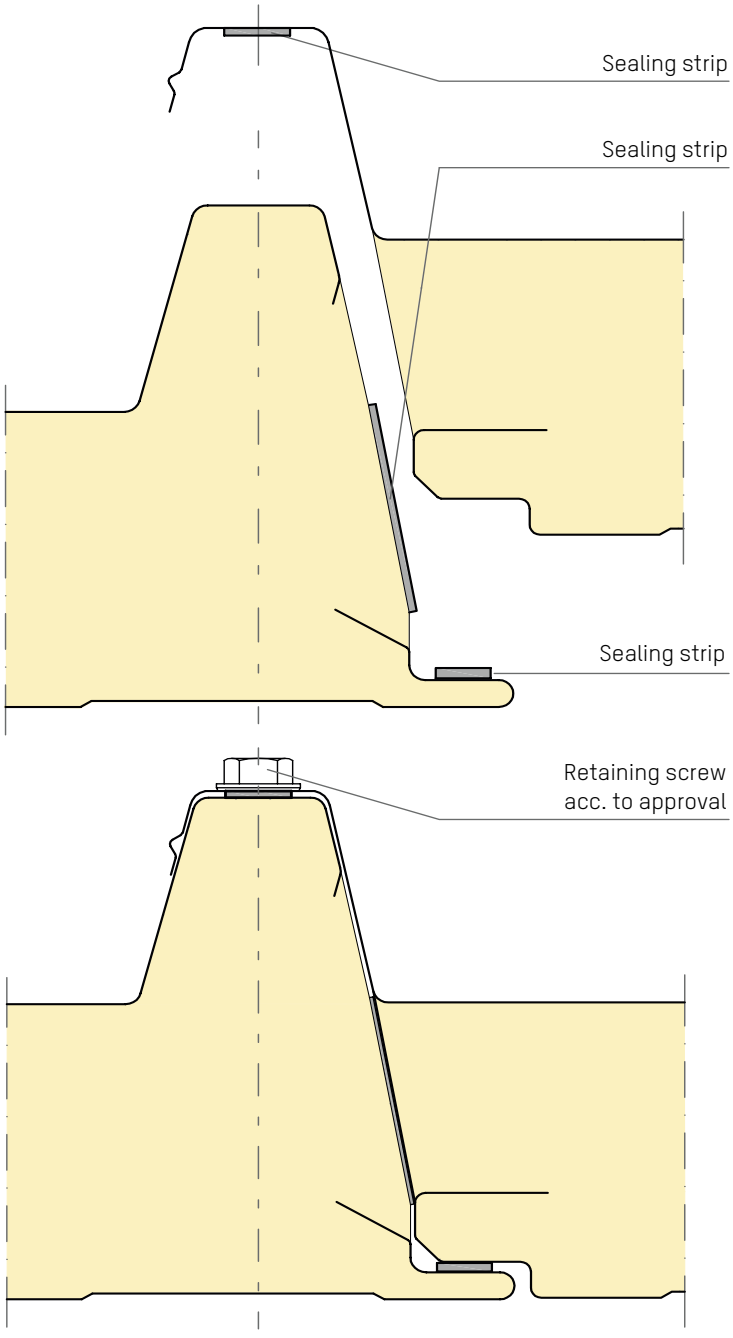
ROMA
INSULATION SYSTEMS

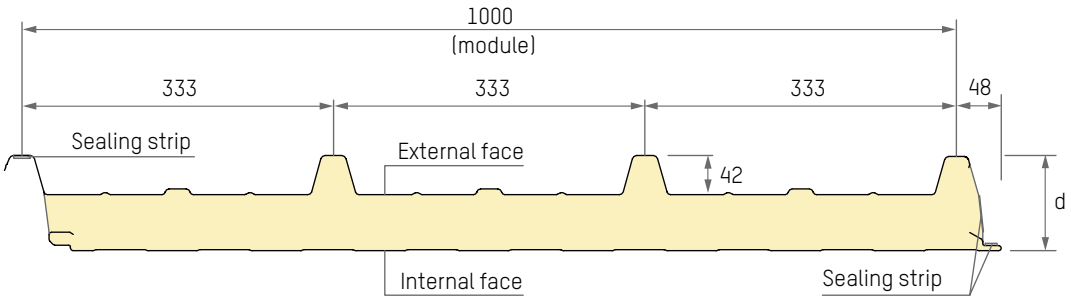
Quick-assembly PIR roof panel, type D

High quality thermal insulation system for safe and rapid roofing



- 3-point seal
- Large spans due to optimal profile design
- Quick and easy assembly
- Width of module 1000mm
- Insulation thicknesses (without beads) 30, 40, 60, 80, 100, 120, 140mm
- Roof pitch min. 5% (≙ 3°)

Quick-assembly PIR roof panel, type D
with steel cladding on both sides



Cladding layers
Coil galvanized and coated sheet steel with organic coating materials,
further cladding layers are available on request

Surface finishes
Standard: External face: trapezoidal profile (333mm), internal face: profiled (56mm)
Optional: Internal face: smooth

Insulating core
Rigid polyurethane foam, impact resistant and attached to steel cladding across entire surface.
Density, approx. 40kg/m³. Free of CFC and HCFCs (ODP=0).

Fire tests
(D) B1 according to DIN 4102, flame retardant, hard roofing, DIN 18234-1 (Type D142)
(CH) Class 5.3 according to VKF Bern
(EU) Euro class B-s2, d0 according to EN 13501-1, D142 REI 45, D122 REI 15
FM FM Approval (4880, 4881, 4471)

Environment and sustainability
EPD, DGNB, LEED v4, BREEAM, ROMA5 BMB

Approval
General building authority and building law approval for use in walls/roofs.
Notification of approval Z-10.4-549 of the DIBt, Berlin and CE marking according to DIN EN 14509.

Available lengths
Up to 24m, depending on panel thickness

Production tolerances
EPAQ; DIN EN 14509

Quality monitoring
EPAQ Krefeld, IMA Dresden, FIW München, MFPA Leipzig

Sound insulation
Approx. 26dB for all panel thicknesses

Statics
See our span tables, DIN EN 1993-1-3, Construction class II (Rotational bedding, Shear strength)

Applications
Roof (for roof pitch < 5% additional waterproofing measures are required), Wall, Ceiling

Panel type		D072	D082	D102	D122	D142	D162	D182
Panel thickness (incl. bead 42 mm)	mm	72	82	102	122	142	162	182
Cladding layer thickness								
External	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Internal	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Panel weight approx.	kg/m²	11.5	11.9	12.7	13.5	14.3	15.1	15.9
U-value acc. to EN 14509 with joint [1)]	W/(m²·K)	0.717	0.542	0.363	0.273	0.219	0.183	0.157

[1)] $\lambda_{declared}$ = 0,022 [W/mK]

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