

# JACKODUR® Technical specifications

	Properties	Unit	Standard	JACKODUR® CFR 300 FT/FTR	JACKODUR® CFR 500 FT/FTR	JACKODUR® CFR 700 FT/FTR	JACKODUR® KF 300 /500/700FTD	JACKODUR® Plus 300 FT/FTR
				Value	Value	Value	Value	Value
Dimensions	Thickness	mm	EN 823	8 - 100	40-100	50 - 100	2,8 - 45	15 - 80
	Length	mm	EN 822	1000 - 3050	1000 - 3050	1000 - 3050	1000 - 3010	1000 - 3050
	Width	mm	EN 822	460 - 1200 ①	460 - 900 ①	500 - 800 ①	460 - 900 ① ③	460 - 1000 ①
Tolerances	Thickness	mm	EN 823	± 0,15 ④	± 0,15 ④	± 0,15 ④	± 0,5	± 0,15 ④
	Length	mm	EN 822	± 5 ④	± 5 ④	± 5 ④	± 5	± 5 ④
	Width	mm	EN 822	< 1000 mm ± 1 ④	± 1 ④	± 1 ④	± 1	± 1 ④
				≥ 1000 mm ± 2,5 ④				
Rectangularity	mm/m	EN 824	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	
Mechanical properties	Compressive strength or compressive stress at 10 % deformation	kPa ②	EN 826	≥ 200 (d < 29 mm) ≥ 300 (d ≥ 29 mm)	≥ 500	≥ 700	≥ 300 - ≥ 700 ①	≥ 200 (d ≤ 29 mm) ≥ 300 (d > 29 mm)
	Tensile strength	kPa ②	EN 1607	≥ 600	≥ 700	≥ 1000	≥ 600	≥ 600
	Bulk density	kg/m³	EN 1602	> 30	> 30	> 35	> 30	> 30
Characteristic values	Nominal thermal conductivity λ <sub>D</sub>	W/(m·K)	EN 13164	0,034 (d ≤ 60 mm) 0,036 (d ≤ 80 mm) 0,037 (d ≤ 120 mm)	0,034 (d ≤ 60 mm) 0,036 (d ≤ 80 mm) 0,037 (d ≤ 120 mm)	0,034 (d ≤ 60 mm) 0,036 (d ≤ 80 mm) 0,037 (d ≤ 100 mm)	0,035	0,027
	Thermal conductivity λ with gas-tight lamination on both sides	W/(m·K)	EN 13164	-	-	-	-	0,025
	Application temperature	°C	-	-50 / +75	-50 / +75	-50 / +75	-50 / +75	-50 / +75
	Fire behaviour	-	EN 13501-1	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E
	Water absorption on long-term immersion	Vol-%	EN 12087	≤ 1,0	≤ 1,0	≤ 1,0	≤ 1,0	≤ 1,0
	Vapour diffusion-equivalent air layer thickness	m	EN 12086	3 - 16 ①	3 - 16 ①	3 - 16 ①	3 - 16 ①	3 - 16 ①
	Thermal expansion coefficient	mm/(m·K)	-	0,07	0,07	0,07	0,07	0,07
	Dimensional stability at 70 °C and 90 % relative humidity	%	EN 1604	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
Deformation at 70 °C under 40 kPa pressure	%	EN 1605	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	

	Valid for: JACKODUR® CFR or KF 300 / 500 / 700 FT/FTR/FTD and JACKODUR® Plus 300 FT/FTR
Chemical resistance	WaWater / seawater / saline solutions / alcohols / liquefied inorganic gases / bases / weak and diluted acids / bitumen / water-based cold bitumen / lime / cement / gypsum / sand
Properties of XPS	Homogenous, closed cell, highly compression proof, elastic, water repellent, resistant to environmental degradation, non-ageing, non-UV resistant
Bonding technique	e.g. adhesion with solvent-free hot-melt, epoxy and polyurethane adhesives
Cutting technique	XPS can be worked with milling cutters, saws, hot wires, blades and cutters

	Length (mm)	Also valid for: JACKODUR® KF 300/500/700 FTD				
		Thickness (mm)	min. and max. widths (mm)	Compressive strength (kPa)	Tensile strength (kPa)	Nominal thermal conductivity W/(m·K)
Product range	3.010	2,8 - 45	460 - 900	≥ 300	≥ 600	0,035
		2,8 - 45	460 - 600	≥ 500	≥ 600	0,037
		2,8 - 45	500 - 600	≥ 700	≥ 600	0,037
Widths can be varied in 5-mm increments (e.g. 600, 605, 610 mm, etc.). Lengths can be varied in 10-mm increments (e.g. 2090, 3000, 3010 mm, etc.). Board thicknesses of 1/10 mm are also available by arrangement.						

We would like to point out that the data, images, technical information and drawings provided in the brochure are general details and only constitute suggestions. The illustrations are schematic and demonstrate the basic functional principle. Exact dimensions are not specified. Fitters/customers are responsible for verifying applicability. All specifications and data must be adapted to local conditions and do not constitute construction, detail or installation documentation. The technical specifications and data for the products in the installation Instructions, technical data sheets and system descriptions/approvals must be observed.

- ① Depending on thickness
- ② 100 kPa = 100 kN/m = 0,1 N/mm²
- ③ Depending on compressive strength

- ④ The indicated tolerances can be specified as plus or minus oder als values or as an individual combination