

Docol 600LA

General Product Description

The Docol 600LA 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 HR600LA-UC can after agreement be adapted and delivered as dual certified with S600MC according to EN 10149-2:2010.

Dimension range

Docol HR600LA / UC: thickness 2.00-6.00 mm, width up to 1530 mm, length up to 16000 mm.

Slitting to narrow coils and cutting to sheets are available upon request.

Mechanical Properties

Steelgrade	Coating	Yield strength R _{p0.2} (MPa)	Tensile strength R _m (MPa)	Elongation A ₈₀ (min %)	Min. inner bending radius for 90 °
Docol HR600LA	UC	600-	650- 820	13	1.1xt

The mechanical properties are tested longitudinal to the rolling direction.

Chemical Composition

C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (min %)	Ti (max %)	Nb (max %)	V (max %)
0.12	0.10	1.90	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 on request.

Coatings and surface treatments

Surface treatments

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.

Surface coating	Available surface treatment
UC (Hot-rolled)	Oiled (Only for pickled steel)
UC (Hot-rolled)	Unprotected

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