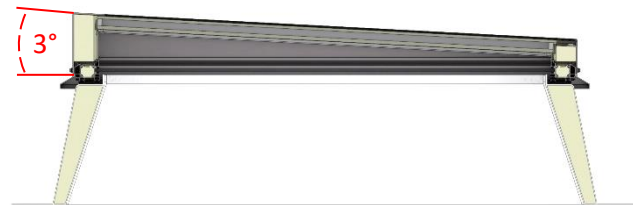


Basic Information

Glass Element FE 0°

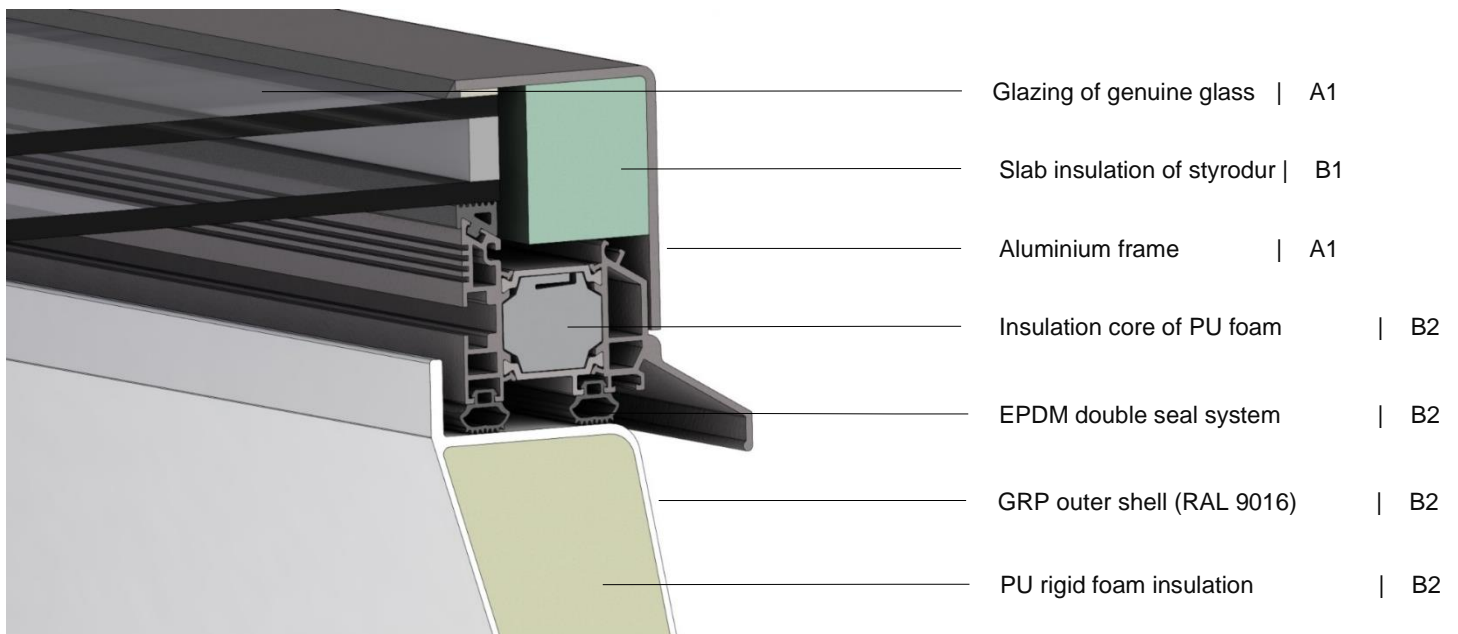


Glass Element FE 3°



- Optimized self-cleaning with the 3° version
- Element FE also available in a round version
- High incidence of daylight
- Also available as passive house certified skylight
- Optimal thermal insulation
- Shading variants
- Connection possibilities / renovation options
- Smart Home (electric drive / control)
- LED equipment

Materials and building material classes

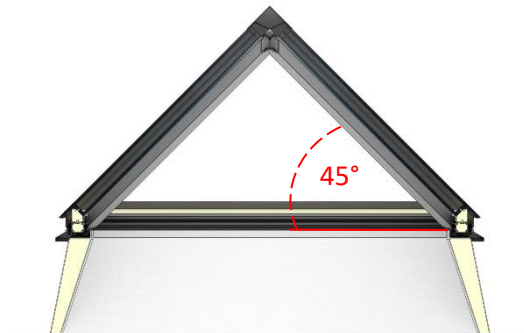
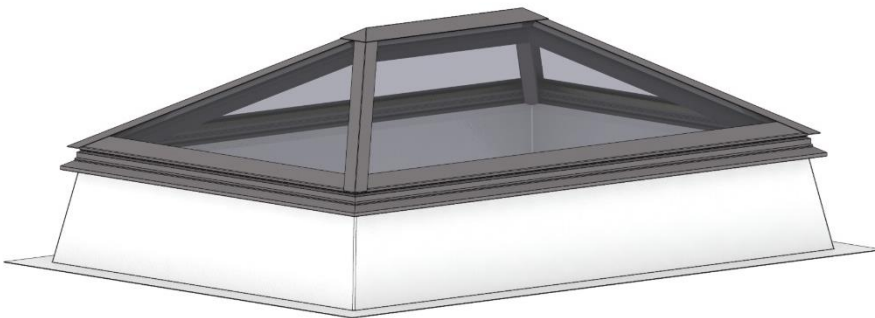


Basic Information

Glass Element FP 30° / 45° (Pyramid)

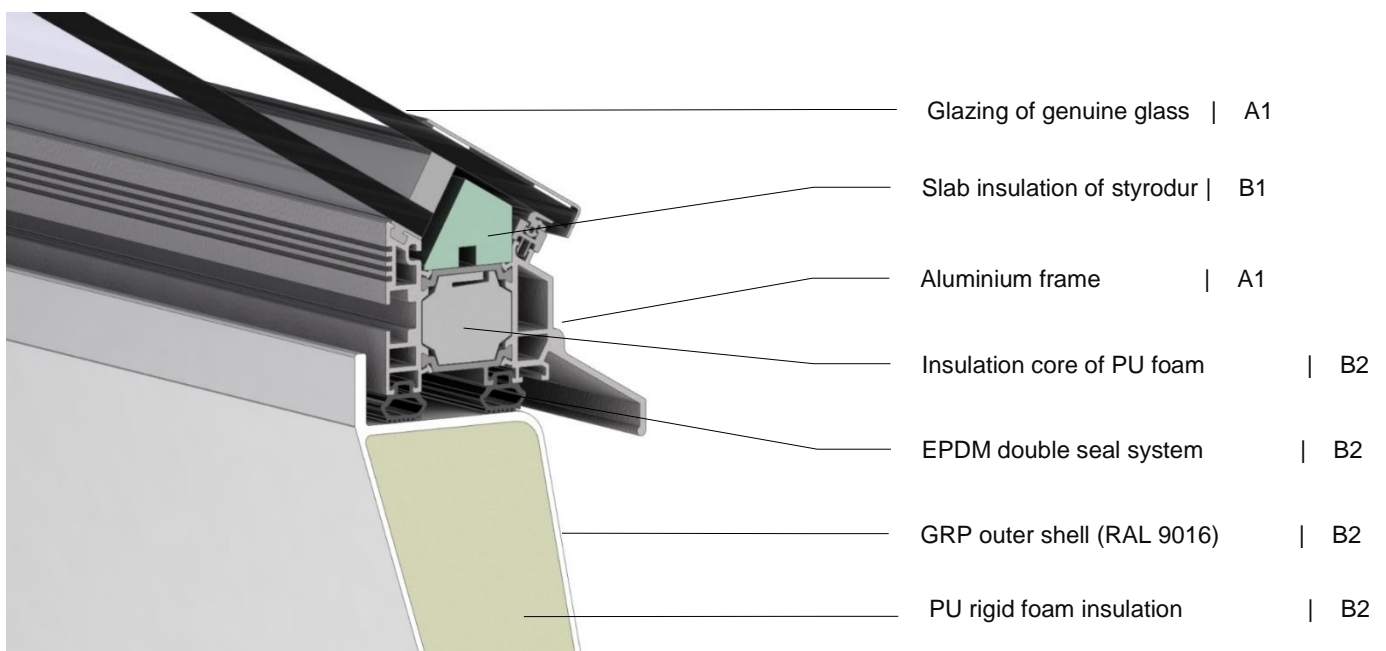


Glass Element FW 30° / 45° (Pitched Roof)



- Delicate appearance (from inside and outside)
- High incidence of daylight
- Optimal thermal insulation
- Shading variants
- Connection possibilities / renovation options
- Smart Home (electric drive / control)

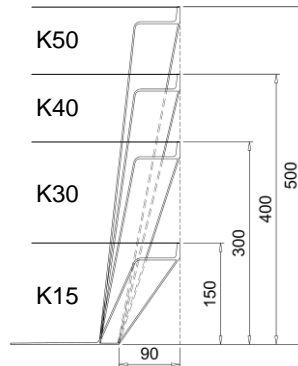
Materials and building material classes



Basic Information

Lower part

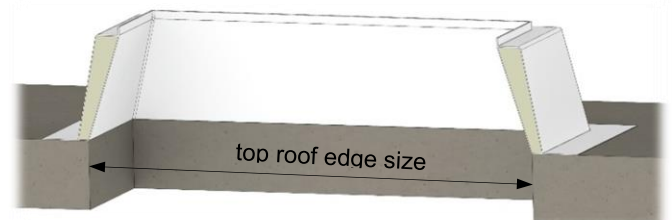
GRP frame (slanting geometry)



standard

optional

Sizes

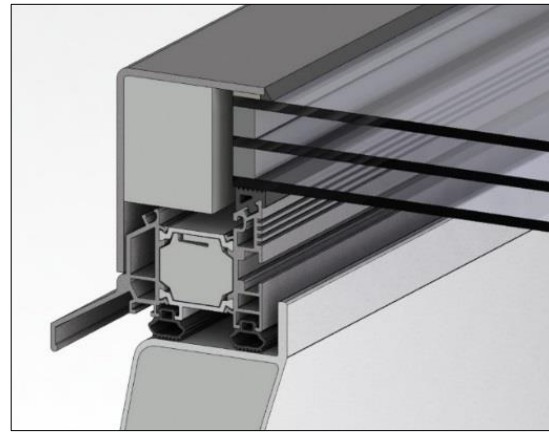
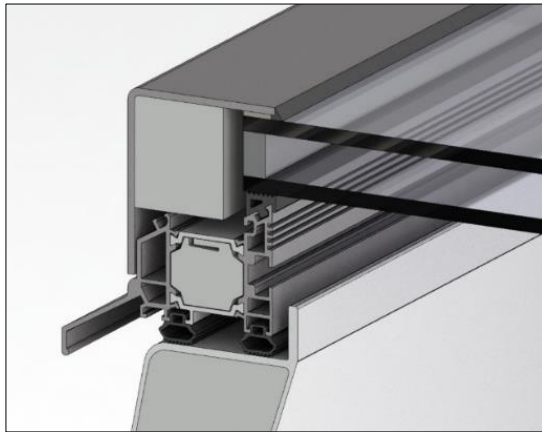


Top roof edge size	FE 0°		FE 3°		FP-FW 30°		FP-FW 45°	
	Double glazing	Triple glazing	Double glazing	Triple glazing	Double glazing	Triple glazing	Double glazing	Triple glazing
50x100	•	•*	•	•*	•	•	•	•
50x150	•	•*	•	•*	•	•	•	•
60x60	•	•	•	•	•	•	•	•
60x90	•	•	•	•	•	•	•	•
60x120	•	•	•	•	•	•	•	•
70x135	•	•	•	•	•	•	•	•
80x80	•	•	•	•	•	•	•	•
80x150	•	•	•	•	•	•	•	•*
90x90	•	•	•	•	•	•	•	•
90x120	•	•	•	•	•	•	•	•*
90x145	•	•	•	•	•	•*	•	•*
100x100	•	•	•	•	•	•	•	•
100x150	•	•	•	•	•	•*	•	•*
100x200	•	•	•	•	•	•*	•	•*
100x240	•	•	•	•	•	•*	•	•*
100x250	•	•*	•	•*	•	•*	•	•*
100x300	•	•	•	•	•	•*	•	•*
120x120	•	•	•	•	•	•	•	•
120x150	•	•	•	•	•	•	•	•
120x180	•	•	•	•	•	•	•	•
120x240	•	•*	•	•*	•	•	•	•*
120x250	•	•*	•	•*	•	•	•	•*
120x270	•	•*	•	•*	•	•	•	•*
125x125	•	•	•	•	•	•	•	•
125x250	•	•*	•	•*	•	•	•	•
150x150	•	•	•	•	•	•	•	•
150x180	•	•	•	•	•	•	•	•
150x200	•	•	•	•	•	•	•	•*
150x210	•	•	•	•	•	•	•	•
150x240	•*	•*	•*	•*	•	•*	•	•
150x250	•*	•*	•*	•*	•	•	•	•
150x270	•*	•	•*	•*	•	•	•	•
150x300	•*	•	•*	•	•	•	•	•
180x180	•	•	•	•	•	•	•	•
200x200	•	•	•	•	•	•	•	•

*= Only with TSG execution

Basic Information

Glazing
(for all elements)

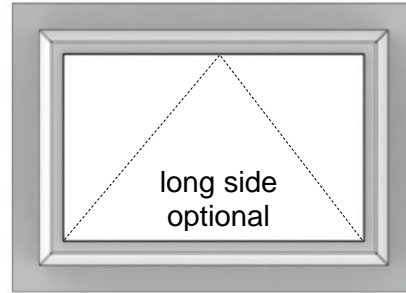
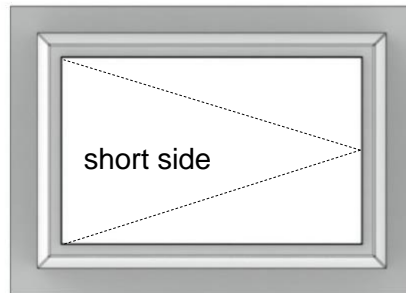


	Discription	Code	External glazing	SZR	Middle glazing	SZR	Internal glazing	Light transmission τ [%]	Total energy transmittance g [%]	Sound insulation value $R_{w,p}$ [dB]	Heat transition U_g [W/m ² K]
Double glazing	Thermal insulation glazing	W 102	6 TSG	16	-	-	8 LSG 0,76 clear	80	62	38	1,1
	Thermal insulation glazing	W 103	6 TSG	16	-	-	8 LSG 0,76 opal	54	59	38	1,1
	Thermal insulation glazing 68/44	W 106	6 TSG	16	-	-	8 LSG 0,76 clear	69	48	38	1,0
	Thermal insulation glazing 50/34	W 107	6 TSG	16	-	-	8 LSG 0,76 opal	47	46	38	1,0
	Thermal insulation glazing (BioClean)	W 111	6 TSG	16	-	-	8 LSG 0,76 clear	80	62	38	1,1
	Thermal insulation glazing (BioClean)	W 112	6 TSG	16	-	-	8 LSG 0,76 opal	54	59	38	1,1
	Sun protection glazing 48/27 Neutral	S 101	6 TSG	16	-	-	8 LSG 0,76 clear	49	27	38	1,1
	Sun protection glazing 48/27 Neutral	S 102	6 TSG	16	-	-	8 LSG 0,76 opal	33	26	38	1,1
	Sun protection glazing 60/48 Silver	S 105	6 TSG	16	-	-	8 LSG 0,76 clear	59	48	37	1,1
	Sun protection glazing 60/48 Silver	S 106	6 TSG	16	-	-	8 LSG 0,76 opal	37	47	37	1,1
	Sun protection glazing 60/30 Neutral	S 109	6 TSG	16	-	-	8 LSG 0,76 clear	61	30	38	1,0
	Sun protection glazing 60/30 Neutral	S 110	6 TSG	16	-	-	8 LSG 0,76 opal	41	29	38	1,0
	Sun protection glazing 70/40 Neutral	S 113	6 TSG	16	-	-	8 LSG 0,76 clear	69	37	38	1,0
	Sun protection glazing 70/40 Neutral	S 114	6 TSG	16	-	-	8 LSG 0,76 opal	47	35	38	1,0
	Sound insulation glazing 45 dB	SS11TSG	10 TSG	16	-	-	8 LSG 0,76 clear	79	55	45	1,1
Isoroll	S100	6 TSG	24	-	-	8 LSG 0,76 clear	80	62	35	1,2	

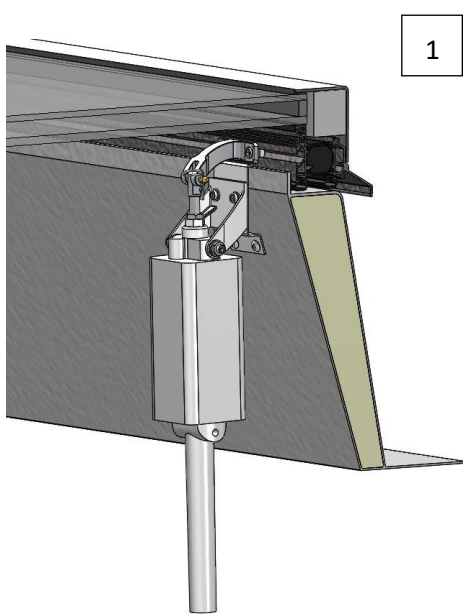
	Discription	Code	External glazing	SZR	Middle glazing	SZR	Internal glazing	Light transmission τ [%]	Total energy transmittance g [%]	Sound insulation value $R_{w,p}$ [dB]	Heat transition U_g [W/m ² K]
Triple glazing	Thermal insulation glazing	W 110	6 TSG	14	4 Float	14	8 LSG 0,76 clear	72	51	39	0,6
	Thermal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

Basic Information

Hinge Side

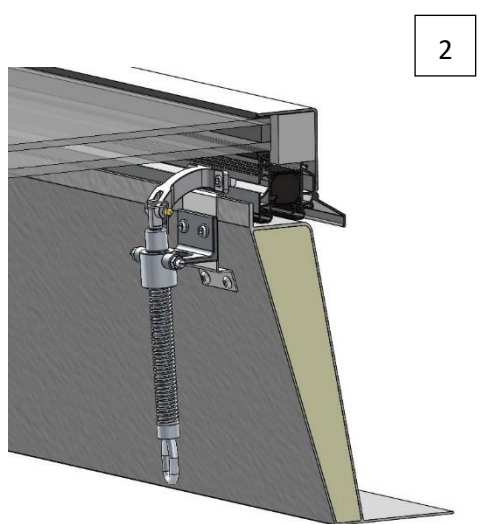


Opener (illustrated by FE element)



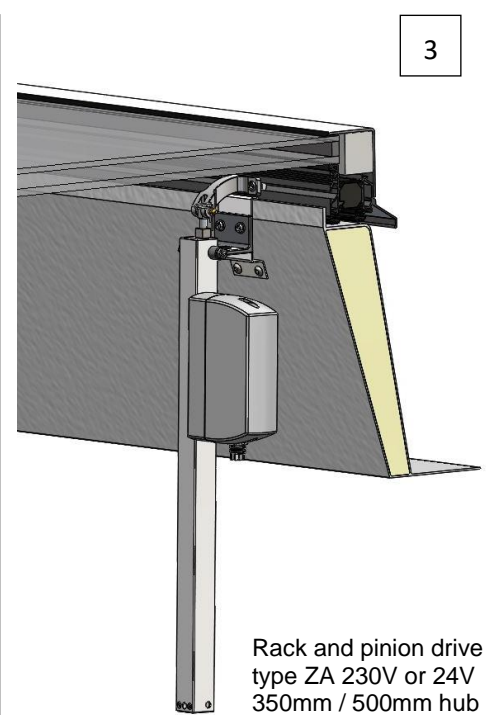
1

Spindle drive type JMBB
 230V
 300mm / 500mm hub



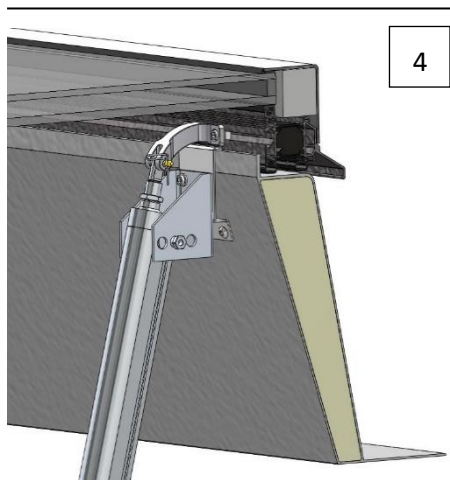
2

Hand spindle
 Manual control
 285mm hub



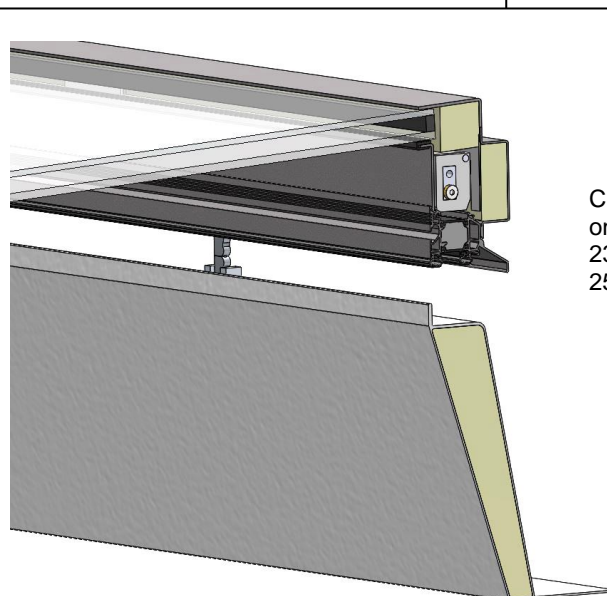
3

Rack and pinion drive
 type ZA 230V or 24V
 350mm / 500mm hub



4

Spindle drive type
 Jo65 / Jo100
 24V
 300mm / 500mm hub



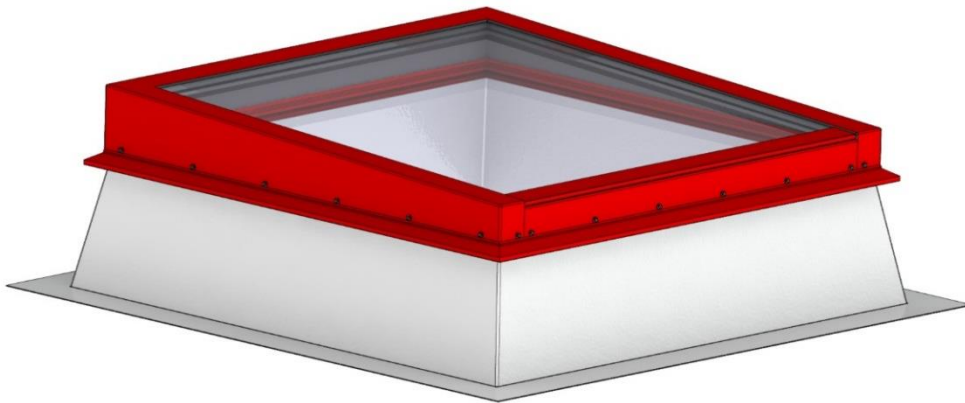
6

Chain drive (covert)
 only for FE 3°
 230V or 24V
 250mm hub

Basic Information

Optional Accessory

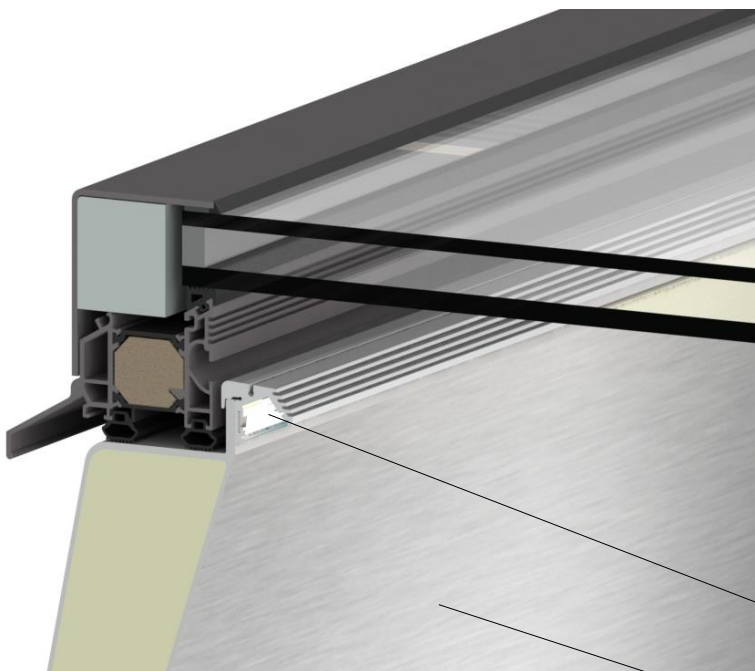
Coating for FE / FE3° / FP / FW



Standard colour RAL 9016 traffic white

The aluminium parts can be coated optionally with all RAL colours

Lighting for FE / FE3°



LAMILUX REFLECTIVE

- Increase of the light transmission of the daylight system up to 50% thanks to the protected principle of lining with highly reflecting aluminium reflector material
- Up to 33% saving for artificial light energy
- Interior look of high quality due to precious surfaces

LAMILUX PRISM LED

- Outstanding design with very narrow LED light strips
- Flicker-free light dimming
- Extremely low heat generation of the artificial light
- Very low energy consumption

LAMILUX LED strips – mounted on the upper point of the upstand

LAMILUX REFLECTIVE – coating on the inside of the upstand