6. Result

6.	Result for Structura	Article			
	Length	cm	\lambda_{-20}	I_{γ}	cm ⁴
	Depth	cm	λ_{20}	1,	cm ⁴
	Weight	N/m	λ80	I_s	cm ⁴
	Tributary area	m^2	C_p	I_{ν}	cm ⁴
	Wind load	kN/m²		V	

External load



Project Name:

Location:

Date:

By:



schüco	Project Name:	Date:	
	δ_h ——		δ _ν
Horizontal Deflection from	n Wind Load (mm) Ambient	Vertical Deflection (mm)	
	Τ _ν		Τ, ——
Thermal Isolator Shear Flow	v (N/mm) from Wind Lo	oad (and Horizontal Live Load) SLS)	Winter
	σ_{oo} σ_{ou} σ_{uo} σ_{uu}		σ_{oo} σ_{ou} σ_{uo} σ_{uu}
Metal Profile Normal Stress	ses (N/mm²) from Wind Summer	Load (and Horizontal Live Load) (SLS)	Winter
	M. —— M. —— M. ——		M M M
Bending Moment (kN·cm) 1	from Wind Load (and H	orizontal Live Load) (SLS)	Winter

Location:

By:



Peak moments (SLS)

Out-of-plane (kN cm)

In-plane (kN cm)

_										
		Sumn	ner			Wir	Λ./Ι	M		
_	M_{omax}	M_{umax}	M_{vmax}	M_{temp}	M _{omax}	M_{umax}	M_{vmax}	M_{temp}	$M_{\scriptscriptstyle omax}$	IVI _{umax}
Wind load										
Live load										
Thermal load										
Dead load										

Peak stresses

Out-of-plane

In-plane

_			Sumn	ner		Winter						
_	Aluminum (<i>N/mm</i> ²)			Isolator (<i>N/mm</i>)	Aluminum (<i>N/mm</i> ²)				Isolator (<i>N/mm</i>)	Aluminum (<i>N/mm</i> ²)		
	σ ₀₀	σ_{ou}	σ_{uo}	σ _{ии}	T_{ν}	σ ₀₀	σ_{ou}	σ_{uo}	σ_{uu}	T_{ν}	σ_o	σ_u
Wind load												
Live load												
Thermal load												
Dead load												
LC1												
LC2												
LC3												

$$\sigma_{max}/\beta_{0.2} = max(max(\sigma_{oo}, \sigma_{ou}) + \sigma_{o}, max(\sigma_{uo}, \sigma_{uu}) + \sigma_{u})/\beta_{0.2}$$
=

$$T_{max} / (R^{S}/A_{2}) = \begin{cases} Summer \\ Winter \end{cases}$$

$$20 / R^{T} = \begin{cases} Summer \\ Winter \end{cases}$$

Maximum deflection

Horizontal (Wind load at ambient temperature)

 $\delta_h =$

$$\delta_{h_allow} =$$

$$\delta_v$$
=

 $\delta_h / \delta_{h_allow} =$

$$\delta_{v_allow} =$$

$$\delta_{\scriptscriptstyle V}$$
 / $\delta_{\scriptscriptstyle V_allow}$ =

$$1.1(T_{vw}+T_{vt})/(R^{s}/A2) = \begin{cases} Summer \\ Winter \end{cases}$$



Project Name:

Date:

Location:

By: