

# ABC

Project Name :

Project No.

Part of Project :

Sheet No. 1

Part of Structure :

By:

Date:

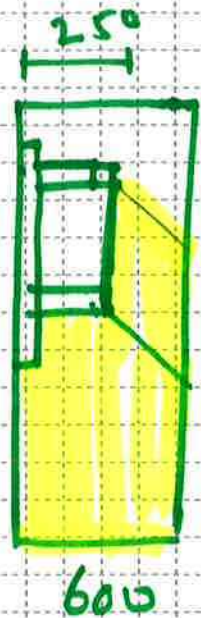
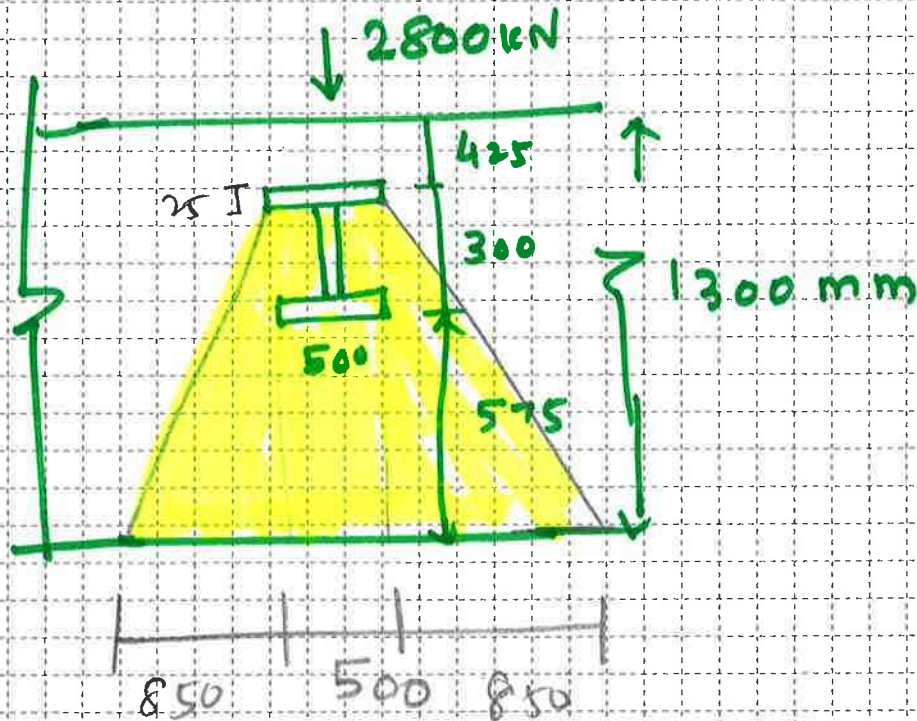
Element :

Chk:

Date:

Sect. Ref.:

Notes:



Concrete area for breakout

$$= (500 + 850 + 850) \times 600 - 500 \times 250$$

$$A_n = 122800$$

$$\phi \cdot P_{max} = 4 \cdot \phi \cdot \sqrt{f_c} \cdot A_b$$

$$= 1362 \text{ kN}$$

$$< 2800 \text{ kN}$$

Shear to be resisted by rebar

$$V_{rebar} = 2800 - 1362 = 1438 \text{ kN}$$

$$\frac{1438 \text{ kN} \times 1000 \text{ N}}{0.75 \times 460} = 4168 \text{ mm}^2$$

7 bars

$$\phi = 0.75$$

$$f_c = 40 \text{ N/mm}^2$$

\* converted  
American  
units



ABC

Project Name :		Project No.	
Part of Project :		Sheet No.	
Part of Structure :		By:	Date:
Element :		Chk:	Date:

Sect. Ref.:

Notes:

