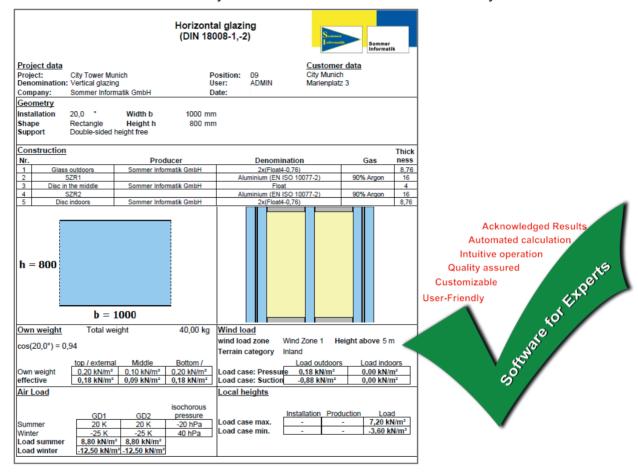# GLASGLOBAL®
Structural analysis regarding to DIN 18008 part 1-6

Sommer Informatik

GLASGLOBAL® is the software to calculate the structural analysis for glass regarding to German standard DIN 18008 part 1 – 6. Exact results can be achieved in less time due to our high-performance calculating engine and the Finite-Element-Method. The loads regarding to European standard EN 1991-1 are preset in GLASGLOBAL®. This makes the software easy to handle and allows an intuitive entry of values.

Horizontal glazing (DIN 18008-1,-2) — calculation report

Project data
Project: City Tower Munich
Denomination: Vertical glazing
Company: Sommer Informatik GmbH
Position: 09
User: ADMIN
Date:

Customer data
City Munich
Marienplatz 3

Geometry
Installation: 20,0 °   Width b: 1000 mm
Shape: Rectangle   Height h: 800 mm
Support: Double-sided height free

Construction

Nr.		Producer	Denomination	Gas	Thickness
1	Glass outdoors	Sommer Informatik GmbH	2x(Float4-0,76)		8,76
2	SZR1		Aluminium (EN ISO 10077-2)	90% Argon	16
3	Disc in the middle	Sommer Informatik GmbH	Float		4
4	SZR2		Aluminium (EN ISO 10077-2)	90% Argon	16
5	Disc indoors	Sommer Informatik GmbH	2x(Float4-0,76)		8,76

h = 800   b = 1000

Own weight   Total weight   40,00 kg
cos(20,0°) = 0,94

	top / external	Middle	Bottom /
Own weight	0,20 kN/m²	0,10 kN/m²	0,20 kN/m²
effective	0,18 kN/m²	0,09 kN/m²	0,18 kN/m²

Air Load

	GD1	GD2	isochorous pressure
Summer	20 K	20 K	-20 hPa
Winter	-25 K	-25 K	40 hPa
Load summer	8,80 kN/m²	8,80 kN/m²	
Load winter	-12,50 kN/m²	-12,50 kN/m²	

Wind load
wind load zone   Wind Zone 1   Height above 5 m
Terrain category   Inland

	Load outdoors	Load indoors
Load case: Pressure	0,18 kN/m²	0,00 kN/m²
Load case: Suction	-0,88 kN/m²	0,00 kN/m²

Local heights

	Installation	Production	Load
Load case max.	-	-	7,20 kN/m²
Load case min.	-	-	-3,60 kN/m²

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

Performance features and functions:

- Calculate horizontal, vertical, barrier/fall proof, point fixed, walk-on glazings and accessible glazing in case of maintenance procedures and for fall-through glazing
- Local altitudes and wind/snow loads can be determined by the postcode
- Recommendation and optimization of glass thickness
- Consideration of the shear modulus in laminated safety glass
- Symmetric and asymmetric laminated safety glass up to eight panes
- Proof of the loads on edge compound
- Determination of chord shortening
- Compatible with WinSLT® for calculating solar radiation, g- and U-values