

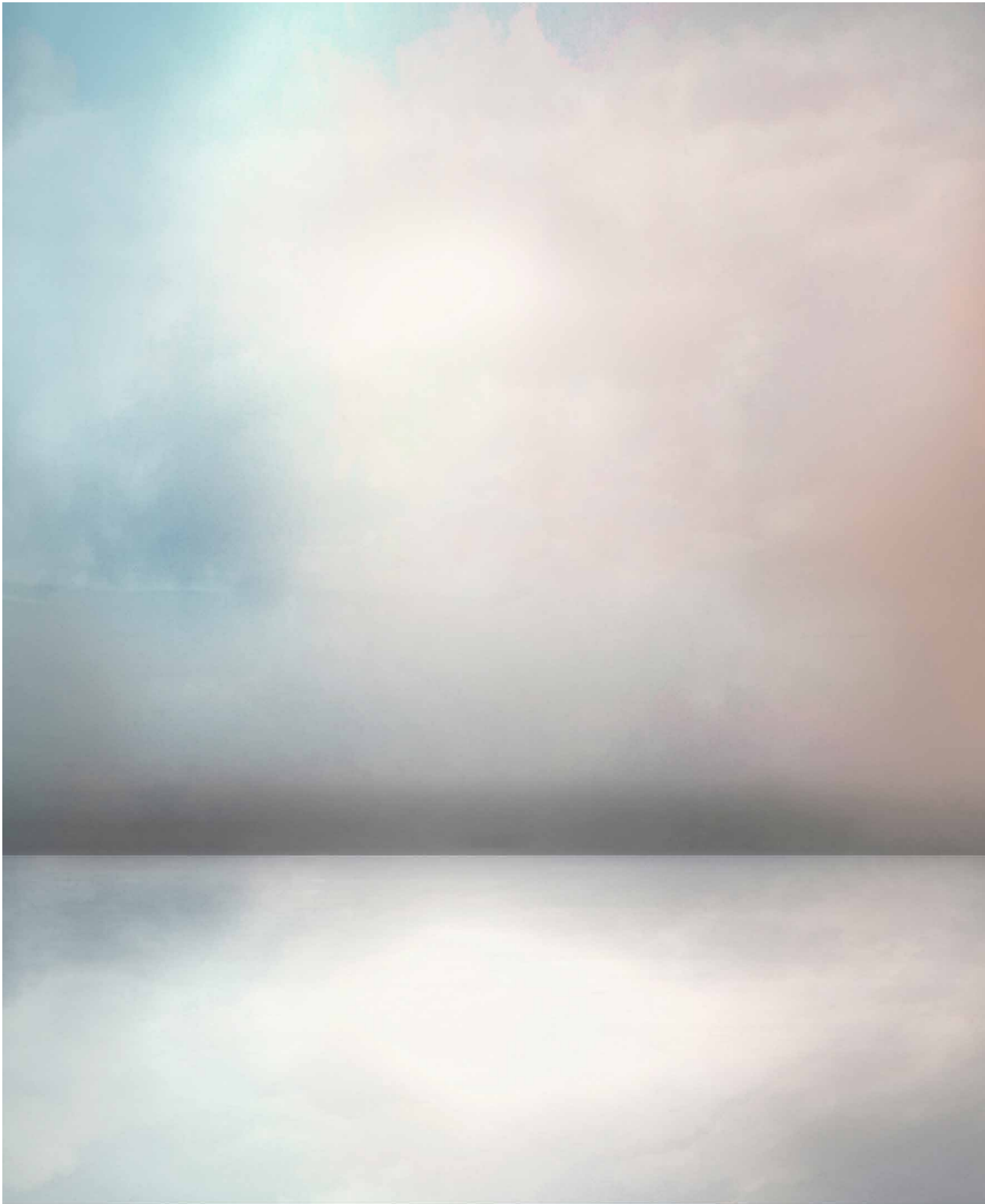
EcoFlex™ Echo

Capture the essence of sound



COMMERCIAL

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.

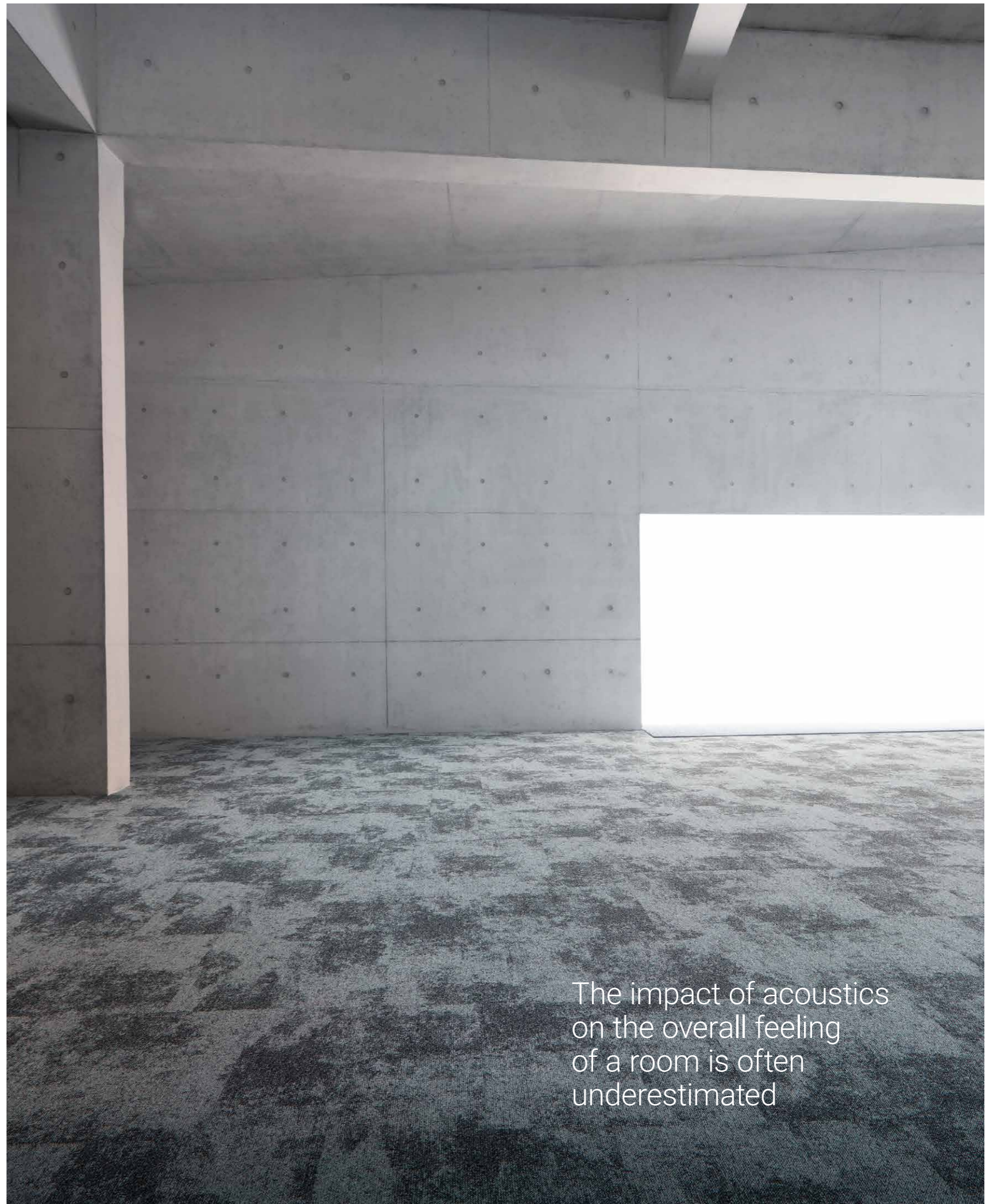
Rising to today's challenges

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**.

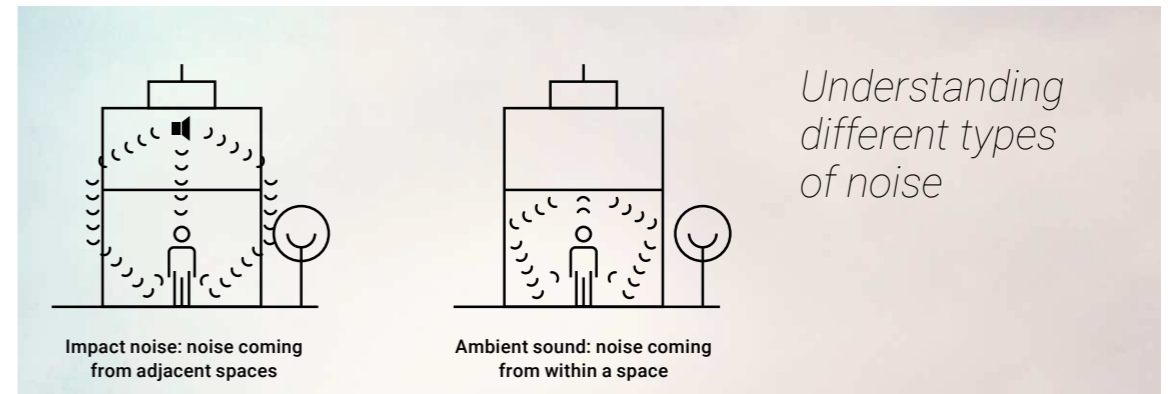
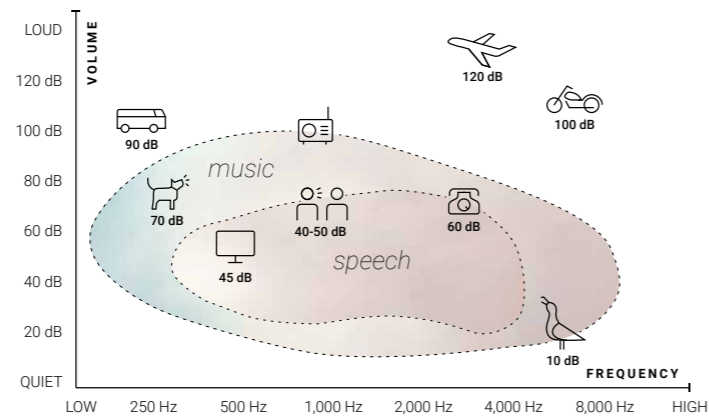
The impact of acoustics on the overall feeling of a room is often underestimated



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.

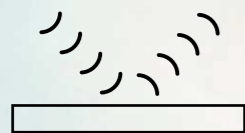
Ability to absorb



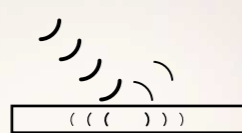
Flooring helps to **absorb ambient sounds from speech** or other sources **within a room**. When it comes to sound absorption, **soft surface flooring** will always deliver better results than hard flooring. But by selecting the appropriate carpet backing, **absorption values** can be further improved.

A material's sound-absorbing properties are **measured over 18 frequencies** between 100 Hz and 5,000 Hz, leading to 18 different α_w 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.

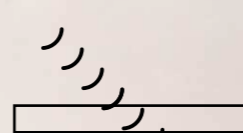
What happens when sound meets surface?



The sound is reflected



The sound is absorbed



The sound passes through



... and beneath
your feet.

Backing every flooring project

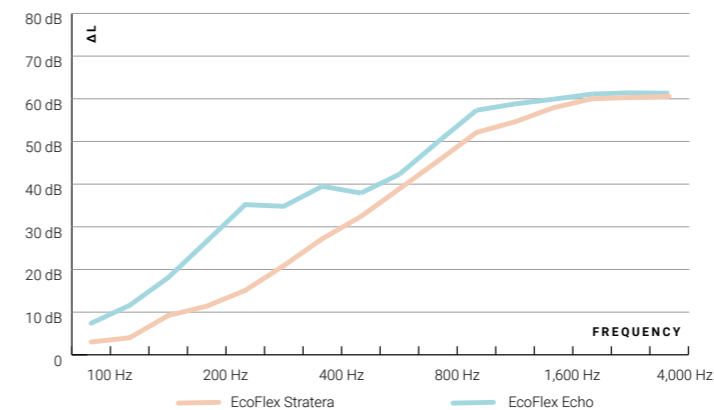
At IVC Commercial we believe everyone is entitled to better acoustics and ergonomic comfort. That's why we've developed a superior backing that considers acoustic insulation, sound absorption and underfoot comfort.

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.

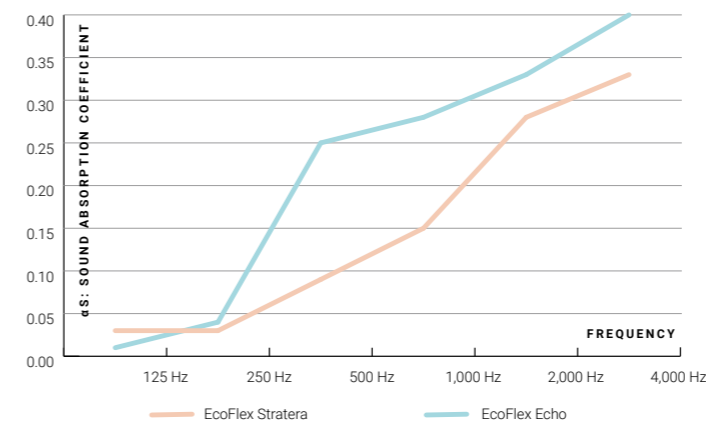
Standard IVC Commercial Carpet Tiles with the **EcoFlex™ Statera** backing system are also developed with attention to acoustic properties. They offer a qualitative solution for projects where **no specific values** are required.

Impact Sound Insulation Shared Path (ΔL)



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

Sound Absorption Shared Path (α_s)



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.

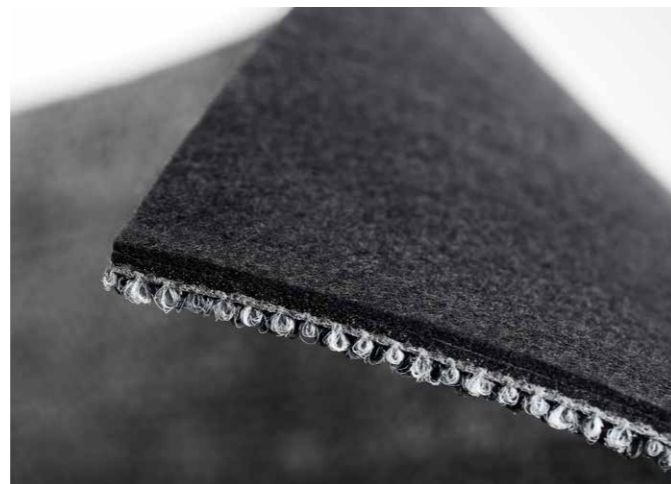
This smart choice of material also ensures a **higher level of underfoot comfort** and prevents muscle fatigue.

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**.

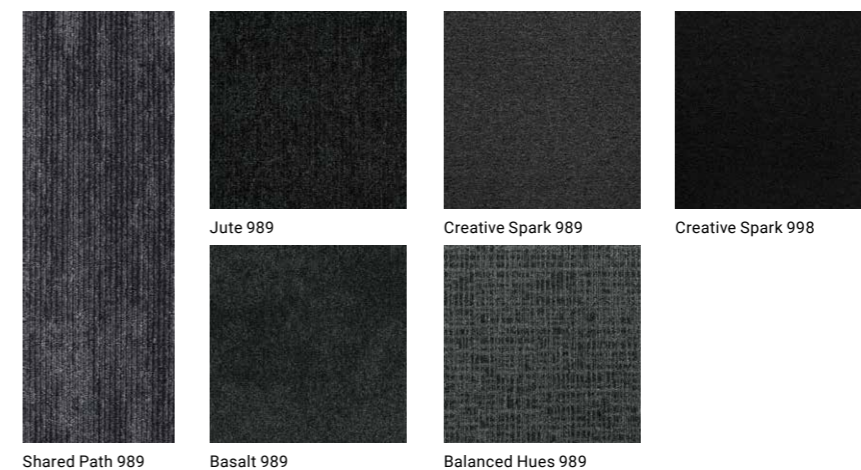
Improved performance and underfoot comfort is obtained through a **94% recycled polyester felt layer**



EcoFlex™ Echo

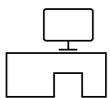
Standard acoustic offer

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.



Acoustics tailored to different applications

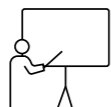
The extent of required sound insulation and absorption is inextricably linked to the purpose of a space.



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.



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.



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



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



In offices, finding the balance between disruptive noise and unsettling silence is key.

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/cm³
Number of tufts		176.300/ 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	0,114 m².K/W
Sound absorption	EN ISO 354	0,30 αw Hz 125 250 500 1000 2000 4000 αs -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-Produs Number		3AA1D4DF

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EcoFlex™ Echo / Shared Path

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	EN ISO 354	0,30 αw Hz 125 250 500 1000 2000 4000 αs 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-Produs 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/m ²
Pile weight		720 g/m ²
Surface pile weight		483 g/m ²
Total thickness		9 mm
Surface pile thickness		3,9 mm
Surface pile density		0,125 g/cm ³
Number of tufts		244.800/m ²
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 m ² .K/W
Sound absorption	EN ISO 354	0,25 α _w Hz 125 250 500 1000 2000 4000 α _s 0,00 0,05 0,25 0,25 0,40 0,40
Impact sound reduction	EN ISO 10140-3	ΔL _w = 33 dB
Permanent antistatic	ISO 6356	≤ 2 kV
Size & Packaging		50 x 50 cm (19,68" x 19,68") 3,5 m ² /box - 24 boxes/pallet
GUT-Produs Number		FA52FF8B

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EcoFlex™ Echo / Basalt & Jute

Carpet Tiles



Technical Specifications

		Basalt	Jute
Construction		Tufted 1/12" gauge loop	Tufted 1/12" gauge loop
Pile fibre composition		100% solution dyed nylon	100% solution dyed nylon
Secondary backing		Ecoflex™ Echo (94% recycled PES Felt)	Ecoflex™ Echo (94% recycled PES Felt)
Total weight		+/- 4700 g/m ²	+/- 4700 g/m ²
Pile weight		+/- 600 g/m ²	+/- 600 g/m ²
Surface pile weight		+/- 390 g/m ²	+/- 415 g/m ²
Total thickness		+/- 8,4 mm	+/- 8,4 mm
Surface pile thickness		+/-3,2 mm	+/-3,1 mm
Surface pile density		+/- 0,125 g/cm ³	+/- 0,127 g/cm ³
Number of tufts		219.300 /m ²	224.400 /m ²
Wear classification	EN 1307	33 / LC1	33 / LC2
Castor chair suitability	EN 985	A: intensive use	A: intensive use
Fire classification	EN 13501-1	Bfl-s1	Bfl-s1
Dimensional stability	EN 986	≤ 0,2%	≤ 0,2%
Colour fastness to light	EN ISO 105-B02	≥ 7	≥ 7
Rubbing fastness	EN ISO 105-X12	≥ 4	≥ 4
Colour fastness to water	EN ISO 105-E01	≥ 4	≥ 4
Thermal resistance	ISO 8302	0,109 m ² .K/W	0,113 m ² .K/W
Sound absorption	EN ISO 354	0,25 α _w Hz 125 250 500 1000 2000 4000 α _s 0 0 0,25 0,25 0,30 0,35	0,25 α _w Hz 125 250 500 1000 2000 4000 α _s 0 0,05 0,25 0,25 0,25 0,30
Impact sound reduction	EN ISO 10140-3	ΔL _w = 32 dB	ΔL _w = 32 dB
Permanent antistatic	ISO 6356	≤ 2 kV	≤ 2 kV
Number of colours		12	12
Size & Packaging		50 x 50 cm (19,68" x 19,68") 4 m ² /box - 24 boxes/pallet	50 x 50 cm (19,68" x 19,68") 4 m ² /box - 24 boxes/pallet
GUT-Produs Number		65EB7088	94EFCC68

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