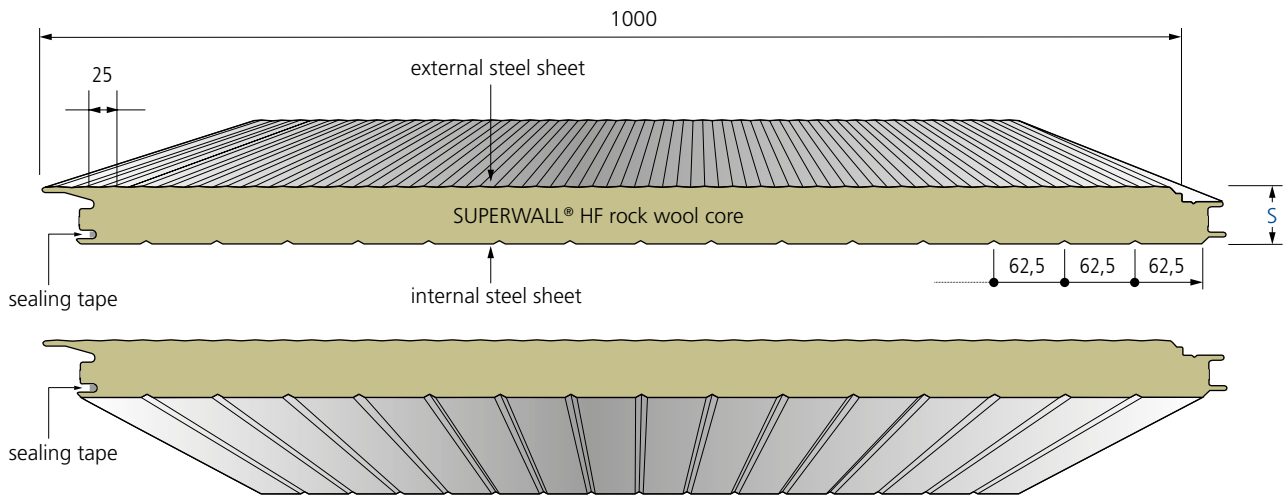




The Superwall® HF sandwich panel with microprofiled external steel sheet, non-combustible rock wool core and joint geometry for hidden fixing is suited best to meet today's sophisticated requirements for high-quality facades. The panels can be placed vertically or horizontally and, depending on the insulation thickness, may reach a fire resistance up to 90 minutes. Additionally Superwall® HF panels show excellent acoustic insulation behaviour as well. For buildings exposed to high wind suction horizontal single span in-

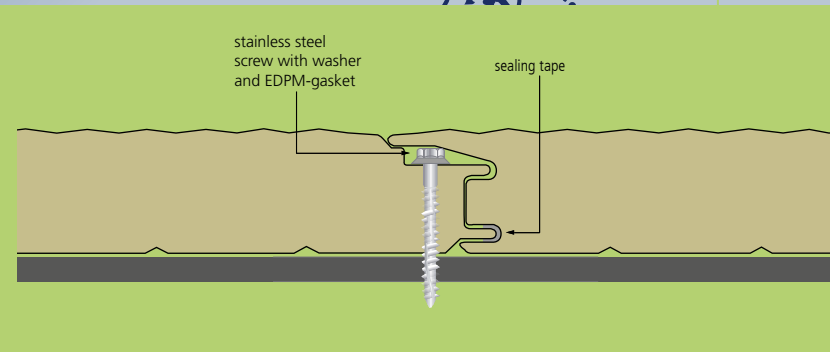
stallation is recommended as well as the use of visible fixing screws covered by pilaster profiles. Due to the large number of combinations with other panels from our portfolio with polyurethane or glass wool insulation core, it is possible to reach fire, acoustic and thermal requirements at once without any visual impact. More information is available in the download area www.en.metecno.de.



different internal profiles on request, dimensions in mm

type of element	core thickn. s mm	external steel sheet t _N mm	Inner steel sheet t _N 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
SUPERWALL® HF	60	0,60	0,60	17,0	1,34	0,713	0,778
	80	0,60	0,60	19,5	1,79	0,539	0,566
	100	0,60	0,60	21,7	2,25	0,433	0,449
	120	0,60	0,60	23,9	2,70	0,362	0,372
	150	0,60	0,60	27,2	3,37	0,290	0,297
	200	0,60	0,60	32,7	4,52	0,218	0,222
	240	0,60	0,60	37,1	5,43	0,182	0,185





PRODUCTION AND LABELING

Production according to applicable European Building Product Regulation as per sandwich norm DIN EN 14509 label-marking in accordance with EC certificate of conformity 0769-CPR-VAS-00420

APPLICATION APPROVAL

Current approvals, certificates and general building permits at www.en.metecno.de/service.

REACTION TO FIRE

Building material classified as A2-s1, d0 non-combustible according to DIN EN 13501-1, rock wool core A1, non-combustible, melting point > 1000°C

FIRE RESISTANCE

German building compliance certificate DIBt Application Approval Z-19.52-2096 (see table below)

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.

SOUND INSULATION

$R_w \geq 30 \text{ dB}$

TABLE OF SPANS

Please visit our website www.en.metecno.de

STANDARD COATING

External and internal steel sheet: 25 μm polyester

For standard colours and different coating systems please refer to our colour chart

STANDARD LENGTHS

> 2.00 m up to 25.00 m, greater lengths on request

CORROSION PROTECTION

According to DIN EN 10169:

External and internal sheets: Class RC3

According to DIN EN ISO 12944-2: External and internal sheets: corrosivity category C3 corresponding to average duration of protection for urban and industrial environments with moderate exposure to sulphur dioxide Other coating systems are available for more sophisticated demands such as for buildings near the sea, farm buildings with high ammonia exposure or moist rooms

STANDARD STEEL SHEETS

Hot-dip galvanized steel, grade S 320 GD+ Z 275 according to DIN EN 10346

PACKAGING

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

INTERLOCKING JOINT COMPATIBILITY WITH SUPERWALL® ML &

METFIBER® ECO HF WALL

SUPPORTING WIDTHS FOR ACHIEVING FIRE RESISTANCE ACCORDING GERMAN FIRE RESISTANCE APPROVAL/BRAND-SCHUTZZULASSUNG Z-19.52-2096

panel thickn. s	vertical installation			horizontal installation			SINGLE-SPAN INSTALLATION
	fire retardant EI30	highly fire retardant EI60	fire resistant EI90	fire retardant EI30	highly fire retardant EI60	fire resistant EI90	
mm	mm	mm	mm	mm	mm	mm	
100	4000	3000	-	-	-	-	
≥ 120	4000	4000	3000	5000	5000	5000	
			panel thickn. s	vertical inst. fire retardant EI30	highly fire retardant EI60	fire resistant EI90	
MULTIPLE-SPAN INSTALLATION			mm	mm	mm	mm	
maximum spans of exterior walls additionally influenced by wind load			≥150	3500	3500	-	

