



SPECIALISTS IN TUBES AND SECTIONS

SSAB is a highly specialized manufacturer of high-quality structural hollow sections, precision tubes and open sections. Steel designed specifically for tubes and profiles, high quality manufacturing and strong technical support make SSAB different from other producers.

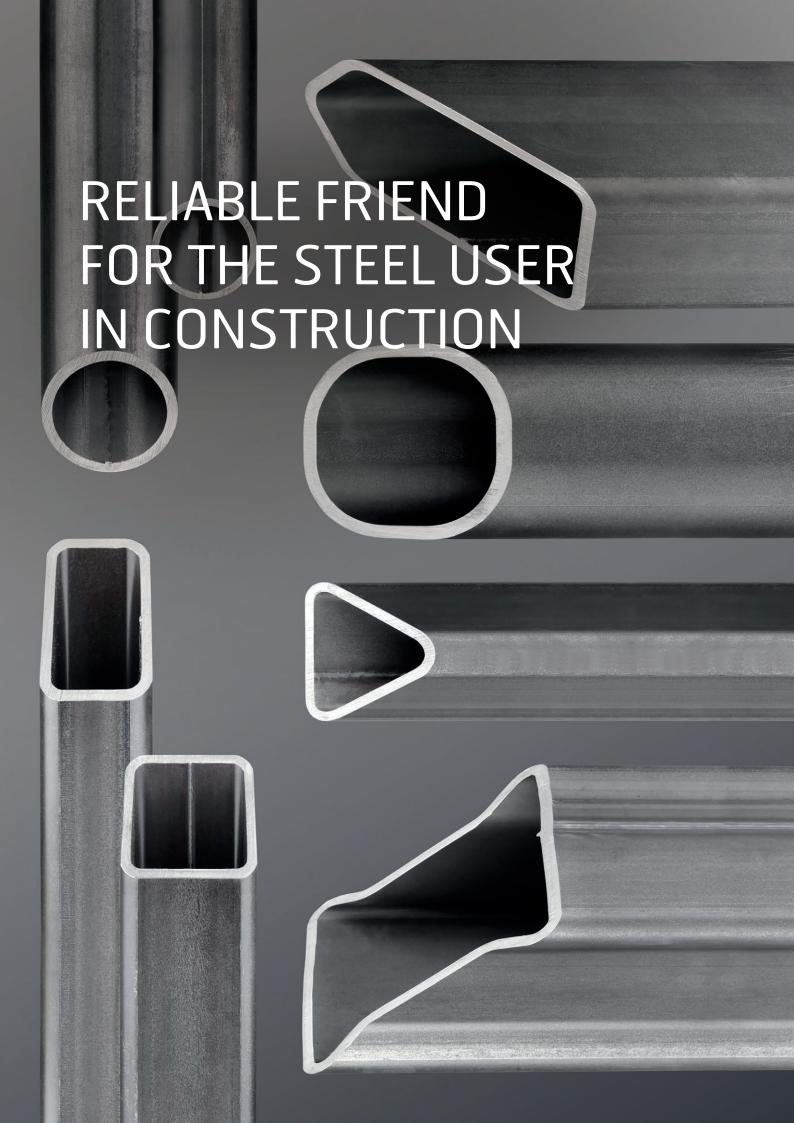
Our tubes and sections have been developed for challenging market sectors, such as construction, light-weight automotive applications, lifting and transport equipment, and furniture. They are strong, formable and can be coated for outdoor use. Additionally, the tolerances and cross-sectional shapes can be customized according to the customer's needs.

SSAB's tubes and sections are manufactured using our own steel. As a result, the quality and mechanical properties of the products remain stable and the carbon footprint is minimized. We control the entire process from steel production through to tube forming and welding. Thus we can tailor the properties and composition of the steel for optimal manufacturing of tubes and sections and for the needs of the end user.

In addition to our products, we provide you with a high level of technical support, design guidance and tools to make your work easier. We are also happy to provide training and other support for our products and services.

SSAB TUBES AND SECTIONS

- Batch-to-batch consistency
- The lowest carbon footprint
- Full control of the process from steelmaking to tubes
- Numerous tailoring possibilities
- Versatile design guidelines and tools





SSAB DOMEX TUBE - HOLLOW SECTIONS

The SSAB Domex Tube product family has been specially developed for demanding construction projects. The wide range of tubes offers the most cost-effective and light solution for the engineer. The welding of the tubes is straightforward and fabrication is cost effective.

Using SSAB Domex Tubes is easy with SSAB manuals and the FrameCalc design tool. SSAB Domex Tubes meet or exceed the requirements of EN 10219 standards and are available in steel grade S235 up to S550. They are designed for EC3 and EN 1090 steel construction.

DIMENSIONAL RANGE – SSAB DOMEX TUBES

Shape	External dimensions (mm)	Wall thickness (mm)
Circular	42.4 - 323.9	2.0 - 12.50
Square	40 x 40 - 300 x 300	2.0 - 12.50
Rectangular	50 x 30 - 400 x 200	2.0 - 12.50

STEEL GRADES - SSAB DOMEX TUBES

Steel grade	Yield strength, R _{p0.2} (min MPa)	Tensile strength, R _m (MPa)	Elongation, A (min %)	Impact testing, Charpy –V (min J)
SSAB Domex Tube S235JRH	235	340 - 470	24	27 (-40 °C)
SSAB Domex Tube S355J2H	355	470 - 630	20	27 (-40 °C)
SSAB Domex Tube Double Grade	420	500 - 630	20	40 (-40 °C)
SSAB Domex Tube S460MH	460	530 - 720	17	27 (-40 °C)
SSAB Domex Tube S500MH	500	580 - 760	15	27 (-40 °C)
SSAB Domex Tube S550MH	550	600 - 760	14	27 (-40 °C)





STRENX® TUBE -HOLLOW SECTIONS

Strenx Tubes deliver extreme performance in transport equipment, lifting equipment, construction and agricultural machinery. They can lighten existing products by up to 40 percent.

Strenx Tubes are available in steel grades S700, S900 and S960. The Strenx Tube 700 is CE-marked, making it suitable for use in construction. These tubes have excellent weldability and machinability.

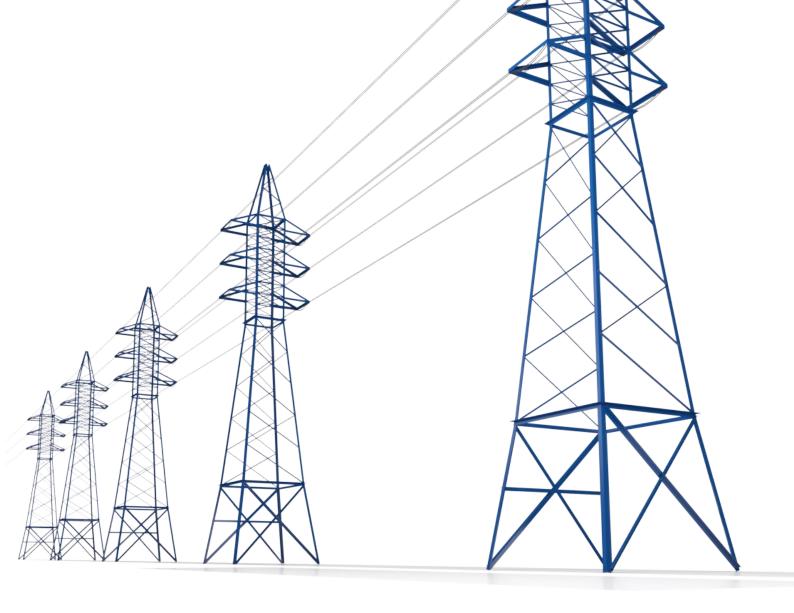
DIMENSIONAL RANGE – STRENX TUBES

Shape	External dimensions (mm)	Wall thickness (mm)
Circular	42.4 - 323.9	3.0 - 10.0
Square	40 x 40 - 300 x 300	3.0 - 10.0
Rectangular	50 x 30 - 400 x 200	3.0 - 10.0

STEEL GRADES – STRENX TUBES

Steel grade	Yield strength, R _{p0.2} (min MPa)	Tensile Strength, R _m (MPa)	Elongation, A (min %)	Impact testing Charpy –V (min J)
Strenx Tube 700MH	700	750 - 950	10	40 (-20 °C)
Strenx Tube 700MLH	700	750 - 950	10	27 (-50 °C)
Strenx Tube 900MH	900	930 - 1200	7	40 (-20 °C)
Strenx Tube 960MH	960	980 - 1250	6	40 (-20 °C)





SSAB WEATHERING TUBE -HOLLOW SECTIONS

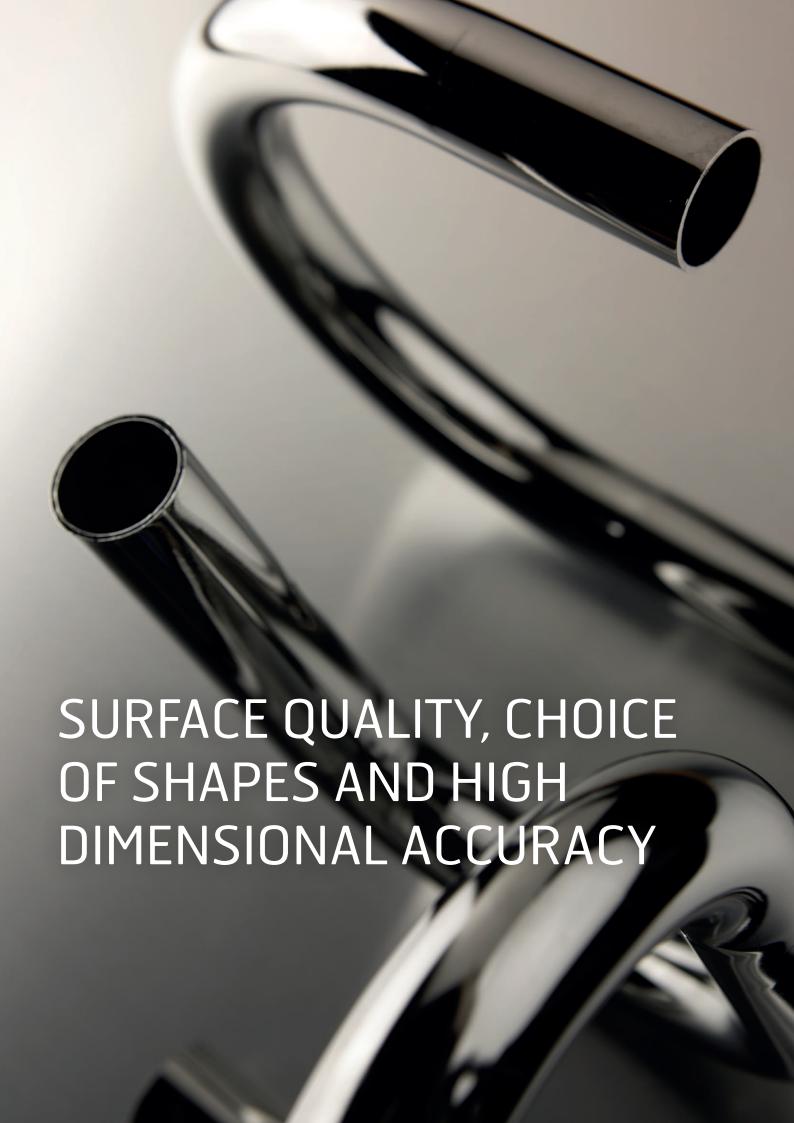
The SSAB Weathering Tube product family is ideal for advanced engineering and construction under tough atmospheric conditions. Using SSAB Weathering Tubes minimizes the need for normal maintenance and corrosion-prevention treatments. This tubing is available in steel grades S355, S550 and COR-TEN® B.

DIMENSIONAL RANGE – SSAB WEATHERING TUBES

Shape	External dimensions (mm)	Wall thickness (mm)
Circular	42.4 - 323.9	2.0 - 12.50
Square	40 x 40 - 300 x 300	2.0 - 12.50
Rectangular	50 x 30 - 400 x 200	2.0 - 12.50

STEEL GRADES – SSAB WEATHERING TUBES

Steel grade	Yield strength, R _{p0.2} (min MPa)	Tensile Strength, R _m (MPa)	Elongation, A (min %)	Impact testing Charpy –V (min J)
SSAB Weathering Tube 355WH	355	470 - 630	20	27 (-20 °C)
SSAB Weathering Tube 500WH	500	580 - 760	15	40 (-20 °C)
COR-TEN B Tube	355	510 - 680	20	27 (-20 °C)





When formability, high quality surface finish, homogeneity, corrosion resistance and tight tolerances are important, the SSAB Form Tube product family is the solution. There are almost infinite combinations of size, shape and grade available

The tubes are manufactured in accordance with EN 10305 standard and their formability clearly exceeds the requirements for the more formable grade (+CR2). Thanks to its excellent formability, manufacturing costs are reduced and challenging new designs become possible. In addition, the precise chemical composition significantly improves the weldability of the tubes and facilitates the engineering work.

SSAB Form Tubes are always supplied with an effective corrosion protection option, which is environmentally friendly and economical. There are numerous different coating options available for different conditions and uses.

Also available is the Plus – quality with even better dimensional accuracy and a surface suitable for demanding painting and glossy chrome plating.

The new Precision Steel Tube Handbook provides tips for maximizing the use of the product's features.

DIMENSIONAL RANGE – SSAB FORM TUBES

for all your tubular needs.

Shape	External dimensions (mm)	Wall thickness (mm)
Circular	16 - 88.9	0.9 - 3.0
Square	19 x 19 - 60 x 60	0.9 - 3.0
Rectangular	20 x 15 - 100 x 40	0.9 - 3.0
Flat Oval	25 x 15 - 78 x 38	0.9 - 3.0
Oval	22 x 16.5 - 31 x 17.5	0.9 - 3.0

STEEL GRADES - SSAB FORM TUBES*

Steel grade	Yield Strength, Rp0.2 (min MPa)	Tensile Strength, Rm (min MPa)	Elongation, A (min %)
SSAB Form Tube 190	190	270	35
SSAB Form Tube 220	220	310	28
SSAB Form Tube 320	320	410	23
SSAB Form Tube 420	420	490	14

^{*} also available are SSAB Boron Tube and SSAB Form Tube Plus, consult our experts for more information





DOCOL® TUBE - PRECISION TUBES

Docol Tubes make the ideal choice for safety components and structural parts of a car body and chassis. But they've also got much to offer to anyone looking for high-end solutions. Docol Tubes have good formability and high strength, which together offer exciting potential for new and innovative design ideas.

Docol Tubes offer the greatest strength range on the market. The tensile strength range starts at 500 MPa and goes up to an extraordinary 1000 MPa without any need for subsequent heat treatments. With coating options including zinc, galfan and galvanneal, corrosion resistance and superior paint adhesion can be combined for the first time in high-strength precision tubing.

DIMENSIONAL RANGE – DOCOL TUBES

Shape	External dimensions (mm)	Wall thickness (mm)
Circular	16 - 88.9	1.0 - 3.0
Square	19 x 19 - 60 x 60	1.0 - 3.0
Rectangular	20 x 15 - 100 x 40	1.0 - 3.0

STEEL GRADES – DOCOL TUBES

Steel grade	Yield Strength, R _{p0.2} (min MPa)	Tensile Strength, R _m (min MPa)	Elongation, A (min %)
Docol Tube 420LA	420	490	12
Docol Tube 500LA	500	540	8
Docol Tube 600LA	600	640	6
Docol Tube 700LA	700	740	5
Docol Tube 590DP	500	590	12/20
Docol Tube 780DP	600	780	7/12
Docol Tube 980DP	750	980	5
Docol Tube R8	690	800	8





SSAB OPEN SECTIONS

The range of SSAB cold-formed open sections includes a versatile combination of steel grades and cross-sectional shapes. The combination of the most suitable steel grade and shape can always be chosen for any component, thus improving the properties of the end product and the manufacturing costs.

Possible steel grades include our SSAB Domex, SSAB Weathering, Strenx and Docol product families. You can choose your steel grade from the level S235 all the way to the high-strength S900 steel.

Our range includes all the most common standard cross-sectional shapes. In addition to these, we deliver customer-specific shapes that enable the creation of completely new products or to improve an existing design. The profiles can be supplied as punched, laser cut, sandblasted, painted, hot-dip galvanized or zinc coated. Our cold-formed open sections are made in accordance with the EN 10162 standard.

