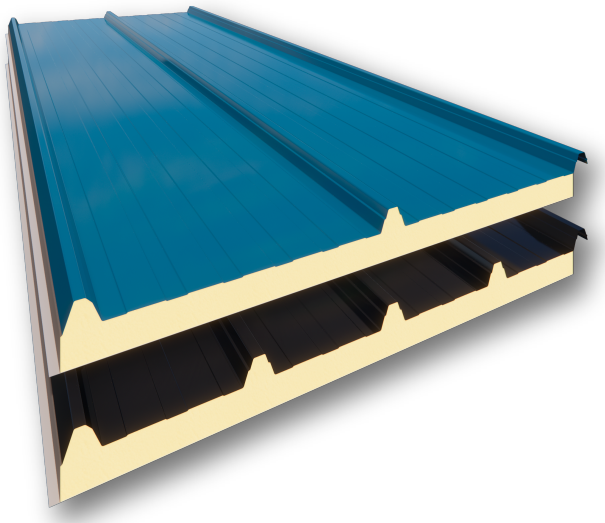
Hiansa Panel
Grupo Hiemesa

REV.05 - marzo 2025

EASY ALU 3GR/5GR PANEL

ROOF PANEL WITHOUT FLASHING



EXTERIOR FACE
Pre-painted steel

INTERIOR FACE
Centesimal aluminum

USEFUL WIDTH:
1000 mm (39.37 in.)

INSULATION
Polyurethane (PUR)

THICKNESSES mm (in.)
30
(1.18)

USE
Sloping roof surfaces

ISO 9001
BUREAU VERITAS
Certification

CE

TECHNICAL SPECIFICATIONS

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	6.56 kg/m² 3GR - 6.91 kg/m² 5GR
Volume	30 m²/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	F

A self-supporting metal panel with a polyurethane PUR, insulating foam core, a steel sheet on its exterior face and a centesimal aluminum sheet on its interior face. For use on sloping roofs with a minimum incline of 7%.

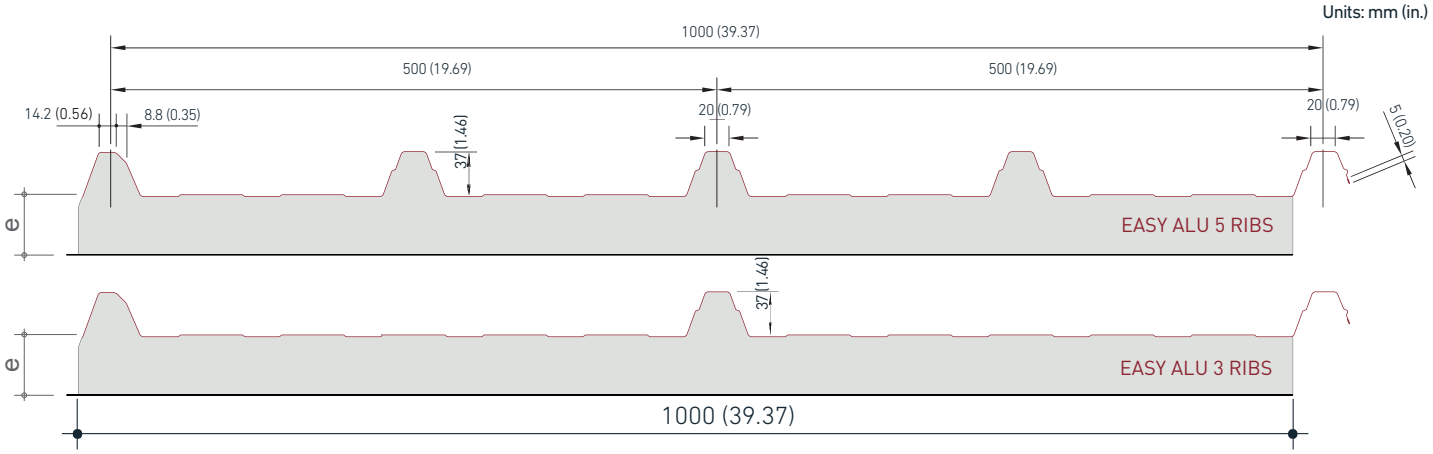
THERMAL INSULATION AND WEIGHT

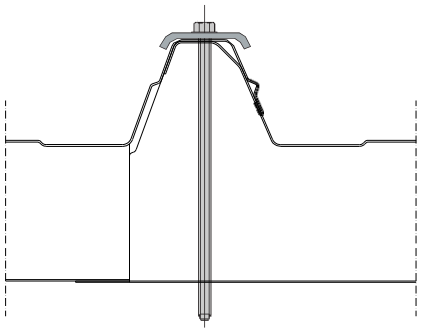
RIBBED PANEL	HEAT TRANSFER		WEIGHT (0.5/0.5)
Nominal thickness in mm (in.)	K in Kcal/ m²-h. ºC	K in W/m²-k	Kg/m²
PANEL 3 GR - 30 mm (1.18 in.)	0.58	0.68	6.56
PANEL 5 GR - 30 mm (1.18 in.)	0.58	0.68	6.91

The weight includes the proportional part of the accessory elements.

GEOMETRIC SPECIFICATIONS

Units: mm (in.)





OVERLAP DETAIL
LENGTHWISE

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.

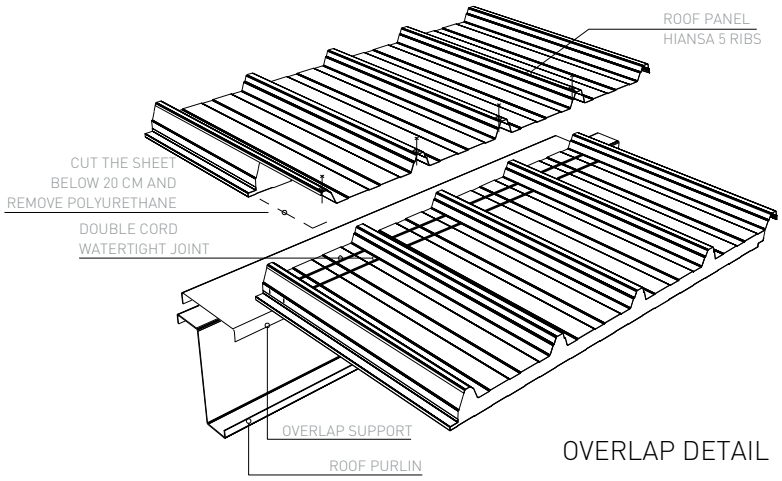
CONSTRUCTION DETAILS TRANSVERSE OVERLAP 3GR/5GR ST

CONDITIONS OF THE ROOF FOR MAKING THE OVERLAP

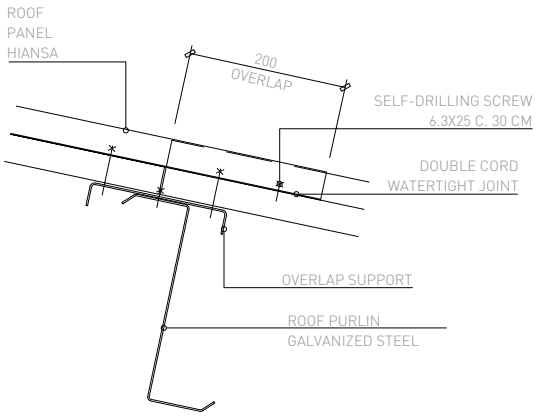
- The roof must have a slope greater than 10%.
- The belt on which the transverse overlap of panels will be carried out shall have a minimum width of 100 mm.
- The minimum length of the overlap will be 200 mm.

Transverse overlap between roof panels without 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.



OVERLAP DETAIL



OVERLAP SECTION

HIANSA 5 GR ST. PANEL DETAIL VALID FOR ANY TYPE OF HIANSA ROOF PANEL.

RESISTANCE TABLES

EASY ALU 3GR

30/0.5 (kg/m²)		
	2 Openings	
L	Pressure	Suction
1.0	254	270
1.2	174	190
1.4	126	141
1.6	95	110
1.8	73	88
2.0	58	73
2.2	47	62
2.4	-	53
2.6	-	46
2.8	-	41

EASY ALU 5GR

30/0.5 (kg/m²)		
	2 Openings	
L	Pressure	Suction
1.0	489	516
1.2	337	361
1.4	245	268
1.6	185	207
1.8	144	166
2.0	115	136
2.2	93	114
2.4	77	97
2.6	64	84
2.8	54	74
3.0	46	66
3.2	40	59
3.4	-	53
3.6	-	46
3.8	-	41

Permissible service loads, uniformly distributed in kg/m². The tables have been obtained based on a calculation methodology established in accordance with the provisions of the EAE-2012 standard and the EC-3, considering only the upper steel sheet as a structural element. These results comply with the Ultimate Limit States of normal and tangential stresses prescribed in said standards and with a limitation of the Serviceability Limit State for deformations of L/200.