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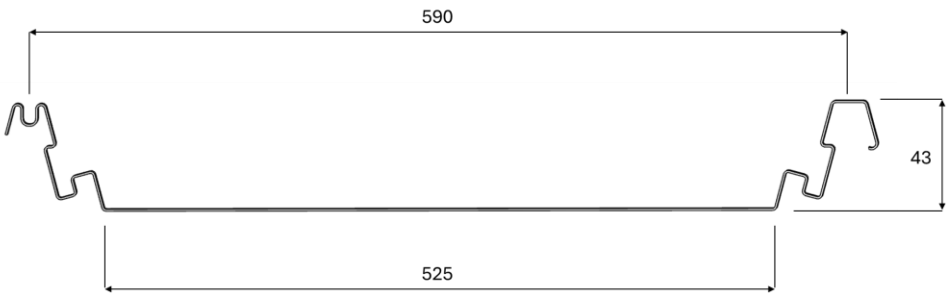
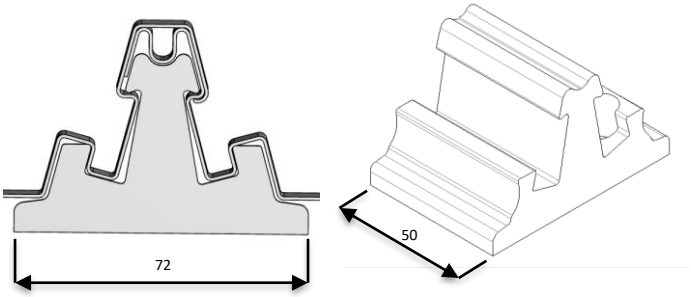
MetaClik

Technical data sheet

PROFILE 590



FASTENING SYSTEM



PRODUCT DESCRIPTION

Metaclik is a continuous metal roofing system with a draining joint for low-pitched roofs, without perforations, gaskets, or end overlaps.
The system consists of sheets made of Aluminium alloy 5754 H18 (natural finish or pre-painted) with a thickness of 0.7 / 0.8 / 1.0 mm, or pre-painted galvanized steel with a thickness of 0.6 mm, featuring transverse stiffening grooves (not available on request).
The sheets are shaped according to the slope length and fixed to the substructure using brackets (made of anodized aluminium or polyamide) with two holes, keeping a 5 / 7 mm distance between the underside of the sheet and the supporting structure.
The snap fastening of the sheet onto the brackets ensures resistance to uplift loads and allows the sheets to slide due to thermal expansion.
The absence of perforations on the sheets, the drainage channel, and the notched ends for edge folding at the ridge and eaves ensure watertightness even on low-pitched roofs.

TECHNICAL DATA

Material	Alloy	Specific weight [kg/dm³]	Yield tension [Mpa min.]
Aluminium	Al 5754 H18	2,70	250

ALUMINIUM	s [mm]	J [cm⁴/m]	W+ [cm³/m]	W- [cm³/m]
	0,7	12,21	3,54	3,17
	0,8	13,98	4,06	3,86
	1,0	17,54	5,11	5,34

LEGEND
S: sheet thickness
J: moment of inertia
W+: modulus of flexural strength
W-: modulus of flexural strength

CAPACITY TABLE FOR MULTIPLE SPANS

Spacing L [mm]	0,80	1,00	1,20	1,40	1,60	1,80
Thickness [mm]	uniformly distributed load q [kN/m2]					
0,7	5,86	3,75	2,60	1,91	1,46	1,13
0,8	6,87	4,40	3,06	2,24	1,72	1,30
1,0	8,85	5,66	3,93	2,89	2,21	1,63

The load capacities were calculated with reference to a deflection equal to 1/200 of the distance between supports.
Application verification should be referred to the designer of the work.
In compliance with NTC 2018-EN1993-1-3.

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