



ArcelorMittal

Hot Rolled High-Strength Low-Alloy Hot Rolled Steel with Atmospheric Corrosion Resistance

Introduction

Weathering steel produced by ArcelorMittal is ideal for applications requiring strength and durability in addition to atmospheric corrosion resistance. Weathering steel has a unique, natural oxide coating that is dense, tightly adherent and relatively impervious to further atmospheric corrosion and therefore can be used unpainted for many applications reducing maintenance costs. The atmospheric corrosion resistance of this steel is better than carbon structural steels with or without copper. Popular applications include tubular structures, transmission towers and poles. This steel can be used for both bolted and welded applications.

Technical characteristics

ArcelorMittal USA's typical product meets conversion to ASTM 871 Type I and Type IV chemistries and Grade 65 strength and Charpy requirements. (Inquire for ASTM 871 Type II chemistry or Grade 60.) This steel conforms to ASTM A568 and A635.

Chemistry

$Cu + Ni + Cr < 1.50$

$Nb + V + Ti < 0.15$

Note: Carbon equivalent < 0.36

Properties (transverse direction)

Yield Strength (ksi)	Tensile Strength (ksi)	% Elongation (in 2in.)	Charpy (ft-lb at 0°F)
65	80	17 min	15

Corrosion resistance

Meets ASTM G101 corrosion index ≥ 6.0

Sizes

Some slab sizes are stocked; others available upon request.



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