



PREMIUM QUALITY  
WITH REDUCED  
CARBON FOOTPRINT

# ELECTRO-GALVANIZED STEEL STRIP

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Range of supply  
November 2024

Steel grade	Norms and specifications	Test dir.	Yield strength $R_{p0.2}$ [MPa]	Tensile strength $R_m$ [MPa]	Total elong. $A_{80}$ min. [%]	r value min. [-]	n value min. [-]	BH <sub>2</sub> min. [MPa]	Exposed
<b>Mild steels</b>									
<b>EN 10152:2009</b>			<b><math>R_e</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{90}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
DC01	EN 10152:2009	Trans.	140 - 280	270 - 410	28	-	-	-	✓
DC03	EN 10152:2009	Trans.	140 - 240	270 - 370	34	1.3	-	-	✓
DC04	EN 10152:2009	Trans.	140 - 220	270 - 350	37	1.6	0.17	-	✓
DC05	EN 10152:2009	Trans.	140 - 200	270 - 330	39	1.9	0.19	-	✓
DC06	EN 10152:2009	Trans.	130 - 180	270 - 350	41	2.1	0.21	-	✓
DC07	EN 10152:2009	Trans.	110 - 160	250 - 310	43	2.5	0.22	-	✓
<b>VDA 239-100</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
CR1	VDA 239-100	Trans.	140 - 300	270 - 410	28	-	-	-	✓
CR2	VDA 239-100	Trans.	140 - 240	270 - 370	34	1.3	0.16	-	✓
CR3	VDA 239-100	Trans.	140 - 220	270 - 350	38	1.8	0.18	-	✓
CR4	VDA 239-100	Trans.	140 - 190	270 - 330	39	1.9	0.20	-	✓
CR5	VDA 239-100	Trans.	110 - 180	260 - 330	41	2.1	0.22	-	✓
CR6	VDA 239-100	Trans.	110 - 160	250 - 310	43	2.3	0.22	-	✓
<b>Structural steels</b>									
<b>DIN 1623</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
S215G	DIN 1623	Trans.	≥ 215	360 - 510	20	-	-	-	-
<b>Micro-alloyed steels</b>									
<b>EN 10268 and voestalpine special grade</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{90}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
HC260LA	EN 10268	Trans.	260 - 330	350 - 430	26	-	-	-	-
HC300LA	EN 10268	Trans.	300 - 380	380 - 480	23	-	-	-	-
HC340LA	EN 10268	Trans.	340 - 420	410 - 510	21	-	-	-	-
HC380LA	EN 10268	Trans.	380 - 480	440 - 580	19	-	-	-	-
HC420LA	EN 10268	Trans.	420 - 520	470 - 600	17	-	-	-	-
HC460LA	EN 10268	Trans.	460 - 580	510 - 660	13	-	-	-	-
HC500LA	EN 10268	Trans.	500 - 620	550 - 710	12	-	-	-	-
HC550LA	voestalpine	Trans.	min. 550	min. 590	10	-	-	-	-
<b>VDA 239-100</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_0</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
CR210LA	VDA 239-100	Long.	210 - 300	310 - 410	29	1.0	0.15	-	-
CR240LA	VDA 239-100	Long.	240 - 320	320 - 430	27	-	0.14	-	-
CR270LA	VDA 239-100	Long.	270 - 350	350 - 460	25	-	0.13	-	-
CR300LA	VDA 239-100	Long.	300 - 380	380 - 490	23	-	0.12	-	-
CR340LA	VDA 239-100	Long.	340 - 430	410 - 530	21	-	0.10	-	-
CR380LA	VDA 239-100	Long.	380 - 470	450 - 570	19	-	-	-	-
CR420LA	VDA 239-100	Long.	420 - 520	480 - 600	17	-	-	-	-
CR460LA	VDA 239-100	Long.	460 - 580	520 - 680	15	-	-	-	-
CR500LA	VDA 239-100	Long.	500 - 620	560 - 740	13	-	-	-	-

Steel grade	Norms and specifications	Test dir.	Yield strength $R_{p0.2}$ [MPa]	Tensile strength $R_m$ [MPa]	Total elong. $A_{80}$ min. [%]	r value min. [-]	n value min. [-]	BH <sub>2</sub> min. [MPa]	Exposed
<b>Bake-hardening steels</b>									
<b>EN 10268</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{90}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
HC180B	EN 10268	Trans.	180 - 230	290 - 360	34	1.6	0.17	35	✓
HC220B	EN 10268	Trans.	220 - 270	320 - 400	32	1.5	0.16	35	✓
HC260B	EN 10268	Trans.	260 - 320	360 - 440	29	-	-	35	✓
HC300B	EN 10268	Trans.	300 - 360	390 - 480	26	-	-	35	-
<b>VDA 239-100</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_0</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
CR180BH	VDA 239-100	Long.	180 - 240	290 - 370	34	1.1	0.17	20/30	✓
CR210BH	VDA 239-100	Long.	210 - 270	320 - 400	32	1.1	0.16	20/30	✓
CR240BH	VDA 239-100	Long.	240 - 300	340 - 440	29	1.0	0.15	20/30	✓
CR270BH	VDA 239-100	Long.	270 - 330	360 - 460	27	-	0.13	20/30	-
<b>High-strength IF steels</b>									
<b>EN 10268</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{90}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
HC180Y	EN 10268	Trans.	180 - 230	330 - 400	35	1.7	0.19	-	✓
HC220Y	EN 10268	Trans.	220 - 270	340 - 420	33	1.6	0.18	-	✓
HC260Y	EN 10268	Trans.	260 - 320	380 - 440	31	1.4	0.17	-	✓
<b>VDA 239-100</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_0</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
CR180IF	VDA 239-100	Long.	180 - 240	320 - 400	35	1.2	0.19	-	✓
CR210IF	VDA 239-100	Long.	210 - 270	340 - 420	33	1.1	0.18	-	✓
CR240IF	VDA 239-100	Long.	240 - 300	360 - 440	31	1.0	0.17	-	✓
<b>Carbon-manganese steels</b>									
<b>Special voestalpine grade</b>			<b><math>R_{p0.2}</math></b>	<b><math>R_m</math></b>	<b><math>A_{80}</math></b>	<b><math>r_{90}</math></b>	<b><math>n_{10-20/Ag}</math></b>	<b>BH<sub>2</sub></b>	<b>E</b>
HT440CM	voestalpine	Trans.	280 - 380	≥ 440	25	-	-	-	-
HT590CM	voestalpine	Trans.	420 - 570	≥ 590	14	-	-	-	-

Steel grade	Norms and specifications	Test dir.	Yield strength $R_{p0.2}$ [MPa]	Tensile strength $R_m$ [MPa]	Total elong. $A_{80}$ min. [%]	r value min. [-]	n value min. [-]	BH <sub>2</sub> min. [MPa]	Exposed
<b>Dual-phase steels</b>									
<b>EN 10338</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-UE}$	BH <sub>2</sub>	E
HCT450X	EN 10338	Long.	260 - 340	≥ 450	27	-	0.16	30	✓
HCT490X	EN 10338	Long.	290 - 380	≥ 490	24	-	0.15	30	✓
HCT590X	EN 10338	Long.	330 - 430	≥ 590	20	-	0.14	30	✓
HCT780X	EN 10338	Long.	440 - 550	≥ 780	14	-	-	30	-
HCT980X	EN 10338	Long.	590 - 740	≥ 980	10	-	-	30	-
<b>VDA 239-100 and voestalpine special grade</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-20/Ag}$	BH <sub>2</sub>	E
CR260Y450T-DP	voestalpine	Long.	260 - 340	450 - 560	27	-	0.16	30	✓
CR290Y490T-DP	VDA 239-100	Long.	290 - 380	490 - 600	24	-	0.15	30	✓
CR330Y590T-DP	VDA 239-100	Long.	330 - 430	590 - 700	20	-	0.14	30	✓
CR360Y590T-DP	voestalpine	Long.	360 - 460	590 - 700	19	-	0.14	30	✓
CR440Y780T-DP	VDA 239-100	Long.	440 - 550	780 - 900	14	-	0.11	30	-
CR500Y780T-DP	VDA 239-100	Long.	500 - 620	780 - 900	12	-	-	30	-
CR550Y980T-DP	voestalpine	Long.	550 - 730	980 - 1130	10	-	-	-	-
CR590Y980T-DP	VDA 239-100	Long.	590 - 740	980 - 1130	10	-	-	-	-
CR660Y980T-DP	voestalpine	Trans.	660 - 810	980 - 1130	10	-	-	-	-
CR700Y980T-DP	VDA 239-100	Long.	700 - 850	980 - 1130	8	-	-	-	-
<b>Dual-phase high-ductility steels</b>									
<b>VDA 239-100</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-20/Ag}$	BH <sub>2</sub>	E
CR330Y590T-DH	VDA 239-100	Long.	330 - 430	590 - 700	26	-	0.16	30	-
CR440Y780T-DH	VDA 239-100	Long.	440 - 550	780 - 900	18	-	0.13	30	-
CR700Y980T-DH	VDA 239-100	Long.	700 - 850	980 - 1180	13	-	-	-	-

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<b>Complex-phase steels</b>									
<b>EN 10338</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-UE}$	BH <sub>2</sub>	E
HCT780C	EN 10338	Long.	570 - 720	≥ 780	10	-	-	30	-
HCT980C	EN 10338	Long.	780 - 950	≥ 980	6	-	-	30	-
<b>VDA 239-100 and voestalpine special grade</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-20/Ag}$	BH <sub>2</sub>	E
CR570Y780T-CP	VDA 239-100	Long.	570 - 720	780 - 920	10	-	-	30	-
CR660Y780T-CP	voestalpine	Long.	660 - 830	780 - 980	10	-	-	30	-
CR780Y980T-CP	VDA 239-100	Long.	780 - 950	980 - 1140	6	-	-	30	-
CR900Y1180T-CP	VDA 239-100	Long.	900 - 1100	1180 - 1350	5	-	-	30	-
CR950Y1180T-CP	voestalpine	Long.	950 - 1150	1180 - 1350	5	-	-	30	-
<b>Complex-phase steels high-ductility</b>									
<b>VDA 239-100</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-UE}$	BH <sub>2</sub>	E
CR780Y980T-CH	VDA 239-100	Long.	780 - 950	980 - 1140	10	-	-	-	-
CR900Y1180T-CH	VDA 239-100	Long.	900 - 1100	1180 - 1350	7	-	-	-	-
CR1000Y1370T-CH	VDA 239-100	Long.	1000 - 1250	1370 - 1550	5	-	-	-	-
<b>Multi-phase steels high-formability</b>									
<b>VDA 239-100</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-UE}$	BH <sub>2</sub>	E
CR600Y980T-FH	VDA 239-100	Long.	600 - 750	980 - 1130	19	-	0,11	-	-
CR850Y1180T-FH	VDA 239-100	Long.	850 - 1050	1180 - 1350	13	-	-	-	-
<b>Martensitic steels</b>									
<b>VDA 239-100</b>			$R_{p0.2}$	$R_m$	$A_{80}$	$r_{90}$	$n_{10-UE}$	BH <sub>2</sub>	E
CR860Y1100T-MS	VDA 239-100	Long.	860 - 1120	1100 - 1320	3	-	-	-	-
CR1030Y1300T-MS	VDA 239-100	Long.	1030 - 1360	1300 - 1550	3	-	-	-	-

# SURFACES AND FUNCTIONAL SURFACE TREATMENT

Surfaces according to EN 10152 and VDA 239-100				
Product variant	Norms and specifications	Coatings*	Normal surface	Best surface
Zinc coating on both sides	EN 10152 VDA 239-100	ZE 2.5 μ - 10 μ EG 12 - 70	A U	B E
Zinc coating on one side	EN 10152 VDA 239-100	ZE 2.5 μ - 10 μ EG 12 - 70	A U	- -

\* Other coatings upon request. Differential galvanization possible.

Functional surface treatment			
Product variant	clearcover® Cr-free passivation and phosphated (and oiled)	Phosphated (and oiled)	Oiled (e.g. prelube2)
Zinc coating on both sides	√ (√)	√ (√)	√
Zinc coating on one side	- (-)	- (-)	√



Premium quality with reduced carbon footprint

Electrogalvanized steel strip – greentec steel Edition

Max. carbon footprint 2.19 kg CO<sub>2</sub>e per kg of steel <sup>1)</sup>

<sup>1)</sup> per EN 15804+A2 (EPD methodology) cradle to gate

All products, dimensions and steel grades listed in each voestalpine supply range are available as greentec steel Edition.

# DIMENSIONS

Available dimensions: wide strip (coil)			
Thickness [mm]	Width max. [mm]	Outside diameter max. [mm]	Inside diameter [mm]
0.40 - 2.50	1600	2000	500 / 600

Available dimensions: slit (slit strip)			
Thickness [mm]	Strip width min. [mm]	Outside diameter [mm]	Inside diameter [mm]
0.40 - 2.50	10	700 - 2000	500 / 600

Available dimensions: cut-to-length (sheet)			
Thickness [mm]	Width min. [mm]	Length [mm]	Package weight max. [t]
0.40 - 2.50	210	200 - 6700	6

Indicated references are standard values. The available combinations of widths and thicknesses and supply forms vary depending on the steel grade. Certain limitations possible depending on thickness.

This document provides an overview of the electro-galvanized steel strip products supplied by the voestalpine Steel Division. Other grades are available upon request. Please find further information and downloads under the following link: [www.voestalpine.com/steel](http://www.voestalpine.com/steel)

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ONE STEP AHEAD.