

SSAB Domex 420LA

General Product Description

SSAB Domex® 420LA is a high-strength, low-alloy steel for operations that require higher strength. It offers consistent properties for modern, rapid production methods.

SSAB Domex 420LA is available in thicknesses of 0.50-3.00 mm and widths up to 1500 mm as coils, slit coils and as cut to length in lengths up to 8.5 meters.

Mechanical Properties

| Yield strength R_{el} (MPa) | Tensile strength R_m (MPa) | Elongation $A_{80}^{*1)}$ (min %) | Min Bending Radius 90° Bend ¹⁾²⁾ (Ri/t) |
|----------------------------------|---------------------------------|--------------------------------------|---|
| 420- 520 | 470- 590 | 17 | 0.25xt |

The mechanical properties are valid in the transverse direction of rolling

*1) When the thickness is less than or equal to 0.7 mm, the minimum value for elongation is reduced by 2 units.

¹⁾ t = Sheet thickness

²⁾ For rolling direction and transverse direction.

Chemical Composition (Ladle analysis)

| C (max %) | Si (max %) | Mn (max %) | P (max %) | S (max %) | Al (min %) | Nb + Ti (max %) |
|--------------|---------------|---------------|--------------|--------------|---------------|--------------------|
| 0.10 | 0.50 | 1.40 | 0.030 | 0.025 | 0.015 | 0.10 |

Tolerances

Thickness and width

SSAB Domex 420LA is supplied to thickness and width tolerances in accordance with EN 10131. More narrow thickness tolerances according to the SSAB standard are available on request.

Length

Cut to length material is supplied to length tolerances in accordance with EN 10131.

Delivery Conditions

Cold rolled.

Fabrication and Other Recommendations

For information concerning welding and 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 welding, cutting, grinding or otherwise working on the product.

Contact Information

www.ssab.com/contact