

Interface®

MADE FOR QUIETER SPACES

Acoustics from the floor up.

CARPET TILE | LVT



KEEP WELLBEING IN.

AND UNWANTED NOISE OUT.

Controlling the noise we don't want, means hearing the sounds that matter.

When people feel comfortable in their environment, they're more productive in their workplace. More successful in the classroom. More rested in living and healthcare spaces.

We know it's no surprise to you that designers and architects play a crucial role in supporting how sound impacts us. But we're here to help you make sound choices. With products that support the acoustic needs across spaces, and ultimately, the people who use them.



Research has shown that employees rank their environment as one of the top three factors contributing to job satisfaction, as well as to their decisions about accepting or leaving a job.



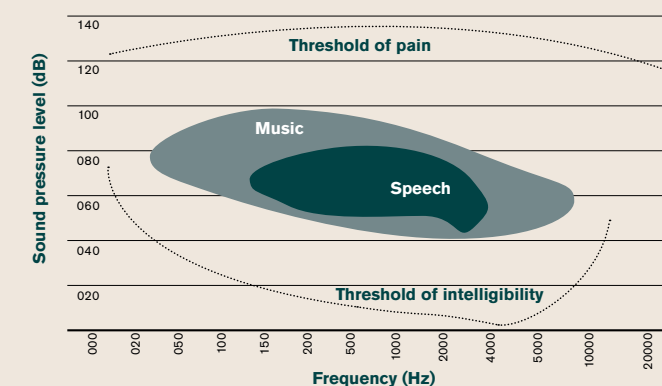
If you can hear someone talking while you're reading or writing, your productivity dips by up to 66%.

WHAT KIND OF ACOUSTIC ENVIRONMENT DO YOU WANT TO CREATE?

Of course, the exact acoustic needs of interior spaces vary. The right solution depends on the activities they're used for as well as their size and shape.

Improving the clarity of speech in a classroom or meeting area requires a different approach to flooring (and other interior finishes) than enhancing a feeling of privacy in an open floor plan.

Before deciding the best materials to reduce unwanted noise, designers need to understand which sounds people can hear – and which they don't want to hear.



Sound frequencies and decibel levels affect comfort and intelligibility of speech differently, depending on the setting. But to create precisely the right acoustic environment, flooring has a major role to play in all of them.

MADE FOR CONTROLLING IMPACT SOUND



Image: ©Ifocop - ©Coutant Delphine

Our carpet tiles reduce impact noise by

16 - 33 dB

Our LVT by

Up to 19 dB

Other hard flooring typically reduces it by only

1 - 6 dB

Impact sound transmission, measured in decibels, tells you how much sound a flooring material insulates from an adjacent space.

Footsteps, the scraping or thumping of chairs, a heavy object being dropped. These are common examples of impact noise – and they all come from the floor.

To minimise the impact noise transferred between rooms, carpet tile is ideal for its sound-transmission properties. Our carpet tiles come with a choice of acoustic backings for different levels of impact noise control.

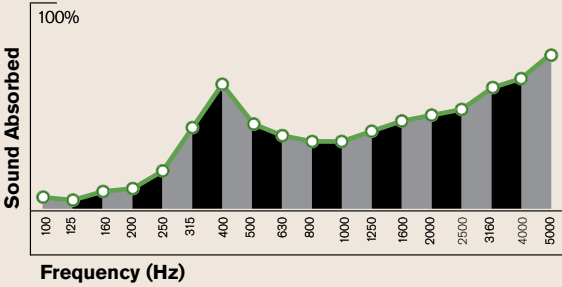
But we have you covered when you need resilient options, too. Most hard surfaces reflect sounds, but our LVT has a specially designed Sound Choice+™ backing built-in making it much more effective in decreasing impact noise than other hard floors.

Absorbing Other Sounds

Although reducing impact noise is the main acoustic benefit of choosing the right flooring, carpet can also help increase the absorption of other kinds of sounds.

It's all about using materials that soak up the types of noise we're particularly sensitive to.

Sound absorption is measured across 18 frequencies from 100 Hz to 5,000 Hz. At each frequency, the sound absorbed is reported as a number between 0 and 1 called the Alpha s value (α_s).



Alpha s values for Interface's Equilibrium™ carpet tile with CQuest™Bio SONE+.

To address a specific type of sound you want absorbed, choose materials with alpha s values closer to 1 at that related frequency.

For example, humans are less sensitive to low frequencies, making higher absorption of mid to high frequency sounds more important.

All alpha s values are averaged, rounded, and weighted into a single value called the alpha w (α_w).

0.0

No sound absorbed

0.0 - 0.1

Hard flooring (cork, wood and concrete)

0.15 - 0.2

Interface product with standard backing

0.25 - 0.4

Interface product with acoustic backing

1.0

All sound absorbed

Typical sound absorption (α_w) values.



MINIMISING NOISE, MAXIMISING CHOICE.

In most environments, you can achieve the right acoustic comfort by specifying standard Interface backings - CQuest™Bio carpet tile backing or our LVT with its built-in Sound Choice+™ backing.

So controlling sound levels doesn't have to mean compromising creativity. We offer a wealth of patterns, textures, and colours to choose from, totaling over 1,000 styles.

And if your space has more complex needs, our enhanced acoustic backing options are available with many of our carpet tile designs:

CQuest™Bio SONE+

CQuest™Bio SONE

Interlay® CQuest™Bio SONE

Create interiors that look as good as they sound, whether you use these backings for an entire workspace or smaller zoned areas.



© Image: Avans Hogeschool, NL





LEVEL UP YOUR BACKINGS

CQUEST™BIO SONE, CQUEST™BIO SONE+

Designed to support users in spaces with more complex needs, both backings offer greater acoustic and underfoot comfort.

And both backings are integrated into the product, meaning projects can be completed swiftly with as little disruption as possible.

CQuest™Bio SONE+	CQuest™Bio SONE	
Up to 33dB	Up to 29dB	Impact sound reduction (ΔLw)
0.30 to 0.40	0.30 to 0.35	Sound absorption (αw)

PRODUCT BENEFITS

- Enhanced softness underfoot
- Easy to install with minimum disruption
- Economical – especially over large areas
- Constructed with 98% recycled polyester felt base, made from recycled PET bottles
- Bitumen and PVC free
- CQuest™Bio SONE and CQuest™Bio SONE+ are available with an extensive range of Interface carpet tiles

Here are the acoustic values for some of our most popular carpet tiles.

		BS EN ISO 10140-3	BS EN ISO 354						BS EN ISO 11654
		Impact Sound Insulation	Measurement of sound absorption in a reverberation room						Rating of sound absorption
Backing	Product	dB							αw
CQuest™Bio SONE+	Composure	33	0.03	0.08	0.43	0.27	0.35	0.54	0.35
	Equilibrium	33	0.03	0.18	0.41	0.29	0.38	0.50	0.40
	Heuga 727	31	0.01	0.07	0.42	0.24	0.34	0.42	0.30
	Polichrome	29	0.00	0.06	0.39	0.25	0.36	0.52	0.30
CQuest™Bio SONE	Composure	28	0.02	0.05	0.34	0.29	0.35	0.53	0.30
	Equilibrium	29	0.01	0.09	0.38	0.29	0.35	0.52	0.35
	Heuga 727	28	-0.01	0.06	0.39	0.26	0.30	0.39	0.30
	Polichrome	27	0.00	0.06	0.45	0.25	0.31	0.43	0.30



MAKING IT FLEXIBLE

INTERLAY® CQUEST™BIO SONE

Designed for installation beneath your Interface carpet tiles, our resilient, loose-lay underfloor system is supplied in 50 x 50 cm tiles. Use it to enhance acoustic, underfoot and thermal comfort across an entire space or in smaller zoned areas.

It also offers long-lasting benefits: when your carpet needs replacing, Interlay CQuest™Bio SONE will still be going strong. You can re-use it, again and again, enjoying less noise and more comfort well into the future.



PRODUCT BENEFITS

- Impact sound reduction up to 28 dB*
- Sound absorption coefficient of α_w 0.25*
- Enhanced softness underfoot and thermal comfort
- Easy to install
- Can be installed with our glue free TacTiles® system
- Flexible – allows easy change of carpet tiles
- No minimum quantity and short lead times
- Economical and flexible – especially for smaller areas
- Compatible with the majority of Interface carpet tiles

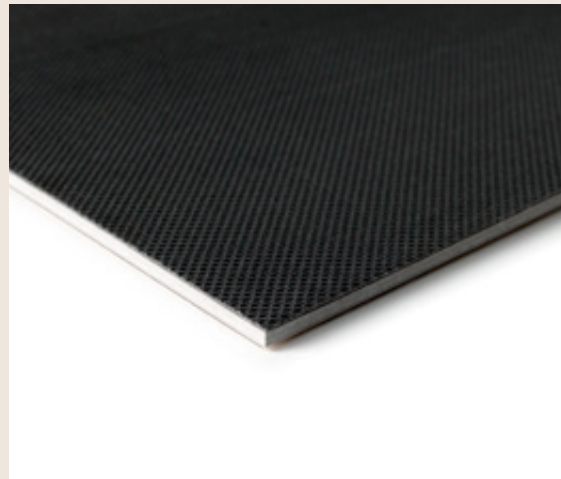
*based on testing with a 1/10" Gauge, tufted product with a pile weight of 535g/m² approximately

HEAR THE DIFFERENCE

SOUND CHOICE+™ LVT

Designed specifically as the integrated backing for our LVT collection, Sound Choice+™ helps your flooring reduce unwanted sound much more effectively than other hard surfaces.

As a standard component of our LVT tiles, Sound Choice offers acoustic insulation without the expense of fitting underlays.



PRODUCT BENEFITS

- Impact sound reduction by up to 19 dB
- Standard on all Interface LVT products
- Especially useful in multi-storey office buildings, as well as in education, healthcare and hospitality environments
- Easy to install with minimum disruption



READY FOR MORE?

If you want to know more about how Interface flooring can improve acoustics, need samples or design support, or would like to visit one of our showrooms, we'd love to hear from you.

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