

Walraven Yeti®

Maximum allowed load according to flat roof insulation

Walraven Yeti®				Walraven Yeti® Type A				Walraven Yeti® Type A-low	
480	335	280	130	1000	600	400	250	400	250
									
F = 12,74 kN	F = 11,15 kN	F = 8,38 kN	F = 2,5 kN	F = 2,70 kN	F = 2,50 kN	F = 2,00 kN	F = 1,50 kN	F = 2,00 kN	F = 1,50 kN

Manu- facturer	Product name	Compressive stress acc. to DIN EN 826	Long lasting compressive strength	Com- pression	Effective load-transferring contact area A _{eff}									
					0,182 m ²	0,090 m ²	0,074 m ²	0,015 m ²	0,083 m ²	0,047 m ²	0,035 m ²	0,024 m ²	0,033 m ²	0,021 m ²
(-)	(-)	(kN/m ²)	(kN/m ²)	(%)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
Deutsche Foamglas® GmbH	Foamglas F	1.600 ¹	380	n/a	12.740	11.150	8.380	2.500	2.700	2.500	2.000	1.500	2.000	1.500
	Foamglas S3	900 ¹	250	n/a	12.454	7.348	6.183	1.915	2.700	2.500	2.000	1.500	2.000	1.500
	Foamglas T4+	600 ¹	190	n/a	12.322	5.593	5.169	1.645	2.700	2.500	2.000	1.500	2.000	1.500
BASF AG	Styrodur® 5000 CS, dx	700 ²	250	≤ 2,00	12.454	7.348	6.183	1.915	2.700	2.500	2.000	1.500	2.000	1.500
	Styrodur® 4000 CS, ds	500 ²	180	≤ 2,00	12.300	5.300	5.000	1.600	2.700	2.500	2.000	1.500	2.000	1.500
	Styrodur® 3035 CS, dh	300 ²	130	≤ 2,00	12.133	4.933	3.900	1.330	2.700	2.500	2.000	1.500	2.000	1.500
	Styrodur® 3000 CS, dh	300 ²	130	≤ 2,00	12.133	4.933	3.900	1.330	2.700	2.500	2.000	1.500	2.000	1.500
Various manufac- tures	EPS Hard Foam, DAA ds	200 ²	60	≤ 2,00	10.920	4.420	2.360	900	2.700	2.500	2.000	1.440	1.980	1.260
	EPS Hard Foam, DAA dh	150 ²	45	≤ 2,00	8.190	4.050	2.030	675	2.700	2.115	1.575	1.080	1.485	945
	EPS Hard Foam, DAA dm	100 ²	30	≤ 2,00	5.460	2.700	1.700	450	2.490	1.410	1.050	720	990	630
	PUR/PIR Hard Foam, DAA dh	100 - 150 ²	20	≤ 2,00	3.640	1.800	1.480	300	1.660	940	700	480	660	420
Deutsche Rockwool	Solarrock	80 ²	30	n/a	5.460	2.700	1.700	450	2.490	1.410	1.050	720	990	630
	Hardrock 040/038 Georock 038	70 ²	20	n/a	3.640	1.800	1.480	300	1.660	940	700	480	660	420
	Bondrock 040 MV Georock 040 MV	70 ²	20	n/a	3.640	1.800	1.480	300	1.660	940	700	480	660	420
	Bitrock	70 ²	20	n/a	3.640	1.800	1.480	300	1.660	940	700	480	660	420
	Duorock, Georock 037 (Best,)	70 ²	15	n/a	2.730	1.350	1.110	-	1.245	705	525	360	495	315
Knauf Insulation	DDP2-U PLUS 800 / DDP2-U Prem,	70 ²	20-35 ⁴	n/a	3.640	1.980	1.568	525	1.660	1.128	1.120	840	1.056	735
	SmartRoof Top	70 ²	22-38 ⁴	n/a	4.004	2.160	1.634	570	1.826	1.269	1.225	912	1.155	798
	DDP-X	90 ²	26-40 ⁴	n/a	4.732	2.610	1.722	600	2.158	1.457	1.295	960	1.221	840
	Alifix Top	70 ²	26-40 ⁴	n/a	4.732	2.610	1.722	600	2.158	1.457	1.295	960	1.221	840
	DDP-Max	90 ²	40-80 ⁴	n/a	7.280	4.383	2.360	1.060	2.700	2.500	2.000	1.500	2.000	1.500
	DDP-X with DDP-Max	90 / 90 ²	35-65 ⁴	n/a	6.370	3.600	2.030	975	2.700	2.115	2.000	1.500	1.980	1.365
	SmartRoof Top with DDP-Max	70 / 90 ²	30-60 ⁴	n/a	5.460	3.150	1.920	900	2.490	1.880	1.820	1.440	1.716	1.260
	DDP2-U PLUS 800 with DDP-Max	70 / 90 ²	30-50 ⁴	n/a	5.460	3.150	1.876	750	2.490	1.786	1.575	1.200	1.485	1.050
	DDP2-U Premium with DDP-Max	70 / 90 ²	30-50 ⁴	n/a	5.460	3.150	1.876	750	2.490	1.786	1.575	1.200	1.485	1.050
	Isover G+H	Metac FLSP	60 ²	10	n/a	1.820	900	740	150	830	470	350	240	330

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 $\sigma_{100\%}$ 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.

⁴ Long lasting compressive strength of the flat roof insulation according to the manufacturer's specifications depending on the load-transferring contact area of the mounting base.

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