Preliminary SSAB HR355J2W Zero

Preliminary Product Sheet

Preliminary Product Sheets describe information for products that still are under development or in a trial delivery phase.

SSAB Zero™ steel is made using recycled steel and fossil-free energy.

The SSAB Zero™ EPDs and Certificate of Carbon Emissions is available on ssab.com. The availability of SSAB Zero™ products is subject to limitations and conditions of delivery have to be agreed upon separately.

General Product Description

SSAB HR355J2W Zero with its anti-corrosive properties minimizes the need for maintenance and corrosion-prevention treatment, contributing significantly to low maintenance costs throughout the product life cycle. In addition to low maintenance costs, the reduced need for corrosion prevention means less use of paint and solvents, making this product an environmentally friendly choice of steel. Typical applications are structural components for buildings, transmission poles, bridges and many others.

Dimension Range

SSAB HR355J2W Zero is available in thicknesses of 3.00-8.00 mm and widths up to 1610 mm as coils, slit coils or cut to length sheets in lengths up to 16 meters. Dimensions to be agreed upon the order.

Mechanical Properties

Yield strength R_{eL} (min MPa)	Tensile strength R_m (min MPa)	Elongation A_{50} (min %)	Min. bending radius 90° bend
345	485	19	2.0 x t

The mechanical properties are tested transverse to the direction of rolling.

Chemical Composition (ladle analysis)

C (max %)	Si (%)	Mn (%)	P (max %)	S (max %)	Al (%)	V (%)	Cu (%)	Cr (%)	Ni (max %)
0.19	0.30 - 0.65	0.80 - 1.25	0.035	0.030	0.020 - 0.06	0.02 - 0.10	0.25 - 0.40	0.40 - 0.65	0.40

Carbon Equivalent CEV

Delivery form	Hot rolled strip
Thickness (mm)	3 - 8
Typical CEV (%)	0.38

$$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$$

Tolerances

Thickness

Tolerances correspond to 2/3 of EN 10051 as default. Tighter tolerances are available upon request.

Length and Width

Tolerances for width and length are according to SSAB standard and offer narrower width and length tolerances compared to EN 10051.
For coil and sheet with mill edge, the width tolerances are corresponding to -0/+20 mm.
For sheet, the length tolerances are corresponding to -0/+8mm as a maximum.

Shape

According to EN 10051. Narrower tolerances are available on request.

Flatness

Tolerances guarantee a maximum flatness deviation of 3 mm/m in addition to the EN 10051 flatness requirements.
Flatness guarantees only apply for cut to length sheets.

Surface Properties

According to EN 10163-2 Class A, Subclass 3.

Delivery Conditions

Thermomechanically rolled (TM).
Available in as rolled or pickled surface condition with mill edge.

Fabrication and Other Recommendations

SSAB HR355J2W Zero has extra corrosion resistance with good formability, toughness and weldability.
For information concerning fabrication, see SSAB´s brochures on www.ssab.com or consult Tech Support.
Appropriate health and safety precautions must be taken when bending, welding, cutting, grinding or otherwise working on the products.

Contact Information

www.ssab.com/contact