6. Result

6.   Result for Structural Member

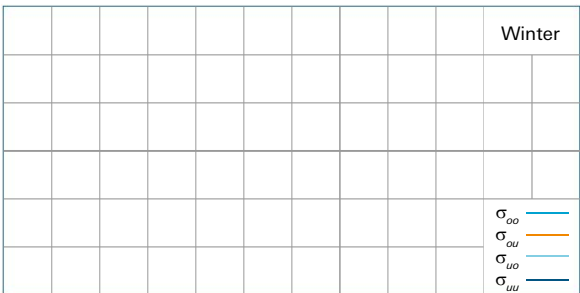|				
Article		**Length**		cm
Depth	cm	**Weight**		N/m
I_l	cm^4	I_y		cm^4
I_s	cm^4	λ_{-20}		
I_v	cm^4	λ_{20}		
v		λ_{80}		
Tributary Area	m^2	C_{pe}		

External load

Bending Moment M_o/ M_u/ M_v (kN·cm)

			Summer
			M_o ——— M_v ——— M_u ———

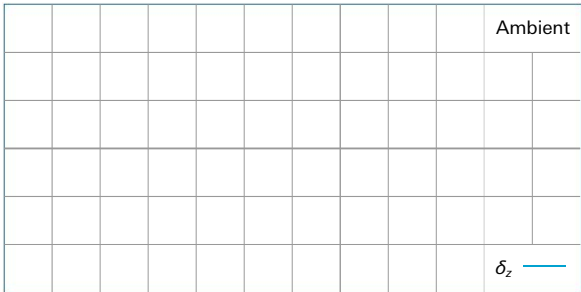|			Winter
			M_o ——— M_v ——— M_u ———
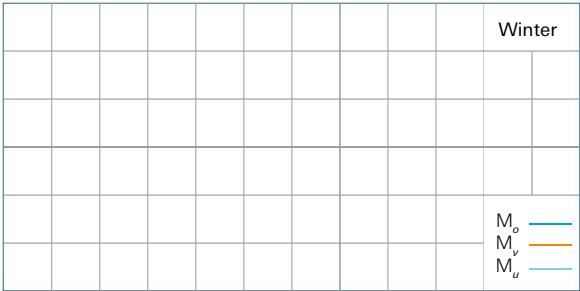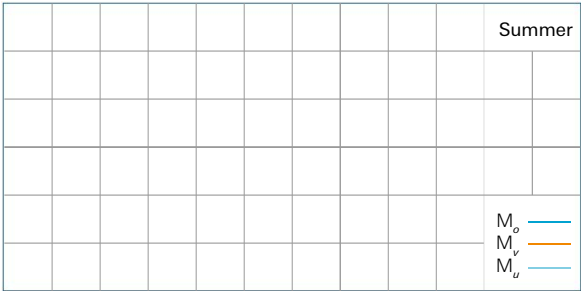
Metal Profile Normal Stresses σ_{oo}/ σ_{ou}/ σ_{uo}/ σ_{uu} (N/mm^2)

			Summer
			σ_{oo} ——— σ_{ou} ——— σ_{uo} ——— σ_{uu} ———

			Winter
			σ_{oo} ——— σ_{ou} ——— σ_{uo} ——— σ_{uu} ———
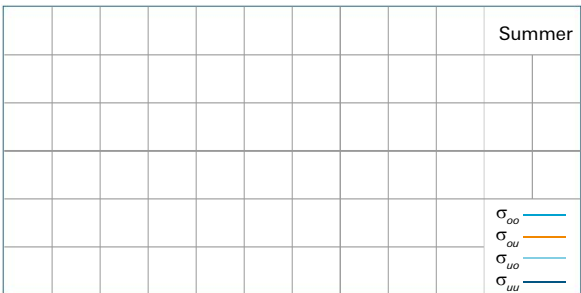
Thermal Isolator Shear Flow T_v (N/mm)
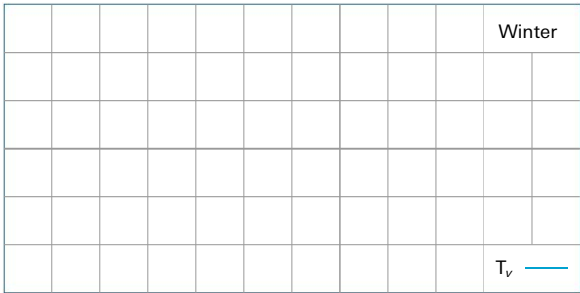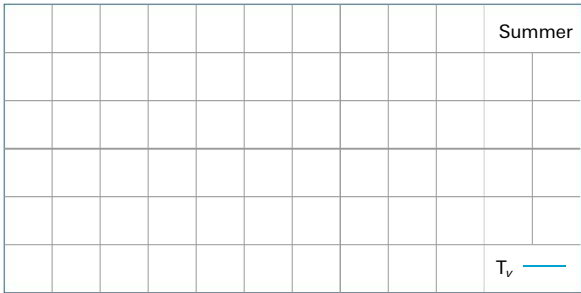
			Summer
			T_v ———

			Winter
			T_v ———

Out-of-Plane Deflection (mm)

			Ambient
			δ_z ———

In-Plane Deflection (mm)

			δ_y ———
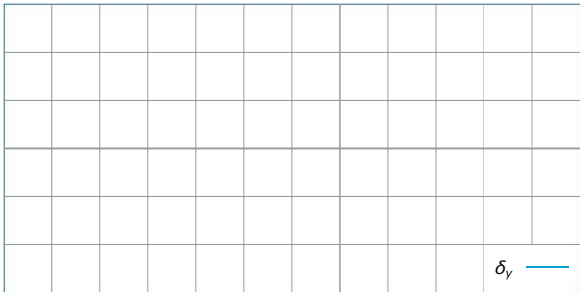
*Note: the curves shown above are caused by wind load and horizontal live load.

SCHÜCO

Project Name: **Date:**

Location: **By:**

Peak moments

		kN·cm			
		M_{omax}	M_{umax}	M_{vmax}	M_{temp}
Summer	*Wind + Live load*				--
	Thermal	--	--	--	
Winter	*Wind+ Live load*				--
	Thermal	--	--	--	

Peak stresses

		N/mm^2				N/mm
		σ_{oo}	σ_{ou}	σ_{uo}	σ_{uu}	T_v
Summer	*Wind+ Live load*					
	Thermal					
	$\Sigma(\sigma_{xx}\Phi)$					
Winter	*Wind+ Live load*					
	Thermal					
	$\Sigma(\sigma_{xx}\Phi)$					

$$\sigma_{max}/\beta_{0.2} =$$

$$T_{max}/(R^S/A_2) = \begin{cases} \text{Summer} \\ \text{Winter} \end{cases}$$

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

Maximum deflection

Out-of-plane	In-Plane
$\delta_z =$	$\delta_y =$
$\delta_{z\_perm} =$	$\delta_{y\_perm} = min(L/ \quad , 3mm)=$
$\delta_z / \delta_{z\_perm} =$	$\delta_y / \delta_{y\_perm} =$

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

SCHÜCO

Project Name:

Location:

Date:

By: