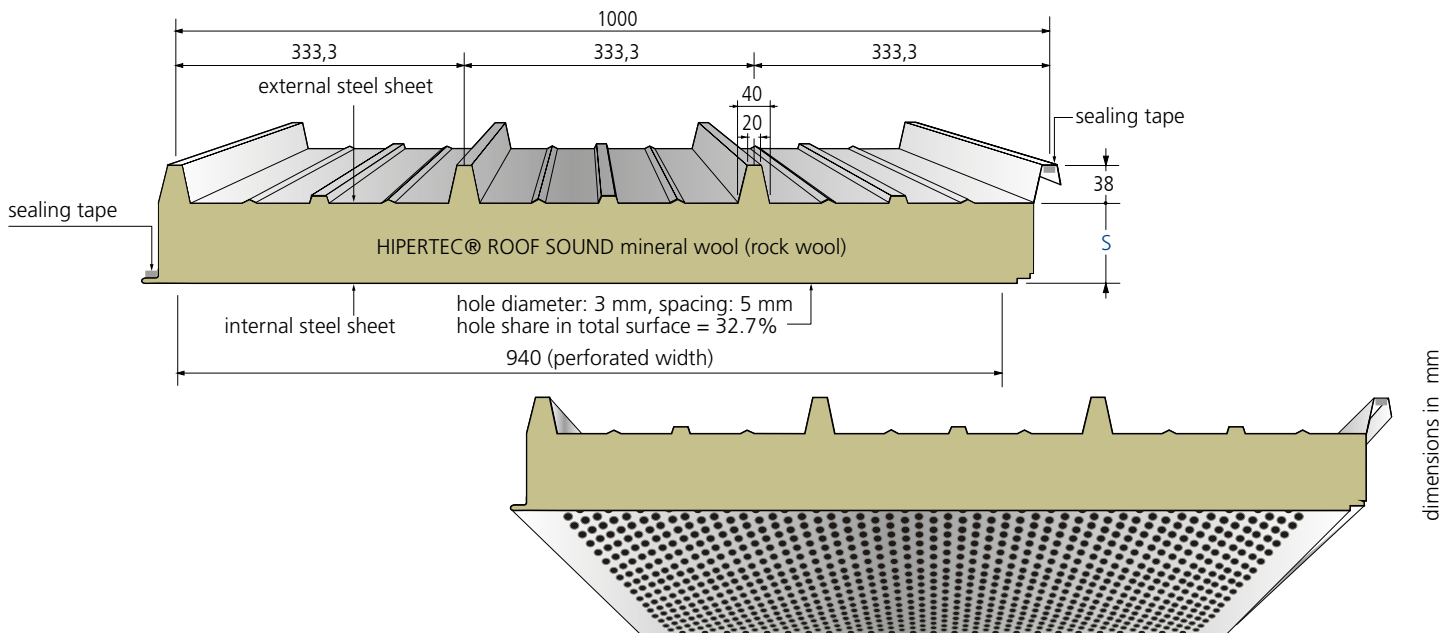


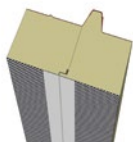


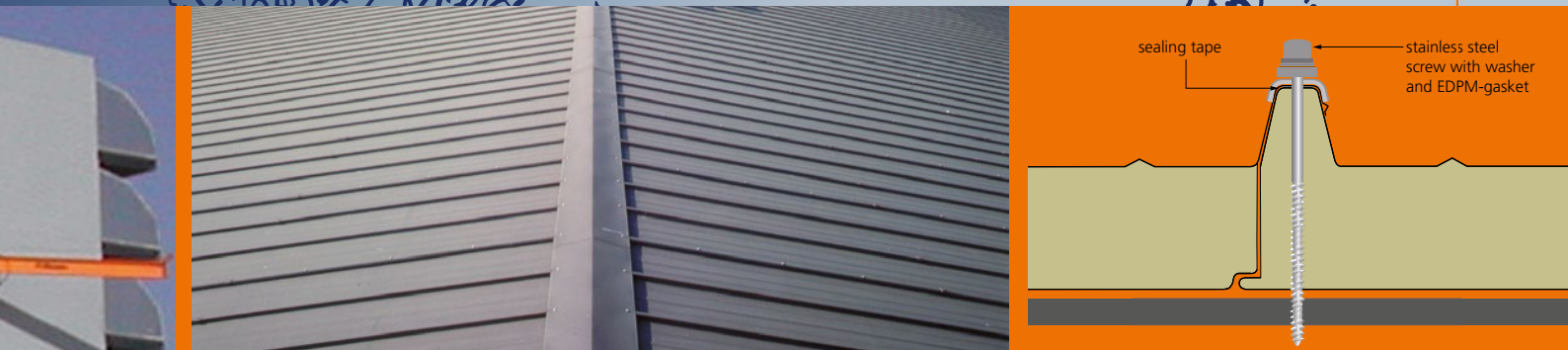
With its perforated internal sheet the Hipertec® Roof Sound panel contributes drastically to the improvement of sound insulation and sound absorption where applied. Designed particularly for ceiling application it may also be used as external roof in specific cases, including unheated premises. However for heated or moist are-

as the use of Hipertec® Roof Sound panels is not recommended since the internal sheet has no vapour barrier. This system patented by Metecno applies a special fleece as trickle protection between the internal sheet and the mineral wool core. More information is available in the download area [www.en.metecno.de](http://www.en.metecno.de).



type of element	core-thickn.s mm	total-thickn. D mm	external steel sheet tN mm	internal steel sheet tN mm	weight kg / m <sup>2</sup>	thermal resistance R m <sup>2</sup> K / W	thermal conductivity (Ψ - joint effect)	
							U w/o Ψ W / m <sup>2</sup> K	U with Ψ W / m <sup>2</sup> K
HIPERTEC® ROOF SOUND	60	98	0,60	0,60	16,4	1,34	0,705	0,707
	80	118	0,60	0,60	18,6	1,79	0,534	0,535
	100	138	0,60	0,60	20,8	2,25	0,429	0,430
	120	158	0,60	0,60	23,0	2,70	0,359	0,360
	150	188	0,60	0,60	25,2	3,39	0,289	0,289
	200	238	0,60	0,60	27,4	4,52	0,217	0,218





**THERMAL CONDUCTIVITY**

$\lambda = 0.044 \text{ W / m.K}$  according to DIN 4108 and DIN EN 13162  
The insulation values are regularly monitored by external bodies and may be applied without any further reduction.

**STANDARD COATING**

External and internal steel sheet: 25  $\mu\text{m}$  polyester

**STANDARD LENGTHS**

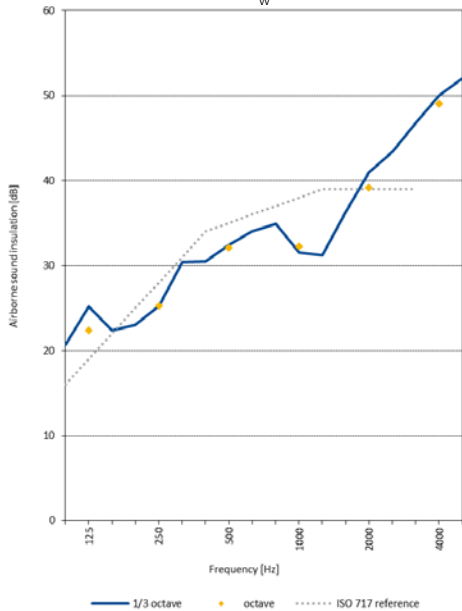
> 2,00 m to 25,00 m, greater lengths on request

**PACKAGING**

External and internal sheets provided with removable protective film, panel packages wrapped with banded plastic foil to protect from soiling

**SOUND INSULATION**

Rated sound insulation  $R_w \geq 33 \text{ dB}$



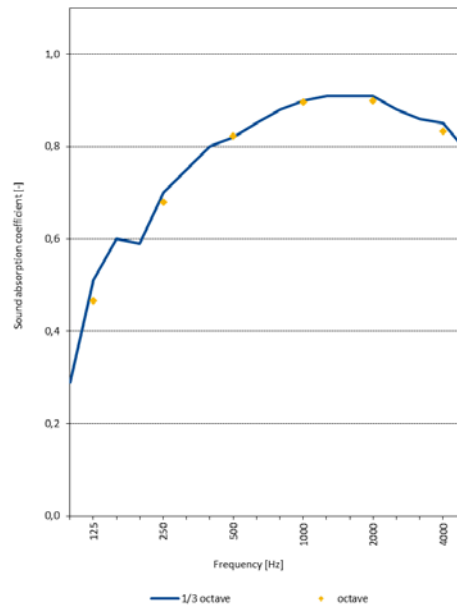
**CORROSION PROTECTION**

Tested according to DIN EN 10169: External sheet: Class RC3  
According to DIN EN ISO 12944-2: External sheet: corrosivity category C3 corresponding to average protection duration for urban and industrial environments with moderate exposure to sulphur dioxide

**REACTION TO FIRE**

Hipertec® Roof panels are rated as "hard roofing" - resistant to airborne fire and radiating heat according to DIN 4102-4.

**SOUND ABSORPTION**



frequency Hz	thickness mm	125	250	500	1000	2000	4000
$\alpha_s$	100	0,47	0,68	0,82	0,90	0,90	0,83

