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Section: Section  
designation: HW: Clear  
depth-to-thickness ratio

of web. Mass Mass per  
length, kg/m.  $I_x$ :

Moment of inertia about  
axis XX,  $\text{mm}^4$ .  $I_y$ :

Moment of inertia about  
axis YY,  $\text{mm}^4$ .  $R_x$ :

Radius of gyration about  
axis XX, mm.  $R_y$ :

Radius of gyration about  
axis YY, mm.  $S_x$ :

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sheet of table: Export  
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tables below are for  
initial reference only. I  
have extracted the  
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may not be in  
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latest Standards - as  
identified. I am in the  
process of checking this  
information....The links  
below provide much  
safer information...

~~Steel Sections - Roy  
Meeh~~

I-beams (I-shaped cross-  
section) W - Wide  
flange steel beam (I-

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Sections Tables  
shaped cross-section)  
have parallel flange  
surfaces. S - American  
Standard Beam (I-  
shaped cross-section)  
have a slope on the  
inner flange surfaces.  
HP - Bearing Pile (H-  
shaped cross-section)  
have parallel flange  
surfaces and equal web  
and flange thicknesses.

~~Steel beam tables~~

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The aim of presenting these tables is to provide the structural engineers with wide range of information required in designing steel structures. Previously, a

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steel designer had to search in many tables, handbooks, manuals, ...etc. to collect the necessary information needed to complete his/her design. These tables are divided into nine chapters.

~~TABLES FOR STEEL CONSTRUCTIONS~~  
EN 10219-1 Cold formed welded

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sections of non-alloy  
and fine grain steels.  
Technical delivery  
requirements. Unit  
weight and density of  
structural steel. The unit  
weight of structural steel  
is specified in the design  
standard EN 1991-1-1  
Table A.4 between 77.0  
kN/m<sup>3</sup> and 78.5 kN/m<sup>3</sup>.

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The objective of this publication is to present a practical guide to the design of structural steel elements for buildings.

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the guidance is in  
accordance with BS EN  
1993-1-1: 2005 .  
Eurocode 3: Design of

~~HANDBOOK OF  
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STRUCTURAL  
STEELWORK~~

Note: Section tables are  
not numbered and put in  
the list, except from  
High-Tensile  
Galvanised C and Z

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Purlins, Mild Steel  
Plates, Chequered  
Plates, API 5L (1991)  
and ASTM A53 (1997)  
pipes, Steel Sheet Piles  
to EN 10248:1996 and  
Other Steel Sheet Piles.  
Table 1 – Comparison  
between general  
structural steel  
specifications \_\_\_\_\_ 11

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5- The steel members can be readily disassembled or replaced. 6- The existing steel structure and structural components may be strengthened by connecting additional sections or plates. 7- The steel structures may be inspected quickly and conveniently. 8- This

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Sections may be  
reprocessed/recycled in  
furnaces. 9- This  
material can be reused.

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Advantages And ...~~

Structural hollow  
sections. ... Effective  
section properties -  
Sections subject to axial  
compression ; Effective  
section properties -



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properties - Sections  
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hollow sections ... Tata  
Steel Tubes  
MILD STEEL~~

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Sizes & Weights of Hot  
Rolled Steel (Long)  
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BY: S 100 mm Size  
(mm) Section Weight  
(Kg/Mtr) Wt.per pc  
(6mtr) No.of Pcs per  
MT 35 x 35 x 5 2.60  
15.60 64 35 x 35 x 6  
3.00 18.00 56 38 x 38 x  
3 1.71 10.26 97 40 x 40  
x 5 3.00 18.00 56 40 x  
40 x 6 3.50 21.00 48 ...

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(DCTHS) which only  
considered tubular  
members. Thereafter, a  
second edition of the  
DCTHS was released in  
1999 entitled “Design  
Capacity Tables for  
Structural Steel –  
Volume 2: Hollow

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Sections” (DCT-  
v2:HS). While  
somewhat of a  
challenge, the aim of the  
DCT-v2:HS (and  
preceding  
DCTHS/DCT) was to

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TABLES—Group~~

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construction of light to

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Product datasheets.

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EN 10025: 2004 and is  
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