



THERMATEX® Alpha HD

19 mm: $NRC = 0.85$ $\alpha_w = 0.90$ $D_{n,f,w} = 34$ dB
 30 mm: $NRC = 0.90$ $\alpha_w = 0.90$ $D_{n,f,w} = 40$ dB
 35 mm: $NRC = 0.85$ $\alpha_w = 0.90$ $D_{n,f,w} = 42$ dB

THERMATEX® Alpha HD is the extremely absorbing plank ceiling from the Knauf AMF Acoustic Range. Plank tiles up to 1800 mm long enable rooms or corridors to be equipped with high absorbency whilst the material guarantees easy handling and uncomplicated construction. The plank tiles are also available in square format. The elegant white acoustic fleece provides a high quality surface.

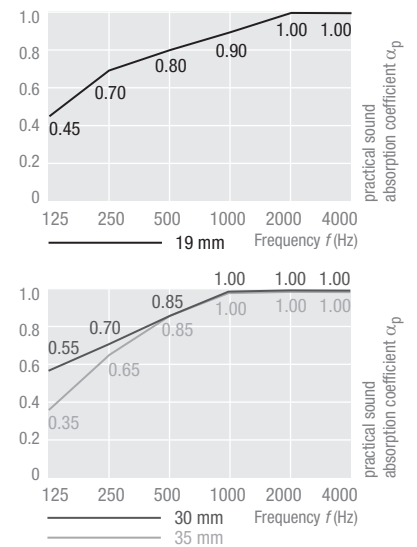


Technical Properties

Building material class	A2-s1, d0 as per EN 13501-1
Sound absorption	EN ISO 354 $\alpha_w = 0.90$ as per EN ISO 11654 (19 mm, 35 mm) $NRC = 0.85$ as per ASTM C 423 (19 mm, 35 mm) $\alpha_w = 0.90$ as per EN ISO 11654 (30 mm) $NRC = 0.90$ as per ASTM C 423 (30 mm)
Sound attenuation	$D_{n,f,w} = 34$ dB as per EN ISO 10848 (19 mm thickness, as per test certificate) $D_{n,f,w} = 40$ dB as per EN ISO 10848 (30 mm thickness, as per test certificate) $D_{n,f,w} = 42$ dB as per EN ISO 10848 (35 mm thickness, as per test certificate)
Sound attenuation	$R_w = 17$ dB as per EN ISO 10140-2:2010 (19 mm)
Sound attenuation	$R_w = 25$ dB as per EN ISO 10140-2:2010 (35 mm)
Humidity resistance	up to 95% relative humidity
Light reflection	for white similar to RAL 9010 glare-free approx. 88%
Thermal conductivity	$\lambda = 0.052$ - 0.057 W/mK as per DIN 52612
Air permeability	PM1 (≤ 30 m ³ /hm ²) as per DIN 18177
Colour	white similar to RAL 9010

- System **A** Concealed system, tiles demountable / non-accessible (19 mm)
- System **C** Exposed system, tiles demountable (19 mm, 30 mm, 35 mm)
- System **F** Free span system, main runners exposed or concealed (19 mm, 30 mm, 35 mm)
- System **I** Parallel Bandrastrer construction, cross tees exposed or concealed (19 mm, 30 mm, 35 mm)

Sound absorption values



Available sizes and edges	Thickness/weight 19 mm (approx. 5.2 kg/m ²), 30 mm (approx. 8.2 kg/m ²), 35 mm (approx. 9.5 kg/m ²)					
	System C			System A	System F I	
	VT 15/24 (19 mm)	VT-S 15/24 (30, 35 mm)	VT-S 15F (30, 35 mm)	AW/GN (19 mm)	AW/SK (19, 30, 35 mm)	GN/SK (19 mm)
Please note minimum quantities and lead times						
600 x 600 mm	on request	•	•	•	–	–
625 x 625 mm	on request	•	•	•	–	–
300 x 1200 - 1800 mm	on request	•	•	–	•	•