



GATEWAY A36 HR Steel

A36 Hot Rolled Carbon Steel Plate

Gateway A36 Hot Rolled Carbon Steel Plate is produced to specification ASTM A36. It is supplied in the hot finished condition with mill edges.

Typical Chemistry

Carbon	.20
Manganese	.90
Phosphorus	.40 max
Sulfur	.50 max

Typical Applications

ASTM A36 material is used for "A" and "B" mold plates, parallels and structural applications. It is stocked in the Hot Finished condition and is typically ground/milled to +/- .005" on all dimensions.

Hardening

Because of the chemistry, ASTM 36 is not a "hardenable" steel and is typically used in the As-Rolled condition. An attempt to harden A36 will result in a Case-Core condition, where the surface may achieve unpredictable increased hardness readings while the hardness of the internal matrix will remain unchanged.

Typical Mechanical Properties

Tensile Strength (ksi)	50-80
Yield Point (ksi)	36 min
Elongation (% in 2")	18 min

Weldability

Easily welded by all welding methods, and resultant welds and joints are of high quality. Choice of welding rod grade is dependent upon section thickness, design and service requirements.

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