

INDUSTRY STANDARDS

MANHATTAN STEEL SUPPLY
201-795-4060



All products are produced to the listed standards except as noted

Astm A 6/A 6M: Standard Specification for General Requirements of Rolled Structural Steel Bars, Plates, Shapers and Sheet Piling. Standard covers terminology, ordering information, testing information, quality information, nominal dimensions and permitted variations.

ASTM A 36/A 6M: Standard Specification for Carbon Structural Steel.

ASTM A 328/A 328M: Standard Specification for Steel Sheet Piling.

ASTM A 370/A 370M: Standard Test Methods and Definitions for Mechanical testing of steel products, including tension tests and Charpy impact testing.

ASTM A 572/A 572M: Standard Specification for High-Strength Low Alloy Structural Steel, up to 50 ksi Minimum Yield Point, with Atmospheric Corrosion Resistance.

ASTM A 709/A 709M: Standard Specification for Structural Steel for Bridges. The grades defined in A709 are the equivalent to other ASTM grades as listed below.

-A709 Grade 36 is same as ASTM A36

-A709 Grade 50 is same as ASTM A572 Grade 50

-A709 Grade 50S is same as ASTM A992

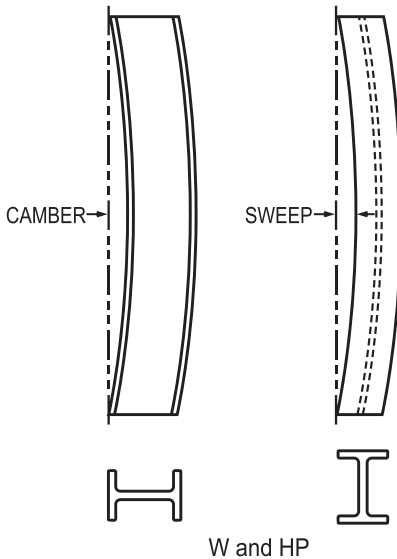
-A709 Grade 50W is same as ASTM A588 Grade B

ASTM A709 also defines Non-Fracture Critical (T) tension component and Fracture Critical (F) tension component impact testing requirements.

ASTM A 992/A 992M: Standard Specification for Structural Steel Shapes.

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Permitted Variation in
Straightness in Inches
for W and HP Shapes

W and HP

Camber and Sweep (inches) = $1/8 \times (\text{number of feet of total length}/10)$ A

When certain sections with a flange width approximately equal to depth are specified

in the order for use as columns, camber and sweep (inches):

Lengths 45 ft and under = $1/8 \times (\text{number of feet of total length}/10)$ but not over $3/8$

Lengths over 45 ft = $[1/8 \times (\text{[number of feet of total length} - 45]/10)]$

A For sections with flange width less than 6 in. Permitted variation in sweep (inches) = $1/8 \times (\text{number of feet of total length}/5)$

B Applies only to:

- 8 in. deep sections 31 lb/ft and heavier,
- 10 in. deep sections 49 lb/ft and heavier,
- 12 in. deep sections 65 lb/ft and heavier,
- 14 in. deep sections 90 lb/ft and heavier,
- 16 in. deep sections 88 lb/ft and heavier and
- 18 in. deep sections 135 lb/ft and heavier.