

H-Wall® 10 M

Insulated wall system, with rockwool

PRODUCED IN:
ITALY

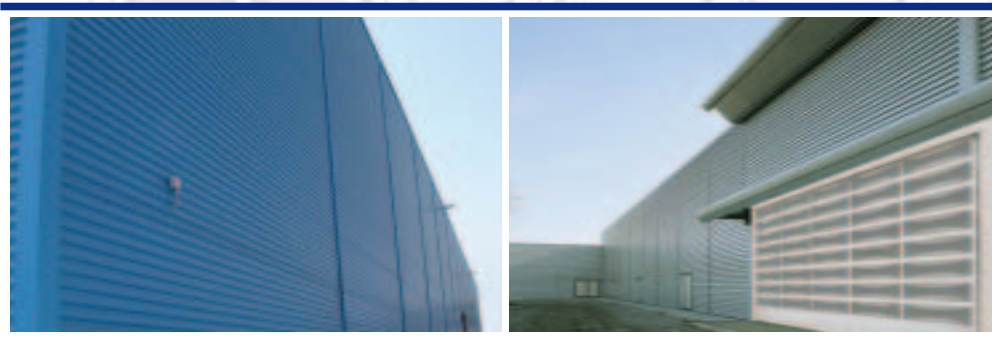
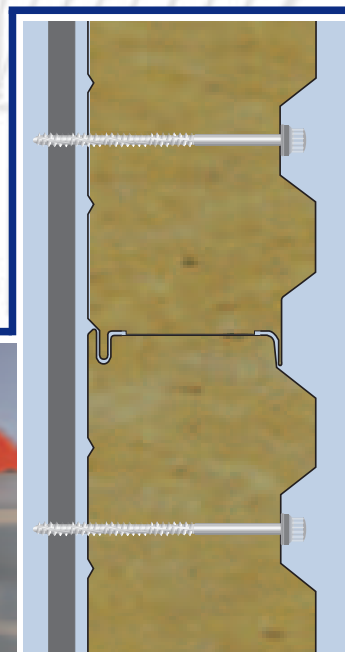
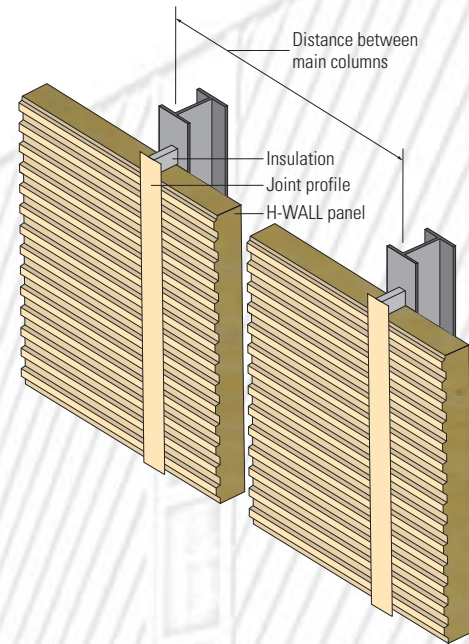
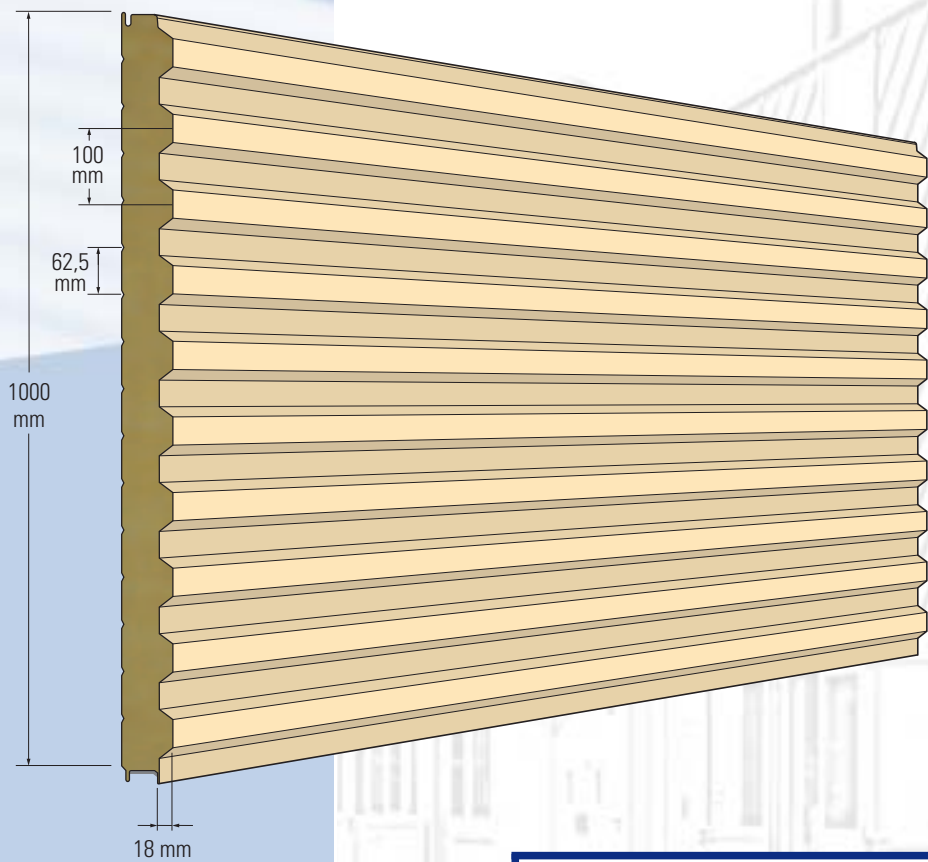


WALL

FIRE RESISTANCE



Self supporting metal panel, insulated with rockwool, designed for horizontal wall panelling in industrial and commercial buildings. The panel density and, in particular, the deep trapezoidal profile, of the external metal sheet give the wall good strength, while spanning from column to column. The panel reduces secondary steelwork requirements and gives the building a pleasant and elegant look. The internal side of the panel is flat, giving an aesthetically pleasing effect for a very wide range of applications. A "sound" version with perforated inner face is available. For additional technical information refer to the H-WALL® 10 technical manual.



Reaction to fire

Reaction to fire is the degree in which a material resists combustion. With regard to this, materials are assigned a class (0, 1, 2, 3, 4, and 5): the higher the class, the higher the degree of combustion. H-WALL® 8M 100 mm, tested at the Istituto Giordano S.p.A., pursuant to the Ministerial Decree of 26/6/84, were classified 0/0 for reaction to fire in the wall position. Since the panel consists of two steel sheets with a layer of rockwool inbetween, the class 0 refers to the external parameter and the class 0 to the insulation. Tests have been also made at foreign Institutes with the following results: France Class M0.

Table of safe spans

Values guaranteed with 0.6 (external) + 0.5 (internal) mm thick steel sheets. *l* spans (in meters) relevant to a uniformly distributed overload *p* (daN/m²) were determined, based on experimental data, in such a way as to simultaneously guarantee and comply with the three conditions listed here below:

- 1) safety coefficient that complies with the UEAtc standards for insulated panels, which have been established and are implemented by primary European Certifying Organizations
 - 2) deflection in span $f \leq l/200$ caused by uniformly distributed loads
 - 3) deflection in span $f \leq 20$ mm caused by thermal summer and winter effects
- Values in red do not comply with condition no. 3 concerning the maximum deflection caused by thermal effects.

Single spans

S mm	K		Panel weight kg/m ² 0,6 + 0,5	Color group of external metal sheet	p = (daN/m ²)						
	Kcal m ² h °C	Watt m ² °C									
100	0,32	0,37	21,59	I II III	l =	40	60	80	100	120	150
						7,00 8,02	6,85	6,10	5,45	4,53	3,62
						6,07 8,02	6,07 6,85	6,07 6,10	5,45	4,53	3,62
					l =	5,18 8,02	5,18 6,85	5,18 6,10	5,18 5,45	4,53	3,62

Multiple spans

S mm	K		Panel weight kg/m ² 0,6 + 0,5	Color group of external metal sheet	p = (daN/m ²)					p = (daN/m ²)		
	Kcal m ² h °C	Watt m ² °C										
100	0,32	0,37	21,59	I, II, III	l =	60	80	100	120	150	120	150
						7,75	7,50	6,70	5,57	4,45	5,15	4,24

MAJOR PRODUCT TECHNICAL APPROVALS:

Zulassung Dibt Z-10.4-237