

THE UNBREAKABLE SOUND ABSORPTION

The sound absorption and sound insulation of spaces is the focus of attention. To improve the acoustics of a room, the reverberation time is usually shortened. A sound-absorbing material is an important part of the solution. Nevima delivers the easily workable IVI-Akoestiek for optimal sound absorption. The system consists of an **IVI-Akoestiek board** that is applied to a cavity filled with **IVI-Absorptiewol**. The high absorption values counteract disturbing reflections, regulate the reverberation time and prevent flutter echoes.

Description

The IVI-Akoestiek board is available in two versions, the **IVI-Akoestiek Basic** and the **IVI-Akoestiek Pro**. The IVI-Akoestiek Basic is for standard applications, the IVI-Akoestiek Pro for applications having the heaviest loads, such as in sports halls and gymnasiums. Only the IVI-Akoestiek Pro has a certificate for ball impact resistance according to the standards of the Dutch Olympic and Sports federations. The product is made of 100% polyester without chemical binders or additives and is completely recyclable.

The IVI-Akoestiek Pro sheet is easy and very quick to process. It can be custom made with a saw or a knife.



The material has low flammability and also has excellent thermal insulation values. The IVI-Akoestiek Pro sheet comes standard in light grey, silver grey or anthracite. On a project basis, the sheets can be delivered in RAL colour, but always mixed with 5% of black fibres.



Nevima IVI-Akoestiek Pro System has the following advantages:

- ✓ High absorption values both in the low frequency and speech area
- ✓ Perfect for counteracting flutter echoes
- ✓ No irritating fibres
- ✓ Ecological
- ✓ Pleasant and quick to process
- ✓ Impact-resistant and unbreakable
- ✓ Ball impact resistance according to **NOC/NSF** standards (tested by Kiwa ISA Sport DIN 18032-3)
- ✓ Cleanable with high-pressure cleaner

Applications

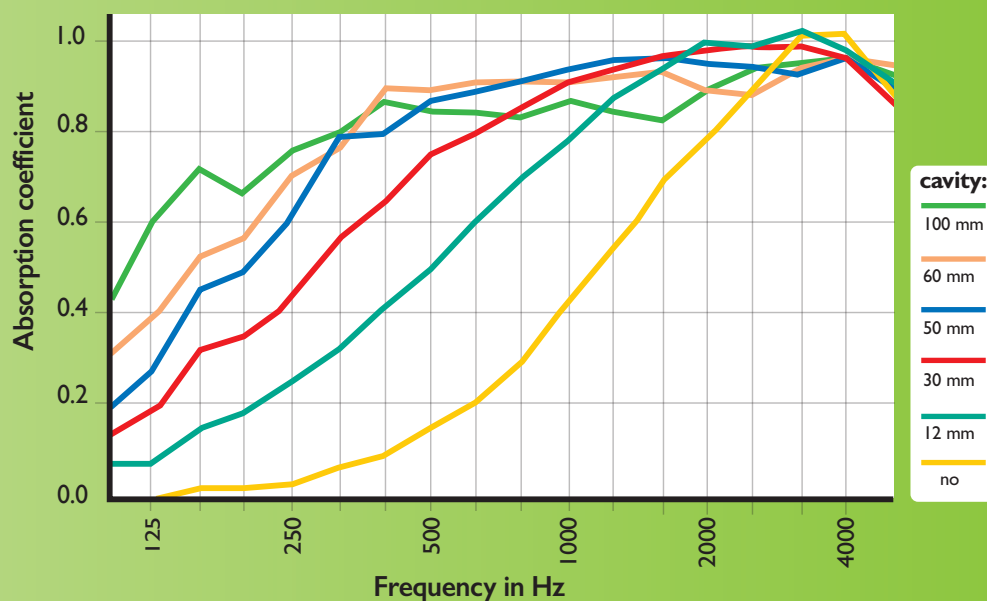
Thanks to its high impact resistance, the IVI-Akoestiek Pro sheet can be used for both walls and ceilings of intensively used spaces, including sports halls. The IVI-Akoestiek sheet is applied to a framework of c.t.c 600 mm. For a quick and invisible fixation, the IVI-Akoestiek sheet is joined with sealant. It is also possible to use screws or staples. The cavity should be fully filled with **IVI-Absorptiewol** for optimal absorption values. In addition to its excellent absorbent effect, as an added benefit, no fibres are released that can cause irritation when processed or used.

Specifications Nevima IVI-Akoestiek Pro

Dimensions (h x w x l)	10 x 1,198 x 3,000 mm (tolerance +/- 2 mm)
Standard colour	mottled colours light grey (on stock), silver grey and anthracite
Project colours	from 530 m² dyed in RAL colour with 5% black fibres (mottled)
Material of sheet	100% polyester fibre
Other	100% recyclable, environmentally friendly (Oeko-Tex standard 100), skin-friendly, sheet has low flammability (class B – s2, d0 according to EN 13501-1:2010), rot-free, insensitive to mould and dust mites, contains no chemical binders, minimal moisture absorption, UV resistant, temperature resistance -30° to +120° C

Different lengths, widths, execution, etc. on request.

Acoustic properties



IVI-Akoestiek top side

Absorption values IVI-Akoestiek Pro sheet and cavity fully filled with IVI-Absorptiewol

Absorption values according to ISO 354:2003; α_w according to ISO 11654; NRC according to ASTM-C423

	Cavity depth	α_w	NRC	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
	100 mm	0.90	0.85	0.57	0.73	0.85	0.84	0.88	0.94
	60 mm	0.90	0.85	0.41	0.68	0.89	0.91	0.89	0.94
	50 mm	0.90	0.85	0.31	0.63	0.84	0.93	0.94	0.92
	30 mm	0.70	0.75	0.21	0.45	0.72	0.89	0.97	0.93
	12 mm	0.50	0.65	0.10	0.25	0.50	0.78	0.97	0.96
	no	0.25	0.35	0.00	0.04	0.15	0.43	0.78	0.96

A product of Nevima B.V.

Supplier of products for sound insulation, sound absorption, floating screeds and bearing materials.

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