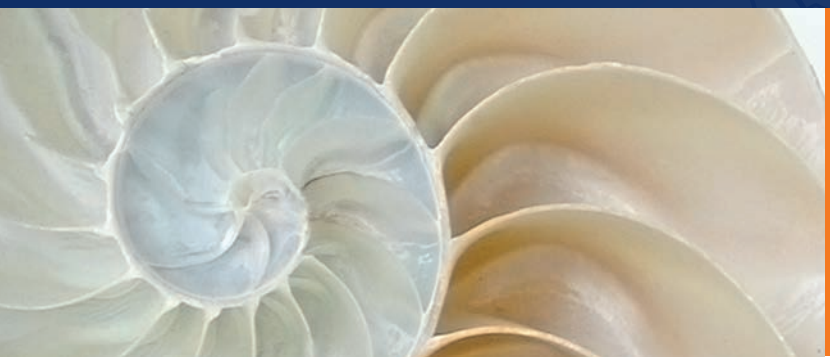
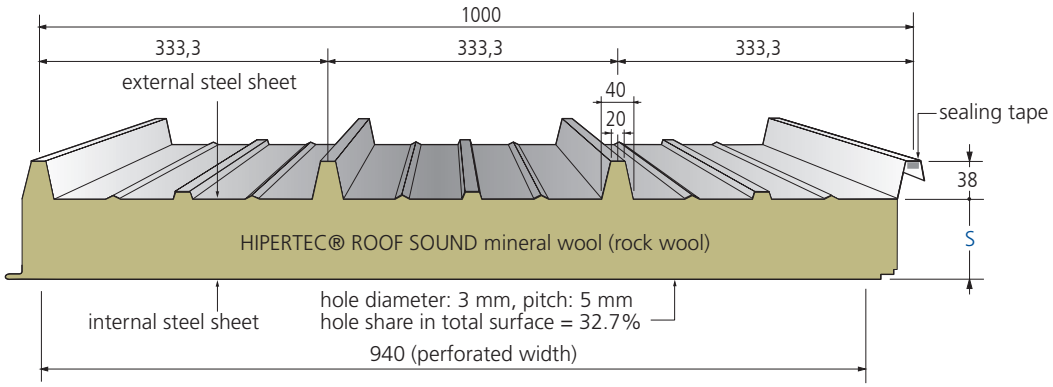
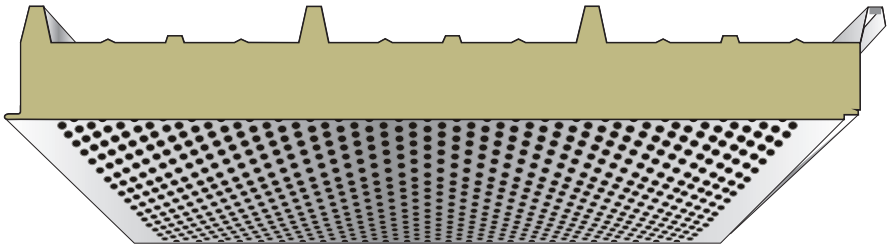


With its perforated internal sheet the Hipertec® Roof Sound panel contributes drastically to the improvement of sound insulation and sound absorption where applied. Designed particularly for ceiling application it may also be used as external roof in specific cases, including unheated premises. However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

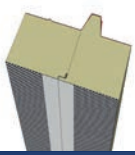
For additional information please refer to our detailed technical manual.

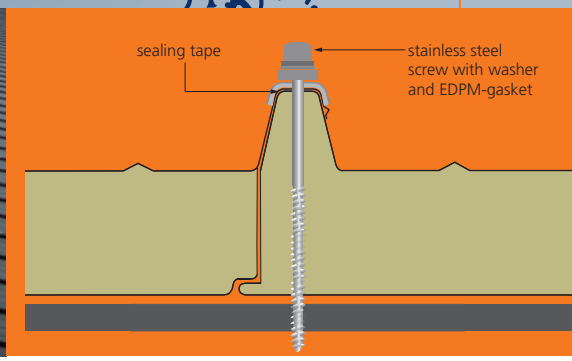




dimensions in mm

type of element	core-thickn.s	total-thickn. D	external steel sheet t_N	internal steel sheet t_N	weight	thermal resistance	thermal conductivity (Ψ – joint effect)	
						R	U w/o Ψ	U with Ψ
	mm	mm	mm	mm	kg / m²	m² K / W	W / m² K	W / m² 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

λ = 0.044 W / mK 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.

PACKAGING

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

STANDARD COATING

External and internal steel sheet: 25 µm polyester

STANDARD LENGTHS

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

SOUND INSULATION

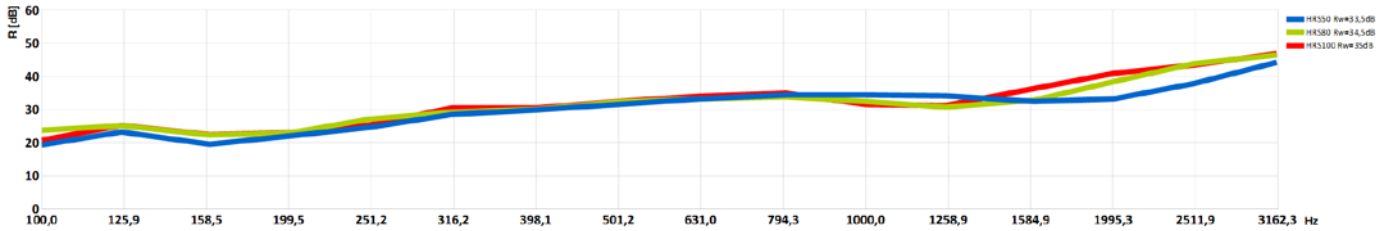
$R_w \approx 33 – 35$ dB

CORROSION PROTECTION

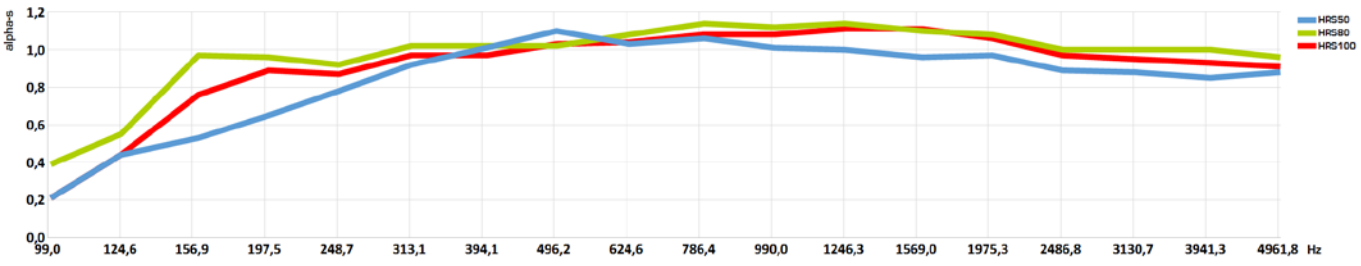
Tested according to DIN EN 10169: External sheet: Class RC3
According to DIN EN ISO 12944-2: External sheet: corrosivity category C3 corresponding to average protection duration for urban and industrial environments with moderate exposure to sulphur dioxide

SOUND INSULATION

Rated sound damping dimension R_w: 50 mm = 33,5 dB, 80 mm= 34,5 dB, 100 mm= 35 dB



SOUND ABSORPTION



frequency Hz	thickness	125	250	500	1000	2000	4000
	mm						
αs	**50**	0,44	0,78	1,10	1,01	0,97	0,85
αs	**80**	0,55	0,92	1,02	1,12	1,08	1,00
αs	**100**	0,44	0,87	1,03	1,08	1,06	0,93