



# ISOLIERGLAS - ÜBERSICHT

## THERMOGUARD - ENplus

Gewicht bei 2 x 4 mm = 20 kg / m<sup>2</sup>

Gewicht bei 3 x 4 mm = 30 kg / m<sup>2</sup>

Glasaufbau in mm außen/innen	Scheibenzwischenraum (SZR) in mm ( ) Füllgrad	Elementdicke in mm	Ug-Wert nach DIN EN 673 in W/m <sup>2</sup> K	g-Wert lt. EN 410 (%)	Lichtdurchlässigkeit in %	RW (dB)
4 / Monoguard EN+ 4	10 (90% Ar)	18	1.5	60	80	31
4 / Monoguard EN+ 4	12 (90% Ar)	20	1.3	60	80	31
4 / Monoguard EN+ 4	14 (90% Ar)	22	1.2	60	80	31
4 / Monoguard EN+ 4	15 (90% Ar)	23	1.1	60	80	31
4 / Monoguard EN+ 4	15 (92% Ar)	23	1.1	60	80	
4 / Monoguard EN+ 4	16 (90% Ar)	24	1.1	60	80	31
4 / Monoguard EN+ 4	16 (94% Ar)	24	1.1	60	80	
4 / Monoguard EN+ 4	18 (90% Ar)	26	1.1	60	80	32
4 / Monoguard EN+ 4	20 (90% Ar)	28	1.2	60	80	32
4 / Monoguard EN+ 4	22 (90% Ar)	30	1.2	60	80	32
4 / Monoguard EN+ 4	24 (90% Ar)	32	1.2	60	80	32
4 / Monoguard EN+ 4	27 (90% Ar)	35	1.2	60	80	32
4 / Monoguard EN+ 4	29 (90% Ar)	37	1.2	60	80	32
Monoguard EN+ 4 / 4	10 (90% Ar)	18	1.5	56	80	31
Monoguard EN+ 4 / 4	12 (90% Ar)	20	1.3	56	80	31
Monoguard EN+ 4 / 4	14 (90% Ar)	22	1.2	56	80	31
Monoguard EN+ 4 / 4	15 (90% Ar)	23	1.1	56	80	31
Monoguard EN+ 4 / 4	15 (92% Ar)	23	1.1	56	80	
Monoguard EN+ 4 / 4	16 (90% Ar)	24	1.1	56	80	31
Monoguard EN+ 4 / 4	16 (94% Ar)	24	1.1	56	80	
Monoguard EN+ 4 / 4	18 (90% Ar)	26	1.1	56	80	32
Monoguard EN+ 4 / 4	20 (90% Ar)	28	1.2	56	80	32
Monoguard EN+ 4 / 4	22 (90% Ar)	30	1.2	56	80	32
Monoguard EN+ 4 / 4	24 (90% Ar)	32	1.2	56	80	32
Monoguard EN+ 4 / 4	27 (90% Ar)	35	1.2	56	80	32
Monoguard EN+ 4 / 4	29 (90% Ar)	37	1.2	56	80	32
2 x Monoguard EN+ 4	10 (90% Ar)	18	1.4	52	78	31
2 x Monoguard EN+ 4	12 (90% Ar)	20	1.2	52	78	31
2 x Monoguard EN+ 4	14 (90% Ar)	22	1.1	52	78	31
2 x Monoguard EN+ 4	15 (90% Ar)	23	1.1	52	78	31
2 x Monoguard EN+ 4	16 (90% Ar)	24	1.1	52	78	31
2 x Monoguard EN+ 4	18 (90% Ar)	26	1.1	52	78	32
2 x Monoguard EN+ 4	20 (90% Ar)	28	1.1	52	78	32
2 x Monoguard EN+ 4	22 (90% Ar)	30	1.1	52	78	32
2 x Monoguard EN+ 4	24 (90% Ar)	32	1.1	52	78	32
2 x Monoguard EN+ 4	27 (90% Ar)	35	1.1	52	78	32
2 x Monoguard EN+ 4	29 (90% Ar)	37	1.1	52	78	32
2 x Monoguard EN+ 4	29 (92% Ar)	37	1.1	52	78	
6 / Monoguard EN + 4	18 (90% Ar)	28	1,1	57	78	35

8 / Monoguard EN + 4	16 (90% Ar)	28	1,1	55	77	36
8 / Monoguard EN + 6	14 (90% Ar)	28	1,1	55	77	36
VSG 6 / Monoguard EN+6	16 (90% Ar)	28	1,1	54	78	40
VSG 9 / Monoguard EN+6	16 (90% Ar)	31	1,1	54	77	39

Glasaufbau in mm außen/innen	Scheibenzwischenraum (SZR) in mm ( ) Füllgrad	Elementdicke in mm	Ug-Wert nach DIN EN 673 in W/m <sup>2</sup> K	g-Wert lt. EN 410 (%)	Lichtdurchlässigkeit in %	RW (dB)
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	10 / 10 (90% Ar)	32	0.8	48	71	32
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	10 / 10 (91% Ar)	32	0.8	48	71	32
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	12 / 12 (90% Ar)	36	0.7	48	71	33
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	14 / 14 (90% Ar)	40	0.6	48	71	34
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	16 / 16 (90% Ar)	44	0.6	48	71	34

\* Empfehlung: ESG-Glas

4 / Monoguard EN + 4	10 (100% Lu)	18	1.8	60	80	31
4 / Monoguard EN + 4	12 (100% Lu)	20	1.6	60	80	31
4 / Monoguard EN + 4	14 (100% Lu)	22	1.5	60	80	31
4 / Monoguard EN + 4	15 (100% Lu)	23	1.4	60	80	31
4 / Monoguard EN + 4	16 (100% Lu)	24	1.4	60	80	31
4 / Monoguard EN + 4	18 (100% Lu)	26	1.4	60	80	32
4 / Monoguard EN + 4	20 (100% Lu)	28	1.4	60	80	32
4 / Monoguard EN + 4	22 (100% Lu)	30	1.4	60	80	32
4 / Monoguard EN + 4	24 (100% Lu)	32	1.4	60	80	32
4 / Monoguard EN + 4	27 (100% Lu)	35	1.4	60	80	32
4 / Monoguard EN + 4	29 (100% Lu)	37	1.4	60	80	32
Monoguard EN+ 4 / 4	10 (100% Lu)	18	1.8	56	80	31
Monoguard EN+ 4 / 4	12 (100% Lu)	20	1.6	56	80	31
Monoguard EN+ 4 / 4	14 (100% Lu)	22	1.5	56	80	31
Monoguard EN+ 4 / 4	15 (100% Lu)	23	1.4	56	80	31
Monoguard EN+ 4 / 4	16 (100% Lu)	24	1.4	56	80	31
Monoguard EN+ 4 / 4	18 (100% Lu)	26	1.4	56	80	32
Monoguard EN+ 4 / 4	20 (100% Lu)	28	1.4	56	80	32
Monoguard EN+ 4 / 4	22 (100% Lu)	30	1.4	56	80	32
Monoguard EN+ 4 / 4	24 (100% Lu)	32	1.4	56	80	32
Monoguard EN+ 4 / 4	27 (100% Lu)	35	1.4	56	80	32
Monoguard EN+ 4 / 4	29 (100% Lu)	37	1.4	56	80	32
2 x Monoguard EN+ 4	10 (100% Lu)	18	1.8	52	78	31
2 x Monoguard EN+ 4	12 (100% Lu)	20	1.6	52	78	31
2 x Monoguard EN+ 4	14 (100% Lu)	22	1.4	52	78	31
2 x Monoguard EN+ 4	15 (100% Lu)	23	1.3	52	78	31
2 x Monoguard EN+ 4	16 (100% Lu)	24	1.3	52	78	31
2 x Monoguard EN+ 4	18 (100% Lu)	26	1.3	52	78	32

2 x Monoguard EN+ 4	20 (100% Lu)	28	1.3	52	78	32
2 x Monoguard EN+ 4	22 (100% Lu)	30	1.4	52	78	32
2 x Monoguard EN+ 4	24 (100% Lu)	32	1.4	52	78	32
2 x Monoguard EN+ 4	27 (100% Lu)	35	1.4	52	78	32
2 x Monoguard EN+ 4	29 (100% Lu)	37	1.4	52	78	32

Glasaufbau in mm außen/innen	Scheibenzwischenraum (SZR) in mm ( ) Füllgrad	Element- dicke in mm	Ug-Wert nach DIN EN 673 in W/m <sup>2</sup> K	g-Wert lt. EN 410 (%)	Lichtdurch- lässigkeit in %	RW (dB)
4 / Monoguard EN+ 4	10 (90 % (50% Ar – 50% Kr))	18	1.2	60	80	31
4 / Monoguard EN+ 4	10 (95 % (50% Ar – 50% Kr))	18	1.2	60	80	
4 / Monoguard EN+ 4	12 (90 % (50% Ar – 50% Kr))	20	1.1	60	80	31
4 / Monoguard EN+ 4	14 (90 % (50% Ar – 50% Kr))	22	1.2	60	80	31
4 / Monoguard EN+ 4	15 (92 % (50% Ar – 50% Kr))	23	1.2	60	80	31
4 / Monoguard EN+ 4	16 (90 % (50% Ar – 50% Kr))	24	1.2	60	80	31
Monoguard EN+ 4 / 4	10 (90 % (50% Ar – 50% Kr))	18	1.2	56	80	31
Monoguard EN+ 4 / 4	10 (95 % (50% Ar – 50% Kr))	18	1.1	56	80	
Monoguard EN+ 4 / 4	12 (90 % (50% Ar – 50% Kr))	20	1.1	56	80	31
Monoguard EN+ 4 / 4	14 (90 % (50% Ar – 50% Kr))	22	1.2	56	80	31
Monoguard EN+ 4 / 4	15 (92 % (50% Ar – 50% Kr))	23	1.2	56	80	31
Monoguard EN+ 4 / 4	16 (90 % (50% Ar – 50% Kr))	24	1.2	56	80	31
2 x Monoguard EN+ 4	10 (90 % (50% Ar – 50% Kr))	18	1.2	52	78	31
2 x Monoguard EN+ 4	12 (90 % (50% Ar – 50% Kr))	20	1.1	52	78	31
2 x Monoguard EN+ 4	14 (90 % (50% Ar – 50% Kr))	22	1.1	52	78	31
2 x Monoguard EN+ 4	15 (92 % (50% Ar – 50% Kr))	23	1.1	52	78	31
2 x Monoguard EN+ 4	16 (90 % (50% Ar – 50% Kr))	24	1.1	52	78	31
4 / Monoguard EN+ 4	8 (90% Kr)	16	1.2	60	80	30
4 / Monoguard EN+ 4	10 (90% Kr)	18	1.0	60	80	31
4 / Monoguard EN+ 4	10 (94% Kr)	18	1.0	60	80	
4 / Monoguard EN+ 4	12 (90% Kr)	20	1.1	60	80	32
4 / Monoguard EN + 4	14 (90% Kr)	22	1,1	56	75	
4 / Monoguard EN + 4	16 (90% Kr)	24	1,1	56	75	
Monoguard EN+ 4 / 4	8 (90% Kr)	16	1.2	56	80	30
Monoguard EN+ 4 / 4	10 (90% Kr)	18	1.0	56	80	31
Monoguard EN+ 4 / 4	10 (94% Kr)	18	1.0	56	80	
Monoguard EN+ 4 / 4	12 (90% Kr)	20	1.1	56	80	32
Monoguard EN+ 4 / 4	12 (92% Kr)	20	1,0	56	80	
Monoguard EN + 4 / 4	14 (90% Kr)	22	1,1	52	75	
Monoguard EN + 4 / 4	16 (90% Kr)	24	1,1	52	75	
2 x Monoguard EN+ 4	8 (90% Kr)	16	1.1	52	78	30
2 x Monoguard EN+ 4	8 (91% Kr)	16	1.1	52	78	31
2 x Monoguard EN+ 4	10 (94% Kr)	18	0.9	52	78	
2 x Monoguard EN+ 4	12 (90% Kr)	20	1.0	52	78	32
2 x Monoguard EN + 4	14 (90% Kr)	22	1,0	46	70	
2 x Monoguard EN + 4	16 (90% Kr)	24	1,0	46	70	
6 / Monoguard EN + 4	18 (90% Kr)	28	1,1	57	78	35

8 / Monoguard EN + 4	16 (90% Kr)	28	1,1	55	77	36
8 / Monoguard EN + 6	14 (90% Kr)	28	1,1	55	77	36
VSG 6 / Monoguard EN+6	16 (90% Kr)	28	1,1	54	78	35
VSG 9 / Monoguard EN+6	16 (90% Kr)	31	1,1	54	77	39

Glasaufbau in mm außen/innen	Scheibenzwischenraum (SZR) in mm ( ) Füllgrad	Element- dicke in mm	Ug-Wert nach DIN EN 673 in W/m <sup>2</sup> K	g-Wert lt. EN 410 (%)	Lichtdurch- lässigkeit in %	RW (dB)
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	8 / 8 (90% Kr)	28	0.7	48	71	32
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	8 / 8 (92% Kr)	28	0.6	48	71	
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	10 / 10 (90% Kr)	32	0.6	48	71	33
3-fach Monoguard EN+ 4 / 4* / Monoguard EN+ 4	12 / 12 (90% Kr)	36	0.5	48	71	34

\* Empfehlung: ESG-Glas