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1. Facade Information

Profile system:
Facade major mullion:
Major mullion weight:
Facade minor mullion:
Minor mullion weight:
Facade transom:
Transom weight:

Insulating glass

Block distance:

Glass ID Weight Makeup



Project Name:

Location:

Date:

By:



2. Applied Load

Peak velocity pressure(q_p)	kN/m²			
Pressure coefficient (c_p)	c_{pe}		C _{pi+}	C _{pi-}
Horizontal live load (q_H)	kN/m	Horizontal	live load he	eight mm
Dead load	Glass density 2500 kg/m³	Aluminum o 2700 kg/m³	density	Steel density 7800 kg/m ³
Load factors	Wind load	Horizontal li	ive load	Dead load
	$\gamma_{W} =$	$\gamma_H =$		$\gamma_g =$
Load combinations				
Ultimate Limit States (ULS)	Load combination 1 (LC1) γ _W *W	γ_W *Wind load + 0.7* γ_H *Live load	
	Load combination 2 (LC2) 0.6*γ _\	_N *Wind load	d + γ _H *Live load
	Load combination 3 (LC3) γ_g *De	ad load	
Serviceability Limit States (SLS)	Load combination 4 (L	.C4) Wind	load	
	Load combination 5 (L	.C5) Dead	load	

3. Codes and Specifications

- [1] DIN EN 1991-1-1, Actions on structures Part 1-1: General actions Densities, self-weight, imposed loads for buildings, 2010-12.
- [2] DIN EN 1991-1-1, National Annex Nationally determined parameters, Actions on structures Part 1-1: General actions Densities, self-weight, imposed loads for buildings, 2010-12.
- [3] DIN EN 1991-1-4, Actions on structures Part 1-4: General actions Wind actions, 2010-12.
- [4] DIN EN 1991-1-4, National Annex Actions on structures Part 1-4: General actions Wind actions, 2010-12.
- [5] DIN EN 1999-1-1, Design of aluminum structures Part 1-1 General structural rules, 2014-03.[6]

4. Allowable Deflection

In Out-of-Plane (horizontal) direction, allowable deflection follows

In In-Plane (vertical) direction, allowable deflection is

5. Materials

iviateriais	Young's modulus (<i>E</i>)	Poisson's ratio (<i>u</i>)	0.2% apparent limit of elasticity ($\beta_{0.2}$)	Partial ratio for material (γ_M)	
Extrusion	70 GPa	0.33		1.1	
Reinforcement (Aluminum)	70 GPa	0.33		1.1	
Reinforcement (Steel)	210 GPa	0.30		1.1	

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SC	HU	

Project Name: Date:

Location: By: