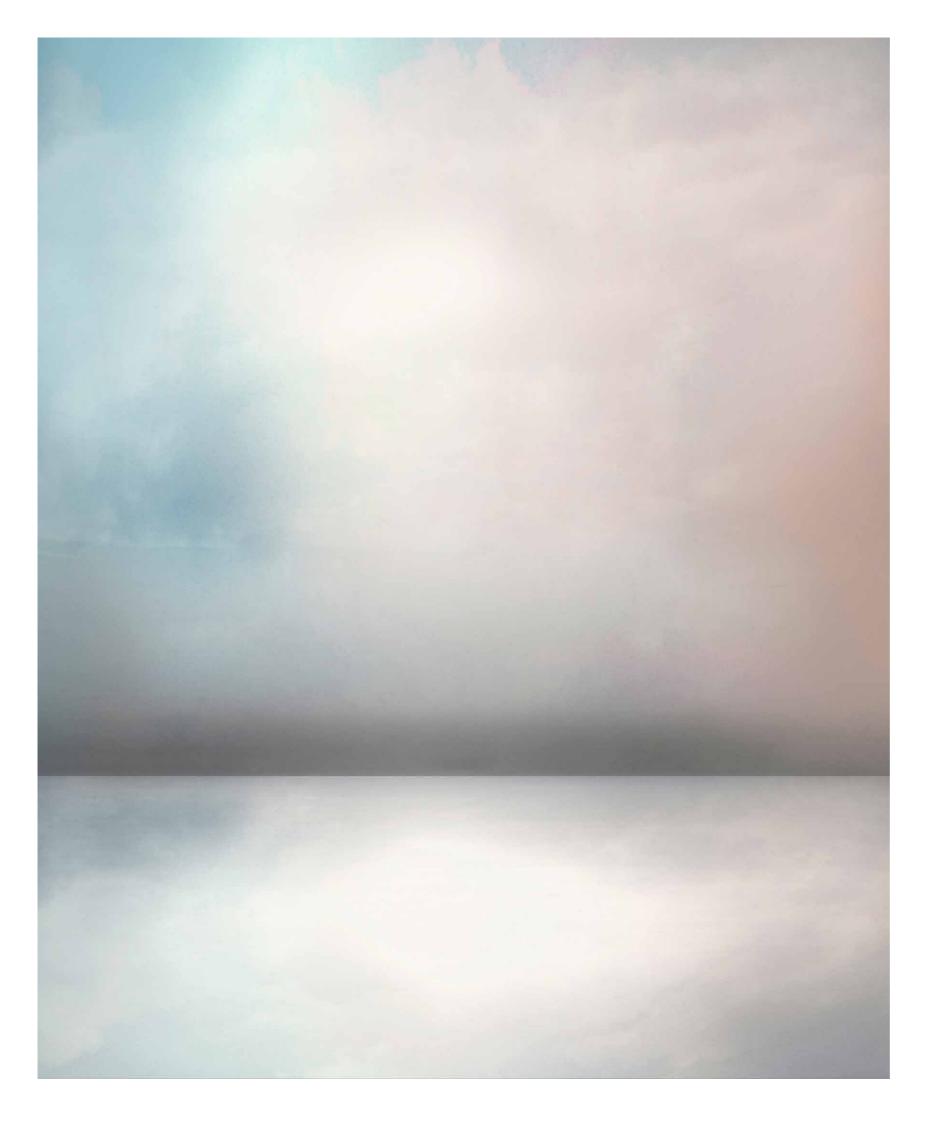
EcoFlex[™] Echo

Capture the essence of sound



CARPET TILES



EcoFlex[™] Echo

Good sound conditions stimulate our health and wellbeing.

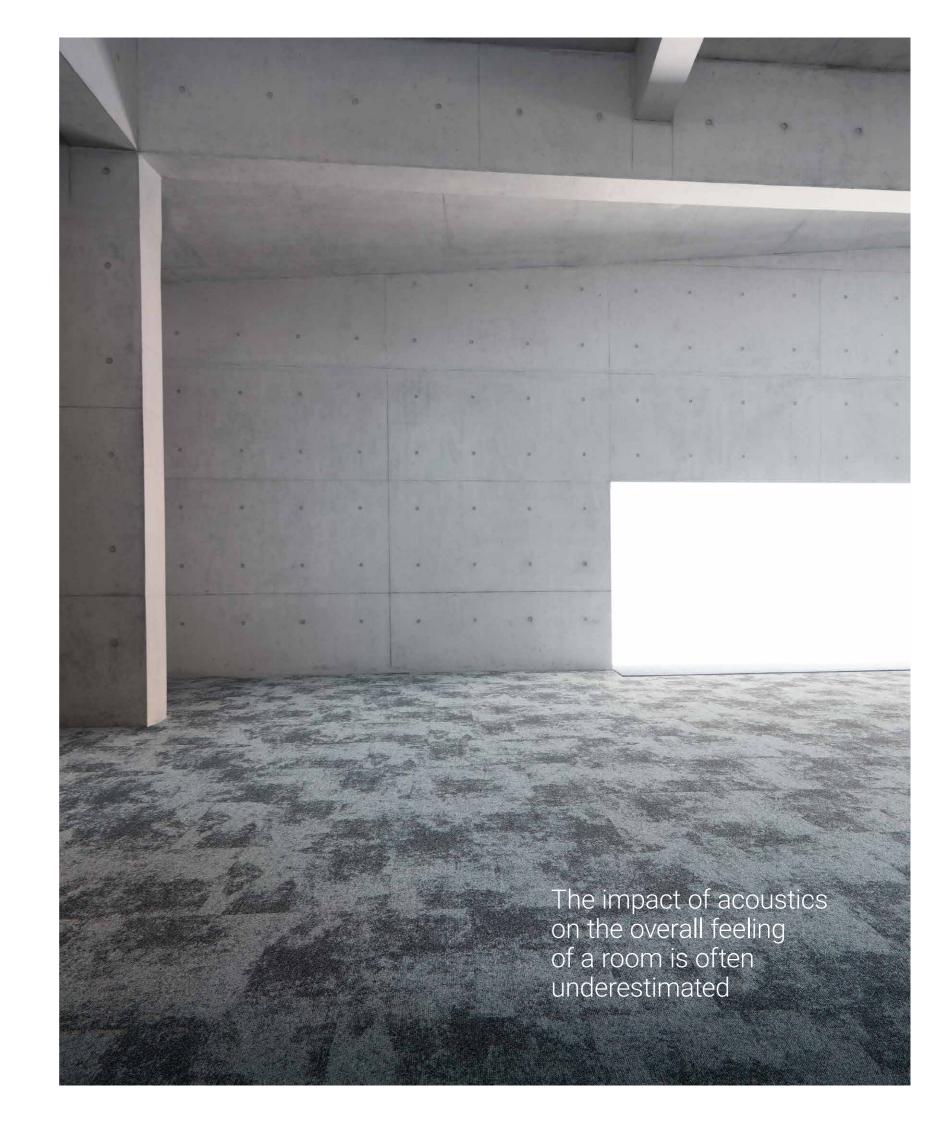
Designer for today's needs, IVC Commercial presents a new acoustic carpet tile backing. Alongside our trusted EcoFlex™ Statera backing solution, EcoFlex™ Echo completes the range with enhanced acoustics and an increased level of underfoot comfort.

Acknowledging the power of acoustics

When designing a well-balanced space, a series of elements needs to be taken into consideration. Whether it's a choice of colours, decoration items, lighting or use of materials; each will contribute to the overall feeling of a room. In this, the aspect of acoustics is often underestimated, despite optimal sound insulation and absorption being essential to create a healthy and productive working environment. That's why **soundproofing through** flooring has become a necessary part of interior design in modern construction and renovation projects.

Rising to today's challenges

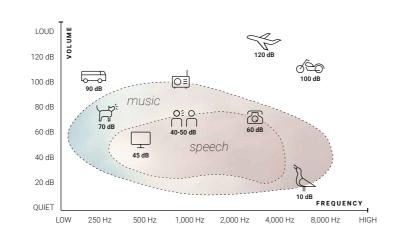
Hard materials, commonly used in contemporary architecture for their durability and sleek finish, evidently don't provide the ideal conditions for good sound reduction. And in older buildings, where noise reducing materials aren't structurally integrated, an acoustic floor can make all the difference. EcoFlex™ Echo carpet tiles are equipped with an acoustic backing, reducing noise levels and providing improved comfort.

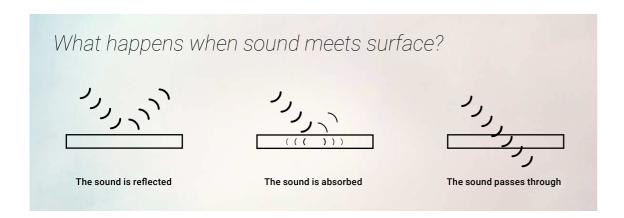


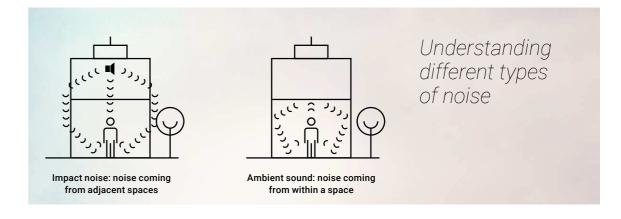
Considering sound in all its forms

Sound is a free spirit. It can originate at any place and at any time. While searching for the right flooring materials, it helps to understand the way sound travels and how we make sense of it.

The range of human hearing depends on the power level (dB) and the frequency (Hz) of the sound. For our ears 0 dB is the so-called hearing threshold, while 140 dB is the absolute limit for hearing comfortably. Likewise when it comes to pitch, we start hearing at 20 Hz while frequencies surpassing 20,000 Hz are beyond our hearing range.







Optimal impact sound reduction



Carefully selected backing materials improve the carpet's

ability to reduce impact noise. Impact noise is a structural vibration that occurs when one object collides with another, such as footsteps on a floor. It typically arises in adjacent spaces most notably between spaces above and beneath. Sound insulation is expressed as a weighted reduction in impact noise, known as ΔL_{w} .

In other words, this value tells you how much sound transferred to adjacent spaces can be reduced by use of acoustic materials.

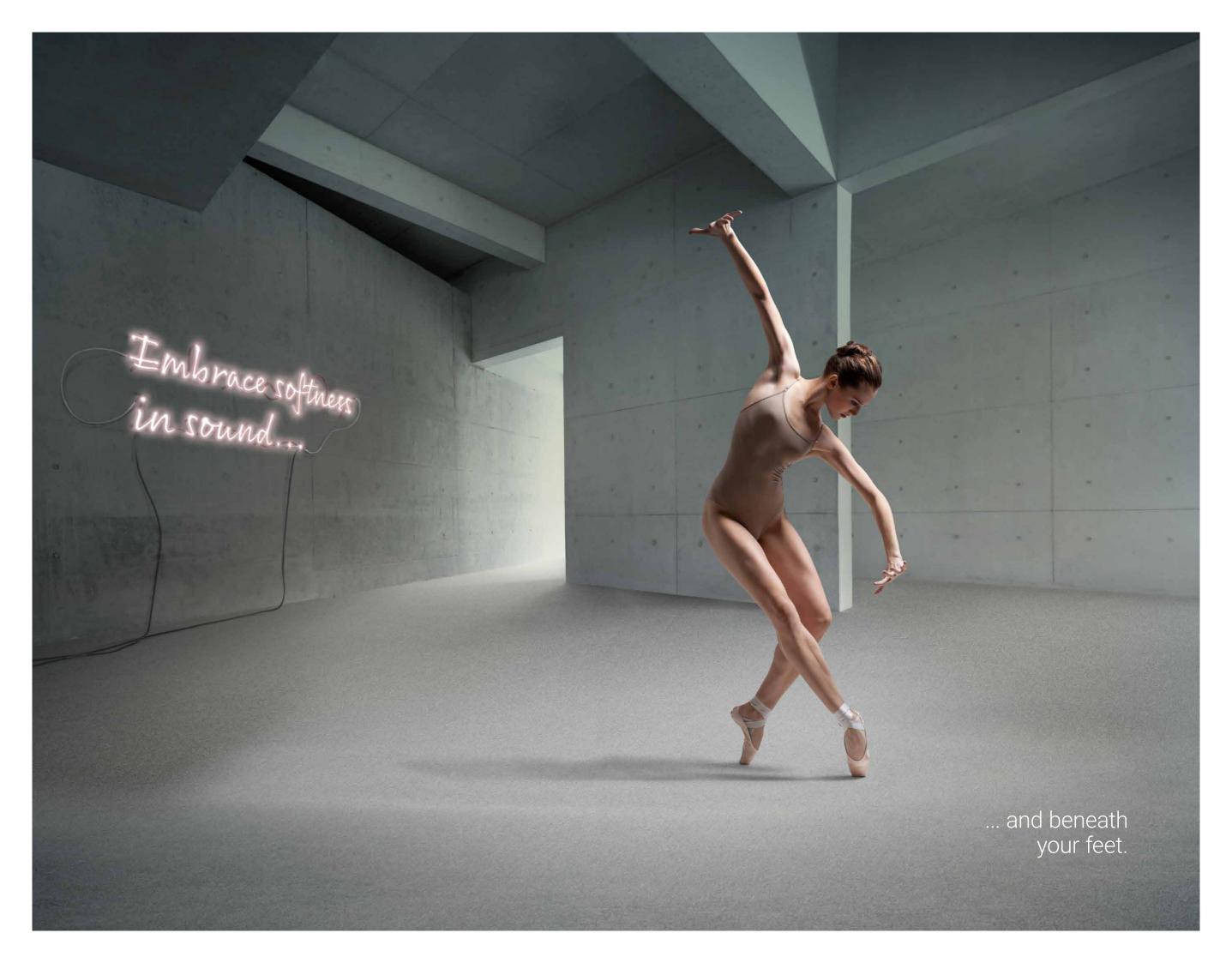
Ability to absorb



Flooring helps to absorb ambient sounds from speech or other sources

within a room. When it comes to sound absorption, soft surface flooring will always deliver better results than hard flooring. But by selecting the appropriate carpet backing, absorption values can be further improved.

A material's sound-absorbing properties are measured over 18 frequencies between 100 Hz and 5,000 Hz, leading to 18 different α s values. These are averaged into a single value: the α_W or weighted sound absorption coefficient. Where an α_W value of 0 indicates no sound absorption, an α_W value of 1 means all sound has been absorbed.



Backing every flooring project

At IVC Commercial we believe everyone is entitled to better acoustics and ergonomic comfort. That's why we've developed a superior backing that considers acoustic insulation, sound absorption and underfoot comfort.

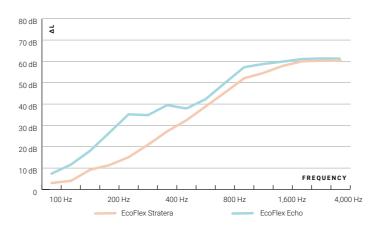
So, when there's need for specific technical requirements regarding the acoustics of a space,

EcoFlex™ Echo provides the answer.

Offering improved levels of impact sound reduction and sound absorption, EcoFlex™ Echo carpet tiles are built to last. Tested in accordance with the EN1307 standard, EcoFlex™ Echo delivers high quality in all aspects, from dimensional stability and burning behaviour to a perfect seam finish.

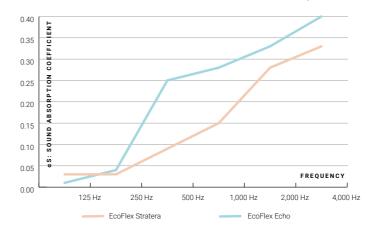
Standard IVC Commercial
Carpet Tiles with the
EcoFlex™ Statera backing system
are also developed with attention
to acoustic properties.
They offer a qualitative solution
for projects where no specific values
are required.

Impact Sound Insulation Shared Path (ΔL)



EcoFlex[™] Echo reduces impact noise by **up to 25%** compared to a standard backing

Sound Absorption Shared Path (as)



EcoFlex[™] Echo improves sound absorption values by **up to 100%** compared to standard backing.

Going beyond acoustics

Composed for improved comfort

Dedicated to the future of flooring and the lasting comfort of our customers, we are continuously committed to ensuring the long-term quality of our products.

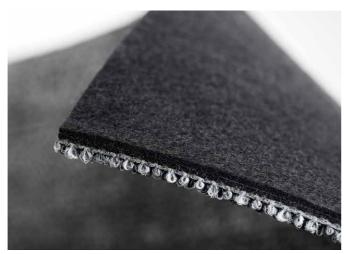
This smart choice of material also ensures a higher level of underfoot comfort and prevents muscle fatigue.

Eco-friendly flooring

Making products more sustainable is an integral part of our innovation and design process.

EcoFlex™ Echo's improved acoustic performance is obtained through an additional layer of 94% recycled polyester felt.

Improved performance and underfoot comfort is obtained through a 94% recycled polyester felt layer



EcoFlex™ Echo



Standard acoustic offer

EcoFlex™ Echo is available on 17 carpet tiles in a variety of colours from stock. The backing can be specified on other carpet tiles subject to a minimum order quantity.













Shared Path 924



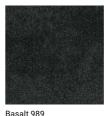
Basalt 959



Balanced Hues 954



Shared Path 989



Balanced Hues 989

Acoustics tailored to different applications

The extent of required sound insulation and absorption is inextricably linked to the purpose of a space.



In offices, especially open-space concepts, reducing noise is crucial for concentration and productivity. By minimising excessive sound employees find it easier to concentrate, perform and come up with creative ideas.



Education environments must balance the need to absorb background noise with the ability for teachers and pupils to be heard clearly.



The hospitality industry is increasingly confronted with acoustic demands. Particularly in hotels and gastronomic restaurants, where calmness is synonymous with luxury, powerful acoustic flooring like EcoFlex™ Echo is invaluable.



In other areas, such as healthcare, peace and quiet are the absolute norm. Clinical populations are generally more sensitive to unwanted sounds.





EcoFlex™ Echo / Creative Spark

Carpet Tiles

Technical Specifications

Construction	Tufted 1/10* gauge loop
Pile fibre composition	100% ColorStrand® Premium Nylon (40% recycled content) 100% solution dyed Pa6
Secondary backing	Ecoflex™ Echo (94% recycled PES Felt)
Total weight	4400 g/m²
Pile weight	540 g/m²
Surface pile weight	370 g/m²
Total thickness	8,4 mm
Surface pile thickness	3,1 mm
Surface pile density	0,119 g/cm ³
Number of tufts	176.300/ m ²
Wear classification	EN 1307 33 / LC1
Castor chair suitability	EN 985 A: intensive use
Fire classification	EN 13501-1 Bfl-s1
Dimensional stability	EN 986 ≤ 0,2%
Colour fastness to light	EN ISO 105-B02 ≥ 7
Rubbing fastness	EN ISO 105-X12 ≥ 4
Colour fastness to water	EN ISO 105-E01 ≥ 4
Thermal resistance	ISO 8302 0,114 m².K/W
Sound absorption	0,30 aw EN ISO 354 Hz 125 250 500 1000 2000 4000 as -0,02 0,03 0,29 0,25 0,35 0,47
Impact sound reduction	EN ISO 10140-3 ΔLw = 35 dB
Permanent antistatic	ISO 6356 ≤ 2 kV
Size & Packaging	50 x 50 cm (19,68° x 19,68°) 4 m²/box - 24 boxes/pallet
GUT-Prodis Number	3AA1D4DF



Carpet Tiles

Technical Specifications

Construction	Tufted 1/12" gauge loop
Pile fibre composition	100% Colorstrand® Premium Nylon (40% recycled content) 100% solution dyed Pa6
Secondary backing	Ecoflex™ Echo (94% recycled PES Felt)
Total weight	4450 g/m²
Pile weight	600 g/m²
Surface pile weight	365 g/m²
Total thickness	8,8 mm
Surface pile thickness	3,4 mm
Surface pile density	0,107 g/cm³
Number of tufts	230.400/m²
Wear classification	EN 1307 33 / LC1
Castor chair suitability	EN 985 A: intensive use
Fire classification	EN 13501-1 Bfl-s1
Dimensional stability	EN 986 ≤ 0,2%
Colour fastness to light	EN ISO 105-B02 ≥ 7
Rubbing fastness	EN ISO 105-X12 ≥ 4
Colour fastness to water	EN ISO 105-E01 ≥ 4
Thermal resistance	ISO 8302 0,111 m².K/W
Sound absorption	0,30 aw EN ISO 354 Hz 125 250 500 1000 2000 400 as 0 0,05 0,30 0,30 0,35 0,40
Impact sound reduction	EN ISO 10140-3 ΔLw = 32 dB
Permanent antistatic	ISO 6356 ≤ 2 kV
Size & Packaging	25 x 75 cm (9,84" x 29,53") 3 m²/box - 24 boxes/pallet
GUT-Prodis Number	6A8A980E



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EcoFlex™ Echo / Balanced Hues

Carpet Tiles

Technical Specifications

Construction	Tufted 1/12" gauge loop
Pile fibre composition	100% Colorstrand® Premium Nylon (40% recycled content) 100% solution dyed Pa6
Secondary backing	Ecoflex™ Echo (94% recycled PES Felt)
Total weight	4800 g/m²
Pile weight	720 g/m²
Surface pile weight	483 g/m²
Total thickness	9 mm
Surface pile thickness	3,9 mm
Surface pile density	0,125 g/cm³
Number of tufts	244.800/m²
Wear classification	EN 1307 33 / LC2
Castor chair suitability	EN 985 A: intensive use
Fire classification	EN 13501-1 Bfl-s1
Dimensional stability	EN 986 ≤ 0,2%
Colour fastness to light	EN ISO 105-B02 ≥ 7
Rubbing fastness	EN ISO 105-X12 ≥ 4
Colour fastness to water	EN ISO 105-E01 ≥ 4
Thermal resistance	ISO 8302 0,126 m².K/W
Sound absorption	0,25 αW EN ISO 354 Hz 125 250 500 1000 2000 4000 αs 0,00 0,05 0,25 0,25 0,40 0,40
Impact sound reduction	EN ISO 10140-3 ΔLw = 33 dB
Permanent antistatic	ISO 6356 ≤ 2 kV
Size & Packaging	50 x 50 cm (19,68" x 19,68") 3,5 m²/box - 24 boxes/pallet
GUT-Prodis Number	FA52FF8B













Technical Specifications		Basalt	
			_
Construction		Tufted 1/12" gauge loop	Tufted 1/12" g

	T. A-d 1/10 l		
	Tufted 1/12* gauge loop Tufted 1/12* gauge loop		
	100% solution dyed nylon	100% solution dyed nylon	
	Ecoflex™ Echo (94% recycled PES Felt)	Ecoflex™ Echo (94% recycled PES Felt)	
	+/- 4700 g/m² +/- 4700 g/m²		
	+/- 600 g/m² +/- 600 g/m²		
	+/- 390 g/m²	+/- 415 g/m²	
	+/- 8,4 mm	+/- 8,4 mm	
	+/-3,2 mm	+/-3,1 mm	
	+/- 0,125 g/cm³	+/- 0,127 g/cm ³	
	219.300 /m²	224.400 /m²	
EN 1307	33 / LC1	33 / LC2	
EN 985	A: intensive use	A: intensive use	
EN 13501-1	Bfl-s1	Bfl-s1	
EN 986	≤ 0,2%	≤ 0,2%	
EN ISO 105-B02	≥7	≥7	
EN ISO 105-X12	≥ 4 ≥ 4		
EN ISO 105-E01	≥ 4 ≥ 4		
ISO 8302	0,109 m².K/W	0,113 m².K/W	
EN ISO 354	0,25 aw	0,25 aw	
	Hz 125 250 500 1000 2000 4000 as 0 0,25 0,25 0,30 0,35	Hz 125 250 500 1000 2000 4000 αs 0 0,05 0,25 0,25 0,25 0,30	
EN ISO 10140-3	ΔLw = 32 dB	ΔLw = 32 dB	
ISO 6356	≤ 2 kV ≤ 2 kV		
	12	12	
	50 x 50 cm (19,68" x 19,68") 4 m²/box - 24 boxes/pallet	50 x 50 cm (19,68" x 19,68") 4 m²/box - 24 boxes/pallet	
	65EB7088 94EFCC68		
	EN 985 EN 13501-1 EN 986 EN ISO 105-B02 EN ISO 105-X12 EN ISO 105-E01 ISO 8302 EN ISO 354 EN ISO 10140-3	Ecoflex™ Echo (94% recycled PES Felt) +/- 4700 g/m² +/- 600 g/m² +/- 390 g/m² +/- 8,4 mm +/- 0,125 g/cm³ 219.300 /m² EN 1307 33 / LC1 EN 985 A: intensive use EN 13501-1 Bfl-s1 EN 986 ≤ 0,2% EN ISO 105-B02 ≥ 7 EN ISO 105-B02 ≥ 7 EN ISO 105-E01 ≥ 4 ISO 8302 0,109 m².K/W 0,25 aw Hz 125 250 500 1000 2000 4000 as 0 0 0,25 0,25 0,30 0,35 EN ISO 10140-3 ΔLw = 32 dB ISO 6356 ≤ 2 kV 12 50 x 50 cm (19,68* x 19,68*) 4 m²/box - 24 boxes/pallet	









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CARPET TILES - EcoFlex™ Echo





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