Technical Data
MegaluX-Rooflight systems

MEGALUX® rooflight systems

EN 1873:2014 + A1:2016

Rooflights in Acrylic (AC) or Polycarbonate (PC) Rooflights in combination with ISO-frame or Glass-window				Ur-value* (W/m²K) EN 1873:2014 + A1:2016			LT-value (%) EN 13468, EN 16153, EN 410			g-value (%) EN 410			Rw-value** (dB) EN ISO 140-3		
				Dome	Dome + ISO-frame	Dome + Glass-window	Dome	Dome + ISO-frame	Dome + Glass-window	Dome	Dome + ISO-frame	Dome + Glass-window	Dome	Dome + ISO-frame	Dome + Glass-window
Acrylic (AC)	1-S Dome	Clear	(C)	5,70	0,86	1,20	92	32	73	85	26	49	21	27	40
	1-S Dome	Opal	(O)	5,70	0,86	1,20	84	29	66	76	23	44	21	27	40
	2-S Dome	Clear	(C/C)	2,94	0,76	0,95	85	30	67	75	23	44	23	29	40
	2-S Dome	Opal	(O/C)	2,94	0,76	0,95	78	27	62	66	20	38	23	29	40
	2-S Dome	Opal	(O/O)	2,94	0,76	0,95	74	26	58	64	19	37	23	29	40
	2-S Dome	Heatstop		2,94	0,76	0,95	47	16	37	32	10	19	23	29	40
	3-S Dome	Clear	(C/C/C)	1,92	0,69	0,85	78	27	62	67	20	39	25	31	40
	3-S Dome	Opal	(O/C/C)	1,92	0,69	0,85	71	25	56	62	19	36	25	31	40
	4-S Dome	Clear	(C/C/C/C)	1,43	0,63	0,77	72	25	57	59	18	34	26	33	40
	4-S Dome	Opal	(O/C/C/C)	1,43	0,63	0,77	66	23	52	52	16	30	26	33	40
	6-S ISO Dome	Opal	(C/C/O)	1,36	0,62	0,76	65	23	51	48	14	28	24	32	40
	6-S ISO Dome	Opal	(O/C/O)	1,36	0,62	0,76	59	21	47	46	14	27	24	32	40
Polycarbonate (PC)	1-S Dome	Clear	(C)	5,70	0,86	1,20	90	32	71	82	25	48	21	27	40
	1-S Dome	Opal	(O)	5,70	0,86	1,20	84	29	66	76	23	44	21	27	40
	2-S Dome	Clear	(C/C)	2,94	0,76	0,95	81	28	64	72	22	42	23	29	40
	2-S Dome	Opal	(O/C)	2,94	0,76	0,95	74	26	58	62	19	36	23	29	40
	2-S Dome	Opal	(O/O)	2,94	0,76	0,95	68	24	54	58	17	34	23	29	40
	2-S Dome	Heatstop		2,94	0,76	0,95	45	16	36	32	10	19	23	29	40
	3-S Dome	Clear	(C/C/C)	1,92	0,69	0,85	73	26	58	65	20	38	25	31	40
	3-S Dome	Opal	(O/C/C)	1,92	0,69	0,85	64	22	51	54	16	31	25	31	40
	4-S Dome	Clear	(C/C/C/C)	1,43	0,63	0,77	66	23	52	57	17	33	26	33	40
	4-S Dome	Opal	(O/C/C/C)	1,43	0,63	0,77	60	21	47	48	14	28	26	33	40
	6-S ISO-Dome	Opal	(C/C/O)	1,36	0,62	0,76	56	20	44	43	13	25	24	32	40
	6-S ISO-Dome	Opal	(O/C/O)	1,36	0,62	0,76	52	18	41	41	12	24	24	32	40

* U-value per size / version is available on request

** Frequency curve per size / version is available on request

ISO-frame = 10-wall PC-plate, thickness 32 mm Glass-frame = Insulating glass HR++			U-value (W/m²K) EN 1873:2014 + A1:2016	LT-value (%) EN 13468, EN 16153, EN 410	g-value (%) EN 410	Rw-value (dB) EN ISO 140-3
ISO-frame	Opal	(O)	1,14	35	30	25
Glass-frame	Clear	(C)	1,10	79	58	40

Isolatiewaarde van opstanden, Uup-waarde* (W/m²K)

EN 1873:2014 + A1:2016, EN ISO 10211

PVC curb		Uup
- PVC E15	(height 160 mm, thick 25 mm)	2,9
- PVC BF30	(height 300 mm, thick 35 mm)	1,1
- PVC R16	(height 160 mm, thick 60 mm)	0,8
Polyester curb (GF-UP)		
- POL H15	(height 150 mm, PUR thick 10 mm)	2,30
- POL E15	(height 150 mm, PUR thick 20 mm)	1,30
- POL E15/6	(height 150 mm, PUR thick 60 mm)	0,87
- POL E15/8	(height 150 mm, PUR thick 80 mm)	0,83
- POL E30	(height 300 mm, PUR dikte 20 mm)	1,10
- POL E30/6	(height 300 mm, PUR thick 60 mm)	0,59
- POL E30/8	(height 300 mm, PUR thick 80 mm)	0,53
- POL E50	(height 500 mm, PUR thick 20 mm)	1,00
- POL E50/6	(height 500 mm, PUR thick 60 mm)	0,48
- POL E50/8	(height 500 mm, PUR thick 80 mm)	0,41

* U-value per size / version is available on request

Other technical data and performance of rooflights

	Acrylic (AC)	Polycarbonate (PC)
Resistance to upward load (wind)	UL 1500 - UL 3000	UL 1500 - UL 3000
Resistance to downward load (snow)	DL 1125 - DL 2500	DL 1125 - DL 2500
Reaction to fire (EN 13501-1)	E, s2, d2	B, s1, d0
Small hard body impact (250 g, drop from 1 m)	Pass	Pass
Large soft body impact (50 kg bag)	Fail	SB 600 - SB 1200
Durability	ΔA, Cu 1, Ku 1	ΔA, Cu 1, Ku 1
Impact strength in comparison to glass	25x	300x
Bending strength	105 N/mm^2	90 N/mm^2
E-Modulus (ISO 527)	3300 N/mm^2	2400 N/mm^2
Form resistance (Vicat) (ISO 306)	102 °C	150 °C

Ug-value = Thermal transmittance of glass (W/m²K)
Ur-value = Thermal transmittance of a rooflight (W/m²K)
Uup-value = Thermal transmittance of the upstand (W/m²K)
LT-value = Light transmission (%)
g-value = Total Solar energy transmittance (%)
Rw-value = Direct airborne sound insulation (dB)

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