

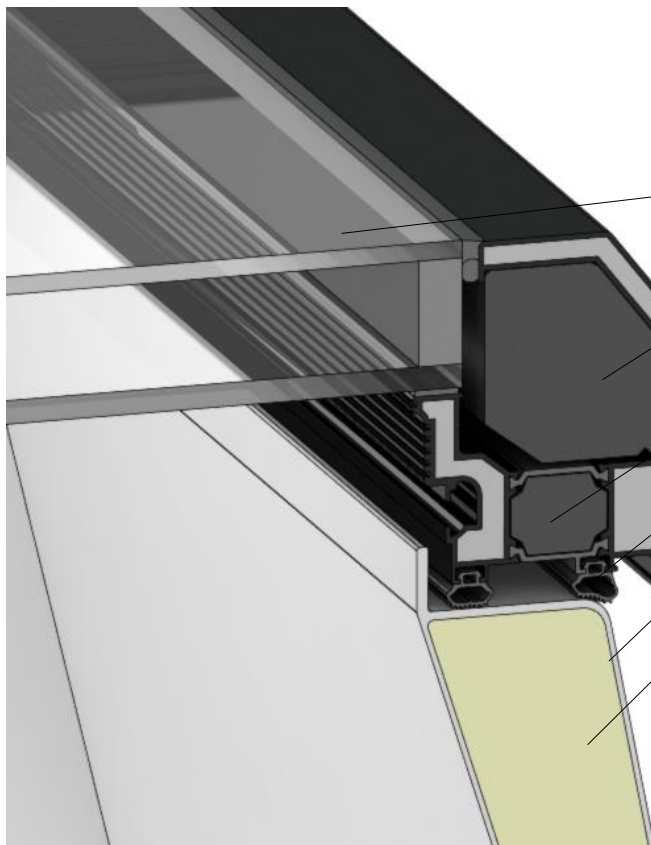
### Basic Information

## Flat Roof Window FE 0° (2019)



- Structural Glazing
- Individually adaptable
- High daylight incidence
- Optimized sound insulation
- Optimum thermal insulation
- Shading options
- Connection options / refurbishment options
- Smart Home (electrical control / monitoring)
- LED equipment

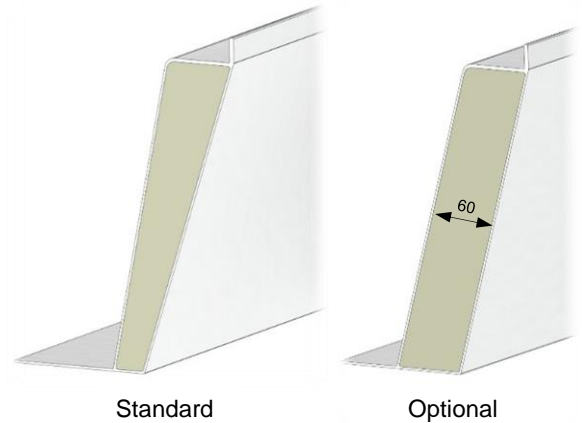
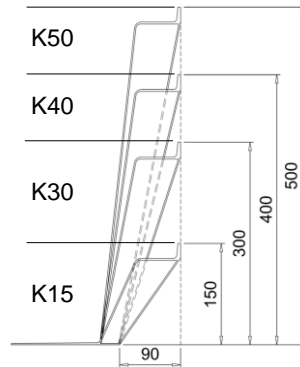
## Materials and Building Material Classes



Real glass glazing		A1
Neopor insulation block		E
ALU borderframe		A1
Isolation core made of Neopor		Ed-0
EPDM double sealing system		Ed-0
GRP-outer shell (RAL 9016)		Ed-0
PU-rigid foam insulation		Ed-0

Basic Information

**Lower part**  
Inclined GRP Upstand



**Sizes**

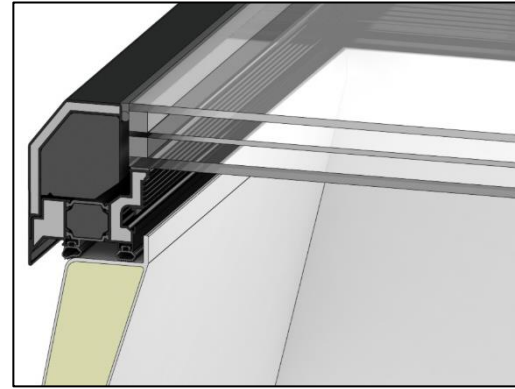
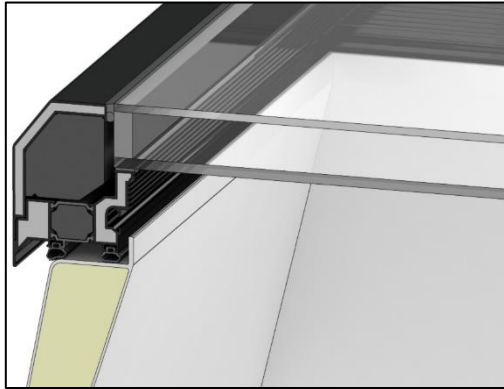
Top roof edge size	FE 0° 2019	
	Double glazing	Triple glazing
50x100	•	•
50x150	•	•
60x60	•	•
60x90	•	•
60x120	•	•
70x135	•	•
80x80	•	•
80x150	•	•
90x90	•	•
90x120	•	•
90x145	•	•
100x100	•	•
100x150	•	•
100x200	•	•
100x240	•	•
100x250	•	•
100x300	•	•
120x120	•	•
120x150	•	•
120x180	•	•
120x240	•	•
120x250	•	•
120x270	•	•
125x125	•	•
125x250	•	•
140x140	•	•
150x150	•	•
150x180	•	•
150x200	•	•
150x210	•	•
150x240	•	•
150x250	•	•
150x270	•	•
150x300	•	•
180x180	•	•
200x200	•	•



OKD= Top roof edge size

Basic Information

**Glazings**



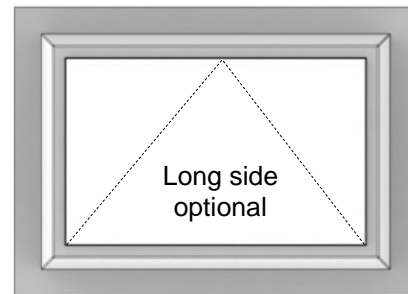
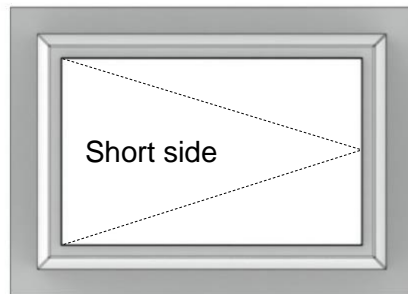
	Discription	Code	External glazing	SZR	Middle glazing	SZR	Internal glazing	Light transmission $\tau$ [%]	Total energy transmittance $g$ [%]	Sound insulation value $R_{w,p}$ [dB]	Heat transition $U_g$ [W/m <sup>2</sup> K]
<b>Double glazing</b>	Thermal insulation glazing	W 102	6 TSG	20	-	-	8 LSG 0,76 clear	80	62	38	1,1
	Thermal insulation glazing	W 103	6 TSG	20	-	-	8 LSG 0,76 opal	54	59	38	1,1
	Thermal insulation glazing 68/44	W 106	6 TSG	20	-	-	8 LSG 0,76 clear	69	48	38	1,0
	Thermal insulation glazing 50/34	W 107	6 TSG	20	-	-	8 LSG 0,76 opal	47	46	38	1,0
	Thermal insulation glazing (BioClean)	W 111	6 TSG	20	-	-	8 LSG 0,76 clear	80	62	38	1,1
	Thermal insulation glazing (BioClean)	W 112	6 TSG	20	-	-	8 LSG 0,76 opal	54	59	38	1,1
	Sun protection glazing 48/27 Neutral	S 101	6 TSG	20	-	-	8 LSG 0,76 clear	49	27	38	1,1
	Sun protection glazing 48/27 Neutral	S 102	6 TSG	20	-	-	8 LSG 0,76 opal	33	26	38	1,1
	Sun protection glazing 60/48 Silver	S 105	6 TSG	20	-	-	8 LSG 0,76 clear	59	48	37	1,1
	Sun protection glazing 60/48 Silver	S 106	6 TSG	20	-	-	8 LSG 0,76 opal	37	47	37	1,1
	Sun protection glazing 60/30 Neutral	S 109	6 TSG	20	-	-	8 LSG 0,76 clear	61	30	38	1,0
	Sun protection glazing 60/30 Neutral	S 110	6 TSG	20	-	-	8 LSG 0,76 opal	41	29	38	1,0
	Sun protection glazing 70/40 Neutral	S 113	6 TSG	20	-	-	8 LSG 0,76 clear	69	37	38	1,0
	Sun protection glazing 70/40 Neutral	S 114	6 TSG	20	-	-	8 LSG 0,76 opal	47	35	38	1,0
Sound insulation glazing 45 dB	SS11TSG	10 TSG	20	-	-	8 LSG 0,76 clear	79	55	45	1,1	

	Discription	Code	External glazing	SZR	Middle glazing	SZR	Internal glazing	Light transmission $\tau$ [%]	Total energy transmittance $g$ [%]	Sound insulation value $R_{w,p}$ [dB]	Heat transition $U_g$ [W/m <sup>2</sup> K]
<b>Triple glazing</b>	Thermal insulation glazing	W 110	6 TSG	16	4 Float	14	8 LSG 0,76 clear	72	51	39	0,6
	Thermal insulation glazing	W 303	6 TSG	16	4 Float	14	8 LSG 0,76 opal	49	50	39	0,6
	Thermal insulation glazing (BioClean)	W 311	6 TSG	16	4 Float	14	8 LSG 0,76 clear	72	51	39	0,6
	Thermal insulation glazing (BioClean)	W 312	6 TSG	16	4 Float	14	8 LSG 0,76 opal	49	50	39	0,6
	Sun protection glazing 60/30	S 117	6 TSG	16	4 Float	14	8 LSG 0,76 clear	55	28	39	0,6
	Sun protection glazing 60/30	S 118	6 TSG	16	4 Float	14	8 LSG 0,76 opal	37	27	39	0,6
	Sun protection glazing 48/25	S 121	6 TSG	16	4 Float	14	8 LSG 0,76 clear	45	25	39	0,6
	Sun protection glazing 48/25	S 122	6 TSG	16	4 Float	14	8 LSG 0,76 opal	31	23	39	0,6
	Sun protection glazing 70/40	S 125	6 TSG	16	4 Float	14	8 LSG 0,76 clear	62	35	39	0,6
	Sun protection glazing 70/40	S 126	6 TSG	16	4 Float	14	8 LSG 0,76 opal	42	34	39	0,6

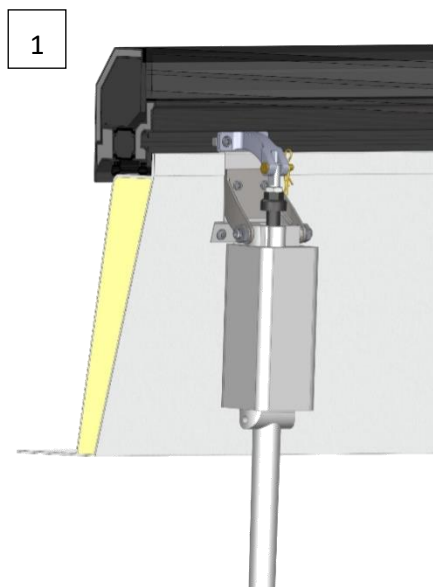
The specified thicknesses of the panes and inter-pane gaps represent the standard configuration and can still change according to static requirements depending on the load and pane dimensions. The spectral values can deviate by up to 5%.

Basic Information

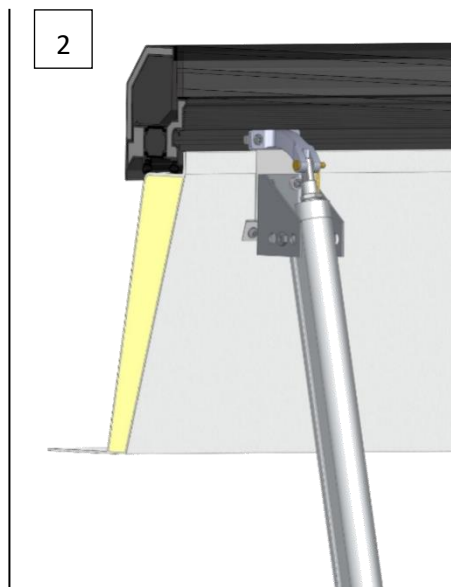
**Hinge sides**



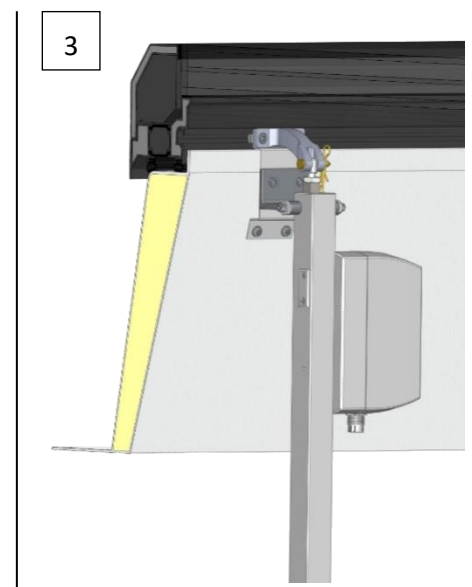
**Opener**



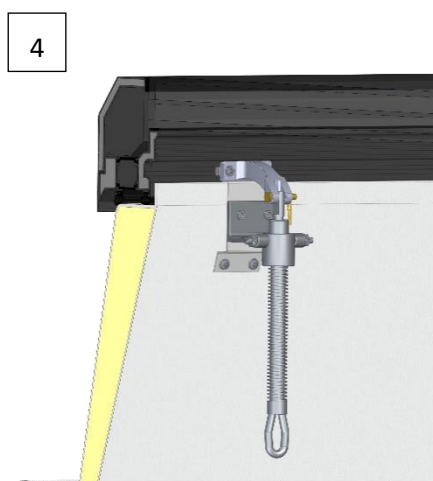
230 spindle upstroke drive type  
JMBB  
300mm / 500mm Upstroke



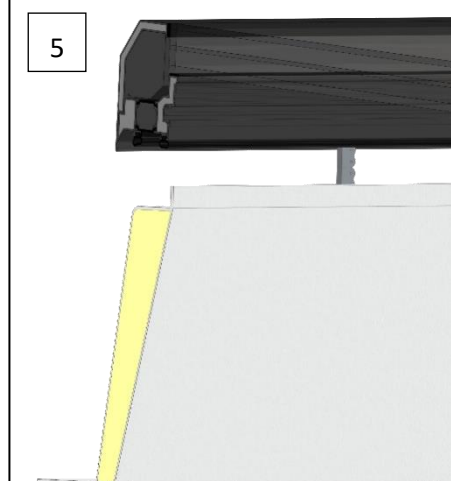
24V spindle upstroke drive  
Type Jo65 / Jo100  
300mm / 500mm Upstroke



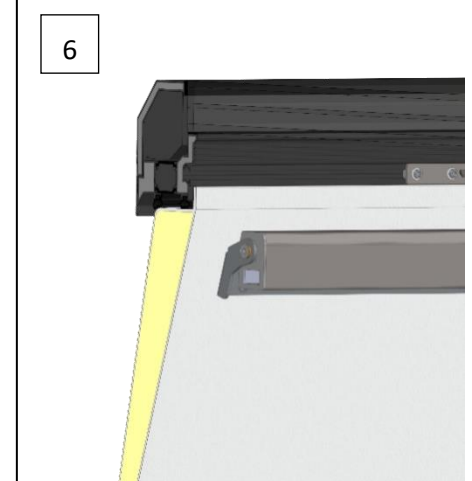
Rack and pinion drive  
Typ ZA 230V or 24V  
350mm / 500mm Upstroke



Manual drive  
Manual operation  
285mm Upstroke



Concealed chain drive operation  
230V or 24V  
250mm Upstroke

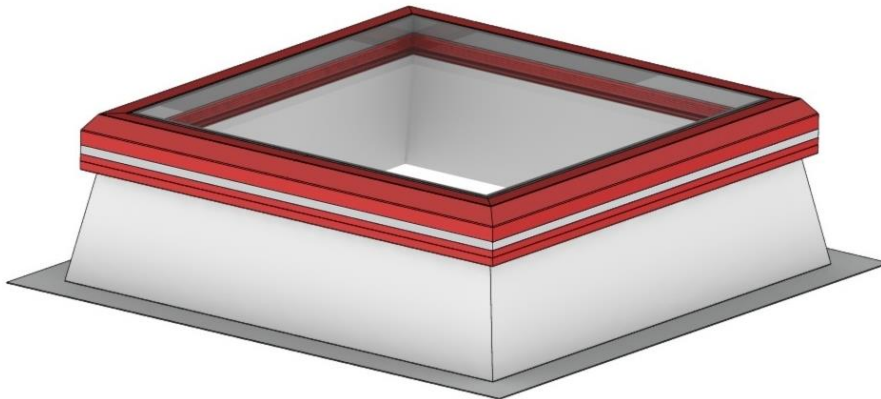


230V/ 24V chain drive operation  
250mm/300mm/500mm/600mm  
Upstroke

Basic Information

**Special Accessories**

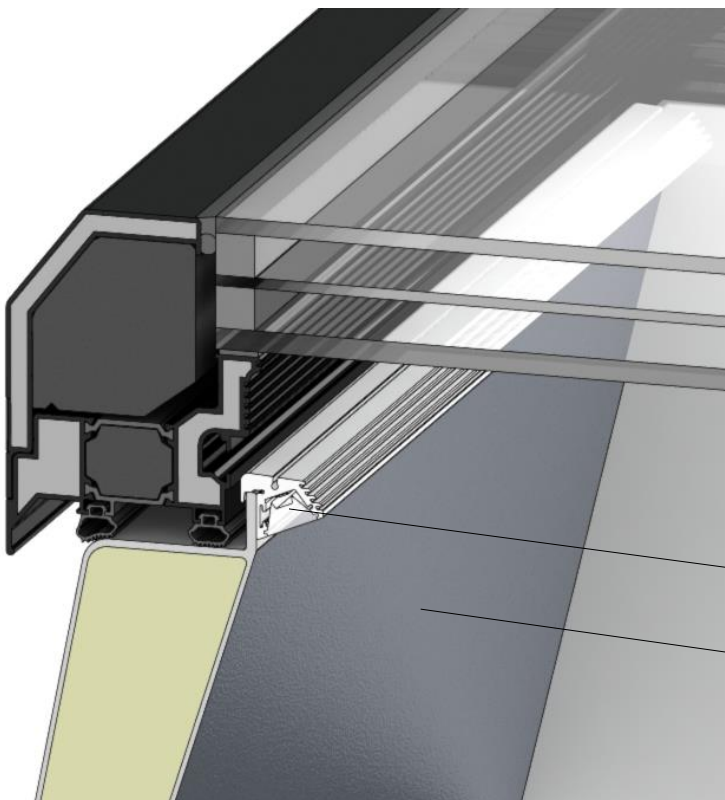
**FE 0° Coating**



Standard colour RAL 9016 Traffic-white

Optionally, the aluminium parts can be coated in all colours

**FE 0° Illumination**



**LAMILUX REFLECTIVE**

- The light transmittance of the daylight element is increased by up to 50% due to the patented principle of cladding with highly reflective aluminium material
- Up to 33% savings in energy used for artificial light
- Elegant surface finish gives high-quality interior appearance

**LAMILUX PRISM-LED**

- Outstanding design with slimline LED light strips
- Flicker-free dimming
- Minimal heat generation from artificial lights
- Very low energy consumption

LAMILUX LED strips installed around upper segment of upstand

LAMILUX REFLECTIVE coating on the upstand interior