

## SSAB Domex 355ML

### General Product Description

SSAB Domex 355ML is a thermomechanically rolled structural steel plate that provides high strength at low temperatures. SSAB Domex 355ML meets or exceeds the requirements of S355ML in EN 10025-4.

### Dimension Range

SSAB Domex 355ML is available in thicknesses of 6.00-63.00 mm and in widths up to 3300 mm depending on the thickness. More detailed dimensions are provided in the dimension program.

### Mechanical Properties

Thickness (mm)	Yield strength R <sub>eH</sub> (min MPa)	Tensile strength R <sub>m</sub> (MPa)	Elongation A <sub>5</sub> (min %)
6.00 - 16.00	355	470 - 630	22
16.01 - 40.00	345	470 - 630	22
40.01 - 63.00	335	450 - 610	22

The tensile test is made transverse to the rolling direction in compliance with EN 10025-4.

### Impact Properties

Min. impact energy for longitudinal testing, Charpy V 10x10 mm test specimens

40 J / -60 °C

The impact test is made longitudinally to the rolling direction in compliance with EN 10025-4.

### Chemical Composition (heat analysis)

C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (min %)	Nb (max %)	V (max %)	Ti (max %)
0.14	0.50	1.60	0.020	0.015	0.02	0.05	0.05	0.05

### Carbon Equivalent

Thickness (mm)	6.00 - 63.00
CET (max)	0.26
CEV (max %)	0.36

$$CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40} \qquad CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$$

### Tolerances

#### Thickness

SSAB Domex ML products are delivered with tolerances that correspond to ¼ of EN 10029 Class A as default value.

#### Length and Width

Width tolerances -0/+4-10 mm depending on the thickness. Length tolerances -0/+15-75 mm depending on length.

#### Shape

According to EN 10029.

#### Flatness

Maximum flatness deviation 6 mm/m.

#### Surface Properties

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

### Delivery Conditions

Thermomechanically rolled (M).

## Fabrication and Other Recommendations

Minimum inner bending radius is  $1.0 \times t$  transverse to the rolling direction and  $1.5 \times t$  longitudinal to the rolling direction up to max 20mm in thickness.

For information concerning fabrication, see SSAB's brochures on [www.ssab.com](http://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](http://www.ssab.com/contact)