JOB TITLE Harleydene Sandgate Lane Storrington		ITEM Structural Calculations			
DESIGNED- MM	DATE	CHECKED- MM	JOB NO. 0	SHEET 1	REV

Span = 2.0 m

Effective length = 2.40 m

Allowable Deflection = 5.56 mm

Loading Type	Magnitude (kN/m^2 or kN)	Distance (m)	Point Loading (kN)	Factored Point Loading (kN)	Total Loading (kN/m)	Factored Loading (kN/m)
Floor	2.00	10.00	-	-	20.00	31.00
Self-weight	0.40	1.00	-	-	0.40	0.56
Total	-	-	0.00	0.00	20.00	31.00
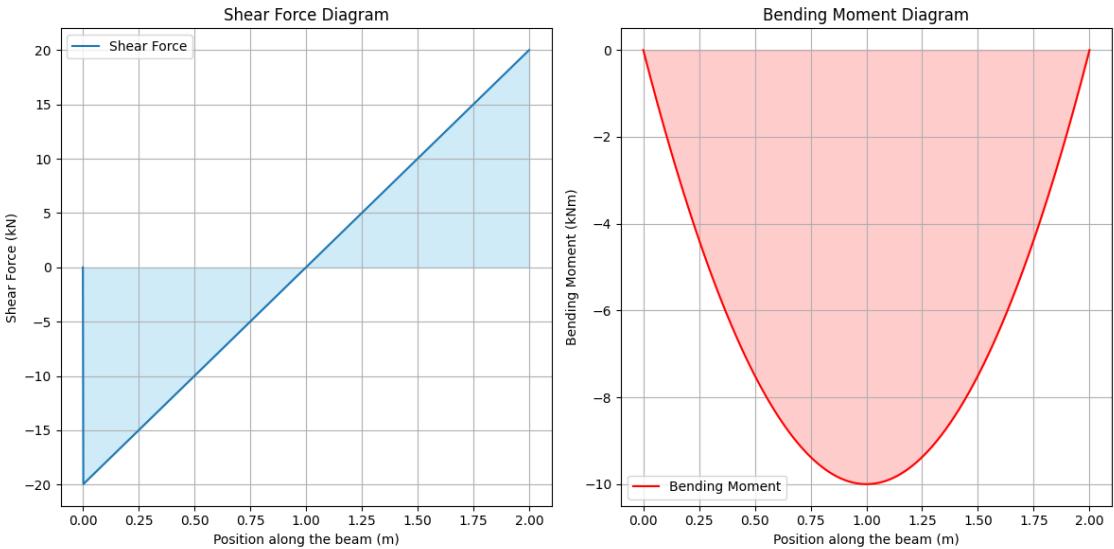
Maximum Factored Moment = 15.00 kNm

Minimum Second Moment of Area required = 365.85 cm^4

Therefore Use Beam : 152x152x23 UC

Moment of Beam Chosen at Effective Length of 3m = 38.4 kNm

Second Moment of Area of Beam Chosen = 1250 cm^4

Left Unfactored Reaction = 20.00 kN

Right Unfactored Reaction = 20.00 kN