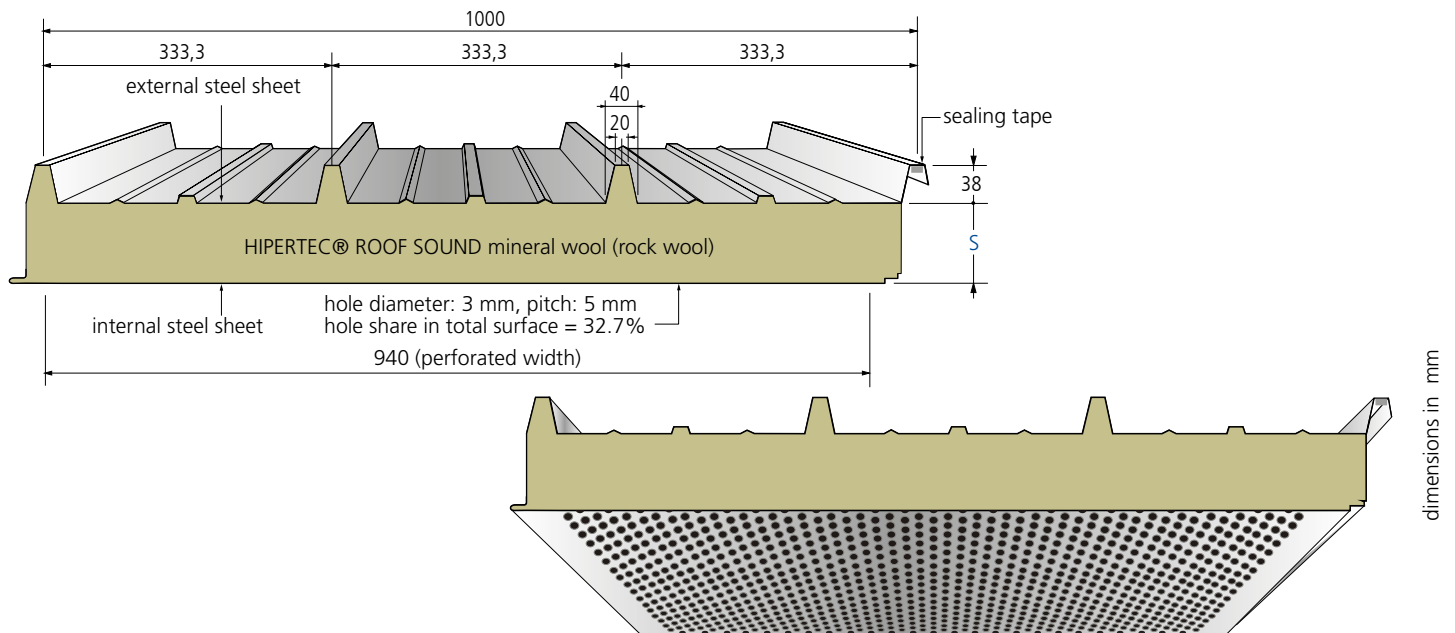


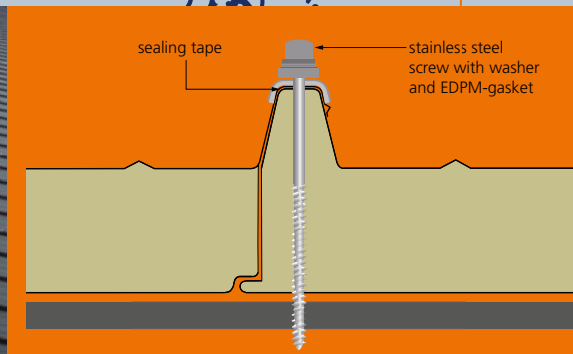


With its perforated internal sheet the Hipertec® Roof Sound panel contributes drastically to the improvement of sound insulation and sound absorption where applied. Designed particularly for ceiling application it may also be used as external roof in specific cases, including unheated premises. However 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. Additional information is available in the download area 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 ² | thermal resistance R m ² K / W | thermal conductivity (Ψ – joint effect) | |
|-------------------------|---------------------|-----------------------|----------------------------------|----------------------------------|-------------------------------|---|--|----------------------------------|
| | | | | | | | U w/o Ψ W / m ² K | U with Ψ W / m ² 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

$\lambda = 0.044 \text{ W / mK}$ 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.

STANDARD COATING

External and internal steel sheet: 25 μm polyester

STANDARD LENGTHS

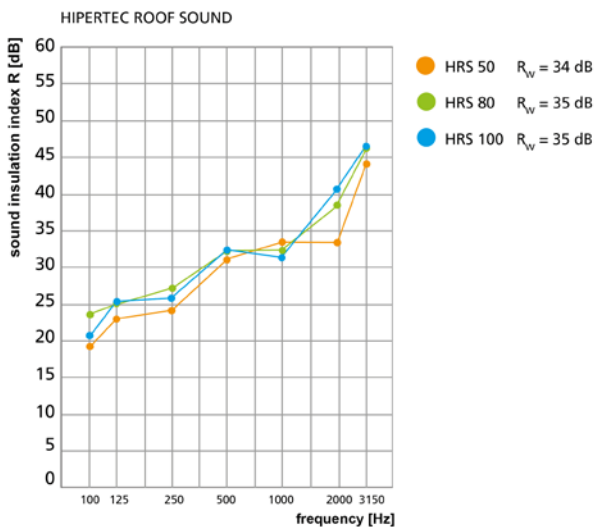
> 2,00 m to 25,00 m, greater lengths on request

SOUND INSULATION

$R_w \approx 33 - 35 \text{ dB}$

SOUND INSULATION

Rated sound damping dimension R_w : 60 mm = 33 dB,
80 mm = 34 dB, 100 mm = 35 dB



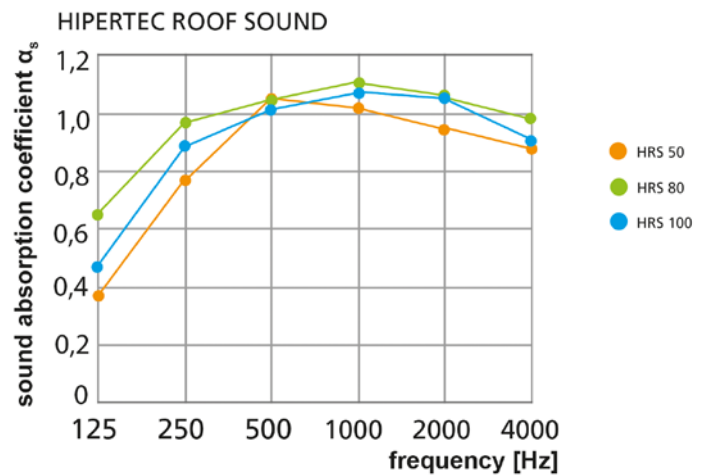
PACKAGING

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

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 ABSORPTION



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

