

Article No.:
Depth:
Width:
Length:
Weight:

• **Beam data:**

External load:

Position (m)		Load (kN/m)		Load Factor (φ)		
Start	End	Start	End	Summer	Winter	Displacement

• **Peak Moments**

		<i>kN.m</i>			
		M_{omax}	M_{umax}	M_{vmax}	M_{temp}
<i>Summer</i>	(1/2) <i>Wind</i>				
	<i>Thermal</i>				
<i>Winter</i>	<i>Wind</i>				
	<i>Thermal</i>				

• **Maximum deflection:**

In-plane

$$\delta_y =$$

$$\delta_{y_allow} = \min \left(\frac{L}{300}, 3\text{mm} \right) =$$

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

Out-of-plane

$$\delta_z =$$

$$\delta_{z_allow} = \min \left(\frac{L}{200}, 15\text{mm} \right) =$$

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

• **Peak stress:**

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

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

$$T_{max} / (R^S.A2) = \begin{cases} Summer \\ Winter \end{cases}$$

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

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