

8/30/2018

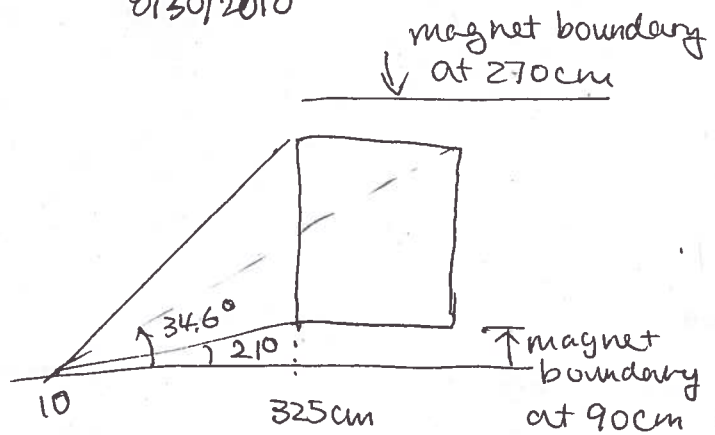
PVDIS requirements: (given)

target at +10cm

EC front at +325cm

Physics angle: min 21°
max 34.6°

magnet at $R=270\text{cm}$
 $R=90\text{cm}$



PVDIS EC coverage: (calculations)

$$(325-10) \times \tan 21^\circ = 120.9\text{cm}$$

$$(325 + \underbrace{50}_{\text{EC length}} - 10) \times \tan(34.6^\circ) = 251.8\text{cm}$$

EC length

(2cm PS

2cm support

45-46cm shower module)

need full coverage from 120.9 cm to 251.8 cm.