

1. Facade Information

Profile System:

Vertical frame:

Vertical frame weight:

Top frame:

Top frame weight:

Bottom frame:

Bottom frame weight:

Vertical glazing bar:

Vertical glazing bar weight:

Horizontal glazing bar:

Horizontal glazing bar weight:

Block distance:

Glass ID Weight Makeup

2. Applied Load

Peak velocity pressure (q_p) : kN/m^2 Horizontal live load (q_H) : kN/mHorizontal live load height: mm

3. Materials

Young's modulus Poisson's ratio 0.2% apparent limit of Partial ratio for (E) (v) of elasticity $(\beta_{0.2})$ material (γ_M) 70 GPa 0.33 1.1

4. Allowable Deflection

In out-of-plane direction (horizontal), allowable deflection follows

In in-plane direction (vertical), allowable deflection is



Project Name: Date:

Location: By:



5. Results

Vertical Members Load and Reaction

Member ID	Tributary	Pressure coefficient (c _p)	Applied wind load (kN/m²)	Out-of-Plar	Out-of-Plane Reaction force (kN) (unfavorable load combination)					
	area (m²)			A_k	A_d	B_k	B _d			

Vertical Members Section and Deflection Check

	0	Wx (cm³)		Ix (cm ⁴)		Out-of-plane deflection (mm)		
Member ID	Status	Available	Required	Available	Required	Existing	Allowable	

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Project Name:

Date:

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5. Results

Horizontal Members Load and Reaction

Member ID	Tributary	Pressure	Applied wind load (kN/m²)	Reaction force (kN) (unfavorable load combination)					
Member ID	area (m²)	coefficient (c _p)		Out-	of-plane		In-pla	ne	
				A _{k_out} A _{d_ou}	t B _{k_out} B _{d_out}	$A_{k_{}in}$	A_{d_in}	B_{k_in}	B _{d_in}

Horizontal Members Section and Deflection Check

Profile extrusion											Deflect	tion (n	nm)		
ID	Status	Wx (c	√x (cm³)		cm ⁴)	Wy (cm³)		ly (cm ⁴)		σ_{total} (N/mm ²)		Horizontal		Vertical	
		Avail.	Req.	Avail.	Req.	Avail.	Req.	Avail.	Req.	Avail.	Req.	δ_{h}	$\delta_{\text{h-allow}}$	δ_{v}	$\delta_{\text{v-allow}}$

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Project Name:

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By: