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	Project No	Example	Sht. No.	10 of 16
	Site Address	Example		
	Subject	Extension and alteration works – Supporting Calculations		
	Engineer	Peter V	Date:	

Loading on beam "G"– (apprx. 1.00m clear span, 1.30m incl. bearing)

Dead

Live

**Roof incl. attic at 35° slope**

Tiles (0.65kN/m<sup>2</sup>) + rafters ,felt , insulation (0.30kN/m<sup>2</sup>) + plasterboard(0.25kN/m<sup>2</sup>)     1.41kN/m<sup>2</sup>

Attic ( 0.25kN/m<sup>2</sup>) + Snow at 35° slope (0.50kN/m<sup>2</sup>)     0.75kN/m<sup>2</sup>

**Floor (Domestic)**

Joists & boards (0.25kN/m<sup>2</sup>) + plasterboard(0.25kN/m<sup>2</sup>)     0.50kN/m<sup>2</sup>

Imposed (people or furniture)     1.50kN/m<sup>2</sup>

**EXAMPLE**

**Walls:**

2.7m solid bwk (225mm bwk) + plasterboard one side (0.25kN/m<sup>2</sup>)     12.75kN/m

**Total Loading:**

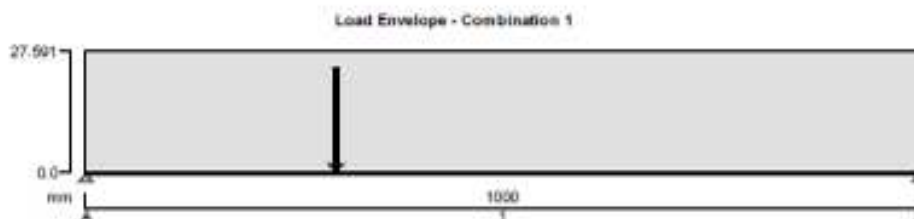
Dead: (2.0 \* 1.41) + (1.2 \* 0.50) + 12.75 = 16.17kN/m

Live: (2.0 \* 0.75) + (1.2 \* 1.50)     = 2.70kN/m

Point Load from Bm A @ 0.3m:     Dead: 15.00kN     Live: 2.00kN

**STEEL BEAM "G" ANALYSIS & DESIGN (BS5950)**

In accordance with BS5950-1:2000 incorporating Corrigendum No.1



**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!**