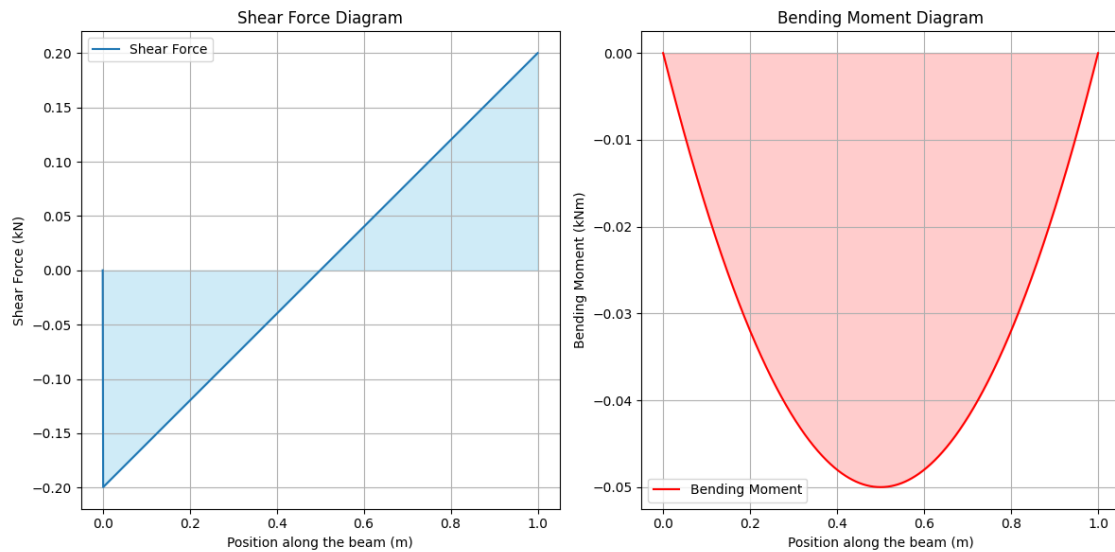


JOB TITLE			ITEM Structural Calculations		
DESIGNED- MM	DATE	CHECKED- MM	JOB NO. 24000	SHEET 1	REV

Span = 1.0 m

Allowable Deflection = 2.78 mm

Loading Type	Magnitude (kN/m <sup>2</sup> or kN)	Distance (m)	Point Loading (kN)	Factored Point Loading (kN)	Total Loading (kN/m)	Factored Loading (kN/m)
Floor	2.00	0.20	-	-	0.40	0.62
Total	-	-	0.00	0.00	0.40	0.62



Maximum Unfactored Moment = 0.05 kNm

Minimum Second Moment of Area required =  $16 \times 10^4 \text{ mm}^4$

Elastic Section Modulus required =  $6.7 \times 10^3 \text{ mm}^3$

**Provide 50x150mm C24 timber joists at 200.0 mm spacing**

The Second moment of area of the timber is  $1406 \times 10^4 \text{ mm}^4$

The Elastic Section modulus of timber is  $187.5 \times 10^3 \text{ mm}^3$

JOB TITLE			ITEM Structural Calculations		
DESIGNED- MM	DATE	CHECKED- MM	JOB NO. 24000	SHEET 2	REV

Left Unfactored Reaction = 0.20 kN

Right Unfactored Reaction = 0.20 kN