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HASSLACHER
NORICA TIMBER
From **wood** to **wonders.**

HASSLACHER Acoustic Element

Effective, appealing and sustainable

At a glance

The HASSLACHER acoustic element is a sustainable alternative to conventional sound absorbers. The visually, high-quality wood surface is a simple design and can be used both on ceilings and walls. Applied both directly and at a distance, this innovative three-layered structure delivers imprioved acoustics over a wide frequency spectrum.

Applications

- Offices
- Public buildings
- Schools
- Gymnasium
- Rehearsal rooms and lecture halls

Benefits

- Improvement of room acoustics
- Visually appealing design
- Fast and easy assembly

Lay Up

Total thickness: 35 mm

- Cover layer
  7.5 mm top layer in visible quality in fir or larch, other wood species on request
- High-performance sound absorber
  20 mm softwood fibre board
- Cover layer
  7.5 mm top layer of softwood in industrial quality, with relief grooves for dimensional stability

Dimensions

Thickness: 35 mm
Width: 620 mm
Length: 4,000 mm
Other dimensions and CNC works are available on request.

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Assembling on ceilings and walls

For concealed mounting, the element is fastened through the acoustic profiling using thin cylinder head screws.

The element can be mounted directly or using suitable substructures. The cavity created during installation with a substructure is usually filled with sound-absorbing insulation material.

Sound absorption coefficient acc. to ISO 11654

Degree of opening approx. 20 %

Element installed directly on component
Weighted sound absorption coefficient: α_w = 0.35 Sound absorption class: D
Sound absorption coefficient as a function of frequency

α_p 1/1 octave	0.05			0.10			0.35			0.85			1.00			0.85		
Frequency F [HZ]	100	125	160	200	250	315	400	500	630	800	1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000

Element installed on building component with 50 mm spacing and backfilled with insulation material
Weighted sound absorption coefficient: α_w = 0.80 Sound absorption class: D
Sound absorption coefficient as a function of frequency

α_p 1/1 octave	0.40			0.70			0.70			0.80			1.00			0.85		
Frequency F [HZ]	100	125	160	200	250	315	400	500	630	800	1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000

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