



Docol 355 W The weather resistant high strength steel

Product

Docol 355W is a high strength weather resistant steel. The strength is achieved by cold rolling and heat treatment in a continuos annealing line. This steel is a weather resistant steel i.e. during outdoor usage within a couple of years a smooth oxide layer is formed that inhibits further corrosion. In addition to it's weather resistant properties Docol 355W is characterised by good formability and weldability.

Applications

Docol 355W is designed for use in container panels. By using this high strength steel for containers, gains can be made by reducing the tare weight.

This steel can also be used for other applications, where corrosion resistant properties is needed together with high strength.

Dimension range

Docol 355W is available in thickness 0.5-2.00 mm and width up to 1500 mm. Limitations may occur depending on thickness. Docol 355W is supplied to the tolerances in accordance with EN 10131.

Chemical composition

(typical values)

(%)	Si (%)	Mn (%)	P (%)	Cu (%)	(%)	Micro alloying elements
0,050	0,30	0,35	0,08	0,30	0,60	added

Mechanical properties

Yield Strength R _{p0.2} (N/mm²)	Tensile Strength R _m (N/mm²)	Elongation A ₈₀ (%)	Min. radius for 90° bend
355 - 500	510 - 680	min 14	0,5x thickness

Welding

The weldability of Docol 355 W is good. All the conventional fusion welding methods can be used. To obtain the same corrosion resistance in the weldment as in the base metal special filler metals should be used. The producers of fillers have given the following recommendations for welding weather resistant steels.

Producer	MMA (Manual metall arc)	(Gas metal arc)
ESAB	OK 73.08 OK 50.10	OK Autrod 13.26
Filarc	Filarc 35Z Filarc 85CP	Filarc PZ 6112
Oerlikon	Tenn cord Kb	Spoolcord TD-COR

Technical service and information

Knowledge Service Center will be pleased to assist with additional information concerning this product from SSAB Tunnplåt.

The particulars in this data sheet are correct at the time of going to print and are intended to give general guidance for the use of the product. Subject to changes arising from continual product development. The information and data must not be regarded as guaranteed values, unless specially confirmed in writing.

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