Geometry for (Analysis Beam [Span 1 (M1), 1.2 DLxg + 1.5 LL]): Concrete Fixed-End Beam

Description =	300mm (D) x 1000mm (W) beam		Ix =	2250	x10⁶ mm⁴
Span (L) =	5000	mm			
Span type =	F	(S)imple,(E)xt,(I)nt,(C)ant,(P)rop,(F)ixed,(O)ther	Ag =	300000	mm²
Material type =	C	(T)imber,(S)teel,(C)onc.,(SC)comp. steel,(O)ther	Density =	24.516625	kN Modified to match 2500*9.80665/1000
			E =	32668	MPa

Loading

Uniform loads	UDL	Partial 1	Partial 2
Dead load (wdl) =	70.00		
Live load (wll) =			
Start from LHS (mm) =	0		
End from LHS (mm) =	5000		
S.Wt =	7.35	kN/m	
Ultimate load (w*) =	104.43	0.00	0.00

Point loads	PL 1	PL 2	PL 3
Dead load (pdl) =			
Live load (pll) =			
Pos. from LHS (mm) =			
Ultimate load (p*) =	0.00	0.00	0.00

Include S.Wt =	Y	(Y)es,(N)o
Strength loadcase =	C	(D)ead Only,(C)omb.

Live Load type =	Floor	(Concrete)		
Short term LL (Ψsu) =	0.70	(Ψsp) =	1.00	
Long term LL (Ψlu) =	0.40	(Ψlp) =	0.60	
Actual LL (Ψsa) =	0.70	(Ψla) =	0.40	

Results at 4782mm from LHS — Position of result (x) = 4782 mm

1.35*G analysed

	Left	At x	Right	Max	At	Min	At	Units	
Rdl	193.39		193.39					kN	
Rll	0.00		0.00					kN	
R*	261.07		261.07					kN	
M*	-217.56	-163.17	-217.56	108.78	2500	-217.56	0	kNm	
V*	261.07	-238.33	-261.07	261.07	0			kN	Span /
δdl	0.00	0.05	0.00	1.71	2500	0.00	0	mm	2919
δll	0.00	0.00	0.00	0.00	0	0.00	0	mm	0
δdl+Ψs*δll	0.00	0.05	0.00	1.71	2500	0.00	0	mm	2919

δPll/δTot.ll = 0.000

Graphs * Deflections are Gross Ig immediate - assessment of long term effects to be considered