

These shapes are designated by the mark WT, MT, or ST, nominal depth (in.) and nominal weight (lb/ft). WT-, MT-, and ST-shapes are split (sheared or thermal-cut) from W-, M-, and S-shapes, respectively, and have half the nominal depth and weight of that shape. For example, a WT12×27.5 is a structural tee split from a W-shape (W24×55), is nominally 12 in. deep and weighs 27.5 lb/ft. Although off-center splitting or splitting on two lines can be obtained by special order, the resulting nonstandard shape is not covered in this Manual.

The following dimensional and property information is given in this Manual for the structural tees cut from the W-, M-, and S-shapes covered in ASTM A6:

- Design dimensions, detailing dimensions, and axial, flexural, and torsional properties are given in Tables 1–8, 1–9, and 1–10 for WT-, MT-, and ST-shapes, respectively.
- SI-equivalent designations are given in Table 17–5 for WT-shapes and in Table 17–6 for MT- and ST-shapes.

For the definitions of the tabulated variables, refer to the Nomenclature section at the back of this Manual.

Hollow Structural Sections (HSS)

Three types of HSS are covered in this Manual:

- Rectangular HSS, which have an essentially rectangular cross-section, except for rounded corners, and uniform wall thickness, except at the weld seam(s).
- Square HSS, which have an essentially square cross-section, except for rounded corners, and uniform wall thickness, except at the weld seam(s).
- Round HSS, which have an essentially round cross-section and uniform wall thickness, except at the weld seam(s).

In each case, ASTM A500 covers only electric-resistance-welded (ERW) HSS with a maximum periphery of 64 in. The coverage of HSS in this Manual is similarly limited.

Rectangular HSS are designated by the mark “HSS,” overall outside dimensions (in.), and wall thickness (in.), with all dimensions expressed as fractional numbers. For example, an HSS10×10× $\frac{1}{2}$ is nominally 10 in. by 10 in. with a $\frac{1}{2}$ -in. wall thickness. Round HSS are designated by the term “HSS,” nominal outside diameter (in.) and wall thickness (in.) with both dimensions expressed to three decimal places. For example, an HSS10.000×0.500 is nominally 10 in. in diameter with a $\frac{1}{2}$ -in. nominal wall thickness.

Per AISC Specification Section B3.12, the wall thickness used in design, t_{des} , is taken as 0.93 times the nominal wall thickness, t_{nom} . The rationale for this requirement is explained in the corresponding Commentary Section B3.12.

In calculating the tabulated b/t and h/t ratios, the outside corner radii are taken as $1.5t_{des}$ for rectangular and square HSS, per AISC Specification Section B4.2. In other tabulated design dimensions, the corner radii are taken as $2t_{des}$. In the tabulated workable flat dimensions of rectangular (and square) HSS, the outside corner radii are taken as $2.25t_{nom}$. The term Workable Flat refers to a reasonable flat width or depth of material for use in making connections to HSS. The workable flat dimension is provided as a reflection of current industry practice, although the tolerances of ASTM A500 allow a greater maximum corner radius of $3t_{des}$.

Aisc 13th Edition Steel Detailing Manual

S Marginson



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