

Rustic Weathering Steel

GENERAL DESCRIPTION

Cold rolled steel sheet, high strength, low alloy, with improved atmospheric corrosion resistance, as per ASTM specification: A606-96, type 4.

MANUFACTURING

The products are roll-formed aluminum killed steel concast slabs. surface matte (dull) finish will be supplied unless specified.

SIZE AVAILABILITY

22 gauge; 18 ga on special order
Stock width: 46", 48"

MECHANICAL PROPERTIES

Tensile strength, min ksi (mpa) 65(450)
Yield strength, min ksi (mpa) 45(310)
Elongation in 2" or 50mm 22% min.

Note: other strength levels may be available upon request

Weathering Steel Specifications

CHEMICAL COMPOSITION

The weathering steels are supplied with additions of Si, Cu, Ni, and Cr in various combinations. typical ranges are:

Si .20-.40% P .07-.11%
Cu .25-.45% Ni .10-.40%
Cr .25-.55%

The maximum limits of carbon, manganese, and sulfur are: C: .15% Mn: 1.00% S: .25%

CORROSION DATA

These low alloy steels have an atmospheric corrosion resistance that is approximately four times greater than that of a conventional low carbon steel. ISI does not have proprietary data for these steels.

A corrosion resistance index (1) and a projected atmospheric corrosion penetration can be calculated on the basis of the chemical composition, using the ASTM guide G101.

Note: Information per: ispat sidbec inc., doscoloy weathering steels (ASTM A606) ©2006-MS1597/1-07