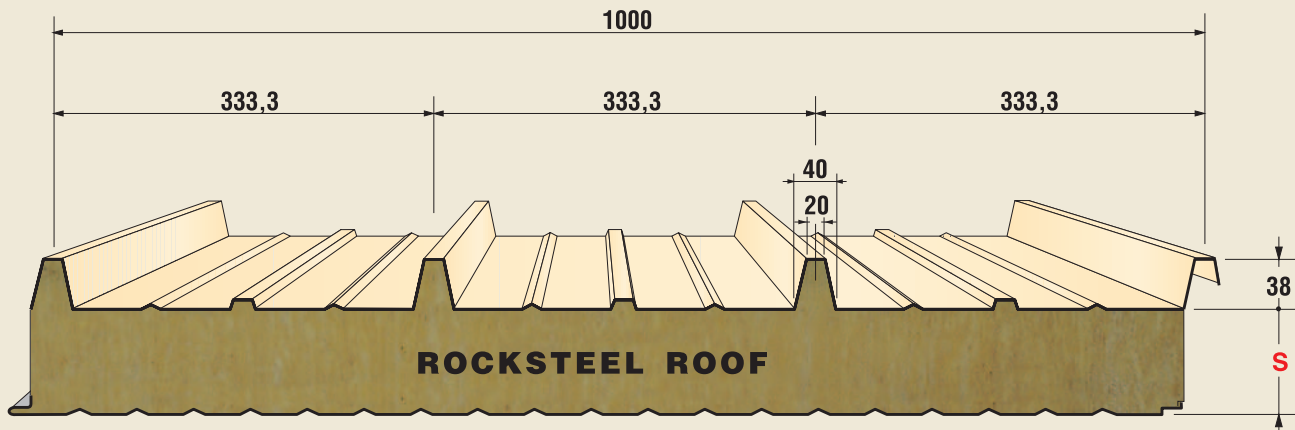


ROCKSTEEL ROOF

Profiled roof system, $p \geq 7\%$ insulated with a Rockwool core, with fire reaction certification.

Self-supporting panel system, insulated with Rockwool for roof and wall applications.

The **ROCKSTEEL® ROOF** panel, is manufactured in accordance with a system patented by Metecno, and consists of a profiled external steel facing, an internal micro-ribbed liner, with an insulation core of high density orientated Rockwool, arranged perpendicular to the plane of the panel and positioned in strips, laid longitudinally with off-set joints and transversally compacted, in such a way as to completely fill the void between the two metal facings, including the profiled trapezoidals.



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: 75 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® ROOF** panels, 50 - 80 - 100 - 120 mm thick, tested at the Istituto Giordano S.p.A., pursuant to the Ministerial Decree of 26/6/84, **were classified 0/1 for reaction to fire in the roof 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

Minimum values 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 coefficient that complies with the UEAtc standards for insulated panels, which have been established and are implemented by primary European Certifying Organizations.

S mm	K		Panel weight kg/m ²															
	Kcal m ² h°C	Watt m ² °C		p = daN/m ²														
			0,5+0,5	80	100	120	150	200	250	300	80	100	120	150	200	250	300	
50	0,59	0,68	13,7	l=	3,52	2,98	2,59	2,16	1,71	1,41	1,18	3,06	2,59	2,25	1,88	1,49	1,23	1,03
80	0,40	0,46	15,9	l=	4,76	4,26	3,70	3,02	2,29	1,84	1,54	4,14	3,70	3,22	2,63	1,99	1,60	1,34
100	0,32	0,38	17,4	l=	5,45	4,69	3,94	3,20	2,43	1,96	1,63	4,74	4,08	3,43	2,78	2,11	1,70	1,42
120	0,28	0,32	18,9	l=	6,13	5,12	4,29	3,48	2,65	2,13	1,78	5,33	4,45	3,73	3,03	2,30	1,85	1,55

