

DECLARED PROPERTIES OF FINNFOAM INSULATION

22.3.2024

BOARD	DESIGNATION CODE
F-200	XPS-EN13164-T1-DS(70,90)-CS(10\Y)200-CC(2/1,5/50)90-WL(T)0,7-WD(V)1-FTCD2-MU150
F-300	XPS-EN13164-T1-DS(70,90)-CS(10\Y)250-CC(2/1,5/50)130-WL(T)0,7-WD(V)2-FTCD1-MU150
F-400	XPS-EN13164-T1-DS(70,90)-CS(10\Y)300-CC(3,0/2,0/50)180-WL(T)0,7-WD(V)2-FTCD1-MU150
F-500	XPS-EN13164-T1-DS(70,90)-CS(10\Y)400-CC(3,0/2,0/50)210-WL(T)0,7-WD(V)2-FTCD1-MU150
F-700	XPS-EN13164-T1-DS(70,90)-CS(10\Y)600-CC(3,0/2,0/50)270-WL(T)0,7-WD(V)1-FTCD1-MU150

DECLARED VALUE	UNIT	ACCORDING TO EN 13164	TEST STANDARD	F-200		F-300		F-400		F-500		F-700	
Thermal conductivity λ Declared ⁽¹⁾	W/mK	λ_D	EN 12667	0,035 - 0,037		0,034 - 0,038		0,034 - 0,038		0,035 - 0,038		0,035 - 0,038	
Thickness				< 80 mm	≥ 80 mm	< 80 mm	≥ 80 mm	< 80 mm	≥ 80 mm	< 80 mm	≥ 80 mm	< 80 mm	≥ 80 mm
λ_U , dry conditions	W/mK			0,035	0,037	0,035 ⁽³⁾	0,037	0,035	0,037	0,035	0,037	0,035	0,037
λ_U , frost insulation	W/mK	According to RIL 225-2023		0,038	0,041	0,037	0,039	0,037	0,039	0,036	0,039	0,036	0,039
λ_U , basement wall, outside	W/mK	According to RIL 225-2023		0,036	0,038	0,037	0,039	0,037	0,039	0,036	0,039	0,036	0,039
λ_U , ground floor	W/mK	According to RIL 225-2023		0,036	0,038	0,036	0,038	0,036	0,038	0,036	0,038	0,036	0,038
λ_U , inverted roof	W/mK	According to RIL 225-2023		0,038	0,041	0,038	0,040	0,038	0,040	0,038	0,040	0,038	0,040
Compressive strength Short-term 45 days	kPa	CS(10/Y)i ⁽²⁾	EN 826	200		250 ⁽⁴⁾		300		400		600	
Compressive creep 50 years	kPa	CC(i1/i2/50) δ_c	EN 1606	CC(2/1,5/50)90		CC(2/1,5/50)130 ⁽⁴⁾		CC(3,0/2,0/50)180		CC(3,0/2,0/50)210		CC(3,0/2,0/50)270	
Dimensional stability	%	DS(70,90)	EN 1604	< 5		< 5		< 5		< 5		< 5	
Bending strength	kPa	BSi	EN 12089	> 300		> 300		> 300		> 300		> 300	
Long term water absorption by immersion, 28 days	t%	WL(T)i	EN 12087	≤ 0,7		≤ 0,7		≤ 0,7		≤ 0,7		≤ 0,7	
Freeze-thaw resistance (300 cycles)	t%	FTCDi	EN 12091	≤ 2		≤ 1		≤ 1		≤ 1		≤ 1	
Water absorption by diffusion	t%	WD(V)i	EN 12088	≤ 1		≤ 2		≤ 2		≤ 2		≤ 1	
Water vapour permeability		MUi	EN 12086	150		150		150		150		150	
Capillarity				0		0		0		0		0	
Reaction to fire			EN 13501-1	NPD		NPD		NPD		NPD		NPD	
Thermal expansion	mm/mK			0,07		0,07		0,07		0,07		0,07	
Indoor emission classification				M1		M1		M1		M1		M1	
Operating temperature	°C			- 150 ... + 75		- 150 ... + 75		- 150 ... + 75		- 150 ... + 75		- 150 ... + 75	
Modulus of elasticity	kPa			20 000		24 000		27 000		37 000		50 000	

1) Exact declared values can be found on DoPs. 2) Exact value of i can be found on the product designation code. 3) For thickness 20-30 mm 0,034 W/mK. 4) Thickness ≥ 30 mm.