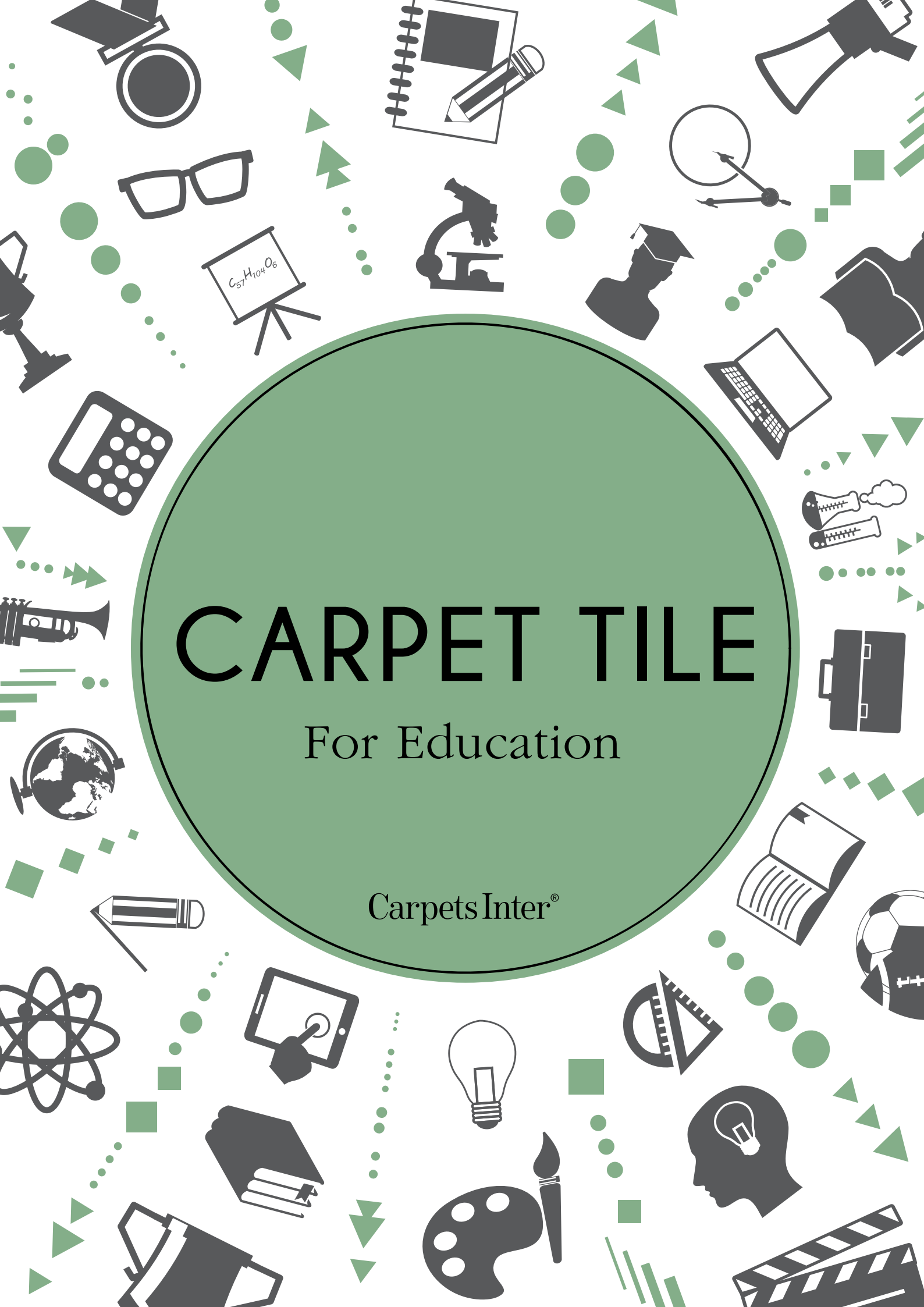


CARPET TILE

For Education

Carpets Inter®

Education

On average, infants and young adults spend more than 15 years of their young lives in educational facilities. With the challenges they face growing-up into well educated young adults, it is important to create an environment conducive to learning, one that is safe and encourages students to become self-motivated in their ability to perform after graduation…

Creative Learning

Educational facilities should ensure that the interior environment is conducive to nurture the learning experience.

Carpets Inter®

FLOORING - SELECTION FACTORS

General

Increasing student numbers, shifting patterns of movement, the desire for improved accessibility and the push toward more adaptable, flexible and collaborative learning environments have all had an impact on educational interior design. Research shows that classroom design and function has a significant effect on a student's learning ability. To improve a student's academic achievement, educational facilities should ensure they meet modern day demands for open, flexible and adaptable spaces with interior environments conducive to nurture the learning experience. The school environments should encourage spontaneous social interaction and peer based learning through focus on day to day events.

The selection of the type of flooring is a critical requirement towards creating the right environment within an educational facility. It is without doubt one of the best ways to improve acoustics and reduce disruptive background noise levels. Educational facility flooring has a surprising impact on acoustics: hard & most resilient type floorings are poor at suppressing noise, whereas carpet excels at noise reduction. A shift trend towards active learning environments requires increased movement within the classroom to facilitate various learning modes, which further exacerbates noise problems. The primary requirement governing the selection of flooring for Education is that it should be 'fit for purpose', i.e. that the functional performance of the flooring should match the users' requirements. This definition covers not only the physical or functional performance, but also the many factors that impact users and occupants, and are a recognized part of the learning environment, e.g. aesthetic, acoustic control, indoor air quality, impact absorbing and comfort.

Thankfully Carpets Inter has the solution. Our EcoSoft PET felt cushion-backed modular carpet absorbs over 50% more noise than hardback carpet, which in turn absorbs 300% more noise than hard flooring.

The following overview elaborates how our custom engineered products provide 'Fit for Purpose' floor covering solutions, all of which can be installed quickly and cost effectively with negligible wastage.

Safety and OHS

A primary element towards creating a safe and functional environment within an educational facility is the type of flooring used....

Carpets Inter®

Material Properties

Simply put, flooring materials can be classified as hard, resilient or soft. Hard and soft materials are easily distinguished and are represented by ceramic tiles at one end of the scale and textile finishes at the other. Resilient finishes by contrast include vinyl sheet, rubber and linoleum, ranging from semi rigid (vinyl composition tiles) to semi soft (acoustic backed vinyl and rubber). Within each category a further level of properties includes imperviousness, smoothness, slip resistance, fire hazard properties, dirt retention/control, component size and method of joining, all of which affect suitability for use.

Performance

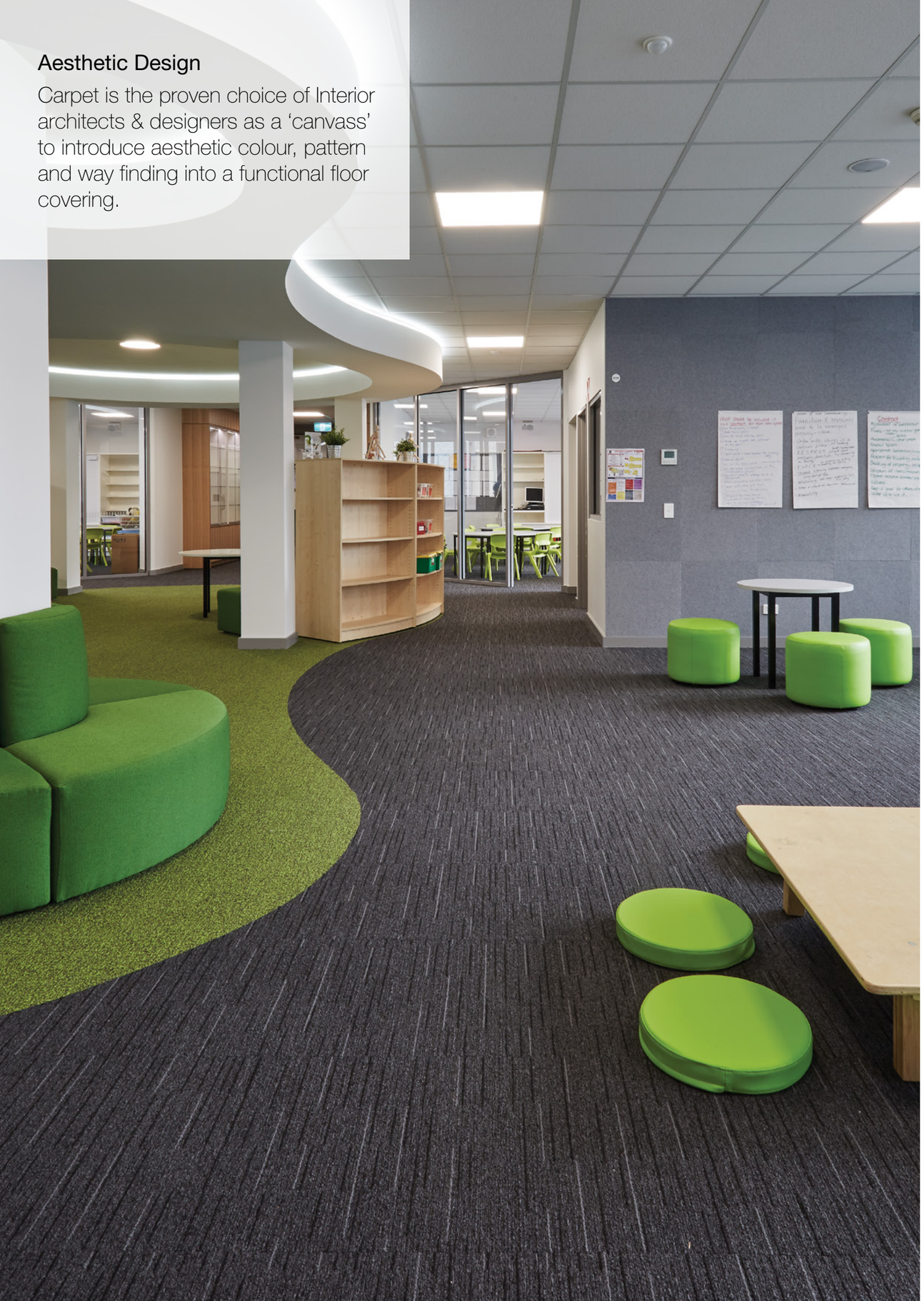
'Fit for Purpose' implies that floor finishes possess the performance characteristics required for the intended use, such as:

- Safety and OHS
- Infection control, hygiene and odor control
- Interior environment quality (IEQ), including acoustic control and indoor air quality (IAQ)
- Reassuring aesthetic and comfort underfoot
- Energy Saving (LEED)
- Fire safety
- Sustainable or low environmental impact
- Ease of cleaning and low maintenance
- Whole of Life Costing (WLC) and Life Cycle Assessment (LCA) efficiency

Many educational facilities are governed by regulation, e.g. accessibility, safety, acoustic, fire safety and OHS. Above all it is essential that the architect and/or the interior designer consult with the client representative and product manufacturer to ensure that the installed product can be signed-off as 'fit for purpose'

Aesthetic Design

Carpet is the proven choice of Interior architects & designers as a ‘canvass’ to introduce aesthetic colour, pattern and way finding into a functional floor covering.



Carpets Inter®

…. Designing out of the box…

Typically educational interior spaces use a combination of flooring types, specifically chosen to ensure high performance across the whole space, ease of maintenance, safety, aesthetic appeal and best return on investment to the facility. Aside from spaces that require various types of hard or resilient flooring, carpet is the proven choice of Interior architects & designers as a ‘canvas’ to introduce colour, pattern and way finding into a functional floor covering.

…. So why go Modular…?

Carpets Inter, arguably the most diversified carpet manufacturer in the world today brings yet another practical and budget conscious floor covering solution for the Education sector. Providing underfoot comfort within a modular floor covering system in a multitude of aesthetic styles to create flexibility of color & textural design conducive to enhance the interior experience of an Educational facility, modular carpet can be easily maintained and has inherent natural performance characteristics that support the learning process.

…… Modular Benefits?

The major advantages that modular carpet provides when compared to roll carpet, resilient or hard flooring include:

- Cushion backed modular carpet will reduce the higher wastage factors attributed to roll carpet by up to 75%.
- EcoSoft® modular carpets are designed to appear as an all over textural floor covering.
- EcoSoft® cushion back will withstand a lot of wear and tear, unlike hardwood or LVT flooring that is easily scratched from heavy and/or sharp objects being dragged over the surface.
- Sophisticated cushioning profile studies have shown that modular carpets have better inherent anti-fatigue properties than hard flooring.
- Interior spaces using hard floor reverberate noise. Cushion backed modular carpets are proven to be one of the most effective acoustical sound barriers within an interior space.
- Hard floors generally feel colder to walk on and may become a slip hazard when wet.
- Cushion backed modular carpets act as a thermal insulator reducing energy consumption and providing the occupant with a balanced temperature-controlled experience.
- The local logistics for delivery and ease of access to high floors and installation without impact damage to other interior finishes compared to larger broadloom carpet rolls make modular carpet more user friendly to handle on-site.
- The logistical cost to install and replace modular carpet is far less than replacing LVT or hardwood flooring.
- Installation professionals generally agree that cushion backed modular carpet requires less floor preparation and is quick and cost effective to install, creating less disruption to operations from furniture removal or prolonged closure. Likewise uplift and disposal after lifespan is easier.
- With a breathable PET felt backing, EcoSoft® modular carpet can be installed over a wet-slab or into locations prone to high moisture, thus avoiding odor or bacteria build-up. In case of leakage from bathrooms, individual modules are uplifted and replaced within minutes.
- Modular carpets are easy to clean and if accidentally damaged are easily replaced by facility maintenance to ensure continuous operations to generate revenue at all times.

PERFORMANCE INDEX - BENEFITS OF CARPETS INTER MODULAR FLOOR COVERING

For the purpose of the following analysis, we compare Hard and Resilient flooring types with Soft flooring types (i.e. Carpet). The below index compares each product types typical performance characteristics under the category of Soft Floor, Resilient Floor and Hard Floor.

Performance Index

Flooring Type	Soft Floor					Resilient Floor		Hard Floor
Source	Carpets Inter Brand				Other Brands	Other Brands		Other Brands
Inherent Characteristic	MegaPlank® Modular Carpet	EcoSoft® Back Modular Carpet	EcoSquare® Back Modular Carpet	ZeroFlow® Back Roll	Flocked Roll	Luxury Vinyl Modular Tile (LVT)	Linoleum Roll	Homogeneous /Ceramic Modular Tile
Accoustics	5	5	4	4	4	2	2	1
Aesthetic (Design)	5	4	4	4	5	3	2	2
Underfoot Comfort	5	5	4	4	4	2	2	1
Energy Saving	5	5	4	4	4	3	3	1
Glare Reduction	5	5	5	5	5	3	3	1
Slip Resistence	5	5	5	5	5	2	2	1
Trolly - Low Rolling Friction	3	3	4	4	2	5	5	5
Moisture penetration ⇊	2	2	4	5	4	5	5	5
Moisture Release ⇈	5	5	1	1	2	1	1	1
Indoor Air Quality (IAQ)	5	5	4	4	4	3	3	3
Environmental	5	5	3	4	4	2	2	1
Operational Logistic								
Product Cost	4	3	5	4	3	2	5	2
Floor Preparation	5	5	4	3	3	1	1	2
Installation	5	5	5	4	4	3	4	2
Cleaning & Maintenance	4	4	4	4	3	3	3	2
Periodic Replacement	4	5	5	3	3	1	1	1
Full Replacement	4	3	5	4	3	2	3	1
Performance Index	76	74	70	66	62	43	47	32

The Performance Index scorecard is based on;

	Inherant Characteristic	Operational Logistic
Scorecard	(Performance / ROI)	(Economic / Cost)
5	Good	Low
4	Above Average	Below Average
3	Average	Average
2	Below Average	Above Average
1	Poor	High

The overall performance Index scorecard portrays a general assessment towards selecting the appropriate floor covering type that is most “Fit for Purpose” for a particular location within an Educational facility. Whilst some products score less than others, they are better suited to certain locations within the facility. A general guide is given below; however a more comprehensive guide to application is available upon request.

Performance Index Suitable Application			
Scorecard	Group	Lifespan (Years)	Suitable Location
Above 70	A	7 > 10	Lecture Rooms, Hallways, Activity Hall, Library, Breakout Area, Kindergarten
65 > 69	B		Lecture Rooms, Hallways, Activity Hall, Breakout Area
60 > 64	C		Hallways, Breakout Area
Below 59	D	10 > 15	Main Entrance Foyer, Science Laboratory, Back of House, W/C

INHERENT CHARACTERISTIC

The below guideline elaborates on the inherent characteristics outlined in the Performance Index, which are the typical performance criteria required by corporate facilities towards selecting the flooring type that is most 'fit for purpose'.

Performance Criteria	Requirement	Inherant Characteristic (Test Data available upon request)
Accoustics	Reduce noise levels within the working environment to ensure occupant focus. Suppress both external (traffic, Air conditioners, human voice) and internal (human voice, lights, A/C, adjacent room, Printer/Copier, Elevator, etc), noise that can be heard when there are no direct activities within the occupied space.	Carpet is an outstanding sound absorptive material compared to resiliant & hard floor. When properly selected, carpet absorbs airborne noise as efficiently as many specialized acoustical materials. Impact sound transmission to adjacent rooms is an acoustical advantage that becomes obvious as soon as carpet is installed over an existing hard-surface floor. No other acoustical material performs the dual role as well as a carpet dual ability to be a floor covering and a versatile acoustical aid.
Aesthetic (Design)	Create interior spaces that introduce a functional and comfortable working environment. Introduction of subtle patterns and textural colors within offices and flowspace to assist navigation and flooring transitions (e.g., Hardfloor > Carpet, Steps, Ramps, etc.,), and bolder patterns into breakout, reception or meeting spaces - SEE 'GLARE REDUCTION' & 'SLIP RESISTANCE' BELOW.	Pattern application into homogeneous & ceramic tile is unavailable, unless alternative colour tiles are installed into grids. Technology now enables organic textures to be applied onto LVT & Vinyl sheet, albeit pattern definition is limited. Modular carpet provides flexibility of pattern and colour within any interior space. In addition a modular carpet system may be installed in alternative configurations to create interesting effects. Laser cut inserts are now available to inset into the carpeted areas, demarcating transitions, signage or navigation for better safety and function.
Comfort Underfoot	Introduce a sense of upmarket appeal to the associates. Create an environment conducive to being respected and nurture the work ethic to encourage best productivity.	Carpet effectively absorbs impact. Carpet will reduce leg muscle fatigue to a greater degree as compared with hard floor impact, which translates to a higher degree of comfort for the company's associates and also assists to increase their overall productivity within the working environment.
Energy Saving	The thermal resistance or insulation value of a buildings interior finishes is important to sustain an ambient temperature for a safe, healthy and balanced environment. Working environments that are too warm or too cold will become an unwanted distraction for the associates aggrevating their health. The optimal temperature for work related performance is between 68°F (20°C) and 74°F (23.3°C). A well-maintained HVAC system is essential for regulating ambiant temperature, but there is more you can do to improve a balanced temperature:	Loss of ambient temperature fluctuation through hard flooring is reduced by the use of modular carpet. In fact in controlled experiments by textile laboratories measuring heat consumption of two identical dwellings (one with and one without fitted carpet), tests showed energy savings contributable to between 8.6% and 12.8%. In contrast in warmer climates where air conditioning systems are utilized to cool an interior, carpet insulated the space to retain cool air otherwise dispersed into hard floor surfaces. As a result, less electricity is consumed to maintain a nominal room temperature where carpets are installed, meaning energy saving that adds to an environmentally freindly building.
Glare Reduction	Associates or members of the public who are visually impaired may find navigating interior spaces a challenge. The need to avoid glare from bright sunlight or spotlights reflecting off metallic or polished surfaces is an important factor within any interior space to avoid disorientation and potential falls.	Suppliers may claim that reflective surfaces allow for dimmer light settings and thus energy savings. However it is very important if using homogeneous or ceramic tiles to use Matt finishes that won't reflect or dazzle and will also assist with better grip. Likewise for LVT & Vinyl sheet, a matt non-reflective surface should be applied for corporate facilities. The pile fibre of a modular carpet is naturally far less reflective and provides an equalibrium of floor reflectivity across the installed space, thus allowing the occupants to maintain visual dimension and focus whilst navigating through the space.

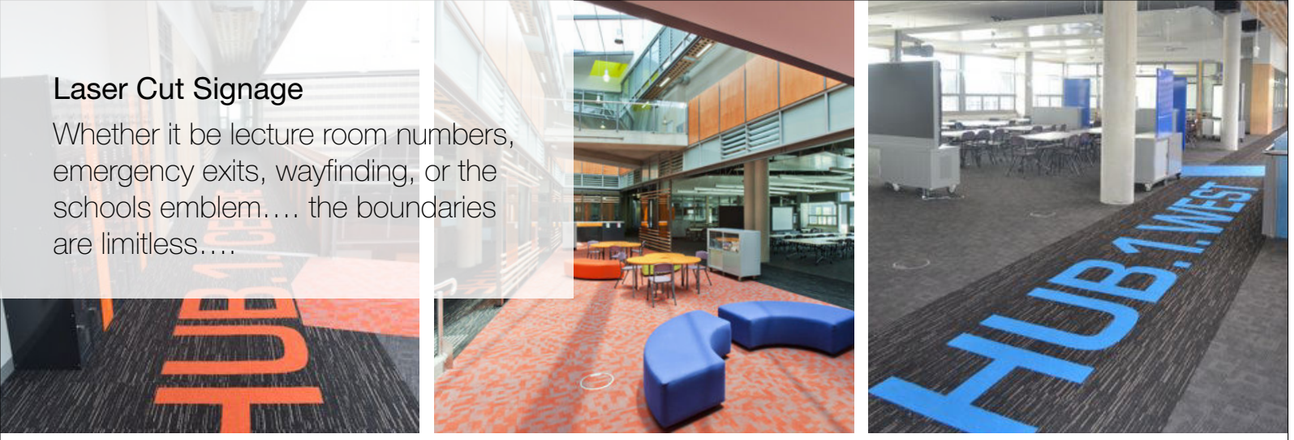
Performance Criteria	Requirement	Inherant Characteristic (Test Data available upon request)
Slip Resistance	Independent research shows that slips and trips are the single most common cause of injury to humans in the workspace. This results in huge physical, medical and financial impact to the businesses productivity. Countries are putting legislation in place to control occupational risk within the commercial buildings interior space to prevent accidental falls, broken limbs and bruising from impact.	Underfoot grip is essential. With a high concentration of occupants moving through the workspace a firm contact with flooring surfaces in imperative. Wherever there is risk of moisture spillage, whilst carpets provide good grip the use of smooth hard floors with slip resistance only in dry conditions can make them slippery and unsafe if/when wet. Independant tests show that whilst falls on carpeted flooring resulted in only 20% injury, it rose to over 50% on Hard floors!
Trolly (Low Rolling Friction)	Corporate facilities, especially a banks public areas are subject to wheel traffic, namely from office chairs, wheelchairs & mobility scooters, cleaning and maintenance utility, vacuum cleaners, etc.	Resilient and hard flooring provide least friction. For carpeted areas a thin dense and non-directional level pile carpet engineered for direct stick down is recommended, as this will provide less rolling resistance for the movement of castor wheeled equipment, less physical effort in pushing or pulling for staff and less potential for side transitioning.
Moisture Penetration ↓↓ EcoSquare®	A primary need in corporate environments is to prevent moisture penetration into the substrate from surface spillage. Any contaminant entrapped under the flooring or floor covering may react with the substrate and cause bacterial attack, VOC's or cause the flooring to prematurely release resulting in a trip hazard.	Our impervious EcoSquare® backing prevents surface spills from penetrating through the carpet into the subfloor where they can't be removed.
Moisture Release ↑↑ EcoSoft®	It is not unusual due to construction lead times for builders to install flooring/floor finishes onto substrates that are still damp or visibly wet. This will likely lead to issues later where moisture remains entrapped under the floor covering, weakening adhesion and causing flooring material to uplift or VOC's to evolve beneath causing hazard to IAQ. Sick building syndrome caused by hazardous interior finishes in the workspace can cause thousands of dollars in lost productivity and add to medical claims.	EcoSoft® is a breathable cushion backing applied to CI modular carpet, which allows moisture to release from the wet concrete slab. • Breathable PET felt backed modular carpet allows for moisture release • No additional floor sealant or moisture barrier required • Alleviates installation delay waiting for damp concrete to dry • Permanent adhesion; eliminates failure of water based adhesive due to moisture entrapment • Avoids odor from degradation of Phthalate plasticisers in PVC • Prevents mold growth • Permanent dimensional stability over new wet slab
Indoor Air Quality (IAQ)	On average we will spend over 40% of our lives in the workspace, such that Indoor Air Quality (IAQ) is a critical factor for any corporate facility. IAQ will impact the occupants performance, health and wellness. Allergens and bacterial particulates are a prominent concern in office environments particularly with centralised air conditioning and are a significant contributor to air quality problems. In locations with hard flooring, these allergens are constantly kicked up into the breathing zone by people walking around. Daily cleaning (sweeping or mopping) does little to alleviate the problem, instead spreading the allergens further around the room.	Modular carpet using 100% synthetic materials perform best in corporate spaces. Carpet will improve indoor air quality by prematurely capturing the airborne dust and small particle soil in its body until they are vacuumed away. This means carpet is the best flooring option for improving indoor air quality: studies show that the breathing zone over a hard floor can contain almost 9 times more breathable particulates than over a carpeted floor! In addition all interior finishes should be tested for VOC's and ensure zero emmission into the environment as an inherant property or as a result of being in contact with other interior finishes. (Please refer to our independant synopsis on Hard Floor verses Carpet to draw conclusions.)
Environmental	Construct Buildings that protect our environment. Leadership in Energy and Environmental Design (LEED) developed in 1993 by the US Green Building Council - Washington, is a third party verification that a building is designed and built using strategies aimed at energy savings, water efficiency, CO2 reduction, improved indoor environment and stewardship of resources / materials. LEED is internationally recognized as the leading scheme of this type.	Carpets Inter is certified in ISO 14001, which means that our environmental management programs meet globally recognized standards. We are committed to minimizing environmental impact at every stage of production by:- • Continued use of environmentally responsible carpet fibers • Renewable, biodegradable and sustainable natural fibers • Recyclable synthetic fibers • Use of Low VOC carpet adhesives and cushions for all our products • Support of environmentally friendly ECOgent™ carpet cleaning chemicals for maintenance • State-of-the-art water treatment facility • Paper recycling programs • Member of the Carpet & Rug Institute

OPERATIONAL LOGISTICS

To fully evaluate the life-span cost relative to Return on Investment (ROI), the overall cost impact should be analysed fully. The below Index compares the overall cost of the selected flooring material, floor preparation required to apply the flooring type, installation (materials & labour), frequency of daily & periodic Cleaning and Maintenance programs (i.e., materials & labour), interim replacement due to localised damage or maintenance and the costs associated with uplift, disposal and floor repair to accept new/another flooring type after expiry of lifespan.

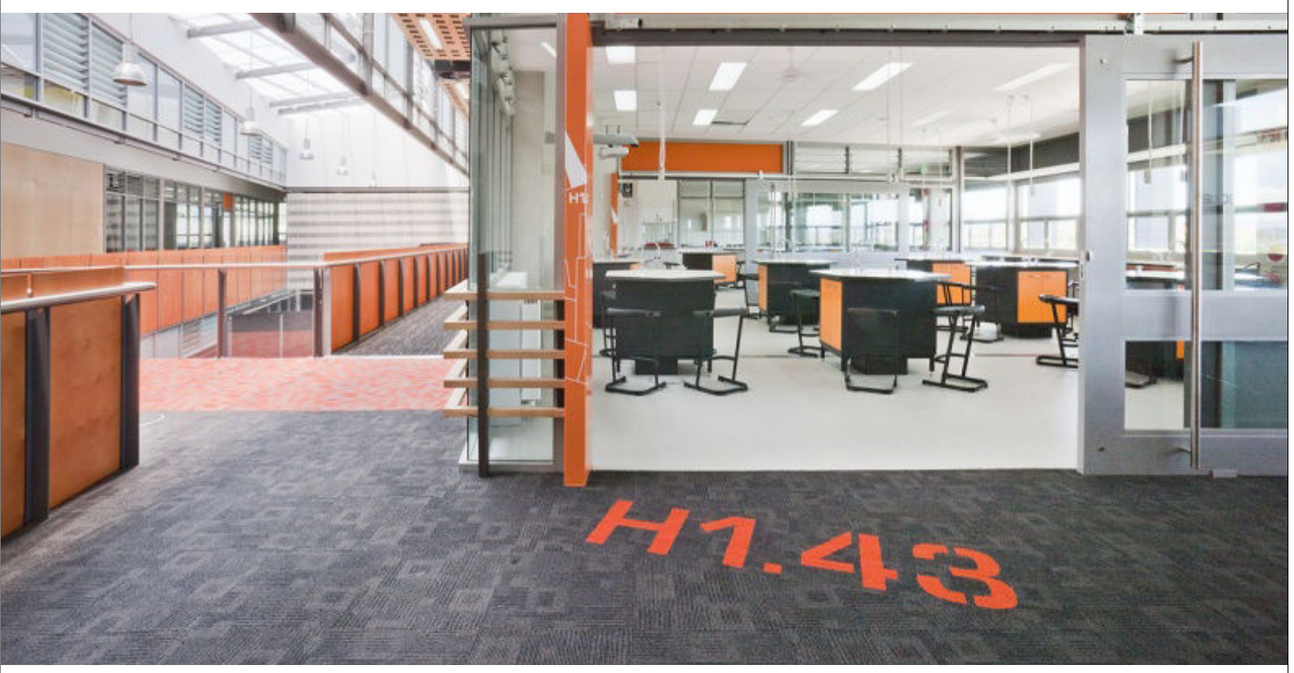
Operational Logistic	Requirement	Inherant Characteristic (Test Data available upon request)
Product Cost	Facility management or the build consultant must evaluate and determine which flooring type is most 'fit for purpose' to apply into each location within the facility. Within each product category, cost will vary based on origin, brand, style, quantity, grade and specification.	The Performance Index takes an average market rate per flooring type and compares it to each other. Although generally Hard Flooring will cost more initially, the lifespan is over 15 years, so the ROI should be assessed accordingly. Resilient and soft flooring generally costs less, but are engineered for a +10 year lifespan. Of course interior "fashions" change and soft-floorcovering therefore provides the facility operator total flexibility to change flooring during a planned renovation cycle, which for Corporate spaces will either follow the lease period or no more than a nominal 5 to 6 years to ensure buildings remain healthy and free from bacteria caused by prolonged build up of airborne impurities.
Floor Preparation	The key challenge to achieve a perfect installation of any flooring is to prepare the substrate according to the manufacturers and/or recommended building standard. To reduce downtime for repairs, impact of unlevel floor covering to operations, or at worst premature and/or sporadic lifting of the floor covering, correct floor preparation is critical. The total invested cost of floor preparation in new buildings can cost more than the floorcovering itself. To this extent building contractors may shortcut important steps such as damp membrane, self-leveling screeds and/or sealants required for varied conditions.	The impact of improper floor preparation is more risk to an installed resilient or hard flooring, particularly if they entrap moisture. In the case of resilient floor covering (vinyl, linoleum, etc), unlevel screeds can become visible on the surface due to the transition of the imperfection, or cause bulges to appear under them, which create dangerous trip hazards in Corporate spaces. If floor preparation is imperfect, a modular carpet system will be more forgiving. As backing types are generally hardback (ie: PVC, Bitumen, etc), Carpet Inters EcoSoft® PET felt cushion back product is proven to perform best when installed onto imperfect substrates.
Installation	Installation of floorcovering is a skilled profession. Each product will have a comprehensive installation guideline, which if overlooked can often null and void a manufacturer's performance warranty. The cost of installation is derived from labor, materials, protection of adjacent locations and/or site access, impact on daily operations (temporary closure, discomfort to occupants from dust/noise/odor) and revenue loss from prolonged closure.	To summarize, uplift and disposal of existing flooring will all result in varying degrees of noise, dust, and interruption to operations. Intermediate repairs to the substrate (see floor preparation) will vary. Installation of new flooring will result in varying degrees of noise, odor, and interruption to operations. However any floor covering requiring wet works (cement, screed, sealants, etc.) will prolong inconvenience as they require additional drying time. To this extent soft floor coverings are far more convenient and cost effective to replace than resilient or hard flooring.

Operational Logistic	Requirement	Inherant Characteristic (Test Data available upon request)
Cleaning & Maintenance	Cleaning and maintenance of flooring in a corporate facility is an important factor to the occupants health and welfare. Each product will have a comprehensive guideline for daily, weekly and periodic professional cleaning, which if overlooked can often null and void manufacturers performance warranties. The key aim is to use and regularly maintain barrier matting at all front & back of house entry points to prevent soil trafficking into the interior environment.	The flooring industry is prone to articulate the pro's and con's of cleaning and maintaining soft flooring verses hard flooring relative to workspaces. To an operator the question is whether wet mopping the hard floor is easier than vacuuming a soft floor in terms of time, cost and impact to operations and/or safety. In either situation regular (daily) cycles are best. Frequent cleaning of any flooring is essential to prevent bacterial attack.
Periodic Replacement	All facilities are prone to risk from damage caused by acts of God, work related accident or misuse, localized premature wear or improper cleaning programs. As a result flooring may become damaged creating an unsightly or worse a hazard within the larger space. This will result in the need to replace the localized damaged section as opposed to replacing the complete area prematurely.	The key issue to an operator is to fix the damaged area quickly, cost effectively and with least disruption to daily operations, so as to achieve an "as new" repair. As stated under "installation" remedial works will result in varying degrees of noise, odor, and interruption to operations. However any floor covering requiring wet works (cement, screed, sealants, etc.) will prolong inconvenience as they require additional drying time, such to this extent soft floor coverings are far more convenient and cost effective to replace than resiliant or hard flooring. A modular carpet system can enable ease of replacement by the facility maintenance team and in some cases would negate the expense to hire a professional flooring contractor.
Full Replacement	When a facility undergoes a planned renovation/refit, the overall cost is factored into the next lifecycle CapEx plan. However, as outlined above in general the time and expense to replace Resilient or Hard Flooring is initially more challenging, although lifespans are longer.	Operators should evaluate fully the practical application to the desired space as the key factor is to ensure that in the long term the most "Fit For Purpose" flooring is selected. Here performance criteria should outweigh aesthetics. One key factor to remember is that in addition to the absolute cost of replacement (material, floor repair/preparation, installation), other factors relative to function and cost must be assessed. When changing from an original flooring type to another, special attention must be made to inspect and determine the adjacent transitions to other floor finishes, door clearances, skirting clearances, step nosings, ramps, underfloor heating, etc., An additional benefit should the business determine or be forced into relocation due to lease expiration or unnaffordability is that a modular carpet system may be uplifted, commercially cleaned and repurposed into the new office facility.



Laser Cut Signage

Whether it be lecture room numbers, emergency exits, wayfinding, or the schools emblem…. the boundaries are limitless….



Pushing the boundaries….

Interior designers are always looking at ways to enhance the learning experience. Carpets Inter modular carpet enables “signage” to be laser cut and positioned into the modular floor covering. Demarcation & Signage for lecture room numbering, school emblem (logo), internal navigation, emergency exit, etc….. your imagination is the only boundary ….

Lifespan….

It is now widely held that the performance or useful life of a carpet is determined by appearance retention properties rather than simply wear in the sense of fiber loss. Appearance retention refers to the ability of a carpet to resist excessive or premature appearance loss _ usually seen as flattening, loss of texture or structure, colour change or pattern loss as well as the ability of the carpet to resist or conceal soiling.

Modular Carpet Systems

Each modular carpet has similar physical and performance characteristics.
Recycled PET Felt backing (see **EcoSoft**®) enhances acoustic suppression and minimizes impact from accidental falls. A reinforced vinyl or dense polyurethane backing (see **EcoSquare**®) in modular carpet provides additional dimensional stability and less rolling resistance. The primary differences of modular carpet for Education facility use are:

- Ability to remove tiles for cleaning, to avoid in situ cleaning and drying
- Replacement of individual modules when worn or damaged
- Rotation of tiles to improve the life span of the installation
- Acoustical properties (see **EcoSoft**® & **MegaPlank**®)
- Impervious backing option (see **Flow**®)

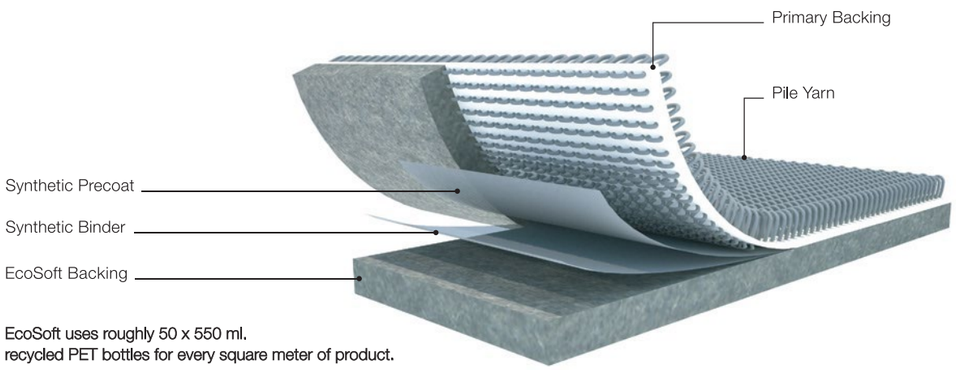
This flexibility provides improved infection control and the immediate removal of odor, while causing minimum disruption to the use of the area. Carpets are however unsuitable for washroom or gymnasium locations where there is the potential for contamination and inability to clean appropriately. The ability to place removable modules of the same thickness but with a dirt removal function (Scraper fiber) within the overall layout is an advantage in some locations. Modular carpet returns a better environmental profile than broadloom (roll) due to improved life span, reduced wastage and the ease of recycling.

Modular carpet should be laid by direct stick using a pressure sensitive adhesive or high friction coating to facilitate periodic replacement. In high traffic areas full stick (full surface coverage) is recommended, for other areas grid stick (partial coverage) is adequate.

EcoSoft®

Sustainable Performance and Value

EcoSoft® is made from 80% post-consumer material reengineered from millions of discarded drinking water bottles, plus 5 to 10% post-industrial recycled PET. This environmentally friendly backing not only meets all the stringent performance criteria required for modular carpet, but consistently out performs conventional PVC and bitumen hard back, as well as urethane cushion back in terms of durability, underfoot comfort, acoustical propensity and indoor air quality.



EcoSoft uses roughly 50 x 550 ml.
recycled PET bottles for every square meter of product.

EcoSoft® Outstanding Features

> 85% recycled content backing

> 100% recyclable

> No PVC, Bitumen or Fiberglass content

> Suitable for installation onto wet slab up to 99% RH

> Superior Acoustical Propensity - outperforms hardback by 150% to 175% per Green Star IEQ10 internal noise level requirements

> Excellent Dimensional Stability BS EN 986 less than 0.15%

> Cushioning reduces wear and tear, fiber crush and user fatigue

> EcoSoft® backed modular carpet product contributes up to 6 LEED points

In view of the superior properties outlined above, modular carpet with EcoSoft® backing is the ideal choice for Education facilities.

MegaPlank® Product Spec

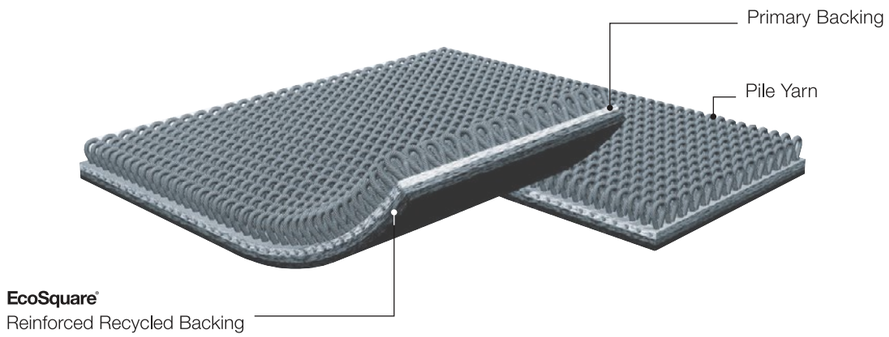
Construction	:	Tufted Loop Pile
Pile Fiber	:	100% Solution Dyed Nylon
Pile Weight	:	14 oz. - 24 oz.
Pile Height	:	3.0 mm. to 5.5 mm.
Backing	:	Ecosoft® environmentally conscious recycled PET Felt. Please consult your local Carpets Inter Representative for full technical and performance specifications.
Roll Width	:	2.00 meter wide roll
Roll Length	:	Recommended module @ 8 to 24 linear meters long
Pattern Repeat	:	Patterns are non-critical match.

This unique 2.00m wide system may be installed in conjunction with our standard EcoSoft® Back modular carpet Tiles to achieve practical functioning combinations.

EcoSquare®

Sustainable Performance and Value

EcoSquare® is another step in Carpet Inter's ongoing Sustainability and Reclamation program, repurposing waste material into a recycled high performance modular carpet backing.



EcoSquare® Outstanding Features

> 63.5% recycled content backing

> 100% recycable

> Meets Greenstar best practice guidelines

> Free of toxic plasticisers and stabilisers

> Excellent Dimensional Stability BS EN 986 less than 0.15%

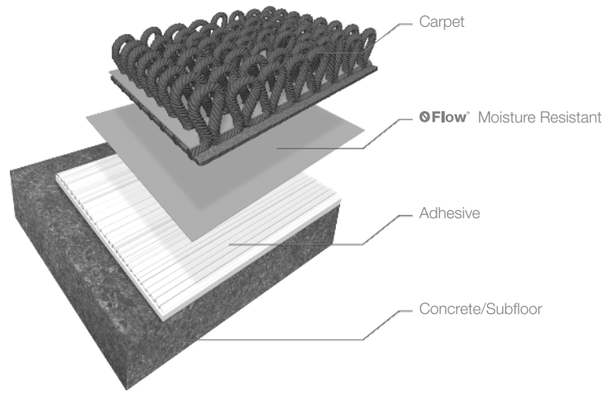
> EcoSquare® backed modular carpet product contributes up to 5 LEED points

In view of the superior properties outlined above, modular carpet with EcoSquare® backing is the ideal choice for Education facilities.

ZeroFlow®

Sustainable Performance and Value

Carpets Inter revolutionary ZeroFlow® moisture resistant backing prevents liquid spills from penetrating through the carpet into the subfloor where they can't be cleaned.



ZeroFlow® Outstanding Features

> It is an applied moisture management backing system that is ideal for use in healthcare and educational facilities.

> This modular system enables longer maintenance time for removal of liquid spillage, which normally penetrate down into the substrate flooring.

> ZeroFlow® gives the customer broad pattern and color capability, achieving interior spaces conducive to up market Assisted Living.

> This unique modular system aids in the prevention of contaminants seeping into the substrate, thus enhancing a healthy and safe environment.

> Installation is made easy by using our 2 meter wide by up to 20 meter long modules, which enables limited disruption to occupants through a faster and more economical installation.

> Storage for emergency maintenance is easier and requires less space.

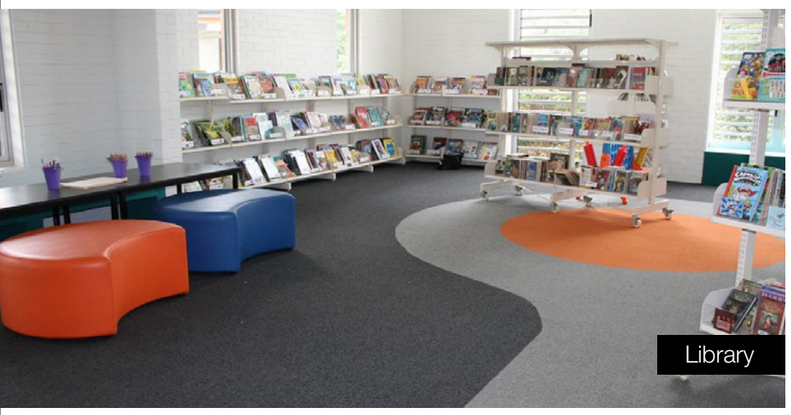
> ZeroFlow® is installed on quick release adhesive and can be disposed of to your nearest recycling center upon completion of the warranted life span.

> Our modular system carries the CRI Green Label Plus certification from the Carpet & Rug Institute, assuring a VOC free indoor air quality.

Fit for Purpose…

Carpets Inter provide durable “fit for purpose” floor covering solutions to educational facilities.


Lecture Room


Library


Main Entrance

EDUCATION


Breakout Area


Kindergarten


Activity Hall

Carpets Inter®

Consultation and Evaluation

When choosing Education floor covering it is essential that the architect and/or the interior designer authorized to select and specify interior finishes consult with the client representative and product manufacturer to ensure that the installed product can be signed-off as ‘fit for purpose’.

Carpets Inter, providing educated flooring solutions ….

Education Projects

Bialik College, Australia
Caroline Chisholm College, Australia
Gunghalin College, Australia
RMIT Univesity, Australia
Southern Cross Catholic College, Australia
St Flannan's Catholic Primary School, Australia
Trinity Grammar School, Australia
Trinity Senior School, Australia
Sultan Qaboos University, Oman
Supreme Education, Qatar
HCT Al Ain Campus, UAE
National University of Singapore
Kumon Co., Ltd, Thailand

For further inquiry please contact:-

Carpets International Thailand PLC.
2054 New Petchburi Road Bangkapi, Huaykwang, Bangkok 10310 Thailand.
Tel +66 (0) 2314-5402
www.carpetsinter.com, info@carpetsinter.com

Headquarters

2054 New Petchburi Road
Bangkapi, Huaykwang, Bangkok 10310 Thailand
Tel +66 (0) 2314-5402, Fax +66 (0) 2318-3537
www.carpetsinter.com, info@carpetsinter.com