

DECLARED VALUE	UNIT	ACCORDING TO EN 13165	MEASUREMENT STANDARD	FF-PIR AL / SAUNA	FF-PIR PL	FF-PIR FR	FF-PIR BI	FF-PIR GYL	FF-PIR 40 ALS	FF-PIR k600/k900
Application				General	Concrete applications	Facades	Flat roofs	Internal insulation	Renovation	Wooden frame structures
Thermal conductivity λ Declared ¹⁾	W/mK	λ_D	EN 12667	0,022	0,022	0,025-27	0,025-27	**)	0,022	0,022
Thickness	mm			20-240	40-150	50-150	50-100	40 ja 70	40	100-150
$\lambda_{D, dry structures}$ ²⁾	W/mK			0,022	0,022	0,025-27	0,025-27	**)	0,022	0,022
Compressive strength, short term 45 days	kPa	CS(10/Y)i	EN ISO 29469:2022	100	100	100	100	100	100	100
Dimensional stability (thickness)	%	DS(70,90)	EN 1604	4	4	4	4	4	4	4
Dimensional stability (length and width)	%	DS(70,90)	EN 1604	1	1	1	1	1	1	1
Dimensional stability (thickness)	%	DS(-20,-)	EN 1604	2	2	2	2	2	2	2
Dimensional stability (length and width)	%	DS(-20,-)	EN 1604	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Bending strength, longitudinal	N	BSi	EN 12089	NPD	NPD	NPD	NPD	400	NPD	NPD
Bending strength, transversal	N	BSi	EN 12089	NPD	NPD	NPD	NPD	160	NPD	NPD
Water absorption, 28 days immersion	t%	WL(T)i	EN ISO 16535:2019	2	2	NPD	NPD	NPD	NPD	NPD
Flatness one side immersion	mm	FWi	EN ISO 29468:2022	< 10 mm	< 10 mm	NPD	NPD	NPD	< 10 mm	< 10 mm
Water vapour permeability, laminate	μ	-	ISO 12572	-	-	38,7	-	-	-	-
Water vapour permeability, laminate	g/m ² h	-	ASTM F 1249	< 1,0	< 2,5	-	-	-	-	-
Reaction to fire			EN 13501-1	E	NPD	NPD	NPD	NPD	E	E
Reaction to fire, foam				D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0
Flame retardant surface FR and plasterboard GYL				-	-	B-s1, d0	-	B-s1, d0	-	-
Indoor emission classification				M1	M1	M1	-	M1	M1	M1
Operating temperature	°C			- 50 ... + 100	- 50 ... + 100	- 50 ... + 100	- 50 ... + 100	- 50 ... + 100	- 50 ... + 100	- 50 ... + 100

¹⁾ External walls, roofs (excluding inverted roof), ventilated floor ²⁾ thermal resistance 40 mm 1,35 m²K/W and 70 mm 2,75 m²K/W