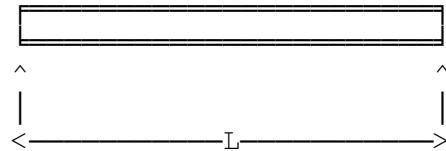


Office: 5982

Location: BEAM A

Simply supported steel beam



Beam span

Calculations in accordance
 with BS5950-1: 2000

$L=3.7$ m

203 x 133 x 30 UB.
 Young's Modulus

$E=205$ kN/mm²

Dead load factor
 Imposed load factor

$\gamma_{md}=1.4$
 $\gamma_{mi}=1.6$

Dist. from left support to start	$L_{au}(1)=0$ m
Distance from left support to end	$L_{bu}(1)=3.7$ m
Dead load (unfactored)	$G_{ku}(1)=9.1$ kN/m
Imposed load (unfactored)	$Q_{ku}(1)=6.6$ kN/m
Maximum span bending moment	39.872 kNm
Design shear force	$F_v=43.105$ kN

UNIVERSAL BEAM

203 x 133 x 30 UB Grade S 275

DESIGN
 SUMMARY

	Max. shear force	43.105 kN
	Shear capacity	218.38 kN
	Max. applied moment	39.872 kNm
	Moment capacity	86.35 kNm
	Buckling resistance	40.162 kNm
	Moment factor (mLT)	1
	Resistance (Mb/mLT)	40.162 kNm
	Unfactored DL defln	3.7354 mm
	Unfactored LL defln	2.7092 mm
	Limiting deflection	10.278 mm
Unfactored end shears	DL shear at LHE	16.835 kN
	LL shear at LHE	12.21 kN
	DL shear at RHE	16.835 kN
	LL shear at RHE	12.21 kN

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