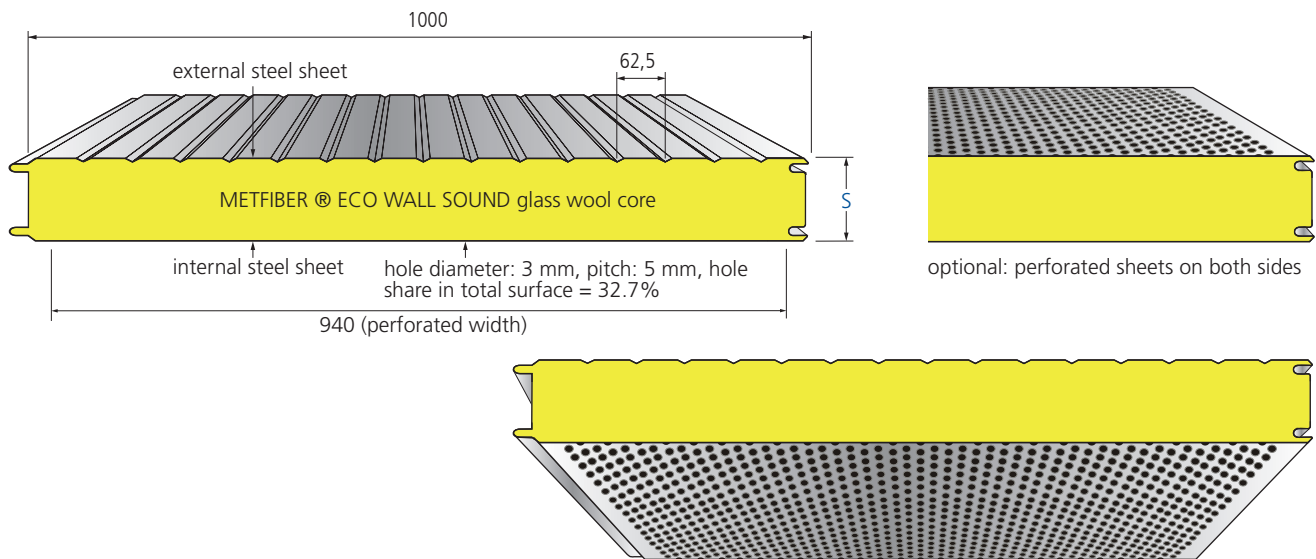


Metfiber® Eco Wall Sound is a sandwich panel with an insulation core of glass wool and steel cover sheets. It's THE solution for buildings with high requirements for noise insulation and sound absorption. The design of the perforated internal sheet improves room acoustics substantially. This system patented by Metecno applies a special fleece material as trickle protection between the internal sheet and the glass wool core. In addition to its outstanding acoustic properties, the glass

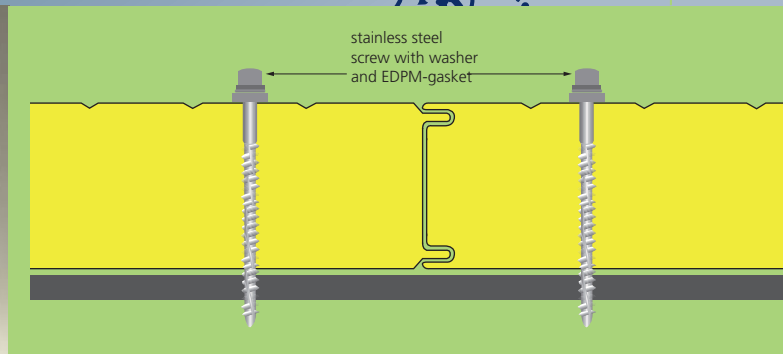
wool used in this product consists of 80% recycled material, thus contributing significantly to the saving of natural resources and making the product an ecological building material. Generally used as ceiling or partition wall Metfiber® Eco Wall Sound may also be used as external wall in specific cases, though it is generally not recommended to apply this panel in heated buildings or buildings with high moisture. For additional information please refer to our detailed technical manual.



dimensions in mm

type of element	core thicken. s	external steel sheet t _N	internal steel sheet t _N	weight	thermal resistance R	thermal conductivity (Ψ – joint effect)	
						U w/o Ψ	U with Ψ
	mm	mm	mm	kg / m ²	m ² K / W	W / m ² K	W / m ² K
METFIBER® ECO WALL SOUND	100	0,60	0,60	14,7	2,54	0,37	0,38
	120	0,60	0,60	15,9	3,05	0,31	0,32
	150	0,60	0,60	17,7	3,82	0,25	0,26
	200	0,60	0,60	20,7	5,10	0,19	0,20
	240	0,60	0,60	23,1	6,12	0,161	0,162





THERMAL CONDUCTIVITY

$\lambda = 0.039 \text{ W / mK}$ 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 LENGTHS

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

STANDARD COATING

External and internal steel sheet: 25 μm polyester

SOUND INSULATION

$R_w \approx 34 \text{ dB}$

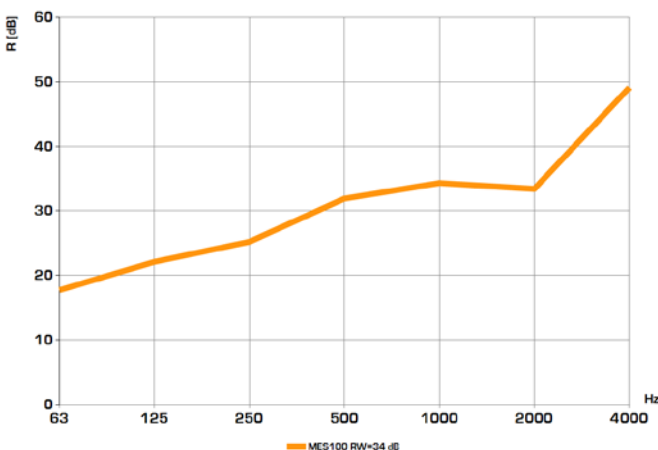
CORROSION PROTECTION

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

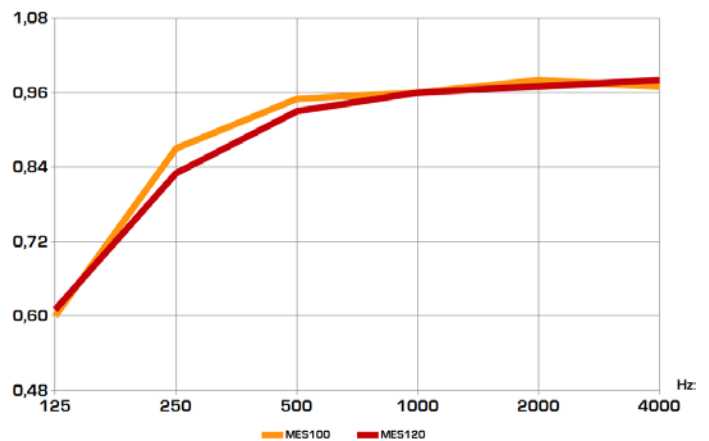
PACKAGING

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

SOUND INSULATION



SOUND ABSORPTION



frequency Hz	thickness mm	63		125		250		500		1000		2000		4000	
		R	α_s	R	α_s	R	α_s	R	α_s	R	α_s	R	α_s	R	α_s
	100	17,7		22,1	0,6	25,2	0,87	31,9	0,96	34,3	0,96	33,4	0,98	49,1	0,97
	120				0,61		0,83		0,96		0,96		0,97		0,98

