



Hot Rolled Zinc Coated Steels

Introduction

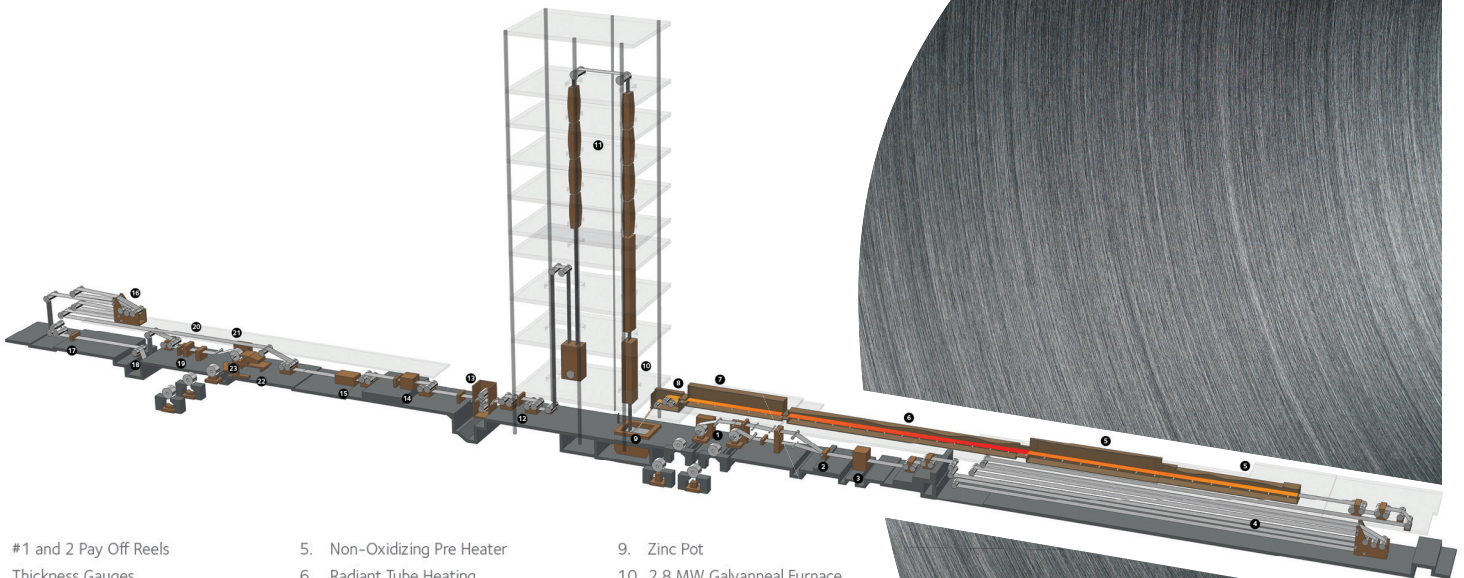
ArcelorMittal offers a variety of hot dip galvanized and galvanized (zinc coated) steel products using hot rolled strip substrate depending on ordered thickness. The hot rolled steel substrate of coated steels can be selected from different steel qualities, from mild steel to advanced high strength steels, and coated with different coating thickness' depending on the end use requirements. Hot rolled coated steel thickness are thicker than that of cold-rolled galvanized sheet, so they find application in structural members with low surface requirements but high strength and thickness requirements for e.g. chassis structure of cars.

Technical Specification

The production source in North America is the No.6 line at ArcelorMittal Dofasco. Products are available in the below coating thicknesses and grade families.

For GA: 30 g/m² per side to 60 g/m²/side (ZF75/A25 to ZF120/A40)

For GI: 50g/m² per side to 225 g/m²/side (Z90/G30 to Z450/G140)



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|------------------------------------|-----------------------------|-------------------------------|
| #1 and 2 Pay Off Reels | 5. Non-Oxidizing Pre Heater | 9. Zinc Pot |
| Thickness Gauges | 6. Radiant Tube Heating | 10. 2.8 MW Galvanneal Furnace |
| Mashed Lap Welder | 7. Jet Cooling | 11. After Pot Cooling |
| Entry Horizontal Strip Accumulator | 8. Hot Bridle | |
| 12. Coating Weight Gauge | 16. Exit Strip Accumulator | 20. Electrostatic Oiler |
| 13. 1200 ton 4-Hi Temper Mill | 17. Ink Jet Stenciler | 21. Single Tension Reel |
| 14. Tension Leveler | 18. Inspection Station | 22. Belt Wrapper |
| 15. Chromating | 19. Thickness Gauge | 23. Quick Sleeve Changer |

Mechanical Properties - Typical

Grade	Type/Dir	YS (MPa)	UTS (MPa)	%TE
Low Carbon	ASTM-L	230	330	38
HR240LA	ASTM-L	280	360	35
HR270LA	ASTM-L	310	400	34
HR300LA	ASTM-L	360	430	31
HR340LA	ASTM-L	390	460	29
HR380LA	ASTM-L	430	500	27
HR420LA	ASTM-L	470	520	25
HR500LA	ASTM-L	550	600	22
HR550LA	ASTM-L	630	680	20
FB590	ASTM-L	560	620	20
FB590	JIS-T	570	630	24
FB780/700LA	ASTM-L	760	820	16
FB780	JIS-T	800	850	17
USIBOR® 1500	Inquire			

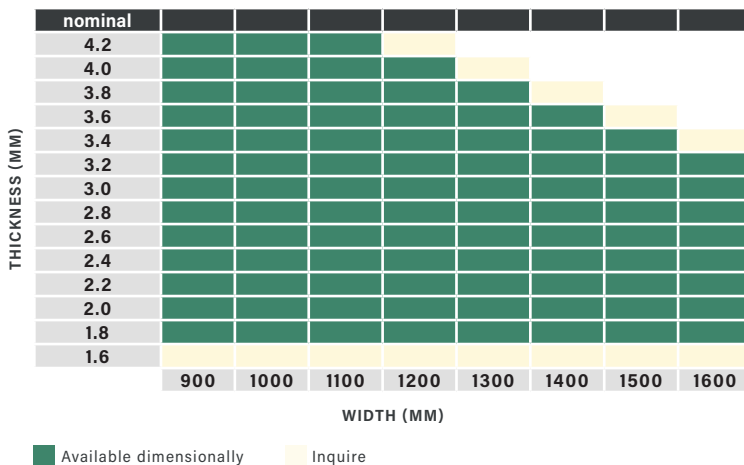
Chemistry - Typical

Grade	Coating	%C	%Mn	%Si	Other
Low Carbon	GA/GI	0.04	0.20	--	Ti, B
HR240LA	GA/GI	0.04	0.20	--	Ti
HR270LA	GA/GI	0.05	0.20	--	Ti
HR300LA	GA/GI	0.06	0.45	0.07	Nb
HR340LA	GA/GI	0.06	0.65	0.12	Nb
HR380LA	GA/GI	0.06	0.65	0.23	Nb
HR420LA	GA/GI	0.06	0.65	0.12	Nb
HR500LA	GA/GI	0.06	1.15	0.23	Nb
HR550LA	GA/GI	0.06	1.25	0.33	Nb, Ti
FB590	GA/GI	0.06	1.50	0.30	Nb, Ti
FB780/700LA	GA/GI	0.06	1.50	0.20	Cr, Mo, Nb, Ti
USIBOR® 1500	GA	0.23	1.20	0.25	Cr, Ti, B

Availability

ArcelorMittal has been commercially supplying hot rolled Zn coated Galvanize and Galvannealed steels for the below line capability and grade specific dimensions. USIBOR®1500 GA is currently available only as cold rolled substrate, please inquire for hot rolled substrate USIBOR®1500 coated products.

Coated HR Dimensions



Hot Rolled	Coating	Thick Range	Max width
Low Carbon	GA/GI	1.8 to 4.2mm	1575 mm
HR240LA	GA/GI	1.8 to 4.2mm	1575 mm
HR270LA	GA/GI	1.8 to 4.2mm	1575 mm
HR300LA	GA/GI	1.8 to 4.2mm	1575 mm
HR340LA	GA/GI	1.8 to 4.2mm	1575 mm
HR380LA	GA/GI	1.8 to 4.2mm	1575 mm
HR420LA	GA/GI	1.8 to 4.2mm	1575 mm
HR500LA	GA/GI	1.9 to 4.2mm	1575 mm
HR550LA	GA/GI	2.0 to 4.2mm	1450 mm
FB590	GA/GI	2.1 to 4.2	1450 mm
FB780/700LA	GA/GI	2.4 to 4.2	1400 mm
USIBOR® 1500	GA	Inquire	

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