



Glos DL BT

Arc sky light

I. Description

- A system of solutions for natural roof daylight.
- Possible integration of ventilation elements and fans.
- Providing natural ventilation, mechanical ventilation and smoke and heat ventilation of areas over which is installed.

1.1.Integrity in

- All types of roof packages and constructions with a variety of additional elements
- Installed on distance basement

1.2. Function

- Natural daylight
- Natural ventilation
- Smoke and heat ventilation

1.3. Correspondence

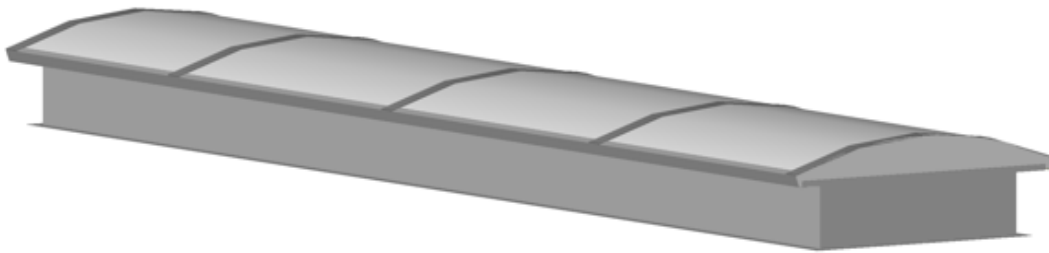
Glos DL BT is in accordance with the following Directives and Standards:

General standarts		
1	EN 13501	
2	EN 15088	
3	EN 10142/90	
4	ISO 9001: 2008	
Additional test and approvals		
5	EN 1873	2005 - J1200 Fires-MP-027-12 AUNE
6	EN 1026	2003 - SP - Pr.75
7	EN 10 077-1,2	SP - Pr.21

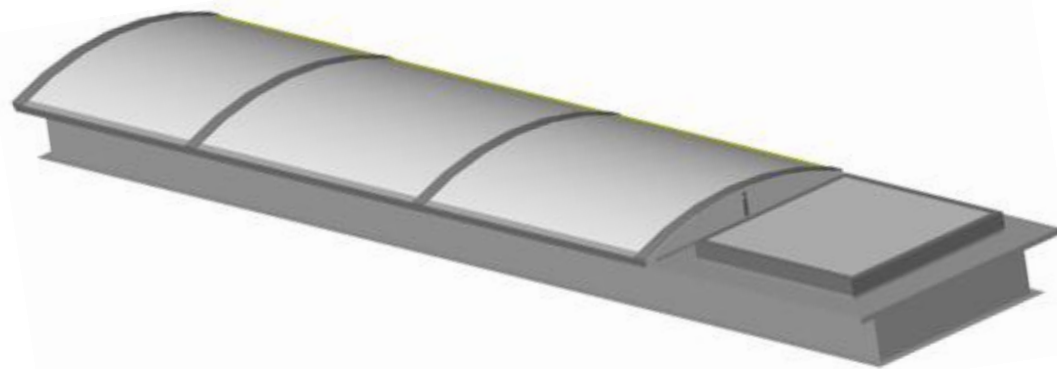


II. Type arc sky light

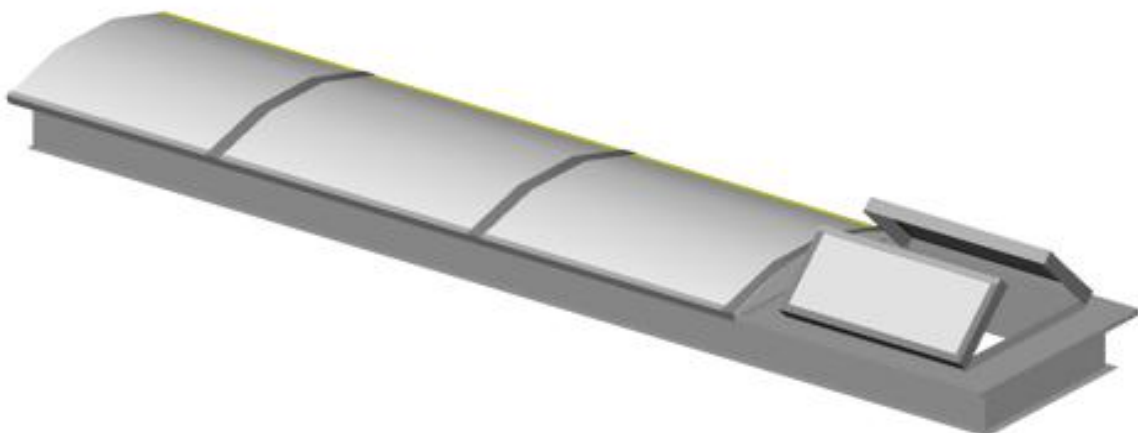
2.1.Fixed - not openable



2.2.With flaps - one-sided openable

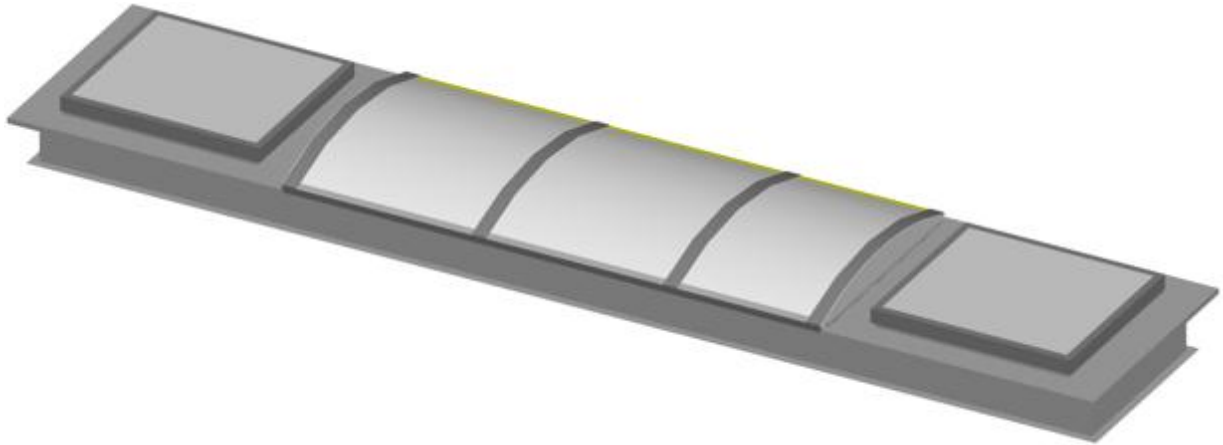


2.3. With flaps - bilateral openable

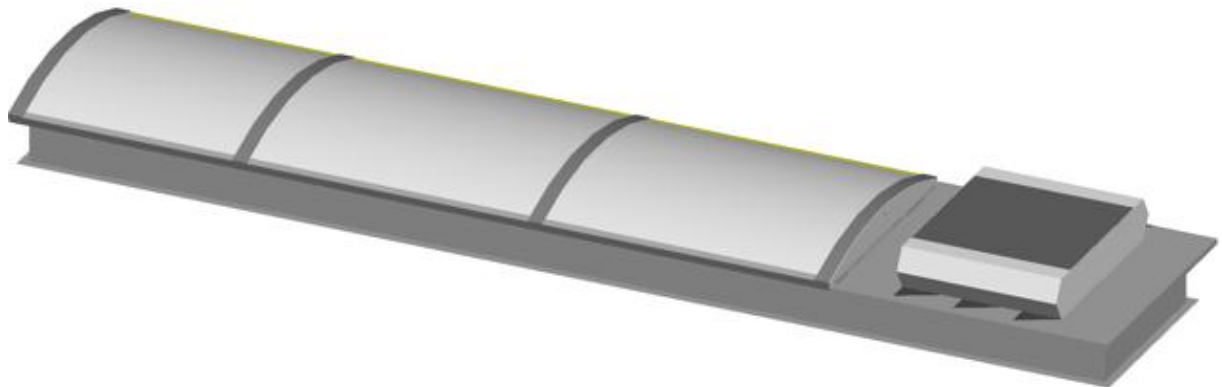




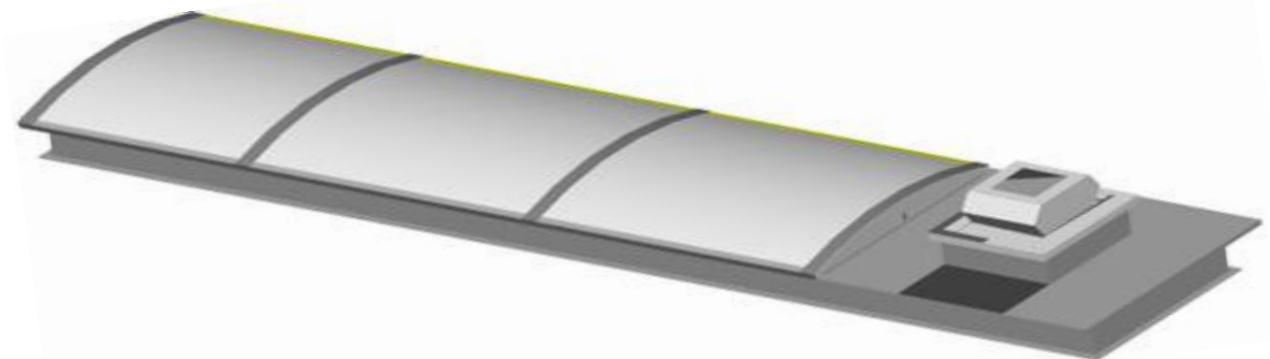
2.4. With two or more flaps



2.5. With lamella fan



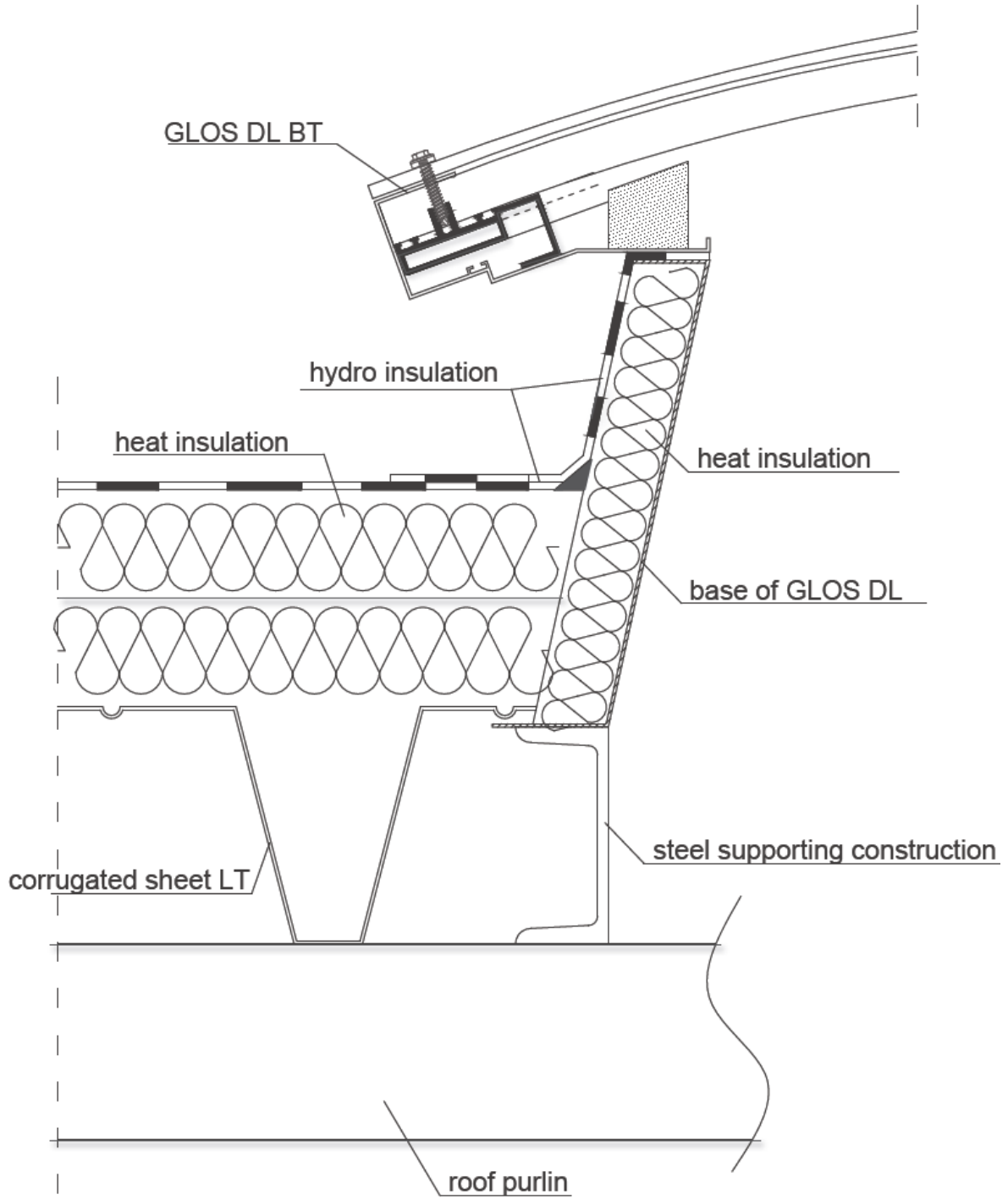
2.6. With electric fans





III. Components

Application 1





3.1. Basement

3.1.1. Types and sizes:

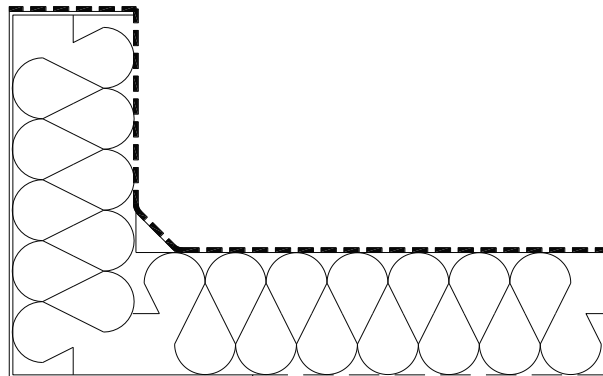
No	Type of materials	Thickness	Height	Coefficient of thermal transmission
1	Galvanized steel	1,2 mm	150	50mm mineral wool $U_g = 0,9W/m^2.K$
			200	
2	Stainless steel	1,5 mm	300	100mm mineral wool $U_g = 0,5W/m^2.K$
			450	
3	Thermo insulation	2,0 mm	500	

Sizes:

- Width - max 430mm
- Length - without limits

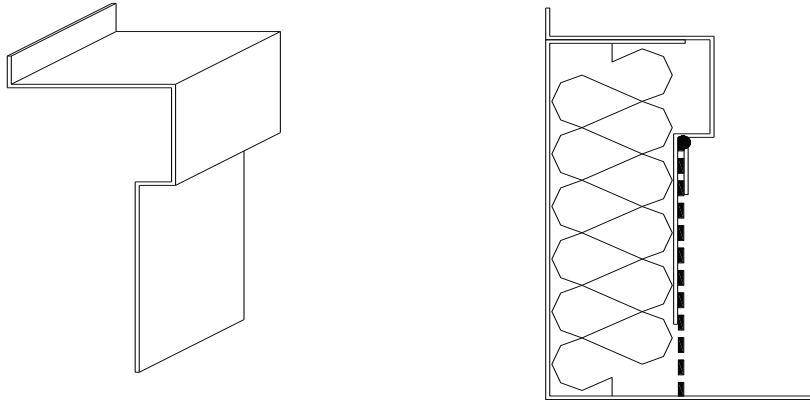
3.1.2. Joining elements

- **Type 1** – Without hydro insulation fitting

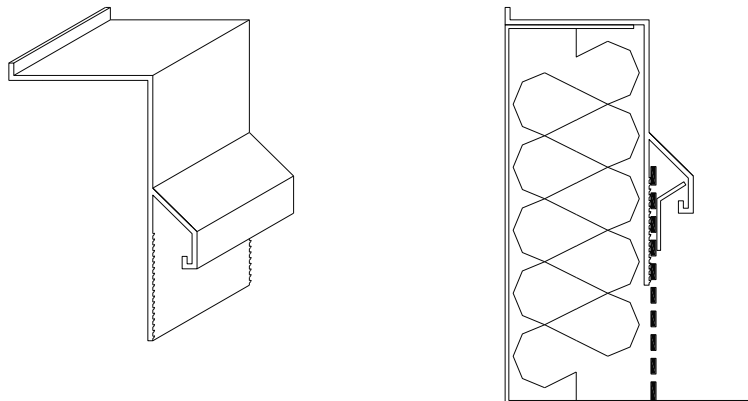




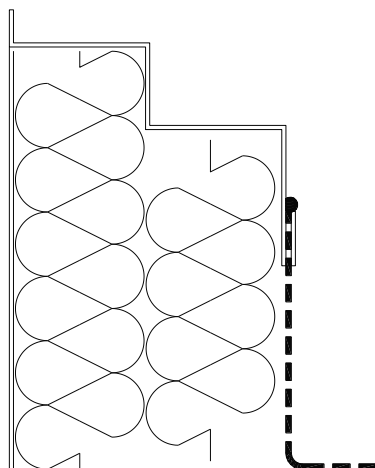
- **Type 2** – Hydro insulation fitting with PVC hydroinsulation



- **Type 3** – Hydro insulation fitting with PVC hydroinsulation

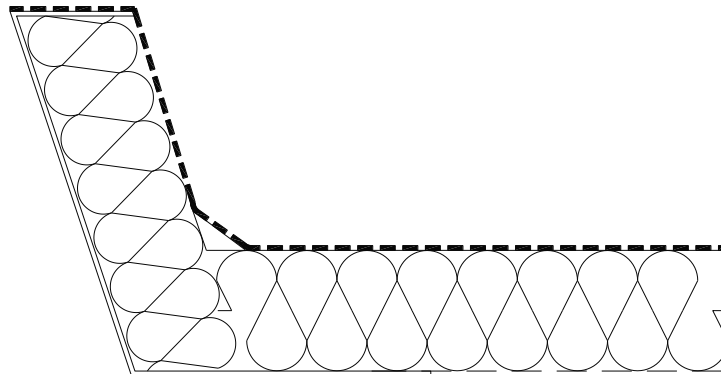


- **Type 4** – Thermal insulation forced

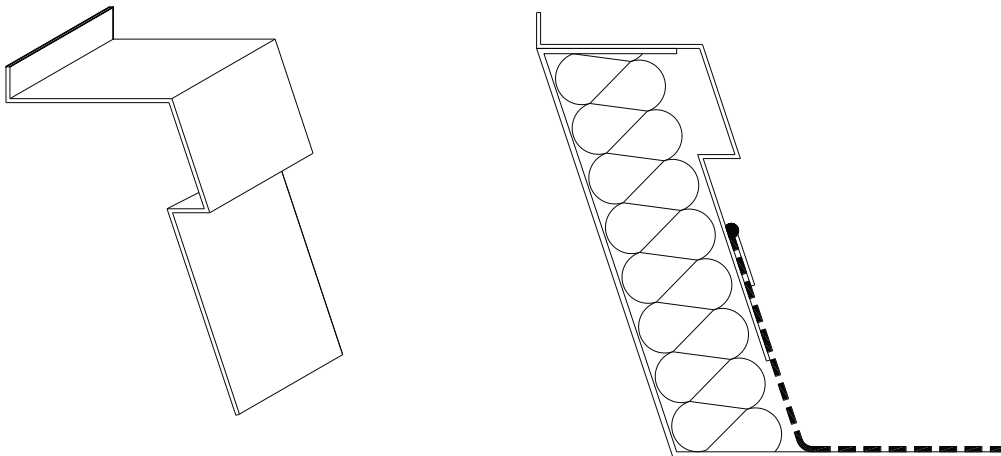




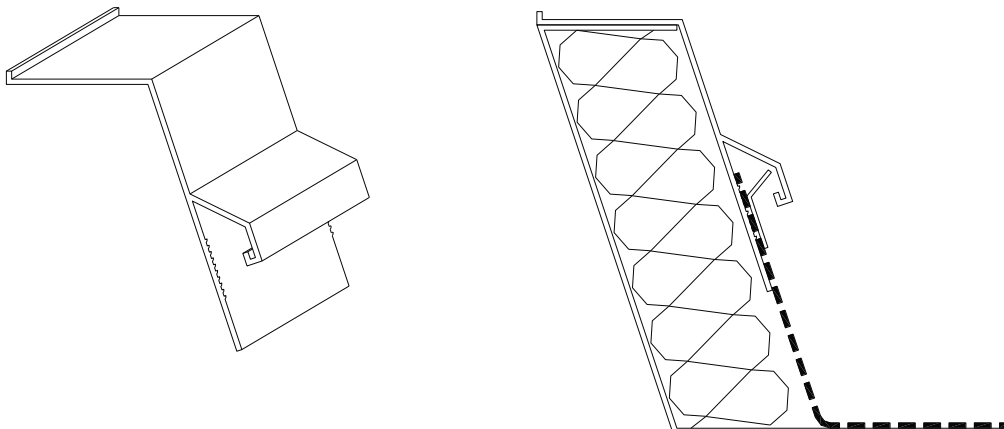
- **Type 5** – Without hydro insulation fitting



- **Type 6** – Hydro insulation fitting with PVC hydroinsulation

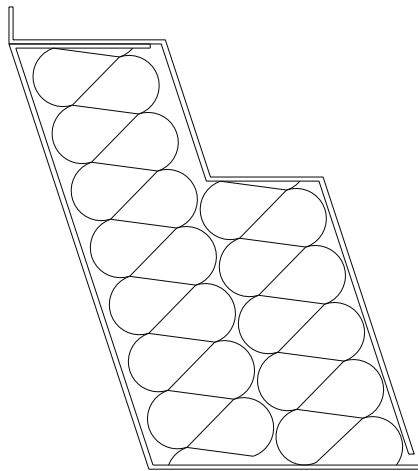


- **Type 7** – Hydro insulation fitting with PVC hydroinsulation





- **Type 7** – Thermal insulation forced



Note: Option for joining elements: powder coated, visible part(RAL).

3.2.Types upper parts

3.2.1. Cellular polycarbonate upper parts:

Application 2

Nº	Solution	View	Lt [%]	G value [%]	U value [W/ m ² .K]	Si [db]	S.L [kg/ m ²]	W.L [kg/ m ²]
1	Glos DL 10mm		6	61	2,5	17	75÷ 150	50÷ 100
2	Glos DL 16mm		54	55	2	18	100÷ 200	50÷ 100
3	Glos DL 20mm		47	47	1,67	20	100÷ 200	50÷ 100
4	Glos DL 25mm		40	42	1,3	22	100÷ 200	50÷ 100



3.2.2. Package solutions:

Application 3

No	Solution	View	Lt [%]	G value [%]	U value [W/m ² .K]	Si [db]	S.L [kg/m ²]	W.L [kg/m ²]
1	PC 10+4mm		52	52	2,2 - 2,0	21	70÷120	50÷100
2	PC 10+6mm		50	51	1,9 - 1,7	22		
3	PC 16+4mm		44	44	1,4 - 1,0	27		
4	PC 16+6mm		42	43	1,2 - 1,0	28		
5	PC 10mm + PMMA		73	61	2,7	24		
6	PC 16mm + PMMA		70	58	2,9	25		

3.3. Function upgrade elements for integrated domes

- Safety grid
- Burglar grid
- Insect and bird screen
- Belt connectors
- Sun protection elements – inside/outside
- Integration case
- Ventilated board



III. Technical parameters for Glos DL BT EXT GA

- RWA function

Snow load	SL 75 – SL 200
Wind load	WL 50 – WL 100
Resistance to heat classification	B - s1, d0; -30 to +100 C°

- Resistance of collapse

J 1200 impact of large and small body	EN 1873 2005 - FRESMP-024-12 AUNE
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- Air permeability

Class 2	EN ISO12 207 Air permeability
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- Coefficient of thermal transmission of entire unit

U value [W/ m².K]	1,32
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Note: For more information, please contact your consultant.