SAPA ROOF GLAZING 5050 ROOF AND SLOPED GLAZING WITH FREEDOM

OF DESIGN



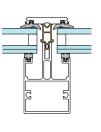
Sapa Roof Glazing 5050

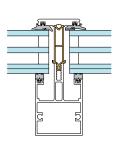
Sapa Roof Glazing 5050 can be used to create almost any shape of roof (single-pitch, saddle or cantilever). In static loading, glazed roofs can be built with large spans. Frame profiles and dividing profiles are 50 mm wide and contain a longitudinal insulator to maintain a low U-value. Horizontal, vertical and dividing profiles are available in a choice of depths. Rebate for double- or triple-glazed unit. External glazing beads are 7 mm high and ensure stability and good water run-off.

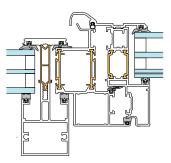
Sash and frame profiles are available for incorporating air and smoke vents. Roof glazing can easily be combined with facade systems 4150, 4150 SX and 5050 SG. Sapa Roof Glazing 5050 is also available as an uninsulated version with rebates for single glazing. 5050 gives exceptional freedom of expression and is easily combined with our facade systems.











Single-glazing

Double-glazing

Triple-glazing

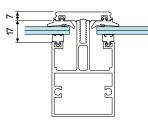


Insulated or uninsulated profiles. Profile width. 50 mm with external glazing bead. Vents for fresh air and smoke ventilation.

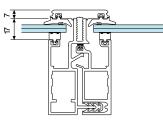


Vandalorum with roof glazing 5050, Värnamo, Sweden.

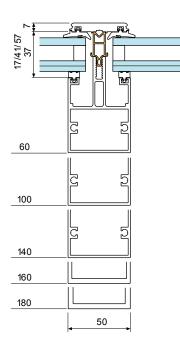
Sapa Roof Glazing 5050 Profiles and frame profiles



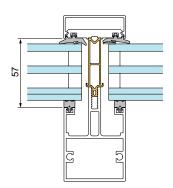
Frame profile, vertical single-glazed



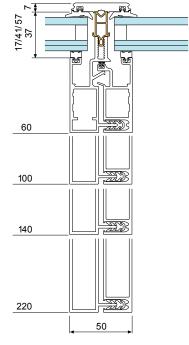
Dividing profile, vertical single-glazed



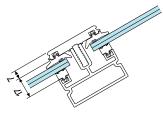
Frame profile, vertical, double-glazed unit



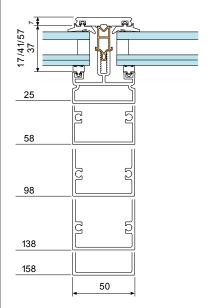
Triple-glazed alternative with vertical decorative profile



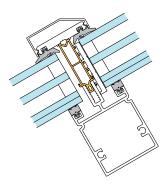
Dividing profile, vertical, double-glazed unit



Frame profile, horizontal single-glazed



Frame profile, horizontal, double-glazed unit



Triple-glazed alternative with horizontal decorative profiles, 45° or 60° bevel

U-values for roof glazing, pitch correction

When glazing is installed in a roof it gives a higher U-value than when it is installed vertically in a facade. The U-value at the centre of the glazing unit increases as follows:

	double-glazed	triple-glazed			
Pitch 15°	+ 0.4 W/m ² K	+ 0.3 W/m ² K			
Pitch 30°	+ 0.3 W/m ² K	+ 0.2 W/m ² K			
Pitch 45°	+ 0.2 W/m ² K	+ 0.1 W/m ² K			

Sapa Roof Glazing 5050

U-values glass*	double-glazed. Spacer: warm edge. U _a W/m²K (centre point)							
Profile share	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
10%	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.1
15%	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.2
U-values glass*	triple-glazed. Spacer: warm edge. U _g W/m²K (centre point)							
Profile share	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
10%	0.87	0.96	1.0	1.1	1.2	1.3	1.4	1.5
15%	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6

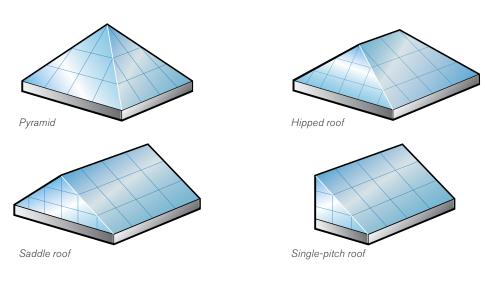
* Theoretical U-value calculation with allowance for glass, profile proportion and linear factors for edge zone effects according to EN 10077-1/2. Note that pitch corrections are not included in the table values.

Sapa Roof Glazing 5050

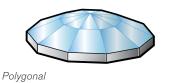
Sapa Roof Glazing 5050			
Glass thickness	Single-glazed 6–11 mm Glazing unit 24–35 mm		
Frame profiles	Rectangular, I profiles, T profiles, dividing profiles		
Frame profile depth	Vertical: 60–220 mm Horizontal: 25–158 mm		
Decorative profiles	Vertical: rectangular Horizontal: bevelled		
Vents	Smoke vents and fresh air vents are easily installed in roof glazing. Designed to be installed at the time of glazing. Vents are designed to fit in the glass rebate. This makes it easy to replace with a glazing unit or add more vents. Smoke venting complies with EN 12101-2		
Solar energy	Sapa Solar BIPV		
Watertightness, class	R7 according to EN 12154		
Airtightness, class A4 according to EN 12152			

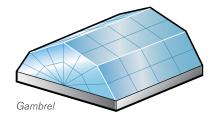
Easy installation simplifies the building process.

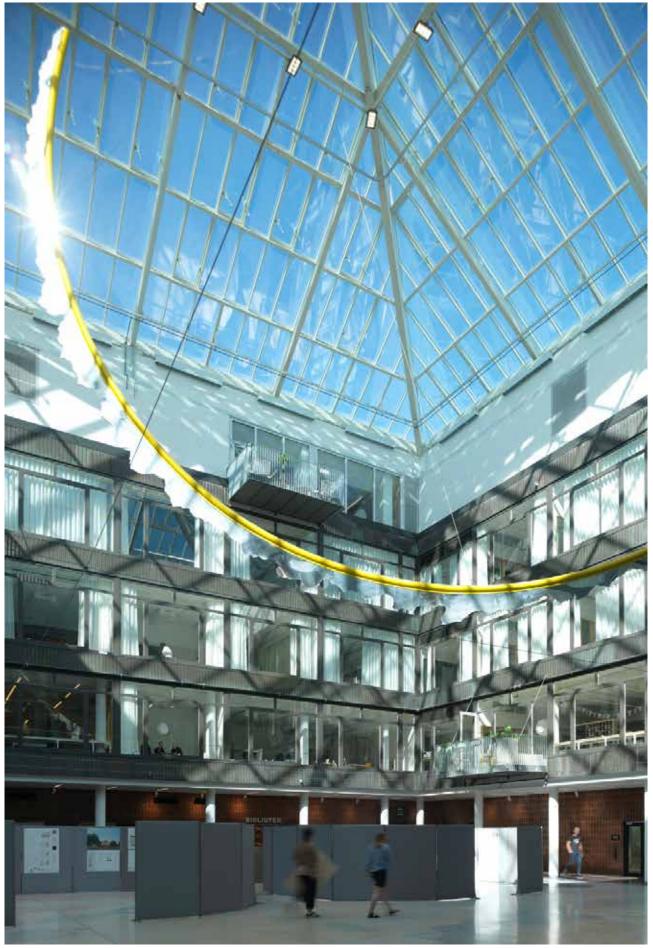
Sapa Roof Glazing 5050 shapes



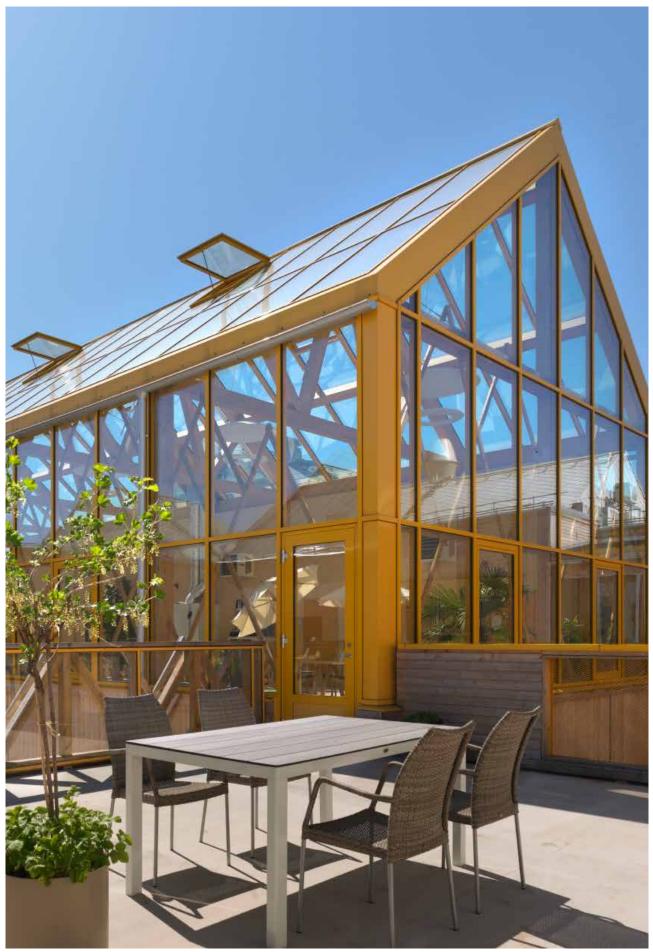
Project solution: Sapa Roof Glazing 5050 shapes





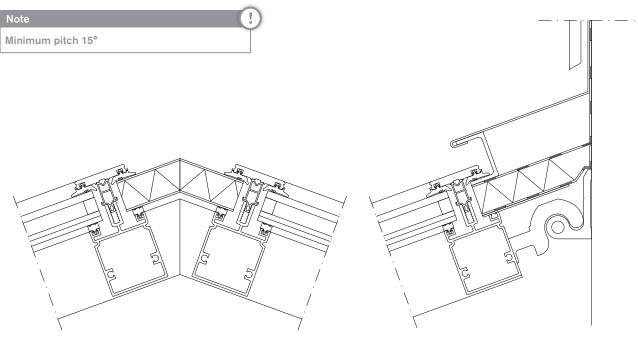


Chalmers University with roof glazing 5050, Gothenburg, Sweden.



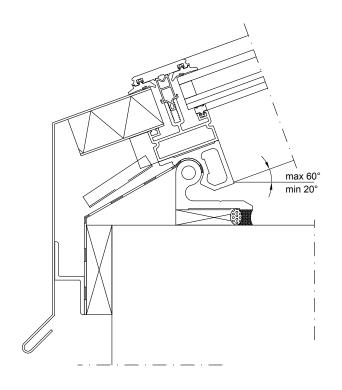
Chalmers University with roof glazing 5050, Gothenburg, Sweden.

Sapa Roof Glazing 5050 Details of connections/transitions

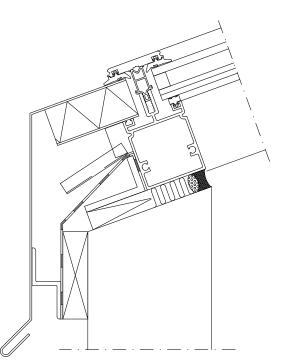


Ridge in saddle roof

Connection to wall at top edge of roof glazing

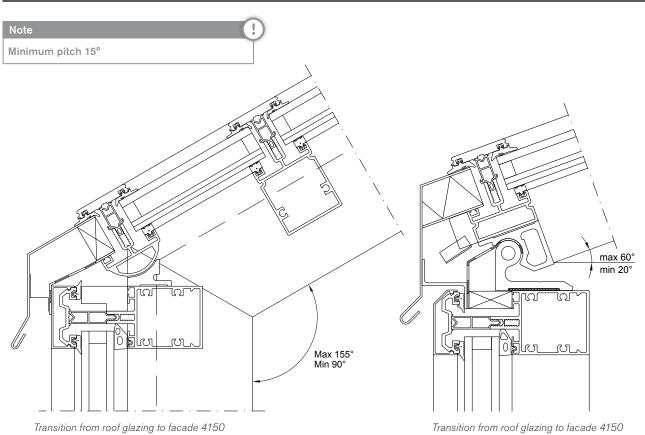


Connection to fascia at bottom edge of roof glazing

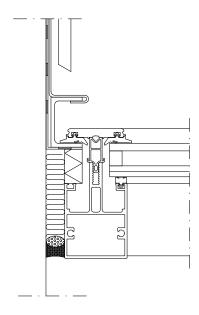


Connection to fascia at bottom edge of roof glazing





Sapa Roof Glazing 5050 Details of connections/transitions



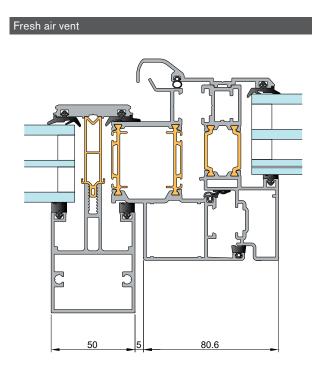
Connection between side of roof glazing and wall

Connection between side of roof glazing and facade

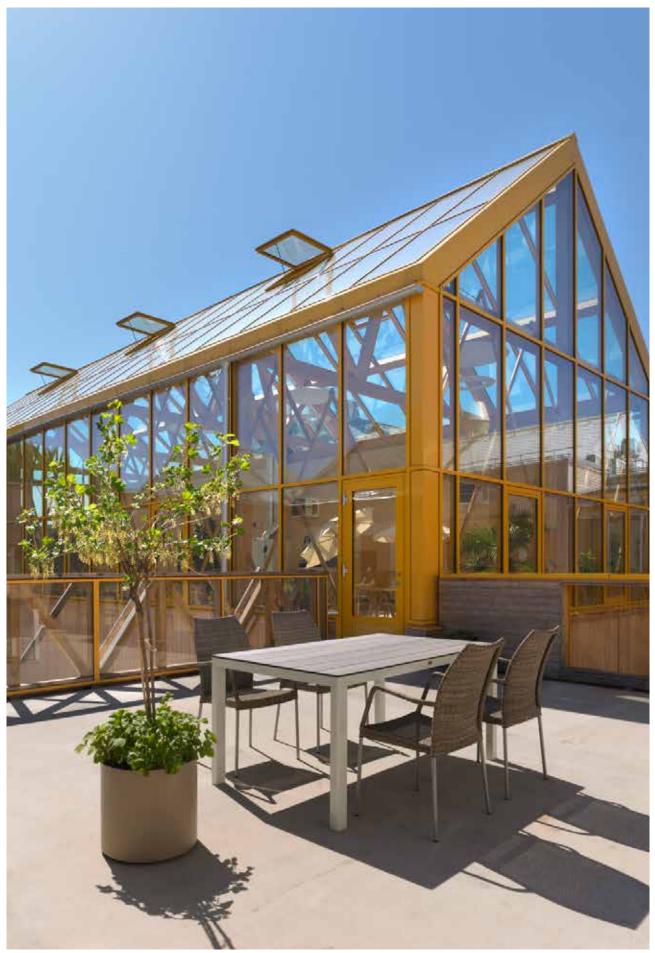
Roof and sloped glazing with freedom of design

A common method of providing fresh air and smoke ventilation is to fit top-hinged outward-opening roof vents. Bottom-hinged roof vents provide better ventilation, but must be closed quickly when it rains. Vents are opened and closed using window motors, chain or rack-and-pinion motors.

Fresh air and smoke ventilation vents are easy to install in roof glazing. Designed to be installed at the time of glazing. Vents are designed to fit in the glass rebate. This makes it easy to replace with a glazing unit or add more vents.



Triple-glazed fresh air vent. Smoke vents complying with EN 12101-2 only available in double-glazed variant.



Trädgårdarna with roof glazing 5050, Örebro, Sweden.



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Norway NO-2027 Kjeller

Denmark

Finland FI-02180 Espoo

Lithuania/Estonia/Latvia

Poland

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