

ערכי התנגדות תרמית פומגלס

The R value for FOAMGLAS W&F in 4cm = $0,04/0,038 = 1,05 \text{ m}^2\text{K/W}$

But hereunder, a table you can keep for you with all the R value for each thickness.

But with FOAMGLAS, it is very simple, you just have to divide the thickness (in meter) by the lambda value... ☺

Ep. (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
Type de FOAMGLAS®															
T4+ (λ = 0,041)	0,95	1,20	1,45	1,70	1,95	2,15	2,40	2,65	2,90	3,15	3,40	3,65	3,90	4,10	4,35
W&F* (λ = 0,038)	1,05	1,32	1,58	1,84	2,11	2,37	2,63	2,89	3,16	3,42	3,68	3,95	4,21	4,47	4,74
READY BOARD T4+ (λ = 0,041)	0,95	1,20	1,45	1,70	1,95	2,15	2,40	2,65	2,90	3,15	3,40	3,65	3,90	4,10	4,35
WALL BOARD (λ = 0,041)	0,95	1,20	1,45	1,70	1,95	2,15	2,40	2,65	2,90	3,15	3,40	3,65	3,90	4,10	4,35
FLOOR BOARD T4+ (λ = 0,041)	0,95	1,20	1,45	1,70	1,95	2,15	2,40	2,65	2,90	3,15	3,40	3,65	3,90	4,10	4,35

FOAMGLAS®

פומגלס – זכוכית מוקצפת – גליון נתונים טכניים

FOAMGLAS® EN 13167	W+F	T4+	S3	F
Dimensions* thickness in mm length 600 mm, width 450 mm**		40 – 180 ***	40 – 180 ***	40 – 160 ***
Dimensions* thickness in mm length 600 mm, width 600 mm**	40 – 140	40 – 180 ***		
Density (± 10%) [kg/m ³]	100	115	130	165
Thermal conductivity λ _D [W/(m·K)]	≤ 0.038	≤ 0.041	≤ 0.045	≤ 0.050
Reaction to fire (EN 13501-1)	A1	A1	A1	A1
Melting point (cf. DIN 4102-17)	> 1000° C	> 1000° C	> 1000° C	> 1000° C
Compressive strength CS , external surveillance (EN 826, annexe A) [kPa]	≥ 400	≥ 600	≥ 900	≥ 1600
Bending strength BS (EN 12089) [kPa]	–	≥ 450	≥ 500	≥ 550
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 100	≥ 150
Coefficient of thermal expansion [K ⁻¹]	9 · 10 ⁻⁶	9 · 10 ⁻⁶	9 · 10 ⁻⁶	9 · 10 ⁻⁶
Specific heat [kJ/(kg·K)]	1.0	1.0	1.0	1.0
Thermal diffusivity at 0 °C (m ² /s)	4.4 x 10 ⁻⁷	4.2 x 10 ⁻⁷	4.1 x 10 ⁻⁷	3.5 x 10 ⁻⁷
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)

FOAMGLAS® Tapered Roof System, TRS, standard falls 1.1%, 1.3%, 1.7%, 2.1%. Other dimensions, thicknesses and falls are available upon request.

* Other dimensions and thicknesses are available upon request.

** Tolerances according to EN 13167.

*** For insulation thicknesses > 140 mm it is advised to apply 2 layers on flat roofs.