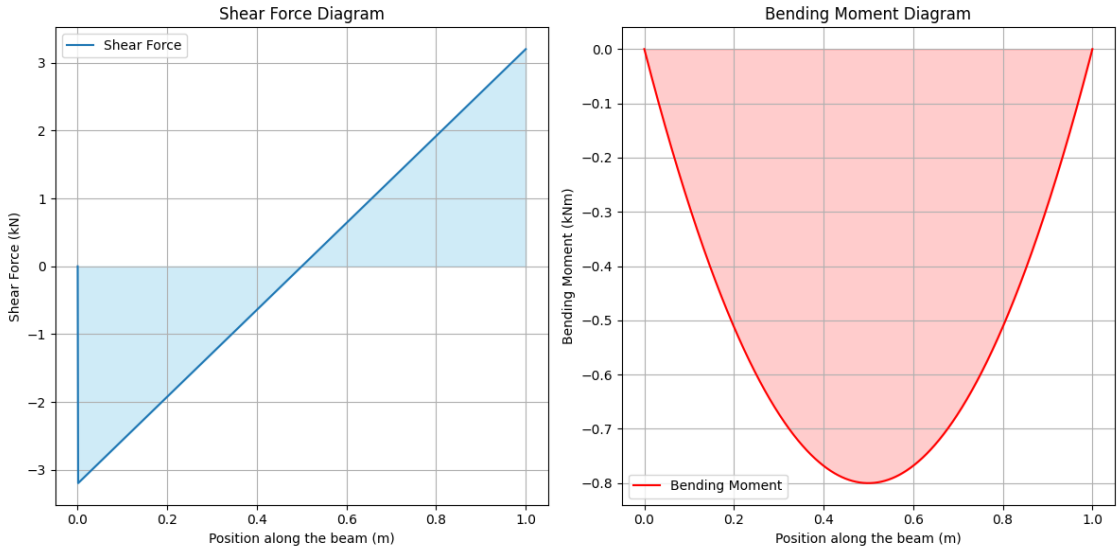
JOB TITLE			ITEM Structural Calculations		
DESIGNED- MM	DATE	CHECKED- MM	JOB NO. 24000	SHEET 1	REV

Span = 1.0 m

Effective length = 1.20 m

Allowable Deflection = 2.78 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	3.00	-	-	6.00	9.30
Self-weight	0.40	1.00	-	-	0.40	0.60
Total	-	-	0.00	0.00	6.40	9.90



Maximum Factored Moment = 1.20 kNm

Minimum Second Moment of Area required = 14.63 cm^4

Therefore Use Beam : 127x76x13 UB

Moment of Beam Chosen at Effective Length of 1.5m = 18.0 kNm

Second Moment of Area of Beam Chosen = 473 cm^4

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

Left Unfactored Reaction = 3.20 kN

Right Unfactored Reaction = 3.20 kN