

Rocksteel® Wall

Insulated wall system, with rockwool, with fire reaction certification

PRODUCED IN:
ITALY
PORTUGAL



WALL

FIRE RESISTANCE



Self-supporting metal panel system insulated with rockwool for wall and partition applications. The ROCKSTEEL® WALL 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. Maximum panel length: L = 15,500 mm.



External and internal sheet

The following materials can be used:
 – Prepainted galvanised steel S 280 GD
 – Stainless steel AISI 304 - or AISI 430
 Nominal thickness: 0.5 - 0.6 - 0.8 mm
 Paint: METCOLOR System

Insulation

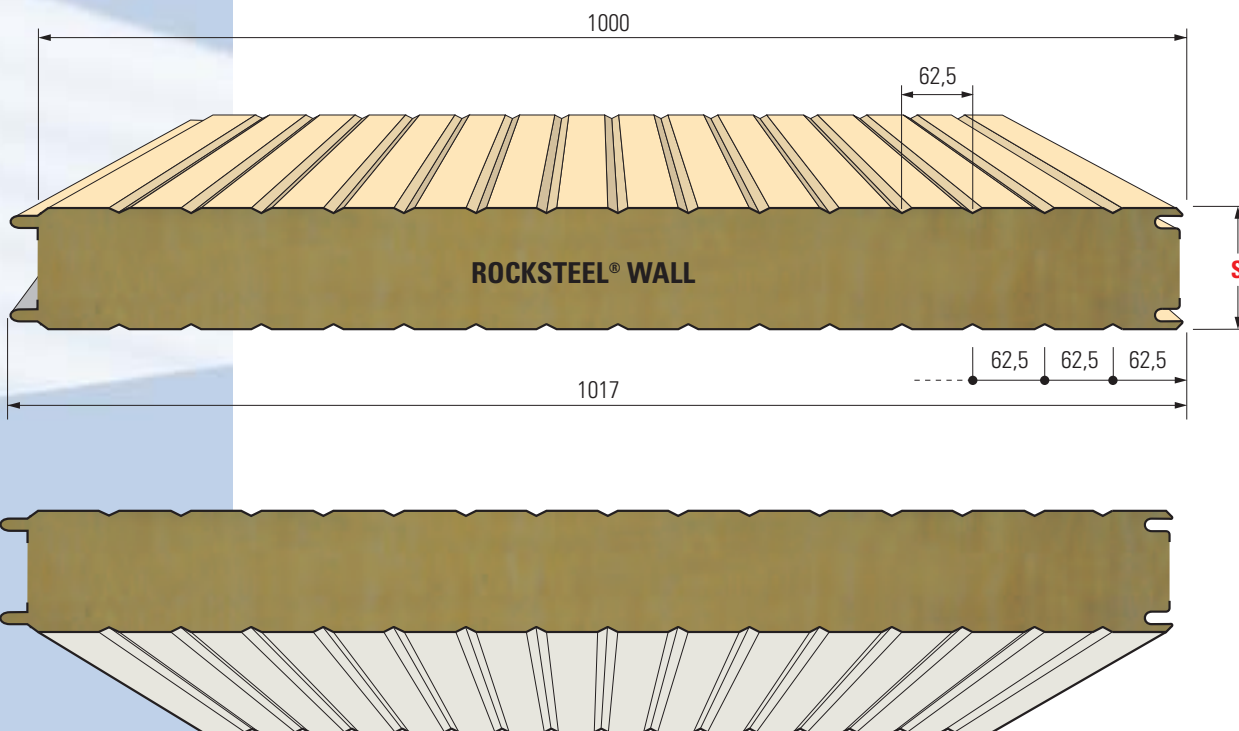
Rockwool, density: 100 kg./m³
 Thickness: 50 - 80 - 100 - 120 mm.

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 through 5): the higher the class, the higher the degree of combustion. The ROCKSTEEL® WALL panels, thicknesses 50 - 80 - 100 - 120 mm, tested at the Instituto Giordano S.p.A., pursuant to the Ministerial Decree of 26/6/84, were classified 0/1 for reaction to fire in the wall position. Since the panel consists of two steel sheets with a layer of rock wool in between, the class 0 refers to the external surface and the class 1 to the insulation.

Table of safe spans

Values guaranteed with steel sheets, thickness 0.5 + 0.5 mm. The spans *l* in metres, as a function of a uniformly distributed load *p* (daN/m²), have been obtained from tests carried out in Metecno laboratories and calculated to provide a deflection limit: $f \leq l/200$ of the span and a minimum safety co-efficient that complies with the UEAtc standards for insulated panels, which have been established and are implemented by primary European Certifying Organizations.



IMPORTANT: In the assembly stage, attention to the correct positioning of the painted side: the side marked with "INTERNAL" must face the internal side.

S mm	K		Panel weight kg/m ² 0,5+0,5	Color group of external metal sheet	P = (daN/m ²)							P						
	Kcal m ² h °C	Watt m ² °C			40	60	80	100	120	150	40	60	80	100	120	150		
50	0,65	0,75	14,4	I	l =	4,38	3,58	2,73	2,18	1,82	1,45	3,92	3,20	2,46	1,96	1,64	1,31	
80	0,42	0,49	17,4	I	l =	5,55	4,53	3,92	3,51	2,93	2,34	4,96	4,05	3,51	3,14	2,64	2,11	
100	0,34	0,40	19,4	I	l =	6,21	5,07	4,39	3,93	3,58	2,94	5,55	4,53	3,93	3,51	3,21	2,64	
120	0,29	0,34	21,4	I	l =	6,80	5,55	4,81	4,30	3,93	3,51	6,08	4,97	4,30	3,85	3,51	3,14	

