

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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