

Flexural streyes 9= 131.84 mm I = 1.6754 x 10 mm4 beam: Ot: 30 MP. = 30 mPa . 1.6754 × 10 mm4 = 3.78223x10N.mm & 3.78223 x10 KN.mm $M = \frac{WL^{2}}{8}$ $W = \frac{8M}{L^{2}} = 3.35267 \text{ N/mm}$ beam : 6.71960x102 kN:mm 6t = My M 527 W = 806. I 8x30MPax 1.6759x106 mm4 = 5.9564 N/mm [950mm] . 119.467 mm 1.99364x10 know 06 = M (h-y) W = 806 I L'(h-y) = 8.6MPa · 2.6759410 mm (950 mm) 2 · (200 +19.467) mm = 1.76728 M/mm Pi beam can with stand more weight for fleoral strew, however . different amount of material was used to construct the two beams.