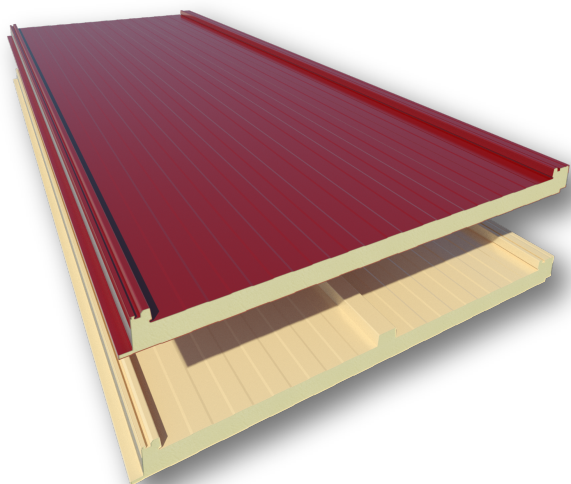


CUB 2GR/3GR PANEL
ROOF PANEL WITH FLASHING

EXTERIOR FACE
 Pre-painted steel

INSULATION
 Polyurethane (PUR) and
 Polyisocyanurate (PIR)

INTERIOR FACE
 Pre-painted steel, aluminum
 centesimal, bituminous
 cardboard

THICKNESSES mm (in.)
 30/40/50/60/80/100/120
 [1.18/1.57/1.97/2.36/3.15/3.94/4.72]

USEFUL WIDTH
 1000 mm (39.37 in.)

USE
 Sloping roof surfaces

TECHNICAL SPECIFICATIONS

Panel designed for sloping roofs with a minimum incline of 7%. Hidden fixing system, consisting of a 2 mm steel plate with high quality screw that ensures the anchoring of the panels against the purlin. The solution is completed with a steel profile (flashing) available in the same colors and finishes as those of the panels. The design of this piece guarantees the insulation and absolute watertightness of the building's roof.

MAIN CHARACTERISTICS OF THE 30 mm (1.18 in.) PANEL

Nominal thickness	30 mm (1.18 in.) (± 3 mm/0.12 in.)
Average foam density	40 kg/m³ (±10%)
Weight	10.60 kg/m²
Volume	30 m³/m³
Useful width	1000 mm (39.37 in.) (± 3 mm/0.12 in.)
Straightness	0 mm (± 5 mm/0.20 in.)
Contraction - Inflection lengthwise	0 mm (± 5 mm/0.20 in.)
Compressive strength	0.096 MPa
Tensile strength	0.092 MPa
Fire resistance PUR-UNE 13501-1	until B-s2-d0 *
Fire resistance PIR-UNE 13501-1	until B-s1-d0 *
Behavior against fire on the exterior	Broof (t1) for sheet thickness >0.4 mm

[*] consult regarding other classifications

THERMAL INSULATION

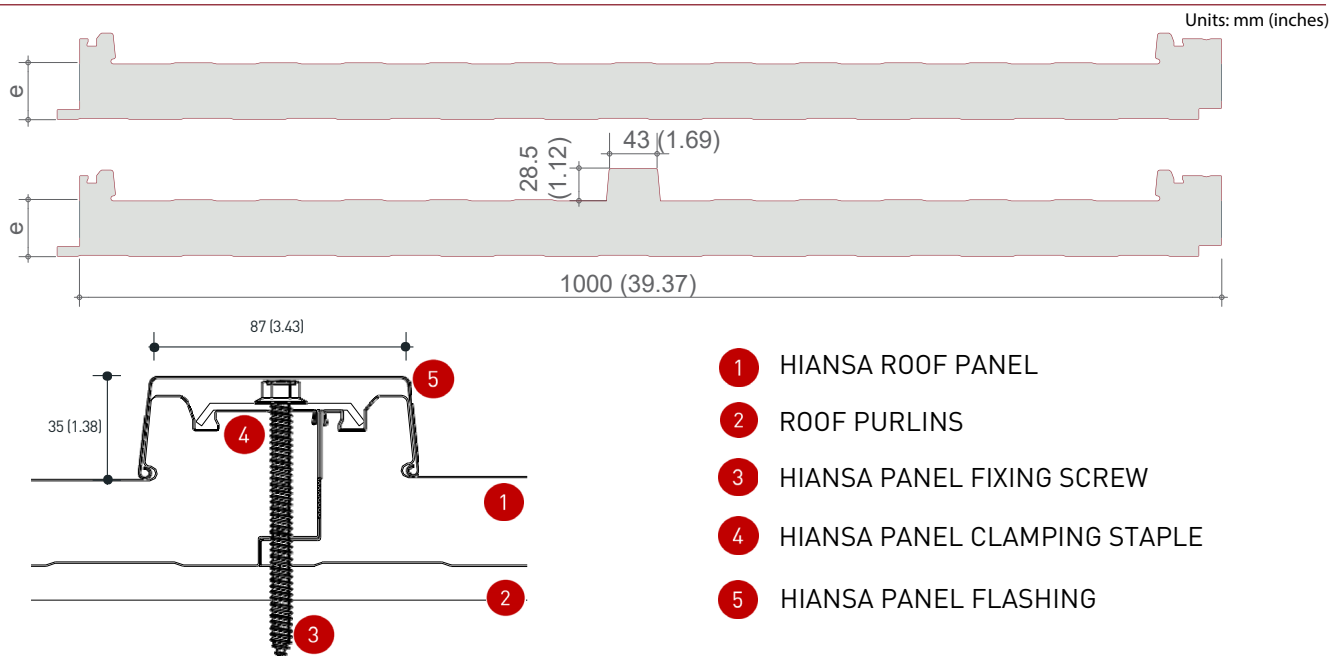
RIBBED PANEL	HEAT TRANSFER		WEIGHT (0.5/0.5)
Nominal thickness in mm (in.)	K in Kcal/m²·h. °C	K in W/m²·K	Kg/m²
30 (1.18)	0.58	0.68	10.60
40 (1.57)	0.45	0.53	11.00
50 (1.97)	0.36	0.43	11.40
60 (2.36)	0.30	0.36	11.80
80 (3.15)	0.23	0.27	12.60
100 (3.94)	0.18	0.21	13.40
120 (4.72)	0.15	0.17	14.20

The weight includes the proportional part of the accessory elements.

ACOUSTIC INSULATION
EXPERIMENTAL VALUES FOR THE 30 mm PANEL

Frequency Hz	125	250	500	1000	2000	4000
Acoustic insulation db	28	22	23	26	35	44

Standard panel of 35 mm thickness. Mean (TL) 28.8 db

GEOMETRIC SPECIFICATIONS


STANDARDS APPLIED

Ref. Standard	Description
EN 14509- 2014	Metal double-sided insulated self-supporting sandwich panel. Products made at the factory. Specifications.
EN 13823	Reaction to fire tests of construction products. Construction products, excluding floor coverings exposed to thermal attack caused by a single burning object.
EN 10169	Flat steel products, continuous coated with organic materials (pre-painted). Technical supply conditions.
EN 13501	Classification based on the fire performance of construction products and building elements. Part 1.

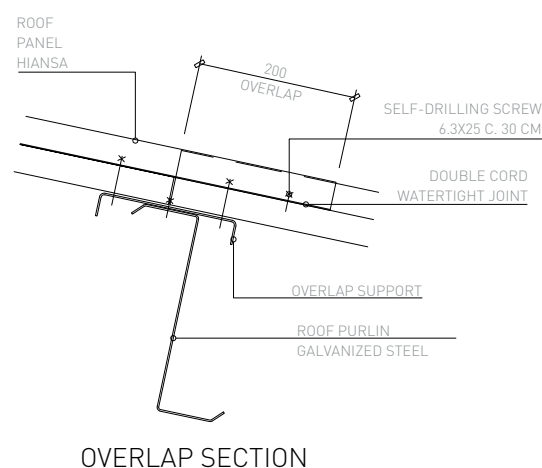
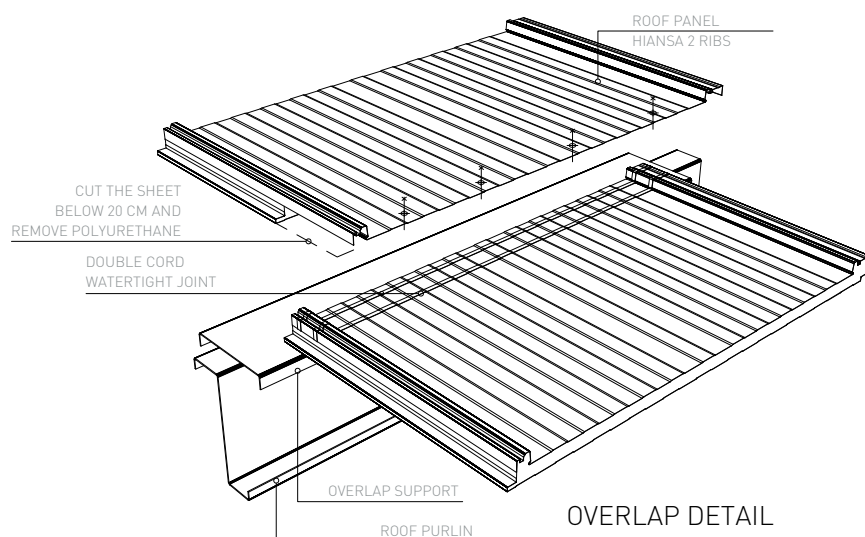
CONSTRUCTION DETAILS TRANSVERSE OVERLAP 2GR/3GR

CONDITIONS OF THE ROOF FOR MAKING THE OVERLAP

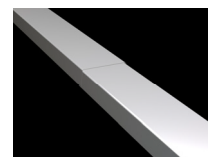
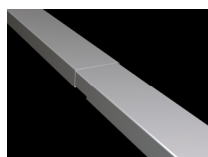
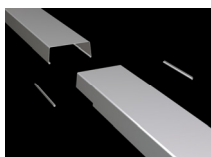
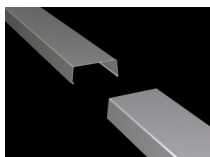
- The roof must have a slope greater than 10%.
- The purlin on which the transverse overlap of panels will be carried out shall have a minimum width of 100 mm.
- The minimum length of the overlap will be 200 mm.
- There must be a minimum offset of 50 cm between overlapping panels and overlapping flashing.

Transverse overlap between roof panels with flashing (designed for waters of considerable length, where the maximum panel size is insufficient).

The roof insulation panels are created with an efficient overlap system (length 200 mm) from the same manufacturing line on request. The overlap between two consecutive panels thus becomes a safe and simple operation since the product undergoes quality control in the same factory.



To resolve the overlap between the flashings of the panel, proceed as indicated in the following figures, taking into account to never perform the panel overlap at the same point as the flashing overlap.



HIANSA PANEL S.A. reserves the right at all times to make changes to this document without prior notice.