

Max. allowed load according to flat roof insulation



Manufacturer	Product name	Compressive stress acc. to DIN EN826	Long lasting compressive strength	Compression	BIS Yeti® 480	BIS Yeti® 335	BIS Yeti® 280	BIS Yeti® 130	BIS Ursus 600	BIS Ursus 400	BIS Ursus 250
					$F_{a,z} = 20 \text{ kN}$ A = 0,213 m ²	$F_{a,z} = 20 \text{ kN}$ A = 0,107 m ²	$F_{a,z} = 12.5 \text{ kN}$ A = 0,074 m ²	$F_{a,z} = 2.5 \text{ kN}$ A = 0,015 m ²	$F_{a,z} = 3 \text{ kN}$ A = 0,065 m ²	$F_{a,z} = 2 \text{ kN}$ A = 0,030 m ²	$F_{a,z} = 1 \text{ kN}$ A = 0,019 m ²
(-)	(-)	(kN/m ²)	(kN/m ²)	(%)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
Deutsche Foamglas® GmbH	Foamglas F	1,600 ¹	380	k.A.	20,000	20,000	12,500	2,500	3,000	2,000	1,000
	Foamglas S3	900 ¹	250	k.A.	20,000	20,000	12,500	2,500	3,000	2,000	1,000
	Foamglas T4+	600 ¹	190	k.A.	20,000	20,000	12,500	2,500	3,000	2,000	1,000
BASF AG	Styrodur® 5000 CS, dx	700 ²	250	≤ 2.00	20,000	20,000	12,500	2,500	3,000	2,000	1,000
	Styrodur® 4000 CS, ds	500 ²	180	≤ 2.00	20,000	19,260	12,500	2,500	3,000	2,000	1,000
	Styrodur® 3035 CS, dh	300 ²	130	≤ 2.00	20,000	13,910	9,620	1,993	3,000	2,000	1,000
	Styrodur® 3000 CS, dh	300 ²	130	≤ 2.00	20,000	13,910	9,620	1,993	3,000	2,000	1,000
	EPS Hartschaum, DAA ds	200 ²	60	≤ 2.00	12,780	6,420	4,440	920	3,000	1,777	1,000
Karl Bachl GmbH & Co. KG	EPS Hartschaum, DAA dh	150 ²	45	≤ 2.00	9,585	4,815	3,330	690	2,876	1,332	862
	EPS Hartschaum, DAA dm	100 ²	30	≤ 2.00	6,390	3,210	2,220	460	1,918	888	575
D. Rockwool GmbH & Co. KG	PUR/PIR Hartschaum, DAA dh	100-150 ²	20	≤ 2.00	4,260	2,140	1,480	307	1,278	592	383
	Megarock	80 ²	12	k.A.	2,556 ³	1,284 ³	888 ³	184 ³	767 ³	355 ³	230 ³
	Hardrock 040/038	70 ²	11	k.A.	2,343 ³	1,177 ³	814 ³	169 ³	703 ³	326 ³	211 ³
	Bondrock 040 MV	70 ²	11	k.A.	2,343 ³	1,177 ³	814 ³	169 ³	703 ³	326 ³	211 ³
	Georock 040 MV	70 ²	11	k.A.	2,343 ³	1,177 ³	814 ³	169 ³	703 ³	326 ³	211 ³
	Durock 040/037	60 ²	10	k.A.	2,130 ³	1,070 ³	740 ³	153 ³	639 ³	296 ³	192 ³
	Georock 040/037	60 ²	10	k.A.	2,130 ³	1,070 ³	740 ³	153 ³	639 ³	296 ³	192 ³
	Metac FLSP	60 ²	10	k.A.	2,130 ³	1,070 ³	740 ³	153 ³	639 ³	296 ³	192 ³
Saint-Gobain Isover G+H AG	EPS 035, DAA ds	200 ²	60	≤ 2.00	12,780	6,420	4,440	920	3,000	1,777	1,000
	Rigiroof® / EPS 035, DAA dh	150 ²	45	≤ 2.00	9,585	4,815	3,330	690	2,876	1,332	862
	Rigiroof® / EPS 035, DAA dm	100 ²	30	≤ 2.00	6,390	3,210	2,220	460	1,918	888	575

¹ Compressive stress σ according to DIN EN 826 Annex A "Deviation from the general test procedure for foam glass products".

² Maximum compressive stress $\sigma_{10\%}$ according to DIN EN 826 "Thermal insulation products for the construction industry - Determination of the behaviour under compressive stress".

³ According to the manufacturer, the information on loads only applies to static loads, without the influence of vibrations.

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