



Red List  
Free

INTERNATIONAL LIVING  
FUTURE INSTITUTE

# EcoSoft®

Recycled Cushion Backing

Carpets Inter®



Message in a bottle.

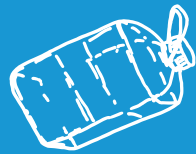


**Carpets Inter EcoSoft® is responsible for recycling over 787 million PET bottles, reducing the effects of pollution on our planet.**


**Thank you for being part of this mission!**



**8 MILLION**  
METRIC TONS OF  
**PLASTIC**  
ENTERS THE OCEAN  
FROM THE LAND  
**EACH YEAR**



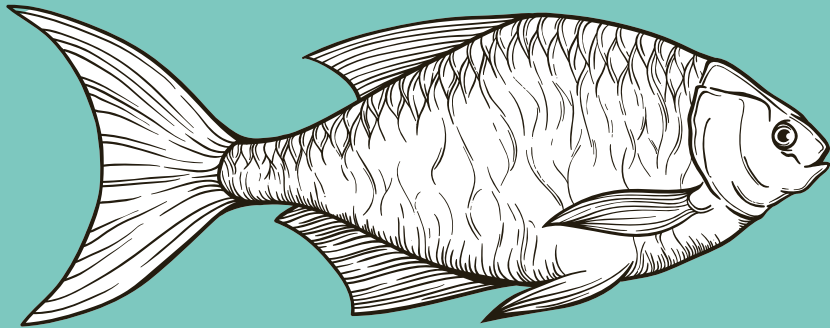


The background of the entire page is a light blue watercolor-style illustration of three fish swimming. One fish is at the top left, another is at the top right, and a third is at the bottom left. The fish are drawn with fine lines and some shading to give them a sense of movement and texture. The water is represented by soft, blended blue washes.

EcoSoft® marks a new era in the development of high-performance and environmentally friendly carpet tile cushion backing.

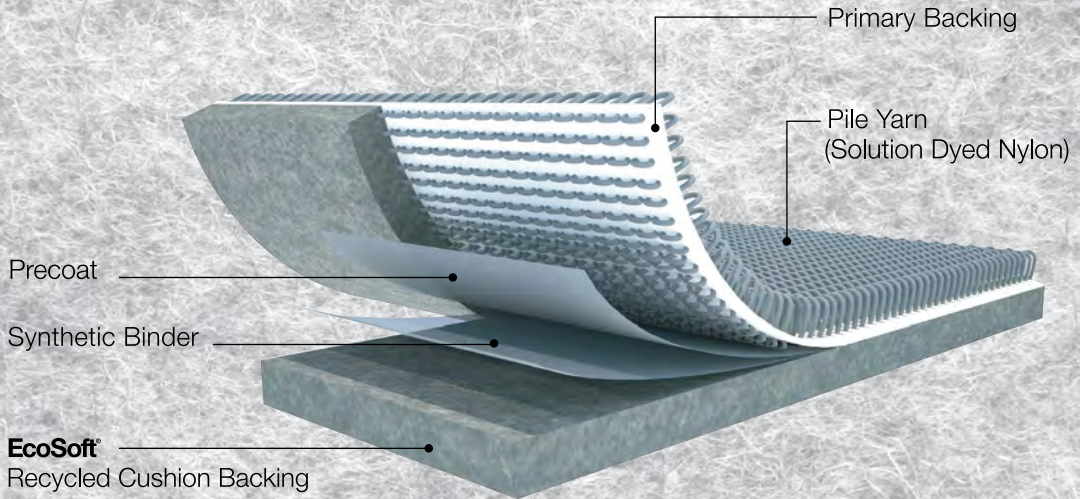
Natural spring water may be good for your health, but the bottles themselves threaten our environment by swallowing landfill space and increasing air-pollution from incineration. Uncontrollable volumes of plastic waste continue to flow into our oceans every second! EcoSoft®, our established high performance carpet cushion backing, is made from 80% post-consumer material reengineered from discarded drinking water bottles plus 5% post-industrial recycled PET. So you can breathe and walk with ease.

If things continue as is... by 2050  
there will be more  
**PLASTIC**  
than



in the  
**OCEAN**

# Breathable Modular Carpet Construction





Environmentally Recyclable Materials

Soft to the step

100%



Soft on the environment

# Performance Enhancement

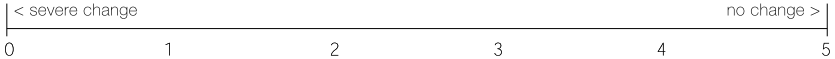
EcoSoft® is designed and engineered to absorb destructive impact from high foot traffic. Its superior compression and recovery properties significantly reduce fiber crush and wear-and-tear, giving the carpet a better appearance retention compared with any hard backing, so enabling the carpet to retain its good looks for longer.

## Appearance Retention

EcoSoft Tile



PVC Tile



# Luxurious Walking Comfort

EcoSoft® is a cushion backing that effectively absorbs foot impact, and as a result reduces leg muscle fatigue to a greater degree as compared to any hard flooring. Comfort under foot translates to higher overall productivity in the workplace.

# Exceptionally Durable

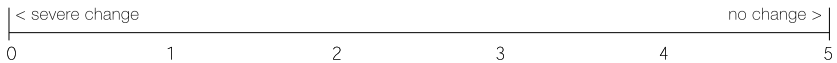
Due to its dense PET fiber construction, the cushioning effect will continue to perform for the lifespan of the installed carpet.

## Castor Chair Test (Wear behavior to withstand Pile Crushing)

EcoSoft Tile



PVC Tile

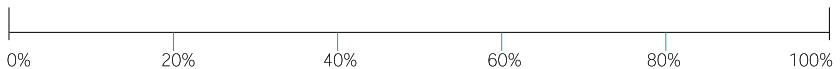


## Recovery after static loading

EcoSoft Tile



PVC Tile



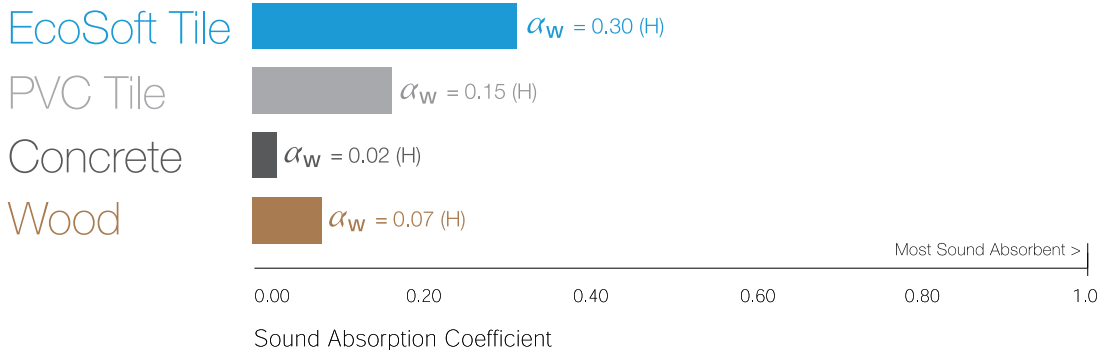


# Excellent Sound Absorption

EcoSoft® is made from millions of fine PET fibers interlocked together in a needling process to form a compressed felt. The felt acts as a sound absorption having excellent acoustical properties. These noise reducing properties, drastically improve acoustics in the workplace, off-setting the higher cost of ceiling, wall of double glazed acoustical materials.

Surveys have shown that traceable sources of noise negatively affect human health creating stress and other problems. One of the most effective way of controlling noise levels is to suppress noise by using flooring with sound absorption properties such as EcoSoft® backed modular carpet.

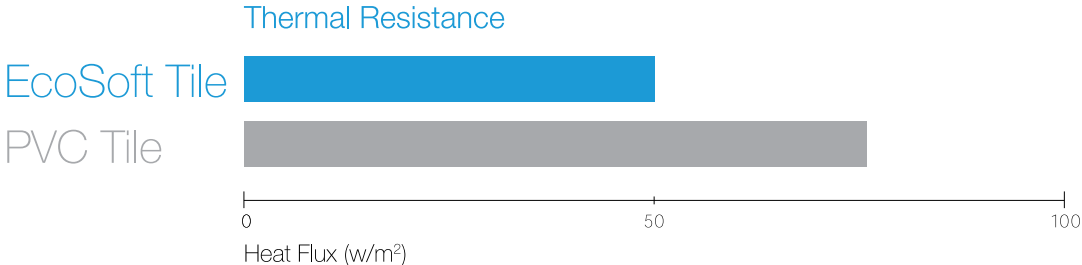
## Sound Absorption EN ISO 354 and ISO 11654



# Thermal Insulation

Heating and cooling commercial buildings is expensive. Products that contribute thermal resistance can considerably reduce energy costs. EcoSoft® will keep the warmth in heated buildings in winter, and the cool air-conditioned air inside buildings in summer.

Tests show that EcoSoft® outperforms hard back tile by more than 150% for thermal effectiveness.



# Superior Dimensional Stability

EcoSoft® unique manufacturing process enables this non-woven backing to have superior dimensional stability without using environmentally harmful fiberglass, PVC, Bitumen or polymers.

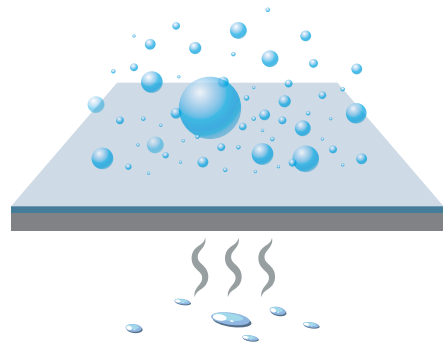
# Wet-Slab Installation and Moisture Transmission

Changes in carpet tile adhesives, building schedules, and floor preparation processes have contributed to an increase in flooring installation failures, and in some cases the release of potentially harmful Volatile Organic Compounds (VOC's) into the indoor air environment. Moisture build-up under non-porous flooring like vinyl sheet, hard backed carpet tiles, and fixed timber floors, expose adhesives and tile backings to high pH levels; this is from alkalines within the concrete, concentrating in surface moisture that is unable to escape. This results in chemical breakdown of the adhesive and the release of potentially harmful VOC's.

The porous characteristics of EcoSoft® carpet tile backing allows moisture within the slab to release (dry out), thus eliminating the risk of VOC build-up and adhesive failure from alkaline hydrolysis. The moisture vapor transmission rate for EcoSoft® backing is 39 times better than a hard back tile.



**Hard Backed Tile**



**EcoSoft Tile**



# Lightweight Benefit

Transporting materials from manufacturing facilities to project sites involves various modes of transport, all of which leave a carbon footprint. The lighter weight EcoSoft® product requires less energy to transport, thus achieves a higher LEED point rating due to lower carbon footprint.

EcoSoft® backed carpet tiles weigh 38% less than an equivalent hard back carpet tile. This considerably reduces OH&S risk of site labor and installation.

**We will**  
**RECYCLE OVER**  
**1,000,000,000**  
**discarded**  
**PLASTIC BOTTLES**  
**by 2025**

# Sustainability Carpet

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- ✓ 100% Recyclable
- ✓ Compliance to Indoor Air Quality by Carpet and Rug Institute monitoring program
- ✓ Low Volatile Organic Compounds (VOCs) into the air improve workplace health & safety
- ✓ NSF 140 - Sustainable Carpet Standard
- ✓ ECS - Australian Environmental Certification Scheme
- ✓ LEED - Leadership in Energy & Environmental Design
- ✓ SGBC - Singapore Green Building Product
- ✓ CE Mark - Conformity of European Safety Standard

# EcoSoft Outstanding Features

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- > Performance Enhancement

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  - > Superior Dimensional Stability

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  - > Cushioning Effect reduces Leg Fatigue

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  - > Reduces Carpet Fiber Crush, Wear and Tear

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  - > Superior Sound Absorption - Twice any Hard Backing

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  - > PVC and Bitumen Free

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  - > Environmentally Friendly, No Fiberglass Used

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  - > Uses Post-Consumer Recycled Content

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  - > 100% Recyclable

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In view of the superior properties outlined above, carpet tiles with EcoSoft® backing are the ideal choice for intensive use locations, including airports, convention, public building offices, education facilities, retail stores and most heavy traffic locations.

# General Specifications

## Performance

End Use Classification	: BS EN 1307 Class 33 - Heavy Commercial
Caster Chair Index	: BS EN 985 > 2.4
Dimensional Stability	: BS EN 986 < 0.15%
Electrostatic Propensity	: AATCC 134 < 3 KV
Colorfastness to Light	: ISO 105 B02 min L6

## Flammability

Hot Metal Nut	: BS 4790 Low Radius
Radiant Panel Test	: ASTM E648 Class 1
Smoke Density	: ASTM E662 < 450
Surface Flammability	: ASTM D 2859 Passes

## Acoustic

Sound Absorption	: BS EN ISO 354 NRC 0.30 or higher (Superior Noise Reduction)
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# Carpets Inter<sup>®</sup>

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