

Butt Plates Technical Specification

Capacities for House Floor Beams on Internal Walls

Calculations provided by independent consulting and structural engineers Document 96:02:721 / B01-B03
 In line with BS5628 "Structural Use of Masonry" : Part1 "Structural Use of Unreinforced Masonry"
 assuming a precast concrete joist bearing of 50mm and a minimum width of joist of 115mm.

Factored reactions derived for various block compressive strengths:-

2.8N/mm² Blocks – Reaction = 6.90KN

3.5N/mm² Blocks – Reaction = 8.60KN

7.0N/mm² Blocks – Reaction = 15.70KN

Blocks assumed bedded in class III mortar or greater in accordance with BS5628 and a two type bearing such that the width of the member not greater than 400mm and joist bearing not within 50mm of an adjacent opening.

It should be noted that in addition to the local bearing stress BS5628 requires check to assess the capacity of the wall remote from the underside of the bearings. The building / structural engineer should be satisfied that the wall complies with current requirements.

Robustness and stability of the structure remain the responsibility of the building / structural engineer.

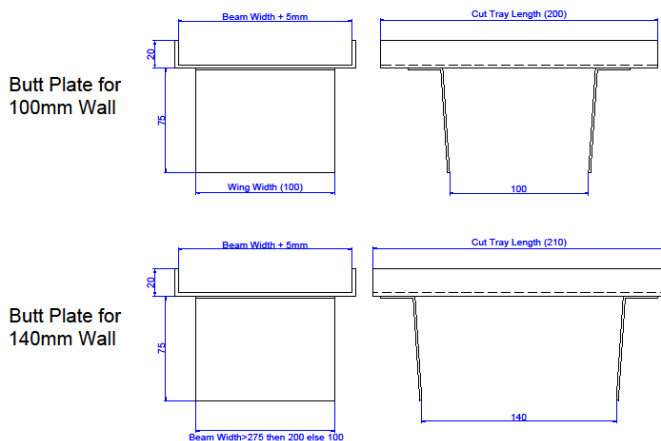


Fig 1.

General Design Configuration

Manufactured from 2.5mm top plate and 1.5mm legs in galvanised mild steel to BSEN10142:2000 / EN10147:2000

Grade: DX51

Surface Finish : MAC Minimised Spangle

Coating Weight: Z100,Z140,Z275 (min Av triple spot coating mass g/m²)

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