35.4
(wind
load =
35.4kN)

edge of room

4.5   5.7

1.2

3

750   edge of room

350

0.511kN

82kN   82.5kN

A

24kN/m3 * ??m wide * 0.35m
deep*5.7m long = ??kN

Moment about A = 0
24*x*0.35*5.7*5.7/2 + 82*4.5 - 82.5*5.7 = 0

solving for x, x = 0.75m wide