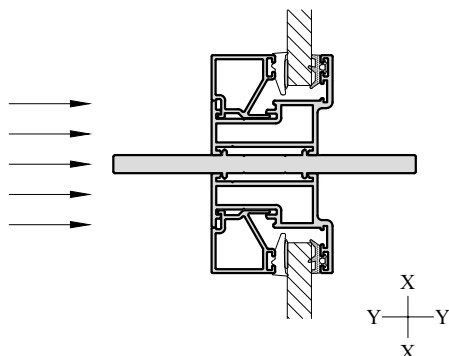


Section D

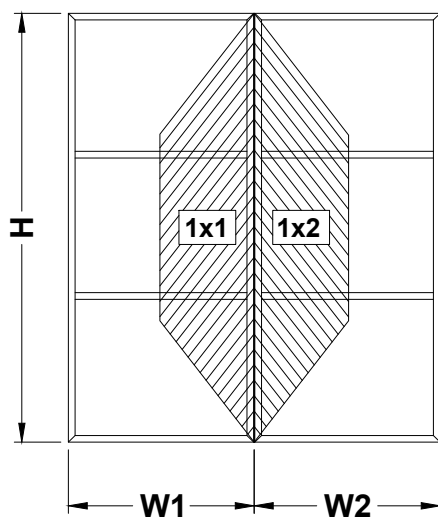
GENERAL INFORMATION - STATICS



The position of the axes is an indication for the use and application of the moments of inertia (I_x and I_y) and the section modulus (W_x and W_y). We always choose the values of the axis perpendicular to the load to resist it.

To resist the loads we use the values I_x and W_x .

EXAMPLE



$H = 210\text{cm}$

$W1 = 100\text{cm}$

$W2 = 100\text{cm}$

$P = 800\text{ Pa}$

- 1) Determine I_{xx} value for the couplers (if required) using the Specification Wizard

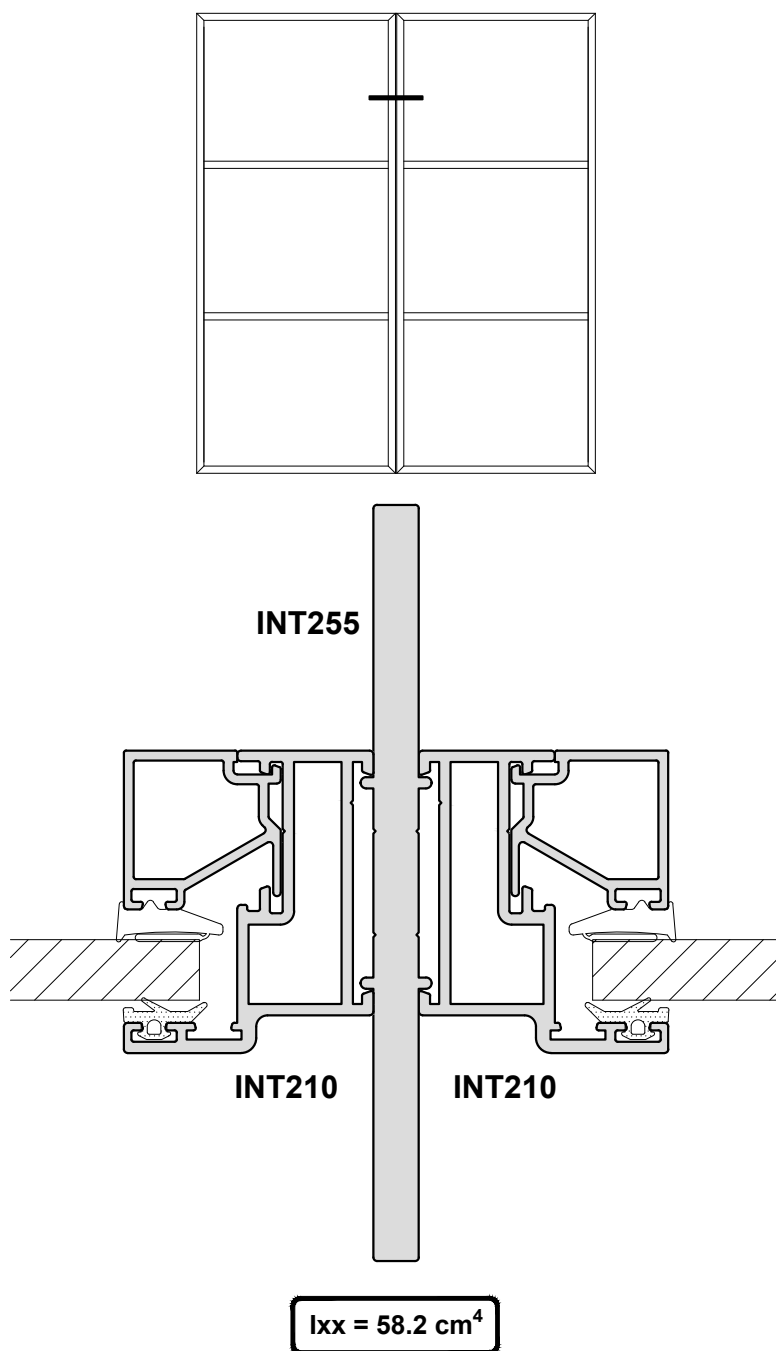
$I_{xx} = 27.6\text{ cm}^4$

- 2) Determine profile combinations

Do Not Scale From This Drawing

Section D

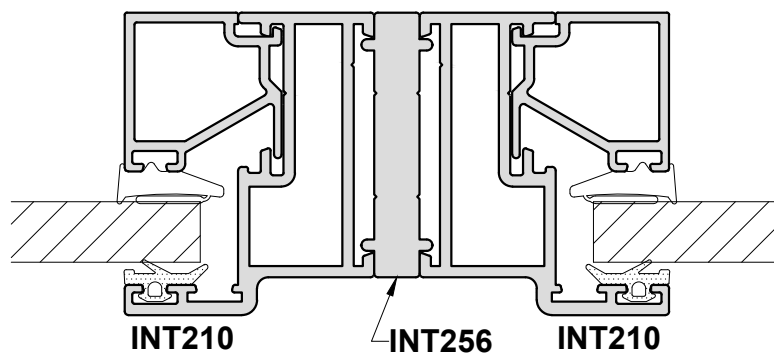
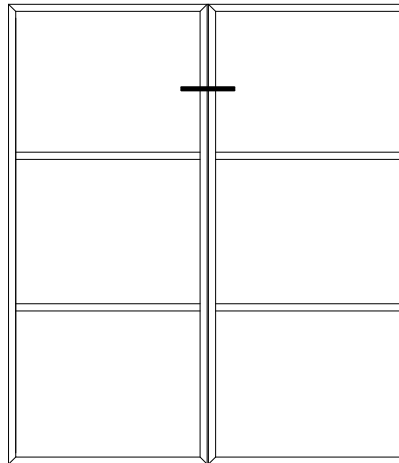
PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS



Do Not Scale From This Drawing

Section D

PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS

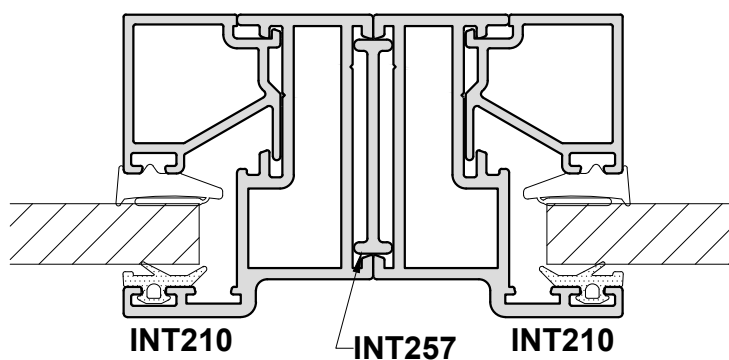
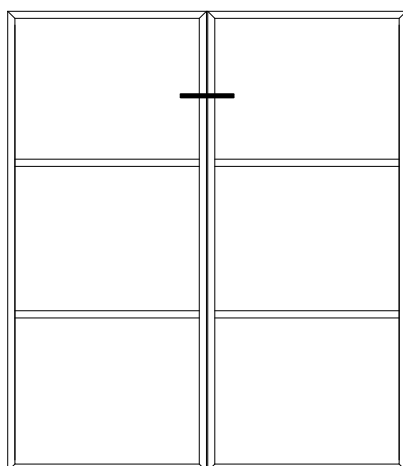


$$I_{xx} = 10.4 \text{ cm}^4$$

Do Not Scale From This Drawing

Section D

PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS



$$I_{xx} = 8.1 \text{ cm}^4$$