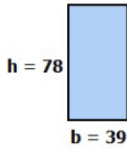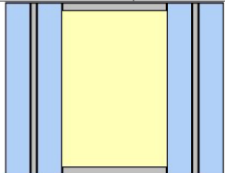**S**ommer **I**nformatik

Sommer Informatik

GLASGLOBAL® Schweiz

GLASGLOBAL® Switzerland is the expert software for the calculation of glazing according to Swiss standards.

With only a few inputs you get the static proof of your glazing according to the new version of SIA 2057.

Usage	Fall protection Category A1 Group 1A			
Geometry	**Vertical glazing**			
Installation	90,0°	**Width b**	39 mm	
Shape	Rectangle	**Height h**	78 mm	
Support	Four-sided			

Construction

Nr.	manufacturer	Description	Gas/ Composite layer	Thick ness
1	Glass outside	Sommer Informatik GmbH	2x(ANG4-0,76)	PVB	8,76
2	GD1	Aluminium (EN ISO 10077-2)	90% Argon	16,00
3	Glass inside	Sommer Informatik GmbH	2x(ANG4-0,76)	PVB	8,76

h = 78

b = 39

Dead load	Total weight		0,12 kg	**Wind load**			Manual input

cos(90,0°) = 0,00

	top / external	Middle	Bottom / Internal		Load outside	Load indoors
Dead load	0,20 kN/m²	-	0,20 kN/m²	Load case: Pressure	1,00 kN/m²	0,00 kN/m²
effective	0,00 kN/m²	-	0,00 kN/m²	Load case: Suction	-1,00 kN/m²	0,00 kN/m²

Climate Load

	GD1	GD2	isochorous pressure		Installation	Production	Load
Summer	19 K	-	-30 hPa	Load case min.	-	-	-4,80 kN/m²
Winter	-26 K	-	30 hPa	Load case max.	-	-	4,80 kN/m²
Load summer	9,46 kN/m²	-					
Load winter	-11,84 kN/m²	-					

Local heights

Line load

Load	0,80 kN/m	**Location above**	77 mm	Load on inner pane (Pressure)

Proof OK (max. utilization: 3,21 %)

proof of impact resistance is rendered according to DIN 18008-4, 6.2.2
Report Sustainability OK (max. utilization: 3 %, without lamination, Load case No. 4)
Report Usability OK (max. utilization: 0 %, without lamination, Load case No. 6)
max. Deflection = 0,00 mm (Load case without lamination, No. 6) -> max. chord shortening 0,00 mm
Proof broken: SIA 2057, table 9: No additional verification required (NB0)

Acknowledged Results
Automated calculation
Intuitive operation
Quality assured
Customizable
User-Friendly

Software for Experts

Features/Functions:

▶ Fall-proof glazing with proof of impact resistance

▶ Snow load module with zip code list for Switzerland

▶ Symmetrical and asymmetrical VSG

▶ Membrane stress effect for non-linear load-bearing behavior

▶ Consideration of shear bond for VSG

▶ Optimization of glass thicknesses (proposal module and size matrix)

▶ Load case breakage

▶ Exceptional load case for avalanche pressure

▶ Maximum edge load in edge bond of insulating glazing

▶ Maximum chord shortening

▶ Interface to ERP systems