A36 Carbon Steel

DESCRIPTION:

ASTM A36 is the most common grade of structural quality, mild carbon steel.
This low-carbon grade of steel provides good machining, welding, and forming characteristics. Unlike stainless, A36 carbon steel does not show good corrosion resistance without a coating. A36 Steel can be laser welded to produce sharp cornered profiles such as hollow structural steel, tees and custom shapes.

APPLICATIONS:

- Structurally Exposed Steel
- Architectural Steel Profiles
- Tank Supports
- Construction
- Machinery

CHEMICAL COMPOSITION:

Carbon	*0.25 - 0.29*
Copper	*0.20*
Iron	*98.0*
Manganese	*1.03*
Phosphorus	*0.04 max*
Silicon	*0.28 max*
Sulfur	*0.050 max*

* MECHANICAL PROPERTIES:

Yield Strength	*36 KSI min*
Tensile Strength	*58 - 80 KSI min*
Elongatin	*23%*
Hardness	*67 - 83 Rockwell*

* Laser Fused Profiles (ASTM A1069) are produced to meet a 35 KSI Min Yield or higher, depending on strength grade specified.

STAINLESS STRUCTURALS CAN PRODUCE THIS ALLOY IN BEAMS, CHANNELS, ANGLES, TEES AND CUSTOM SHAPES.

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