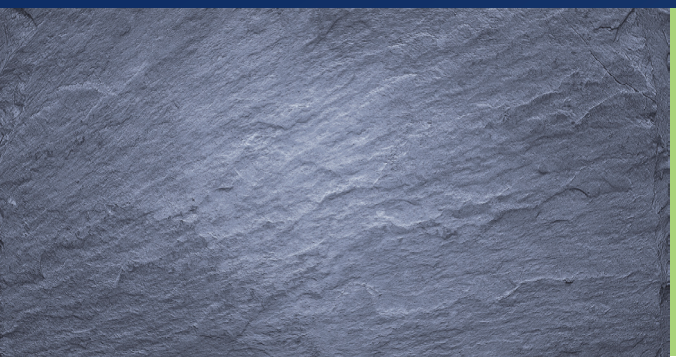
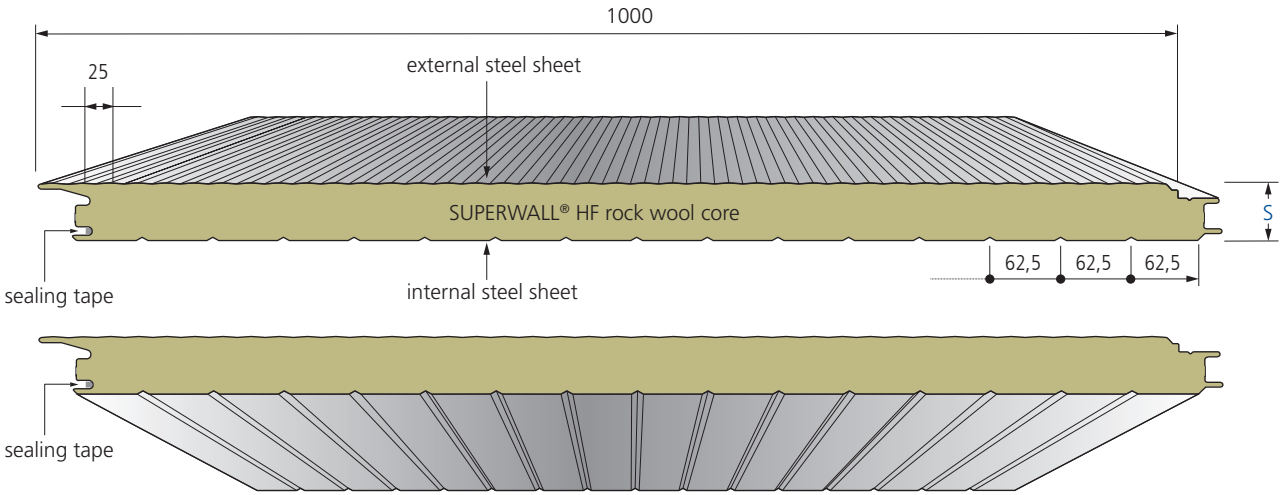
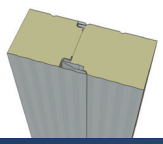


The Superwall® HF sandwich panel with microprofiled external steel sheet, non-combustible rock wool core and joint geometry for hidden fixing is suited best to meet today's sophisticated requirements for high-quality facades. The panels can be placed vertically or horizontally and, depending on the insulation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

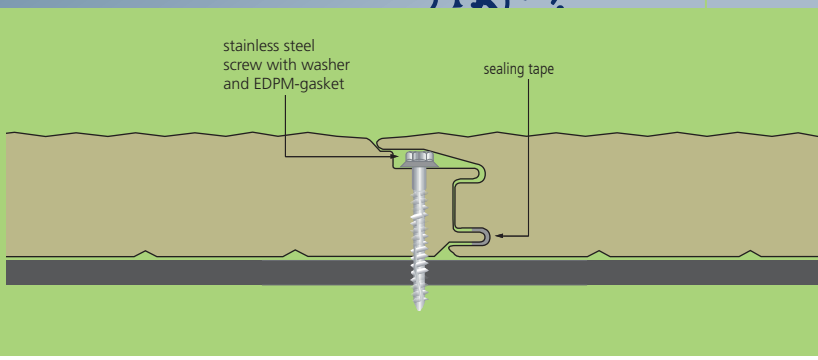


different internal profiles on request, dimensions in mm

type of element	core thickn. s	external steel sheet t_N	Inner steel sheet t_N	weight	thermal resistance	thermal conductivity (Ψ – joint effect)	
					R	U w/o Ψ	U with Ψ
	mm	mm	mm	kg / m²	m² K / W	W / m² K	W / m² 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	0,499
	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	5,42	0,182	0,185



* no approval / on request



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-00420-1

APPROVAL
German building compliance certificate DIßt Z-10.49-517 valid until November 20, 2019

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 DIßt Z-19.52-2096 of July 23, 2013 (see table below)

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.

SOUND INSULATION
$R_w \approx 30$ dB

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

TABLE OF SPANS
Please refer to our planning folder or visit our website www.metecno.de

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/BRANDSCHUTZZULASSUNG Z-19.52-2096

	vertical installation			horizontal installation		
panel thickn. s	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 SINGLE-SPAN INSTALLATION
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	-