

# Superwall® HF

## Concealed-fix rockwool insulated wall panel system

PRODUCED IN:  
ITALY  
GERMANY



WALL

FIRE RESISTANCE

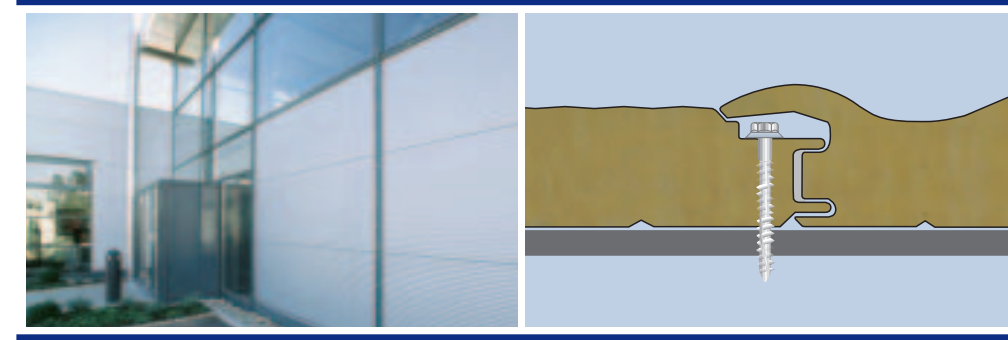


Self-supporting metal panel system, insulated with rockwool foam, with a concealed-fixing method for high quality industrial and commercial buildings, where good aesthetics are paramount.

The SUPERWALL® HF panel, manufactured in accordance with a system patented by Metecno, consists of two micro-ribbed steel sheets, with an insulation core of orientated fibre high density rockwool, arranged perpendicularly to the plane of the panel and positioned in strips, laid longitudinally with off-set joints and transversely compacted, in such a way as to completely fill the space between the metal facings. The special double labyrinth joint of this panel, provides mechanical resistance and insulation superior to any other wall panel product of this kind, the panel external micro-V increases the aesthetic appeal of this panel, which can be orientated both vertically and horizontally as required.

Because of the particular shape of the joint, blind fastening are applied to the V-cut on the male edge of the outside sheet. Two screws with center distance of 30 mm should be used for each panel and each stud.

Outside walls are made mounting such panels one next to the other.



### MAJOR PRODUCT TECHNICAL APPROVAL:

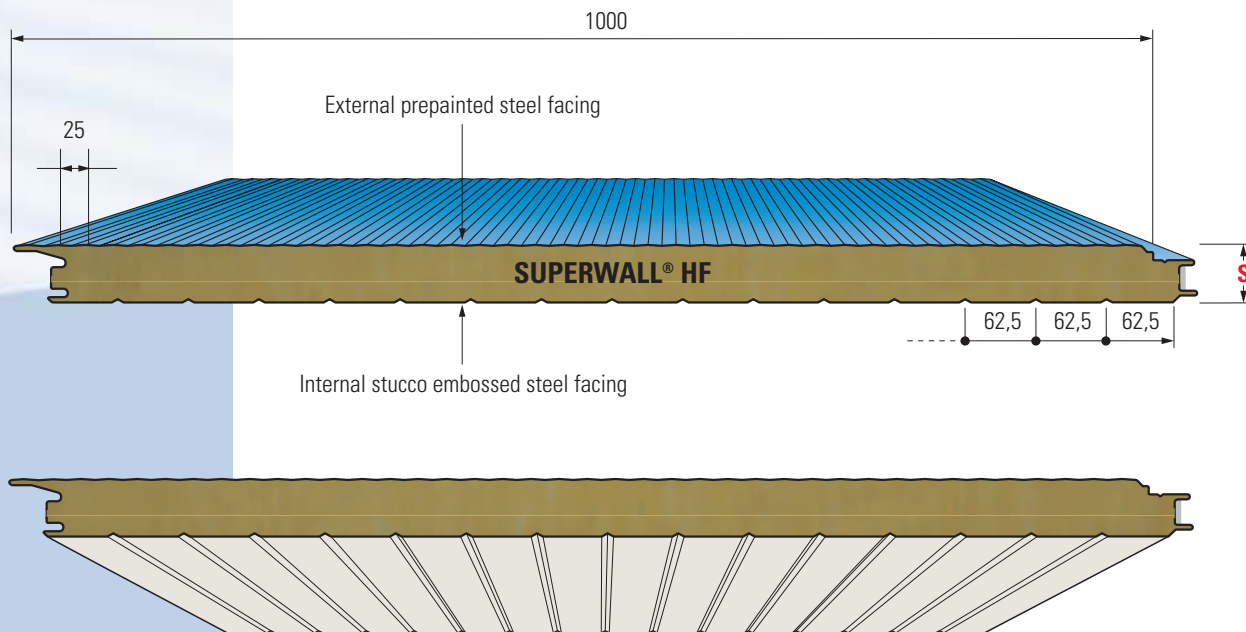
Zulassung Dibt Z - 10.4 - 237.

### RESISTANCE TO FIRE

EI 60 - 120 mm - EN 1364-1 - RINA n° 1131 - 02/05

### REACTION TO FIRE

France: Class M0



Panels can be assembled either horizontally or vertically



### Table of safe spans

Values guaranteed with steel sheets, thickness 0.6 + 0.6 mm. Spans *l* in metres, as a function of a uniformly distributed load *p* (daN/m<sup>2</sup>), have been obtained from experimental data and calculated to provide a deflection limit:  $f \leq l/200$  of the span and a minimum safety coefficient that complies with the UEAtc standards for insulated panels, which have been established and are implemented by primary European Certifying Organizations.

For safe spans relevant to relative loads, please contact us.

### steel - steel

S mm	K		Panel weight kg/m <sup>2</sup> 0,6+0,6	Color group of external metal sheet	p = (daN/m <sup>2</sup> )					p					
	Kcal m <sup>2</sup> h °C	Watt m <sup>2</sup> °C			60	80	100	120	150	60	80	100	120	150	
80	0,42	0,49	19,36	I	<i>l</i> =	5,33	4,50	3,65	3,08	2,48	5,05	4,38	3,91	3,54	2,88
100	0,34	0,40	21,36	I	<i>l</i> =	5,33	5,33	4,55	3,82	3,09	5,65	4,89	4,38	3,99	3,56

The values in red have been limited for manufacturing reasons.