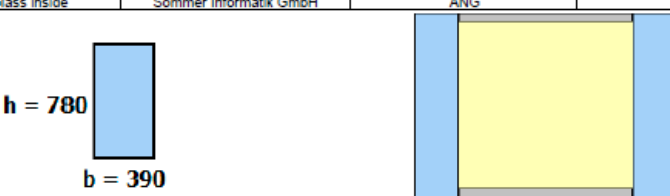


GLASGLOBAL® DIN 18008

GLASGLOBAL® DIN 18008 is the expert software for the calculation of glazing according to German standard.

With just a few entries, you can obtain the structural analysis of your glazing for all parts of DIN 18008 (Parts 1 to 6).

Geometry					
Installation	90,0°	Width b	390 mm	Support	Four-sided
Shape	Rectangle	Height h	780 mm		
Construction					
Glass thickness for proof: Minimum thickness					
Nr.	Glass	manufacturer	Description	Gas/ Composite layer	Thick ness
1	Glass outside	Sommer Informatik GmbH	ANG		4,00
2	GD1		Aluminium (EN ISO 10077-2)	90% Argon	18,00
3	Glass inside	Sommer Informatik GmbH	ANG		4,00
					
Dead load					
Total weight		6,08 kg		cos(90,0°) = 0,00	
	top / external	Middle	Bottom / Internal		
Dead load	0,10 kN/m²	-	0,10 kN/m²	ASTM E1300, Table X4.1:	Load Duration 3 s
effective	0,00 kN/m²	-	0,00 kN/m²	> 1 year -> 3 s	Temperature 50°C
Factorized	0,00 kN/m²	-	0,00 kN/m²	Factor = 1/0,31 = 3,23	
Wind load					
	1,00 kN/m²			Load Duration	3 s
Factorized	1,00 kN/m²	Manual input		Temperature	50°C
Line load					
	1,00 kN/m	Location above FFL 779 mm		ASTM E1300, Table X4.1:	Load Duration 3 s
Factorized	1,56 kN/m	Load on outer pane (Pressure)		80 min -> 3 s	Temperature 50°C
				Factor = 1/0,64 = 1,56	
Point load					
	0,00 kN	x = 195 y = 390		ASTM E1300, Table X4.1:	Load Duration 3 s
Factorized	0,00 kN	contact area 50 x 50 mm		80 min -> 3 s	Temperature 50°C
				Factor = 1/0,64 = 1,56	
Proof OK (2,33 N/mm² < 23,30 N/mm²)					
max. Load case Stress: outside, Nr. 2: Weight (1,00), Wind pressure (0,00)					
max. Deflection = 0,31 mm (Load case Nr. 5) -> max. chord shortening 0,00 mm					
Stress: 2,33 N/mm² (calculated); 23,30 N/mm² (permissible)					

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

Software for Experts

Features/Functions:

- ▶ Old (2010-12) and new version (2020-05) of DIN 18008-2
- ▶ Glazing to protect against falls with mathematical proof of impact resistance according to DIN 18008-4, Annex C.2
- ▶ FEM core for calculation of point and clamp supports
- ▶ Walk-on and walkable glazing according to DIN 18008-5 and -6
- ▶ Wind and snow load module with zip code list for Germany
- ▶ 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 of the upper pane with horizontal glazing
- ▶ Maximum chord shortening and edge load in the edge seal of insulating glazing