

Article		Length	cm
Depth	cm	Weight	N/m
I_I	cm ⁴	I_y	cm ⁴
I_s	cm ⁴	λ_{-20}	
I_v	cm ⁴	λ_{20}	
v		λ_{80}	

External load



Peak moments

		$kN \cdot cm$			
		M_{omax}	M_{umax}	M_{vmax}	M_{temp}
Summer	(1/2) Wind				--
	Thermal	--	--	--	
Winter	Wind				--
	Thermal	--	--	--	

Peak stresses

		N/mm^2				N/mm
		σ_{oo}	σ_{ou}	σ_{uo}	σ_{uu}	T_v
Summer	(1/2) Wind					
	Thermal					
		$\Sigma(\sigma_{xx}\Phi)$				
Winter	Wind					
	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

$$\delta_z =$$

$$\delta_{z_allow} =$$

$$\delta_z / \delta_{z_allow} =$$

$$1.1(T_{vw} + T_{vt}) / (R^T A_2) = \begin{cases} \text{Summer} \\ \text{Winter} \end{cases}$$

In-plane

$$\delta_y =$$

$$\delta_{y_allow} = \min(L/300, 3mm) =$$

$$\delta_y / \delta_{y_allow} =$$