

Domex 100 W

The Weather Resistant Extra High Strength Steel

PRODUCT

A weather resistant steel characterized by:

- ✓ Corrosion resistance
- ✓ Extra high Strength
- ✓ Excellent Formability
- ✓ Good Impact Toughness
- ✓ Good Weldability

Weather resistance index according to ASTM G101-97 is similar to Corten A

APPLICATIONS

- ✓ Vehicle underbodies
- ✓ Container Frame Structures
- ✓ Steel Bridges/Building Constructions
- ✓ Rail Cars
- ✓ Snow Sheds
- ✓ Lighting, Cable and Sign Supporting Poles

All applications where high strength combined with corrosion resistance are needed

DIMENSION RANGE

Thickness	Width
.118" - .193"	35" - 51"
.194" - .236"	35" - 63"

CHEMICAL COMPOSITION

(Typical Values)

C % max	Si % max	Mn % max	Cu % max	Cr % max	Micro Alloying Elements
0.10	0.50	1.25	.30	.60	Added

MECHANICAL PROPERTIES

Yield Strength KSI	Tensile Strength KSI	Elongation (2") %
100 Min.	110 Min.	12 Min.

BENDABILITY

Minimum inside radius for cold forming in all directions: 2XT

IMPACT TOUGHNESS

Guaranteed minimum: 20ft. lbs at -4°F

WELDING

No Preheating required. All conventional welding methods can be used. To ensure the weldments fulfill the impact toughness requirements of the base metal, at least two passes for sheet thickness above .1575" are required. Special filler metals should be used to obtain the same corrosion resistance in the weldment as in the base. Producers of filler metals recommend the following:

Producer	MMA (Manual Metal Arc)	MAG (Metal Active Gas)	MCAW (Metal Cored Arc Welding)
ESAB	OK 73.08	OK Autrod 13.26 OK	Tubrod 14.01
Filarc	85CP	PZ 6012	PZ 6112
Oerlikon	Tencord Kb	Spoolcord TD-COR	Fluxofil 18

HEAT TREATMENT

Stress relieving should be carried out below 1075°F. Heating above this temperature, reduces strength and should be avoided.

SSAB

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