	Wear layer thickness ISO 24340	-	-	-	3.50mm (EN ISO 13547)
	Average indentation EN ISO 24343-1 (Best measured value)	-	-	-	-
	Wall protection Resistance to impacts EN 259-2	-	-	-	-
	Wall protection Scratch resistance Scelerometer test	-	-	-	-
Easy cleaning	Top treatment	TopClean XP™	TopClean XP™	TopClean XP™	Sports Lacquer
Public building characteristics	Slip resistance (shoes on) DIN 51130	-	-	-	-
	Slip resistance BS 7926-2	-	-	-	-
	Slip resistance (bare foot) AS 4586	-	-	-	-
	Reaction to fire AS/ISO 9239.1	Critical heat flux 4.0kW/m² Smoke 321%.min	Critical heat flux 4.7kW/m² Smoke 323%.min	Critical heat flux 5.5kW/m² Smoke 335%.min	-
Comfort & well-being (acoustic properties and indoor air quality)	Impact sound reduction EN ISO 717/2	21dB	21dB	21dB	-
	Acoustic Improvement NF S31-074	Class A (≤ 65 dB)	Class A (≤ 65 dB)	Class A (≤ 65 dB)	-
	Measurement of sound absorption ISO 354	-	-	-	-
	TVOC emissions ISO 16000-6 (After 28 days)	≤ 10 µg/m³	≤ 10 µg/m³	≤ 10 µg/m³	≤ 100 µg/m³
	Phthalate-fr ee	yes	yes	yes	-
	Allergy UK seal of approval	Approved	Approved	Approved	-
Sport performances	Usage	Multi-spor ts & Multi-use	Multi-spor ts	Multi-spor ts	Multi-spor ts
	Shock Absorption EN14808	P1 ≥ 25%	P2 ≥ 35%	P2 ≥ 35%	A4 ≥ 55% < 75%
	Vertical Deformation EN14809	P1	P2	P2	A4
	Slip resistance EN13036-4	80 - 110	80 - 110	80 - 110	80 - 110
	Vertical ball reaction EN12235	≥ 90%	≥ 90%	≥ 90%	≥ 90%
Environmental credentials	Specific EPD	yes	yes	yes	-
	MHS	yes	yes	yes	-
	C2C	-	-	-	-
	Biobased product % Estimate in kg/sqm	-	-	-	-
	Take back programme	ReStart®	ReStart®	ReStart®	-
	Recyclable ISO 14021	Post installation & Post use when installed with GreenLay method	Post installation & Post use when installed with GreenLay method	Post installation & Post use when installed with GreenLay method	-
	Recycled content	14%	16%	5%	-

REFERENCES

Human-Conscious Design™

Tarkett Human- Conscious Design[™] is our pledge to stand with present and future generations.

To create flooring and sports surfaces that are good for people and for the planet. And to do it every day.

We deliver on this through the synergy of three commitments:

- 1. Deep human understanding
- 2. Conscious choices. For people and planet
- 3. With you. Every step of the way

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www.tarkett.com.au

