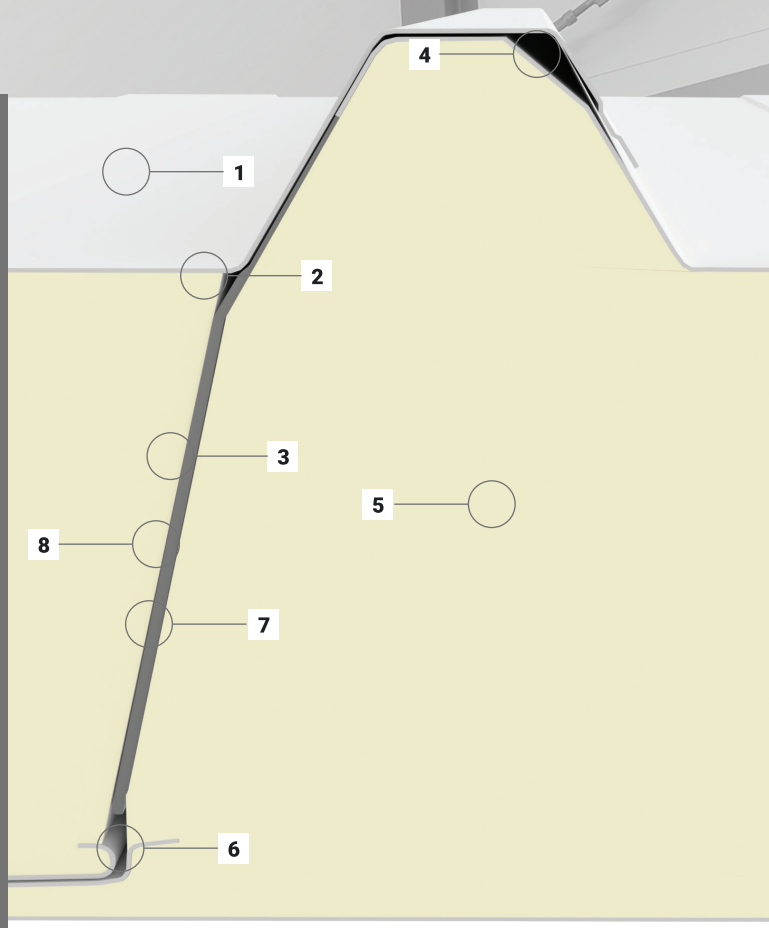
roof

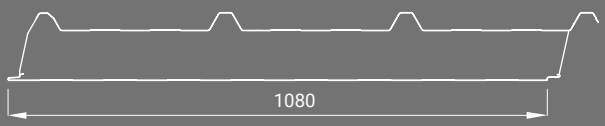
IZOROOF
PIR-N/PIR-F



PROPERTIES:

1. Profiled lining with a unique surface design.
2. Large lining bend radius guarantees durability of the protective coating.
3. Seamless polyurethane seal, applied inmanufacture, guarantees joint tightness.
4. Capillary action preventing chamber.
5. Core made of stiff, freon-free, self extinguishing PIR-F/PIR-N foam with very good thermal insulation properties.
6. Profiled edges guarantee tightness of joint.
7. Protecting strip prevents diffusion, water and gas infiltration and steam penetration into the insulating core.
8. Bottom straight lock (“shelf – lap” joint)

GEOMETRY:



PIR-F/PIR-N core - stiff polyisocyanurate foam, thermal conductivity rating **PIR-F: λ = 0,022 W/m*K, PIR-N: λ = 0,021 W/m*K,** improved pburning behaviour

Steel sheet lining with anticorrosive protection depending on the intended use.

ROOF PANEL WITH POLYISOCYANURATE OR POLYURETHANE CORE -HIGH SURFACE PROFILE

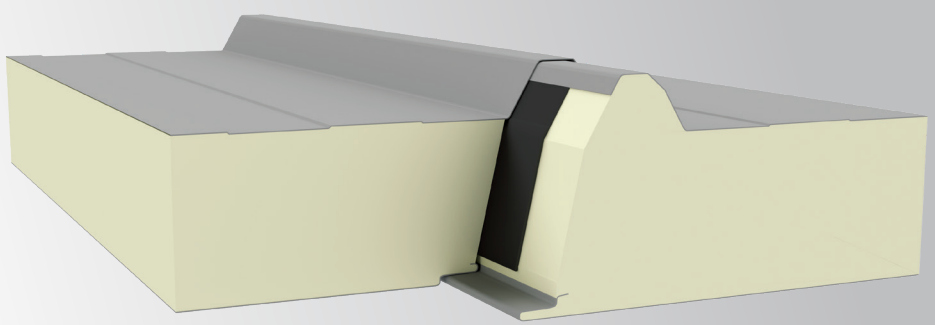
SUITABLE FOR:

[Suitable for roofs of industrial buildings]

PRODUCT CHART

MECHANICAL PROPERTIES IZOROOF PIR-N/PIR-F								
thickness [mm]		40	60	80	100	120	140	160
modular width [mm]		1080 (+/-2)						
total width [mm]		1180 (+/-2)						
length [mm]		2000-16 000*						
weight 0,5/0,4 [kg/m²]		9,4	10,1	10,7	11,4	12,0	12,7	13,4
weight 0,4/0,4 [kg/m²]		8,5	9,2	9,8	10,5	11,1	11,8	12,5
CORE								
core type		PIR-N, PIR-F						
LINING								
steel grade		S250GD-S280GD						
profiling		T / BP, L, M						
coat		Poliester 25µm, HDS, HDX, FarmCoat, FoodSafe						
corrosion resistance category		RC2 to RC5 (depending on the cladding used)						
colours		According to the RAL Izopanel® palette						
foling		YES						
INSULATING POWER								
$U_{d,S}$ [W/m²K]	PIR-N	0,55	0,35	0,27	0,21	0,18	0,16	0,14
	PIR-F	0,53	0,34	0,26	0,21	0,17	0,15	0,13
BURNING BEHAVIOUR								
reaction to external fire		$B_{roof}(t_1)$						
reaction to fire	PIR-N	B-s2,d0						
	PIR-F	B-s2,d0	B-s1,d0					
fire resistance	PIR-N	-			REI15			
	PIR-F	-			REI30			
ACOUSTIC PROPERTIES								
acoustic resistance coefficient:								
R_w [dB]		-	26					
R_{A1} [dB]		-	24					
R_{A2} [dB]		-	21					
acoustic absorption coefficient α_w		-	0,15					
LEAKPROOFNESS								
air permeability: pressure		n=0,6443, C=0,1098						
air permeability: suction		n=0,4498 C=0,2433						
blowing rain resistance		A class - absolute leakproofness at 1200 Pa						

* Maximum length depending on the panel colour - details on page 50.



I GROUP VERY LIGHT COLOURS:

RAL 9010

RAL 9002

RAL 7035

II GROUP LIGHT COLOURS:

RAL 6018

RAL 9006

RAL 7040

III GROUP DARK COLOURS:

RAL 7016

RAL 6005

RAL 9007

RAL 8017

RAL 5003

RAL 7024

RAL 9005

IZO® PANEL