TECHNICAL DATA SHEET



TOPROOF G5

DESCRIPTION	Self-supporting metal panel, insulated with polyisocyanurate foam, for pitched roofs with a minimum slope of 7%. The external top skin of the panel is made of metal trapezoidal steel, galvanized/zinc-aluminium and prepainted. The thermal insulation on polyisocyanurate foam may have a thickness from 40mm to 80mm. The internal skin is made of steel sheet galvanized/zinc-aluminium and pre-painted (subsequently up to 200mm).	
GEOMETRICAL FEATURES	Lato esterno TOPROOF e os Lato Interno Guarnizione	
	Length: upon customer request, with a Cover width: 1000m Thickness: 40, 60, 80, 100, 120, 140mn Skin thickness: No. of ribs on top skin: 5 Rib height: 35mm Rib centres: 250mm	
SPECIFICATION	The metal insulated roof shall be Toproof G5, comprising of two outer skins from pre-painted galvanised / zinc-aluminium steel and a polyisocyanurate core. The top skin shall consist of 5 trapezoidal ribs at 250mm centres providing a net cover width of 1000mm. The rib height shall be 35mm. Toproof G5 shall be obtained from The Insulation Company SA (010)495 0000	
DENSITY	35kg/m³ - 40kg/m³	
WEIGHT	40mm: 8,92kg/m² 60mm: 9,68kg/m² 80mm: 10,44kg/m² 100mm: 11.20kg/m² *metal skin thickness of 0.4/0.4mm	
THERMAL PERFORMANCE	R-VALUE 40mm: 1.96 60mm: 2.94 80mm: 4.00 100mm: 5.00	U-VALUE 40mm: 0.51 60mm: 0.34 80mm: 0.25 100mm: 0.20

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TOPROOF G5

FIRE RATING	SA PIR Rating: SANS428 B/B1/2		
	International PIR rating: FM4880, 4881 AUS Bush attack: BAL-40, 200mm - BAL-FZ Fire B; Smoke S1; Drops d0		
LOAD CAPACITY	The following values (in daN/m) are for uniformly distributed loads, for panels made from sheet steel minimum quality \$250GD and have been calculated in accordance with standard product EN 14509:2023. The width of the support/frame is considered 100mm. The tables do not consider the effects due to the different temperatures between the internal and external metal sheets, as per different climatic conditions. The effects of a long period (creeping) are not considered. It is the responsibility of the design engineer to check the fasteners according to the design loads.		
	thickness		
	mm L=m 1,5 1,75 2 2,25 2,5 2,75 3 3,25 3,5 3,75 4 4,25 4,75 5		
	30 240 190 155 125 95 75 60		
	40 290 235 195 160 125 100 80 65 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
	50		
	100 580 505 440 390 345 290 250 215 185 160 140 120 105 90 80		
	NB: the values in bold and underlined refer to loads limited by deflection L/200		
JOINT	The lap joint is supplied with a continous sealing strip inserted during manufacture. The particular moulding of the joint has been especially designed in order to avoid water infiltration		
FIXING	Fixing is achieved using screws with a Ø 6,3mm		

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TOPROOF G5

ROOF ASSEMBLY In order to assure the right water outflow as well as to avoid oxidation on metal supports, the panels must be assmbled with a slope not lower than For pitched roofs made with more than one panel in longitudinal direction, it is necessary to overlap the panels as below. The iverlap length must be sufficient to avoid water infiltration. GUARNIZIONE GHARNIZIONE ISOLAMENTO **MAINTENANCE** All roofs including metal insulated panels, require periodical maintenance. It is recommended that a thorough inspection of the roof is carried out at least yearly, in order to check the condition. A regular cleaning of the roof with particular attention to areas not subjected to the washing action of the rainwater, where it can form concentrations of corrosive substances for the metal support, is also recommended in order to maintain the aesthetic characteristics and physical properties of the elements and to prolong the efficiency of the protective coating. It is necessary to proceed with an immediate extraordinary intervention,

initial conditions.

when the inspections have discovered a problem, in order to restore the