



Dimensions, Weights and Properties of Special and Standard Structural Steel Shapes Manufactured by Bethlehem Steel Company, South Bethlehem, Pa; For E

George Henry Blakeley

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1907 Excerpt: ... square Inch: 13,000 lbs. for lengths under 55 radii 16,000--55 y for lengths over 55 radii. SAFE LOADS IN TONS OF 2000 LBS. FOR BETHLEHEM ROLLED STEEL 10" H COLUMNS. SQUARE ENDS. Allowable stress per square inch: 13,000 lbs. for lengths under 55 radii. 16,000--55yfor lengths over 55 radii. SAFE LOADS IN TONS OF 2000 LBS. FOR BETHLEHEM ROLLED STEEL 10" H COLUMNS. SAFE LOADS IN TONS Of 2000 LBS. FOR BETHLEHEM ROLLED STEEL 9" H COLUMNS. SQUARE ENDS. Allowable stress per square inch: 18,000 lbs. for lengths under 55 radii. 16,000--55--for lengths over 55 radii. SAFE LOADS IN TONS OF 2000 LBS. FOR BETHLEHEM ROLLED STEEL 8" H COLUMNS. SQUARE ENDS. Allowable stress per square Inch: 13,000 lbs. for lengths under 55 radii. 16,000--55--for lengths over 55 radii. EXAMPLE 8HOWINGTHE METHOD OFSELECTING BETHLEHEM ROLLED H COLUMNS FOR BUILDINGS. For illustration, the interior columns of an actual 14-story building are taken as an example. The story heights and the loads on the columns are as given in the table. The columns will be selected in lengths of two stories. From inspection of the tables given for safe loads on H columns, it is found that no columns less than the 12" H sections have the desired range of capacity. Assuming that it is desirable, on account of space, to limit the size of columns as much as possible, the 12" H columns will be the minimum size for the purpose. From the table on page 120 the sections of 12" H columns required are then selected, as given in the above example. Smaller columns might be used for the upper story, but for the sake of uniformity the lightest section of 12" H columns are selected. All the columns as selected and given in the above example are produced by the same rolls and obtainable com...

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