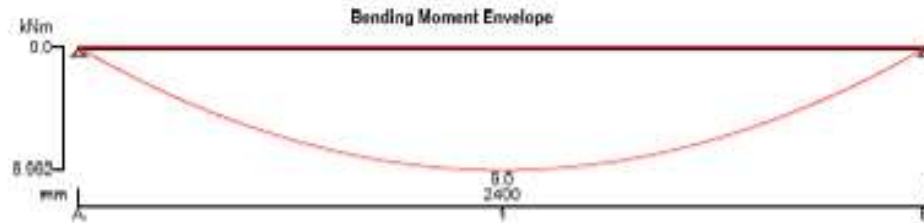




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Project No	Example	Sht. No.	6 of 16
Site Address	Example		
Subject	Extension and alteration works – Supporting Calculations		
Engineer	Peter V	Date:	



EXAMPLE

Support conditions

Support A	Vertically restrained Rotationally free
Support B	Vertically restrained Rotationally free

Applied loading

Beam loads	Dead full UDL 7.02 kN/m Imposed full UDL 1.5 kN/m Dead self weight of beam × 1
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Load combinations

Load combination 1	Support A	Dead × 1.40 Imposed × 1.60
	Span 1	Dead × 1.40 Imposed × 1.60
	Support B	Dead × 1.40 Imposed × 1.60

Analysis results

Maximum moment;	$M_{max} = 9 \text{ kNm};$	$M_{min} = 0 \text{ kNm}$
Maximum shear;	$V_{max} = 15 \text{ kN};$	$V_{min} = -15 \text{ kN}$
Deflection;	$\delta_{max} = 1.4 \text{ mm};$	$\delta_{min} = 0 \text{ mm}$

NOTE: For Building Regulations Submission only, not for ordering materials. Principal Contractor is responsible for taking measurements on site, preparing construction drawings and safely erecting the proposed structural works. Team Design is not responsible for site supervision.

IF IN DOUBT - ASK!