



Glos DL SS

System for natural roof day light

I. Description

- A system of solutions for natural roof daylight
- Vertical sky light based on aluminum profiles and light transmitting element
- Daily ventilation
- Possible integration of ventilation elements and fans
- Natural smoke and heat ventilation systems



1.1.Integrity in

- All types of roof packages and constructions with a variety of additional elements

1.2. Function

- Natural daylight
- Natural ventilation
- Smoke and heat ventilation
- Cost saving
- Special solution with thermal break $-U_p=1.1W/m^2K$

1.3. Correspondence

Glos DL SS is in conformance with the following Directives and Standards.

General standarts		
1	EN 13501	Bs1d0
2	EN 15088	
3	EN 10142/ 90	
4	ISO 9001: 2008	



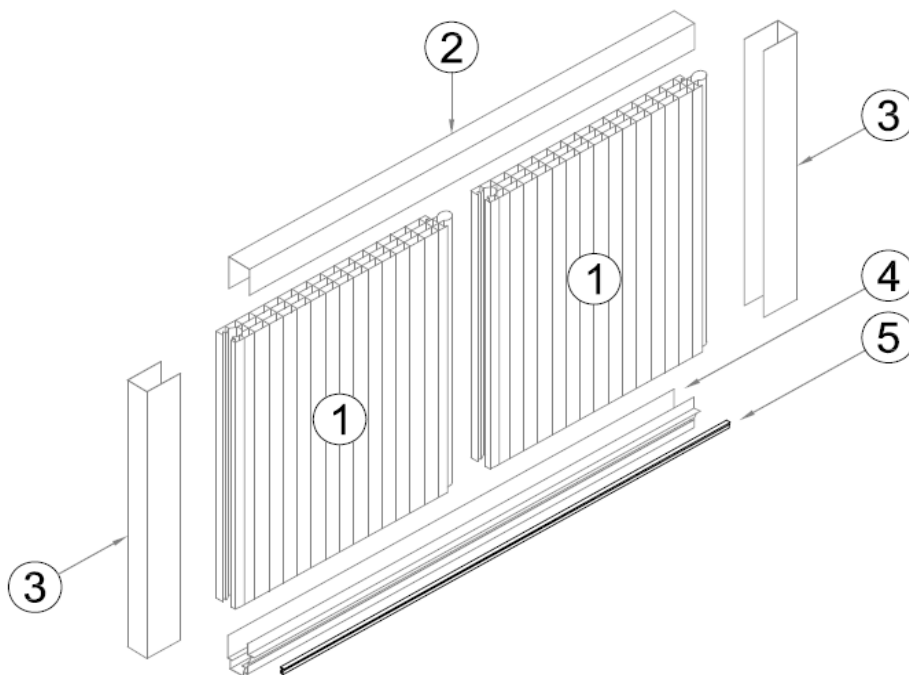
II. Components

Glos DL SS can be produced by different profile systems.

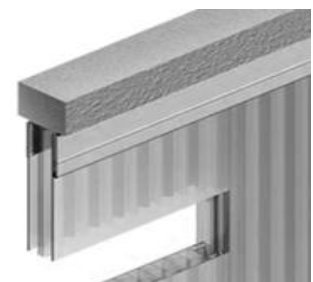
Sizes:

- Height - max 2500 mm
- Length - without limits

2.1. Systems



1. Multi – Wall Polycarbonate with UV protection
2. Top frame profile in aluminium
3. Side frame profile in aluminium
4. Bottom frame profile in aluminium
5. Gasket



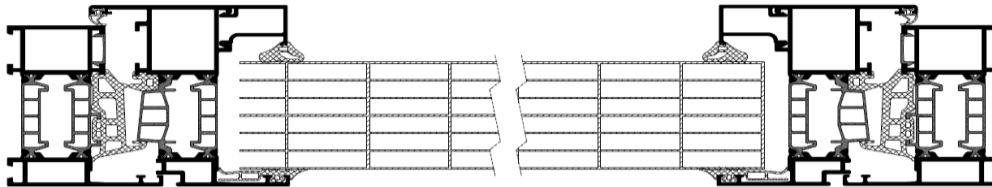


2.2. Horizontal section

- Without thermal break

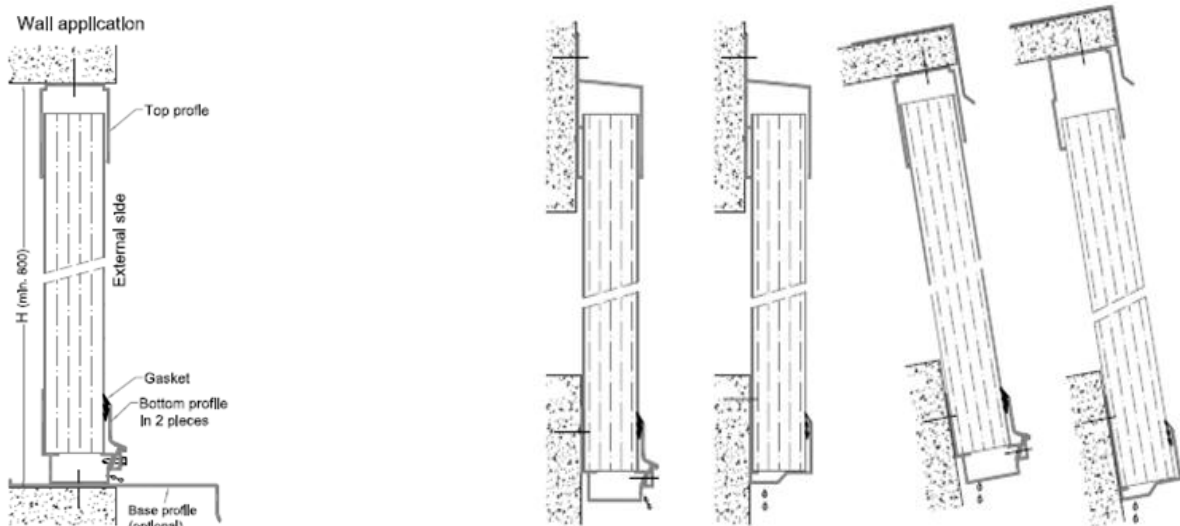


- With thermal break

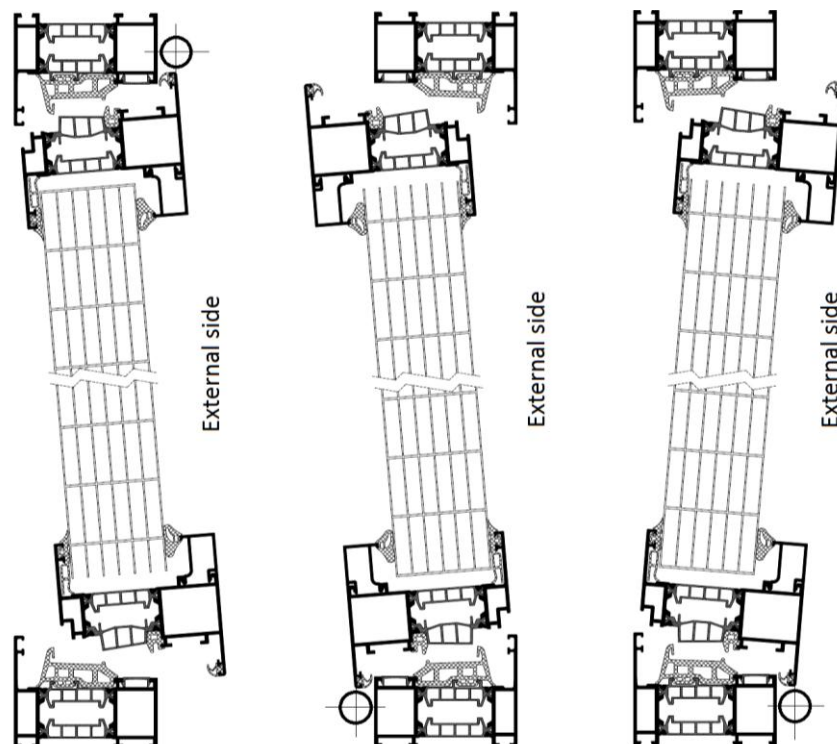


2.3. Vertical sections

- Without thermal break



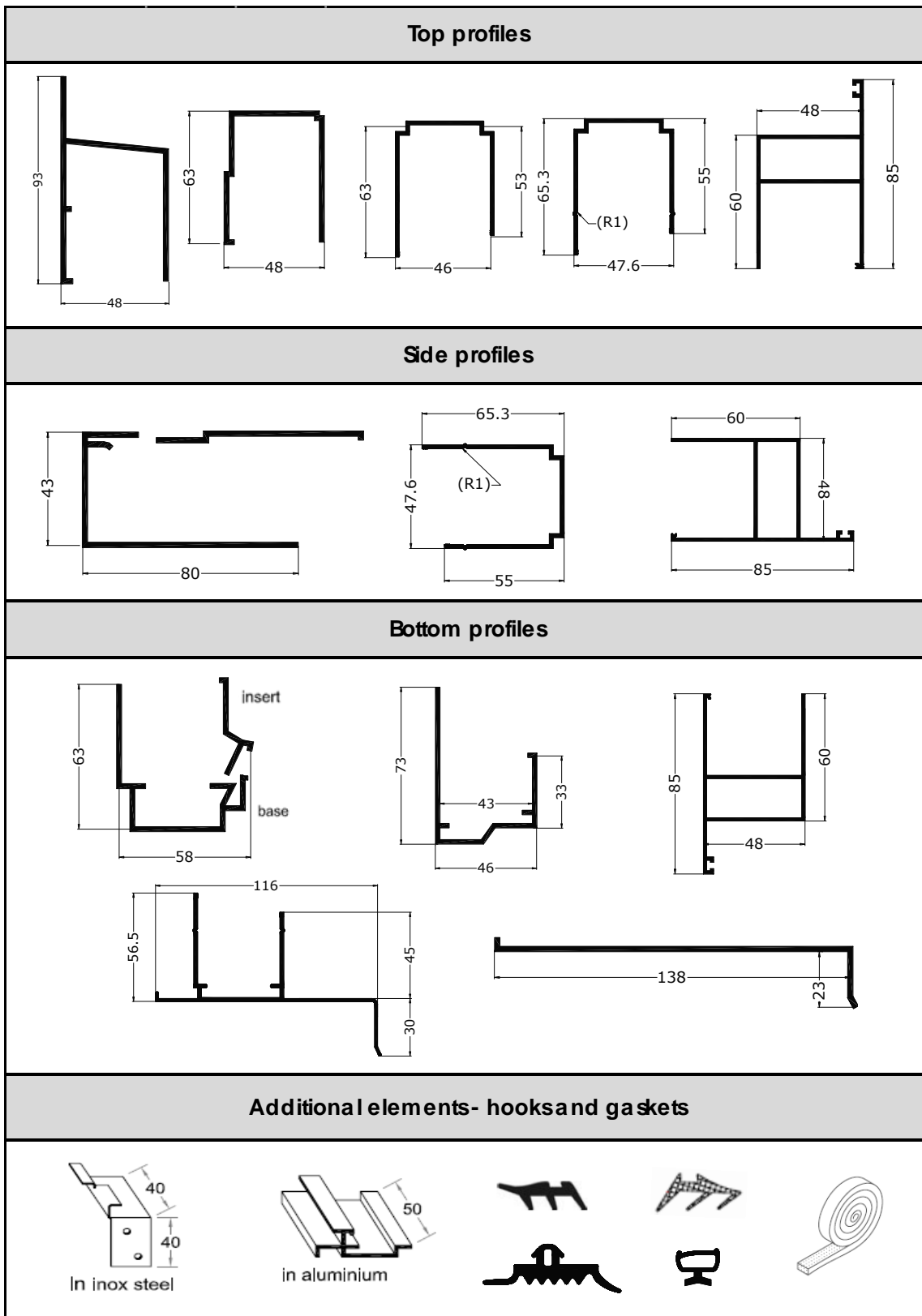
- With thermal break





2.4. Elements

- Without thermal break



Note: The gasket is optional.



- With thermal break

Casement and dividers	
1	<p style="text-align: center;">Sament 40</p>
2	<p style="text-align: center;">Sament 45</p>
3	<p style="text-align: center;">Sament 75</p>
Additional elements, joint corner brackets and gaskets	
4	<p style="text-align: center;">Sament 40, 45 and 75</p>

Note: The gasket is optional.



III. Filling types

3.1. Cellular polycarbonat – UV protected

No	Solution	View	Lt [%]	G value [%]	U value [W/ m ² .K]	Si [db]
1	PC 10mm		61	61	2,5	17
2	PC 16mm		54	55	2	18
3	PC 20mm		47	47	1,67	20
4	PC 25mm		40	42	1,3	18
5	PC 32mm		38	41	1,1	18
6	PC 40mm		35	38	1	19

3.2. Polycarbonate panels range – UV protected

No	Solution	View	Lt [%]	U value [W/ m ² .K]
1	16/ 500 honeycomb		60	1,99
2	20/ 500 honeycomb		54	1,81
3	25/ 500 honeycomb		51	1,65
4	40/ 500 4 walls		65	1,42
5	40/ 500 7 walls		54	1,08
6	50/ 500 7 walls		47	0,98



3.3. Package solutions

No	Solution	View
1	PC 10 + 10 m m	
2	PC 16 + 16 m m	
3	PC 10 + 20 m m	
4	Glasspackage 4+4m m/18m m	
5	Glasspackage 4+5m m/19m m	
6	Glasspackage 4+6m m/20m m	

No	Solution	View
7	Glasspackage 5+5m m/20m m	
8	Glasspackage 5+6m m/21m m	
9	Glasspackage 6+6m m/22m m	

Note: 1. Available package solution with reinforced inner layer for high placement

2. Spacers in glass packages may have different sizes 20x10mm, 20x20mm, 30x20mm

3. The parameters of the packages are subject to additional specification.



3.4. Special solutions

- Polycarbonate multiwall panels filed with aerogel.
- Aerogel -Translucent Granules that allow light to pass while serving as a highly effective thermal and acoustical insulation

3.5. Function upgrade elements

- With flaps
- With lamella fan
- With electric fan
- With louver
- With duct
- Antibird set
- Mosquito set
- Solar protection
- Integrate system for fresh air

IV. Technical parameters for Glos DL SS

- RWA function

Wind load	WL 50 – WL 100
Resistance to heat classification	B - s1, d0; -30 to +100 C°

Note: For more information, please contact your consultant.