

SAY:

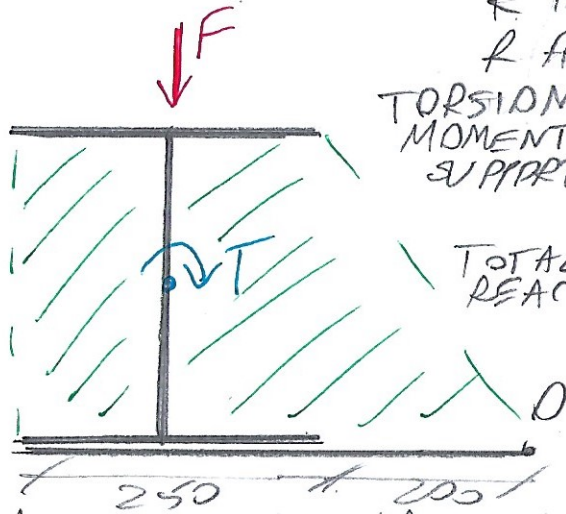
$$R \text{ FROM UDL}_1 = 48.75 \text{ kN}$$

$$R \text{ FROM UDL}_2 = 39.0 \text{ kN}$$

$$\text{TORSIONAL MOMENT AT T} = 39.0 \cdot (0.25 + 0.2) =$$

$$= 8.475 \text{ kNm}$$

$$\text{TOTAL REACTION } F = 87.75 \text{ kN}$$



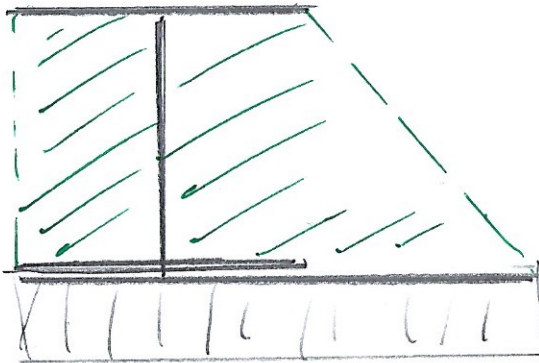
• BEAM OVERTURNING

$$\text{— OVERTURNING MOMENT} = T = 8.475 \text{ kNm}$$

$$\text{— RESTORING MOMENT} = F \cdot \frac{325}{1000} = 28.52 \text{ kNm}$$

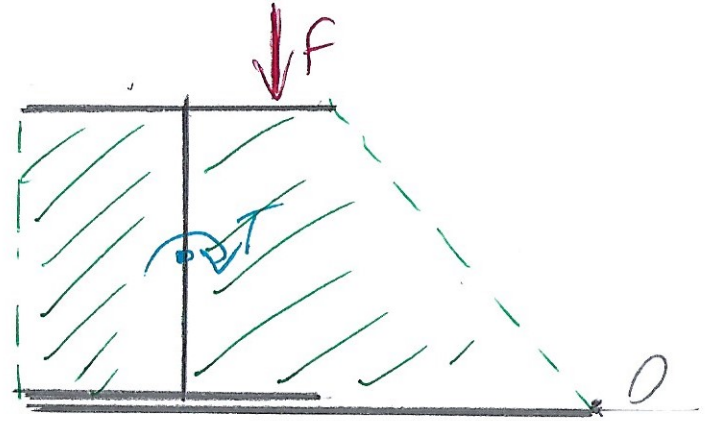
→ OK

• PRESSURE UNDER BEAM / PLATE



$$p = 195 \text{ kN/m}^2$$

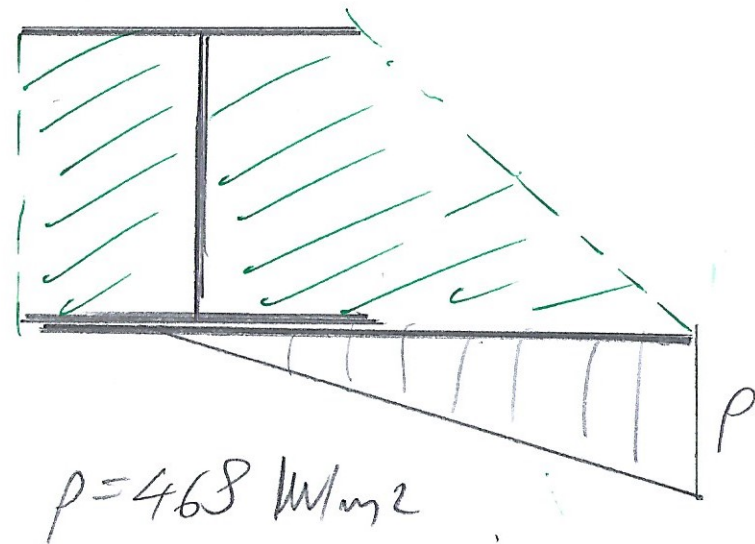
— ASSUME TOTAL REACTION (F) ACTS THROUGH STIFFENER



$$\text{— OM} = 8.475$$

$$\text{— RM} = F \cdot \frac{225}{1000} = 19.74$$

→ OK



$$p = 468 \text{ kN/m}^2$$