wall

IZOWALL
PIR-N/PIR-F

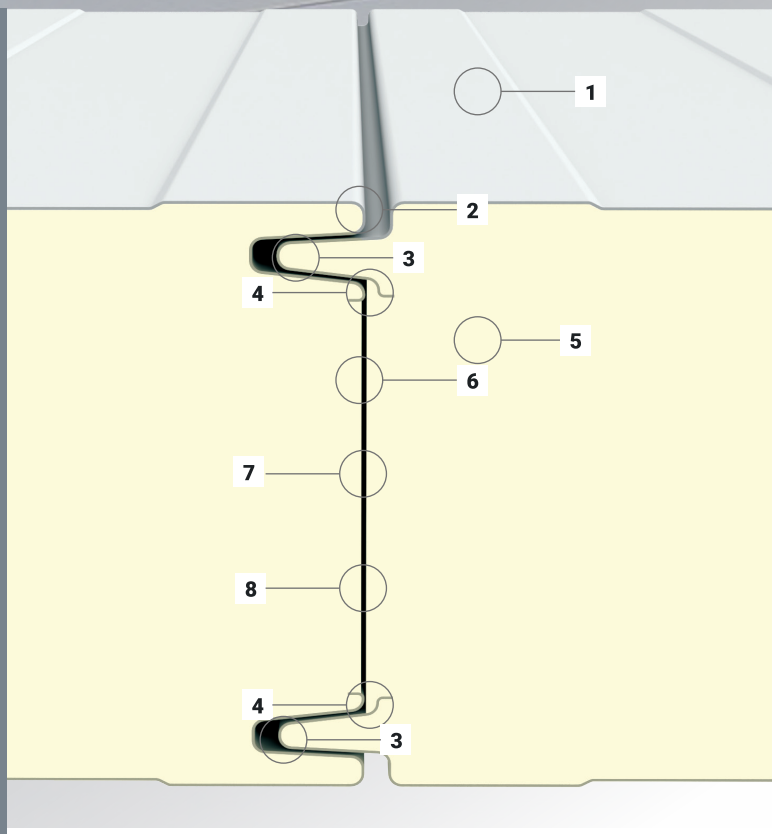
PROPERTIES:

1. Profiled lining with a unique surface design.
2. Large bend radii guarantee durability of lining protective coatings.
3. Double panel lock guarantees best fire resistance properties.
4. Profiled edges facilitate assembly and ensure proper thermal insulating power.
5. Core made of stiff, freon-free, self extinguishing PIR-F/PIR-N foam with very good thermal insulation properties.
6. Seamless polyurethane seal keeps proper thermal insulating power and tightness of joint - applied in manufacture.
7. Protecting strip prevents diffusion, water and gas infiltration and steam penetration into the insulating core.
8. Labyrinth joints incorporated in 120 to 200 mm-thick boards.

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.



SANDWICH PANEL WITH POLYISOCYANURATE OR POLYURETHANE CORE - VISIBLE FASTENING

SUITABLE FOR:

[Designed for use in places with various industrial functions.]

INSTALLATION:

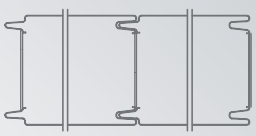
[Designed for use in vertical and horizontal arrangements.]

PRODUCT CHART

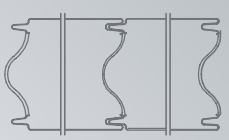
MECHANICAL PROPERTIES IZOWALL PIR-N/PIR-F										
thickness [mm]	40	60	80	100	110	120	140	160	180	200
modular width [mm]	1150 or 1000*, 1100*, 1200*									
total width [mm]	modular width+18 mm									
length [mm]	2000 - 16000**									
weight 0,5/0,4 [kg/m^2]	8,9	9,6	10,3	10,9	11,2	11,6	12,2	12,9	13,6	14,2
weight 0,5/0,5 [kg/m^2]	9,8	10,4	11,1	11,8	12,1	12,4	13,1	13,7	14,4	15,1
INSULATING POWER										
U PIR-F [W/m^{2}K]	0,55	0,35	0,26	0,21	0,19	0,18	0,15	0,13	0,12	0,11
U PIR-N [W/m^{2}K]	0,57	0,37	0,27	0,22	0,20	0,18	0,16	0,14	0,12	0,11
BURNING BEHAVIOUR										
PIR-F fire resistance	–	–	EI15	EI 30						
PIR-N fire resistance	–	–	EI15	EI 15						
PIR-F reaction to fire	B-s1, d0									
PIR-N reaction to fire	B-s2, d0									
fire propagation	NRO									
ACOUSTIC PROPERTIES										
acoustic resistance coefficient:										
R_w [dB]	25									
R_{A1} [dB]	23									
R_{A2} [dB]	20									
acoustic absorption coefficient α_w	0,15									
LEAKPROOFNESS										
air permeability: pressure	n = 0,8388, C = 0,0116									
air permeability: suction	n = 1,1072, C = 0,0074									
blowing rain resistance	A class - absolute leakproofness at 1200 Pa									
corrosion resistance	External claddings:RC3, internal claddings: RC2 ***									

* Modular width available on an individual order.
** Maximum length depending on the panel colour – see the "Tips for colour selection" section on page 50.
***The RC2 corrosion resistance class refers to standard corrosion protection used only on internal cladding. Higher corrosion resistance category on special order.

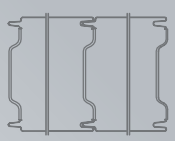
LOCKS FOR IZOWALL PIR-N/PIR-F



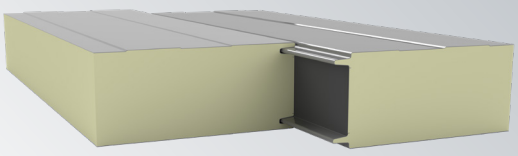
VARIANT 1
THICKNESS 40MM UP TO 100 MM
-SIDE EDGE STRAIGHT



VARIANT 2
THICKNESS 120MM
- ARCHED SIDE EDGE



VARIANT 3
THICKNESS 140MM
- 200MM SIDE EDGE WITH LABYRINTH



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