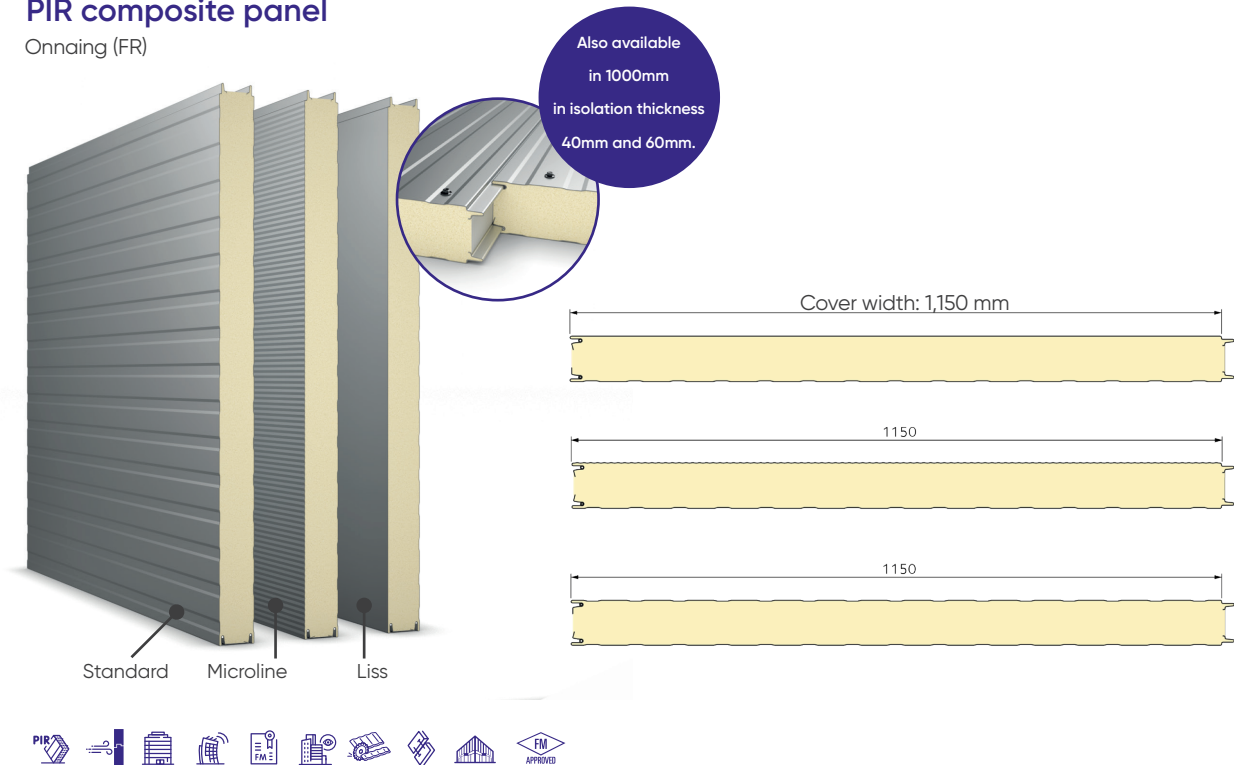


PIR composite panel

Onnaing (FR)



Characteristics of the panel

		NOMINAL THICKNESS OF THE PANEL (mm)								
		40	60	80	100	120	140	160	180	200
Dimensions	Thickness of outside / inside (mm)	0.60 / 0.40								
	Overall length (mm)	Minimum: 2,500 Maximum: 15,000 Shorter lengths up to 200 mm are available on request.								
Aesthetics	Exterior finish	Standard - Microline - Liss ⁽¹⁾								
	Interior finish	Standard - Liss on request ⁽¹⁾								
Weight (kg/m ²)	Ex. in standard thicknesses 0.60 / 0.40 mm	10.09	10.89	11.69	12.49	13.29	14.09	14.89	15.69	16.49
Reaction to fire	Euroclass according to NF EN 13501-1	Standard B-s1,d0								
Thermal Performance	Thermal resistance Rc (m ² .K/W)	1.65	2.55	3.40	4.30	5.15	6.00	6.90	7.75	8.65
	Thermal transmittance Uc (W/m ² .K)	0.55	0.37	0.28	0.23	0.19	0.16	0.14	0.13	0.11
Airtightness	Values for 80 mm thickness (m ³ /h/m ²)* **Values obtained with installation using a panel clamping tool	Pressure				Underpressure				
		4 Pa		50 Pa		4 Pa		50 Pa		
		< 0.001		< 0.001		< 0.001		< 0.001		
Polyisocyanurate foam insulation	Density (kg/m ³)	40 (±15)								

⁽¹⁾ Exact dimensions of the finishes of our sandwich panels are different for each product and production site. Ask our sales team for more details.



Joint system
Visible fixings
Thickness 40mm to 80mm



Joint system
Visible fixings
Thickness 100mm to 200mm

Table of use

Application table for light coloured standard & microline finishes
(colour group 2 according to RAGE Panels)



Maximum permissible loads in kN/m² according to the spans of use and the fasteners for the thickness of the facings
0.60 mm / 0.40 mm.

Values valid only for fasteners with a characteristic pull-out strength P_k/γ_m is ≥ 0.36 kN in 2 supports and 0.34 kN in 3 supports.

Please note:

*In underpressure, the maximum load to be retained, including fasteners, corresponds to the lowest value in the line.

-Example: for a 80 mm panel - span 4.80 m on 3 supports with 4 screws, the value to be retained in underpressure is 0.87 kN/m².

	2 SUPPORTS 							Span (m)	3 SUPPORTS 								
	Panel only*					Fasteners only*			Panel only*					Fasteners only*			
	Nominal core thicknesses (mm)					All thicknesses			Nominal core thicknesses (mm)					All thicknesses			
	40	60	80	100	120 to 200	3 screws	4 screws		40	60	80	100	120 to 200	3 screws	4 screws	5 screws	
Pressure	2.18	3.93	5.28	6.82	7.77			2.00	3.09	4.23	4.82	5.65	6.32				Pressure
Underpressure	1.98	3.53	4.64	5.22	5.22	3.91	5.22		2.61	2.61	2.61	2.61	2.61	1.57	2.09	2.61	Underpressure
Pressure	1.75	3.18	4.33	5.68	6.62			2.20	2.53	3.66	4.15	4.94	5.64				Pressure
Underpressure	1.60	2.89	3.86	4.74	4.74	3.56	4.74		2.28	2.37	2.37	2.37	2.37	1.42	1.90	2.37	Underpressure
Pressure	1.43	2.63	3.62	4.81	5.70			2.40	2.10	3.22	3.63	4.39	4.91				Pressure
Underpressure	1.32	2.40	3.26	4.31	4.35	3.26	4.35		1.93	2.17	2.17	2.17	2.17	1.30	1.74	2.17	Underpressure
Pressure	1.19	2.21	3.07	4.12	4.96			2.60	1.78	2.87	3.22	3.82	4.23				Pressure
Underpressure	1.11	2.03	2.79	3.74	4.01	3.01	4.01		1.65	2.01	2.01	2.01	2.01	1.20	1.61	2.01	Underpressure
Pressure	1.01	1.88	2.64	3.57	4.35			2.80	1.52	2.58	2.88	3.34	3.69				Pressure
Underpressure	0.94	1.74	2.42	3.27	3.73	2.80	3.73		1.43	1.86	1.86	1.86	1.86	1.12	1.49	1.86	Underpressure
Pressure	0.87	1.62	2.29	3.12	3.84			3.00	1.32	2.30	2.57	2.96	3.24				Pressure
Underpressure	0.81	1.51	2.11	2.88	3.48	2.61	3.48		1.25	1.74	1.74	1.74	1.74	1.04	1.39	1.74	Underpressure
Pressure	0.75	1.41	2.01	2.76	3.42			3.20	1.15	2.06	2.31	2.64	2.88				Pressure
Underpressure	0.70	1.32	1.86	2.56	3.18	2.45	3.26		1.10	1.63	1.63	1.63	1.63	0.98	1.30	1.63	Underpressure
Pressure	0.65	1.24	1.77	2.45	3.07			3.40	1.02	1.85	2.08	2.38	2.58				Pressure
Underpressure	0.62	1.16	1.65	2.29	2.86	2.30	3.07		0.98	1.53	1.53	1.53	1.53	0.92	1.23	1.53	Underpressure
Pressure	0.57	1.08	1.58	2.19	2.76			3.60	0.90	1.65	1.89	2.15	2.32				Pressure
Underpressure	0.54	1.03	1.48	2.06	2.59	2.17	2.90		0.87	1.45	1.45	1.45	1.45	0.87	1.16	1.45	Underpressure
Pressure	0.48	0.94	1.41	1.97	2.50			3.80	0.81	1.49	1.73	1.96	2.10				Pressure
Underpressure	0.48	0.91	1.33	1.86	2.36	2.06	2.75		0.77	1.36	1.37	1.37	1.37	0.82	1.10	1.37	Underpressure
Pressure	0.42	0.83	1.27	1.78	2.27			4.00	0.72	1.35	1.59	1.79	1.92				Pressure
Underpressure	0.42	0.81	1.20	1.69	2.16	1.96	2.61		0.69	1.23	1.30	1.30	1.30	0.78	1.04	1.30	Underpressure
Pressure	0.36	0.73	1.15	1.62	2.08			4.20	0.65	1.22	1.47	1.65	1.75				Pressure
Underpressure	0.38	0.73	1.09	1.54	1.98	1.86	2.48		0.63	1.12	1.24	1.24	1.24	0.75	0.99	1.24	Underpressure
Pressure	0.32	0.65	1.03	1.46	1.90			4.40	0.59	1.11	1.35	1.52	1.61				Pressure
Underpressure	0.34	0.66	0.98	1.40	1.82	1.78	2.37		0.57	1.02	1.19	1.19	1.19	0.71	0.95	1.19	Underpressure
Pressure			0.91	1.32	1.75			4.60	0.54	1.01	1.24	1.40	1.49				Pressure
Underpressure			0.88	1.27	1.68	1.70	2.27		0.52	0.94	1.13	1.13	1.13	0.68	0.91	1.13	Underpressure
Pressure			0.82	1.19	1.60			4.80			1.14	1.29	1.38				Pressure
Underpressure			0.80	1.16	1.54	1.63	2.17				1.09	1.09	1.09	0.65	0.87	1.09	Underpressure
Pressure			0.73	1.07	1.45			5.00			1.06	1.20	1.29				Pressure
Underpressure			0.72	1.05	1.39	1.57	2.09				1.02	1.04	1.04	0.63	0.83	1.04	Underpressure
Pressure			0.66	0.97	1.31			5.20			0.98	1.12	1.21				Pressure
Underpressure			0.66	0.95	1.26	1.51	2.01				0.94	1.00	1.00	0.60	0.80	1.00	Underpressure
Pressure			0.60	0.88	1.19			5.40			0.91	1.05	1.14				Pressure
Underpressure			0.60	0.87	1.15	1.45	1.93				0.87	0.97	0.97	0.58	0.77	0.97	Underpressure
Pressure			0.55	0.80	1.08			5.60			0.85	0.98	1.08				Pressure
Underpressure			0.55	0.80	1.05	1.40	1.86				0.80	0.93	0.93	0.56	0.75	0.93	Underpressure
Pressure			0.50	0.73	0.99			5.80			0.80	0.92	1.02				Pressure
Underpressure			0.51	0.73	0.96	1.35	1.80				0.75	0.90	0.90	0.54	0.72	0.90	Underpressure
Pressure			0.46	0.67	0.91			6.00			0.75	0.87	0.96				Pressure
Underpressure			0.47	0.68	0.89	1.30	1.74				0.70	0.87	0.87	0.52	0.70	0.87	Underpressure
Pressure			0.42	0.62	0.84			6.20			0.70	0.82	0.92				Pressure
Underpressure			0.44	0.62	0.82	1.26	1.68				0.65	0.83	0.84	0.50	0.67	0.84	Underpressure
Pressure			0.39	0.57	0.77			6.40			0.66	0.78	0.87				Pressure
Underpressure			0.40	0.58	0.76	1.22	1.63				0.61	0.78	0.82	0.49	0.65	0.82	Underpressure
Pressure			0.36	0.53	0.72			6.60			0.62	0.73	0.83				Pressure
Underpressure			0.38	0.54	0.70	1.19	1.58				0.57	0.74	0.79	0.47	0.63	0.79	Underpressure
Pressure					0.67			6.80					0.79				Pressure
Underpressure					0.65	1.15	1.53						0.77	0.46	0.61	0.77	Underpressure
Pressure					0.62			7.00					0.76				Pressure
Underpressure					0.61	1.12	1.49						0.75	0.45	0.60	0.75	Underpressure