

## Domex

Steel grade	Yield strength [MPa]		Tensile strength [MPa]		Elongation			Bending radius 90° bend			Thickness [mm]
	Min	Max	Min	Max	A <sub>80</sub> [%] t < 3	A <sub>5</sub> [%] t ≥ 3	t ≤ 3 mm	3 < t ≤ 6 mm	t > 6 mm		
<b>Domex MC – Cold forming steels distinguished by high strength, excellent formability and weldability.</b>											
Domex 460 MC	460	520	670		15	19	0.5 x t	0.7 x t	0.9 x t	2.00–12.00	
Domex 500 MC	500	550	700		14	18	0.6 x t	0.8 x t	1.0 x t	2.00–12.00	
Domex 550 MC	550	600	760		14	17	0.6 x t	1.0 x t	1.2 x t	2.00–12.00	
Domex 600 MC	600	650	820		13	16	0.7 x t	1.1 x t	1.4 x t	2.00–10.00	
Domex 650 MC	650	700	880		12	14	0.8 x t	1.2 x t	1.5 x t	2.00–10.00	
Domex 700 MC	700 <sup>1</sup>	750	950		10	12	0.8 x t	1.2 x t	1.6 x t	2.00–10.00	
Domex 960	960	980				8		3.0 x t	3.0 x t	4.00–6.00	
Domex 1100 <sup>2</sup>	1100	1250				7		4.0 x t		3.00–6.00	
<b>Domex W – Domex 550 W and 700 W are high strength, weather resistant steels. They are characterised by good formability, impact toughness and weldability.</b>											
Domex 550 W	550	600				18		1.0 x t	1.5 x t	2.00–6.10	
Domex 700 W	700	750				12		2.0 x t		3.00–6.00	

1. For thickness > 8 mm, may be 20 MPa lower.

2. New grade under development with preliminary specification.

## Hardox

Steel grade	Hardness Nominal [HBW]	Impact toughness CVL typical 20 mm	Bending properties Transverse t < 8 mm R/t	Rel. service life interval <sup>1</sup>	CEV/CET <sup>2</sup> Typical 20 mm	Thickness [mm]
<b>Hardox – Workshop friendly abrasion resistant wear plates for all purposes, enabling lighter, stronger and more durable applications.</b>						
Hardox HiTuf	350	95 J – 40 °C <sup>3</sup>			0.55/0.36 <sup>3</sup>	40–130 <sup>4</sup>
Hardox 400 <sup>5</sup>	400	45 J – 40 °C	2.5	1	0.41/0.28 <sup>7</sup>	3–6
Hardox 400	400	45 J – 40 °C	2.5	1	0.43/0.29	4–130 <sup>4</sup>
Hardox 450	450	40 J – 40 °C	3.5	1.1–4.0	0.47/0.34	3–80 <sup>6</sup>
Hardox 450	450		4.0		0.39/0.31 <sup>8</sup>	1–2
Hardox 500	500	30 J – 40 °C	4.0	1.3–5.6	0.62/0.41	4–80
Hardox 550	550	30 J – 40 °C		1.5–8.1	0.72/0.48	10–50
Hardox 600	600	20 J – 40 °C		1.8–12.3	0.73/0.55	8–50
Hardox Extreme	650–700	< 15 J – 40 °C		2.4–17.9	0.84/0.59	8–25

All plates are produced with AccuRollTech™ precision guarantee or closer.

1. Max/min sliding wear by SSAB WearCalc (mild steel 0.2–0.8).

2. CEV=C+Mn/6+(Cr+Mo+V)/5+(Cu+Ni)/15; CET=C+(Mn+Mo)/10+(Cr+Cu)/20+Ni/40

3. 70 mm

4. Thicknesses up to 160 mm are available upon request.

5. ≤ 1600 mm, preferred widths are 1260, 1500 or 1600 mm.

6. Thicknesses up to 120 mm are available upon request.

7. Typical values 3.00–6.00 mm

8. Typical values 0.70–2.10 mm

## Docol

Steel grade	Yield strength [MPa]		Yield strength after bake hardening [MPa]	Tensile strength [MPa]		Elongation A <sub>80</sub> [%]	Bending radius 90° bend	Thickness [mm]
	Min	Max		Min	Max			
<b>Docol LA – Cold-rolled high strength low alloyed steels for light weight structures.</b>								
Docol 420 LA	420	520		470	590	17	0.25 x t	0.50–3.00
Docol 500 LA	500	620		570	710	14	0.50 x t	0.50–3.00
<b>Docol Roll – Cold-rolled steels designed for roll forming.</b>								
Docol Roll 800	600			800	950	10		0.50–2.10
Docol Roll 1000	850			1000	1200	5		0.50–2.10
<b>Docol DP – Cold-rolled dual phase steels with a microstructure mix of ferrite and martensite giving good formability and high strength. DP steels are suitable for advanced forming such as pressing.</b>								
Docol 500 DP	290	370	400	500	600	20	0 x t	0.50–2.10
Docol 500 DL	230	300	350	500	600	24	0 x t	0.50–2.10
Docol 600 DP	350	450	500	600	700	16	0 x t	0.50–2.10
Docol 600 DL	280	360	450	600	700	20	0 x t	0.50–2.10
Docol 600 GC	280	360	450	600	700	20	0 x t	0.50–2.10
Docol 800 DP	500	650	600	800	950	10	1.0 x t	0.50–2.10
Docol 800 DL	390	540	550	800	950	13	1.0 x t	0.50–2.10
Docol 1000 DP <sup>1</sup>	700	950	850	1000	1200	7	2.0 x t	0.50–2.10
<b>Docol M – Fully martensitic steels, suitable for applications with very high demands of strength and weldability. Best choice for ultimate weight reduction.</b>								
Docol 900 M <sup>1</sup>	700		900	900	1100	3	3.0 x t	0.50–2.10
Docol 1200 M <sup>1</sup>	950		1150	1200	1400	3	3.0 x t	0.50–2.10
Docol 1300 M <sup>1</sup>	1030	1300		1300	1500	3	3.0 x t	0.50–2.10
Docol 1400 M <sup>1</sup>	1150		1350	1400	1600	3	3.0 x t	0.50–2.10
Docol 1500 M <sup>1</sup>	1200			1500	1700	3	3.0 x t	0.51–2.00
<b>Docol W – Weather resistant steels, creates a red oxide layer on the surface preventing the steel from corrosion, suitable for outdoor applications.</b>								
Docol 700 W	700			800		5	2.0 x t	0.98–2.10
<b>Docol Strap – Packaging strap steels delivered in quenched and tempered conditions.</b>								
Docol Strap 800	750	900		750	900	15		
Docol Strap 930	930	1200		930	1200	12		
<b>Dogal LA – Cold-rolled high strength low alloyed steels for light weight structures.</b>								
Dogal 420 LAD	420	520		470	590	17	1.0 x t	0.60–2.50
Dogal 460 LAD	460	560		560	680	15	1.0 x t	0.80–2.00
Dogal 500 LAD	500	620		640	780	13	1.0 x t	0.80–2.00
Dogal H 550 LAD <sup>2</sup>	550	650		610	760	14	1.0 x t	2.00–2.50
Dogal H 700 LAD <sup>2</sup>	700	850		750	900	10	1.0 x t	2.00–2.50
<b>Dogal DP – Galvanized dual phase steels with a microstructure mix of ferrite and martensite giving good formability and high strength. DP steels are suitable for advanced forming such as pressing.</b>								
Dogal 500 DP	300	380	400	500	600	23	0.5 x t	0.80–2.00
Dogal 600 DP	350	480	500	600	700	16	1.0 x t	0.70–2.00
Dogal 800 DP	500	640	600	800	950	12	1.0 x t	0.80–2.00
Dogal 800 DPX	620	770	770	800	950	10	0.9 x t	0.80–2.00
Dogal 1000 DPX	800	1000		1000	1200	6	2.5 x t	1.00–2.00

1. Also available with electro galvanized surface.

2. Only available with hot-rolled substrate.

# Tech Support



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## Contact

**SSAB**  
 Tech Support  
 SE-781 84 Borlänge  
 Sweden

+46 243 70 000  
 techsupport@ssab.com

[www.ssab.com](http://www.ssab.com)

# Weldox

Steel grade	Yield Strength [MPa]	Toughness CVT typical 20 mm	Bending properties Transverse t < 8 mm R/t	Tensile strength [MPa]		CEV/CET <sup>1</sup> typical	Thickness [mm]
	Min			Min	Max		
<b>Weldox – Versatile high strength structural steels, enabling lighter and more innovative structures.</b>							
Weldox 700	700	165 J – 40 °C	1.5	780	930	0.43/0.29	4–140 <sup>2</sup>
Weldox 900	900	88 J – 40 °C	2.5	940	1100	0.55/0.36	4–80 <sup>2</sup>
Weldox 960	960	84 J – 40 °C	2.5	980	1150	0.55/0.37	4–50 <sup>2</sup>
Weldox 1100	1100	67 J – 40 °C <sup>3</sup>	3.5	1250	1550	0.71/0.41	4–25 <sup>2</sup>
Weldox 1300	1300	32 J – 40 °C <sup>4</sup>	4.0 <sup>5</sup>	1400	1700	0.63/0.40	4–10

All plates are produced with AccuRollTech™ precision guarantee or closer.

- CEV=C+Mn/6+(Cr+Mo+V)/5+(Cu+Ni)/15; CET=C+(Mn+Mo)/10+(Cr+Cu)/20+Ni/40 20 mm (8 mm above 800 MPa).
- Thicker materials are available upon request. Weldox 700: 160 mm, Weldox 900: 120 mm, Weldox 960: 100 mm, Weldox 1100: 40 mm
- For 6 mm
- For 6 mm and half size test specimen.
- t < 6: 3.5 t ≥ 6: 4.0

# Prelaq

Customer offer	Customer segment	Steel grade	Paint system
<b>Prelaq – Prepainted sheet steel in a rainbow of colors.</b>			
Prelaq RWS	Manufacturers of effective and easy installed roof rainwater systems, based on double sided prepainted sheet steel.	FAX/PLX	Nova
Prelaq PLX/FA	Long strip roofing and fittings with strict demands on functionality, flexibility and appearance.	PLX/FAP	GreenCoat/ Nova/PVDF
Prelaq Energy	Energy saving objects, indoor and outdoor roofs and walls. Applications where low thermal movement is beneficial like doors and sandwich panels.	PLX/SUB 280/ SUB 350	Energy Exterior/ Energy Interior
Prelaq Profiling	Profiled sheet steel, steel roof tiles, cassettes and sandwich panels.	SUB 280/ SUB 350/420YP	Nova/ Polyester/ Plastisol/PVDF

Zinc coatings available in 275–350 g/m<sup>2</sup>.  
 The extensive color program can be found on the website [www.prelaq.com](http://www.prelaq.com).

# Toolox

	Hardness guaranteed [HBW]	Impact energy guaranteed Min [J]	Yield strength R <sub>p0.2</sub> [MPa]*	Tensile strength R <sub>m</sub> [MPa]*	Elongation A <sub>5</sub> [%]*	Compressive strength R <sub>c0.2</sub> [MPa]*	Impact energy [J]*	Thickness [mm]		
<b>Toolox 33 – A quenched and tempered tool steel, designed to have low residual stresses – resulting in good dimensional stability.</b>										
-40 °C							27	5–130		
-20 °C							45			
+20 °C	275–325	35	850	980	16	800	100			
+200 °C			800	900	12	750	170			
+300 °C						700	180			
+400 °C						590	180			
+500 °C						560				
	Hardness guaranteed [HBW]	Impact energy guaranteed Min [J]	Yield strength R <sub>p0.2</sub> [MPa]*	Tensile strength R <sub>m</sub> [MPa]*	Elongation A <sub>5</sub> [%]*	Compressive strength R <sub>c0.2</sub> [MPa]*	Impact energy [J]*	Approximate Hardness [HRC]*	R <sub>c0.2</sub> [MPa] after 170 hrs soaking time at the actual temperature*	Thickness [mm]
<b>Toolox 44 – A quenched and tempered tool steel with very low residual stresses. In spite of a hardness of 45 HRC it boasts very good machinability and is unmatched on the market.</b>										
-40 °C							14			5–130
-20 °C							19			
+20 °C	410–475	18	1300	1450	13	1250	30	45		
+200 °C			1200	1380	10	1120	60			
+300 °C						1120	80			
+400 °C						1060	80		1060	
+500 °C						930			910	

The typical testing temperature for Toolox is room temperature.  
 All other values are tested randomly and they are for information only.  
 \* Values are for guidance only.

# Sales contacts



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