

| | | | | |
|--|--|--|----------|--------|
|  | TEAM DESIGN- 2 nd floor Regal Court, 42-44 High Street, Slough, SL1 1EL Email : info@beamdesign.co.uk Office: 0800 130 3312 | | | |
| | Project No | Example | Sht. No. | Sof 16 |
| | Site Address | Example | | |
| | Subject | Extension and alteration works – Supporting Calculations | | |
| | Engineer | Peter V | Date: | |

Loading on double beam "A" short span over hallway – (apprx. 2.40m clear span)
Note: Only inner section designed

Roof incl. attic at 35° slope

Tiles (0.65kN/m²) + rafters ,felt , insulation (0.30kN/m²) + plasterboard(0.25kN/m²) **1.41kN/m²**

Attic (0.25kN/m²) + Snow at 35° slope (0.50kN/m²) **0.75kN/m²**

Walls:

2.4m high 100mm blockwork (15kN/m³) + plasterboard one side (0.25kN/m²) **4.20kN/m**

Total Loading:

Dead: (2.0 * 1.41) + 4.20 = **7.02kN/m**

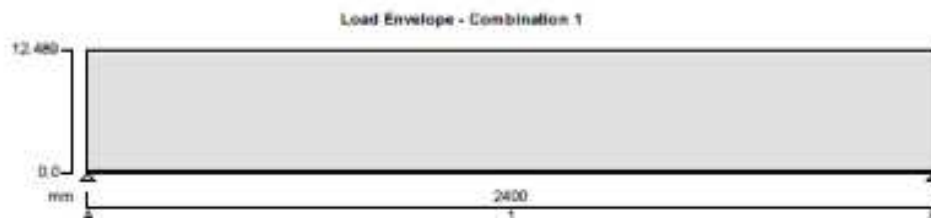
Live: (2.0 * 0.75) = **1.50kN/m**

EXAMPLE

STEEL BEAM "A" (DOUBLE BEAM) INNER SECTION ANALYSIS & DESIGN (BS5950)

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

TEDDG calculation version 3.0.05



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!