

Docol 650LA

General Product Description

The Docol 650LA is a high-strength low-alloy steel that offer consistent properties for modern, rapid production methods. Typical applications include components and parts such as load-bearing structures, for example chassis. Docol HR650LA-UC can after agreement be adapted and delivered as dual certified with S650MC according to EN 10149-2:2010.

Dimension Range

Hot rolled / UC: thickness 2.00-6.00 mm, width up to 1600 mm.

Slit strip and cut to length sheets are available upon request.

Grade and coating specific restrictions on available dimensions may occur.

Mechanical Properties

Steel grade	Standard	Coating	Test direction	Yield strength R _{p0.2} (MPa)	Tensile strength R _m (MPa)	Elongation A ₈₀ ¹⁾ (min %)	Elongation A ₅ ²⁾ (min %)	Min. inner bending radius for 90°
Docol HR 650LA	SSAB	UC	L	650 - 780	700 - 850	12	14	1.2 xt

¹⁾ A₈₀ value applies for thicknesses < 3.00 mm.

²⁾ A₅ value applies for thicknesses ≥ 3.00 mm.

Chemical Composition (Ladle analysis)

Steel grade	Coating	C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (min %)	Ti (max %)	Nb (max %)	Cu (max %)
Docol HR 650LA	UC	0.12	0.60	2.00	0.025	0.010	0.015	0.15	0.09	0.20

Tolerances

Hot rolled (UC): Tolerances in accordance to EN10051.

Customized dimensional and shape tolerances are available upon request.

Surface Treatments

Uncoated (UC): available as oiled

All surface treatments are in accordance with RoHS directive (2011/65/EU) and do not contain Chromium VI (Cr⁶⁺). Surface treatments provide only temporary surface protection during transportation and storage. In order to avoid corrosion damages, care must be taken to keep the products dry during transportation and storage. If they become wet, they must be separated and situated so that they are dried quickly.

Fabrication and Other Recommendations

For information concerning fabrication, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com.

Appropriate health and safety precautions must be taken when bending, welding, cutting, grinding or otherwise working on the product.

Contact Information

www.ssab.com/contact