



ArcelorMittal

ArcelorMittal Rails & Special Sections



Track Shoes

ArcelorMittal Special Profiles

Track Shoes

ArcelorMittal – Rails & Special Sections is a major player in the construction equipment industry by supplying a comprehensive range of single, double and triple grouser track shoe profiles to its customers located anywhere in the world. They are designed to perform well in heavy duty environments without compromising the product’s service life.

Our rolling mill is located in Rodange (Luxembourg), where we produce environmentally friendly products and services for the national and international markets. We have been leading the evolution of steel in transportation, construction, mining, etc., to secure the best future for the industry and future generations to come.

ArcelorMittal has implemented and keeps updated a quality assurance system that fulfils the requirements of the international standard ISO 9001, Environmental Management System in accordance with the International Standard ISO 14001 and Occupational Health and Safety (OH&S) Management System according ISO 45001.

This leaflet offers a quick overview of the standard “open roll” profiles available at our Rodange site, in Luxembourg. Our team will provide you detailed information on the current range of track shoes and help you to develop unique solutions to meet your requirements.



CERTIFICATE

The ESCEM asbl Certification Body hereby certifies that the company

**Long Products Luxembourg
ArcelorMittal Belval & Differdange S.A.**
66 Rue de Luxembourg
L – 4221 Esch-sur-Alzette

including the locations according to annex

has established and applies a quality, environmental and occupational health and safety management system for the scope


Design and manufacture of steel semi and finished products (beams, sheet piles, merchant bars, rails, special sections, completed elements, as well as completed structural elements).

An audit was performed, report No 112
Proof has been furnished that the requirements according to
ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018
are fulfilled.

The certificates are valid from 28.10.2022 until 27.10.2025
Certificates Registration No
900 112, 1400 112 & 45001 112




Esch-sur-Alzette le 25/10/2022
ESCEM asbl 1, Avenue des Terres
Rueges L-4204 Esch-sur-Alzette



ANNEX

Main Certificates Registration No: 900 112, 1400 112 & 4500 112
Validity from 28.10.2022 until 27.10.2025

Certificate No:	Company site:	Scope :
900 112/01 1400 112/01 4500 112/01	ArcelorMittal Belval & Differdange S.A. Site de Belval Boulevard Charles de Gaulle L – 4008 Esch-sur-Alzette	Design and manufacture of steel semi and finished products (beams, sheet piles and merchant bars)
900 112/02 1400 112/02 4500 112/02	ArcelorMittal Belval & Differdange S.A. Site de Differdange Rue de Emile Mark L – 4503 Differdange	Design and manufacture of steel semi and finished products (beams, sheet piles as well as completed structural elements)
900 112/03 1400 112/03 4500 112/03	ArcelorMittal Belval & Differdange S.A. Site de Rodange 2, rue de l'Industrie L – 4823 Rodange	Design and manufacture of steel semi and finished products (merchant bars, rails, special sections as well as completed elements)



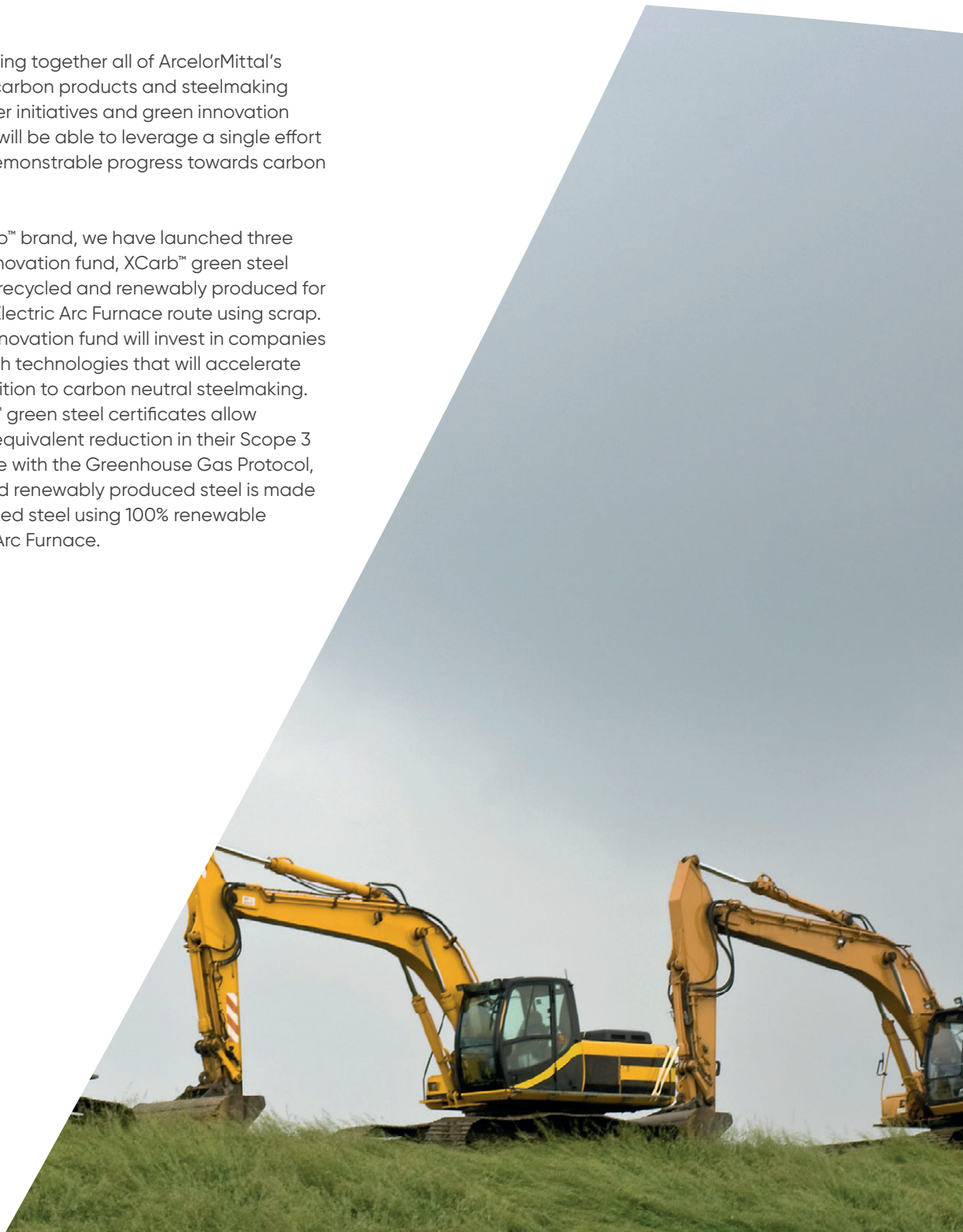
Achieving carbon-neutral steelmaking

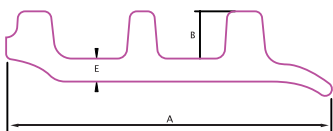
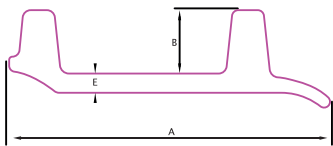
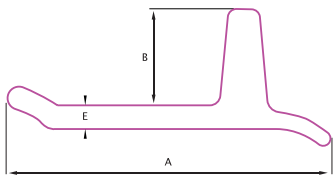
ArcelorMittal Europe has committed to reduce CO2 emissions by 35% by 2030, with a further ambition to be carbon neutral by 2050, in line with the EU's Green Deal and the Paris Agreement.

As the leading global steel company, we are engaged in the most important challenge faced by the industry – that of producing all the steel the world needs in an environmentally sustainable way.

XCarb™ is designed to bring together all of ArcelorMittal's reduced, low and zero-carbon products and steelmaking activities, as well as wider initiatives and green innovation projects. As a result, we will be able to leverage a single effort focused on achieving demonstrable progress towards carbon neutral steel.

Alongside the new XCarb™ brand, we have launched three initiatives: the XCarb™ innovation fund, XCarb™ green steel certificates and XCarb™ recycled and renewably produced for products made via the Electric Arc Furnace route using scrap. ArcelorMittal's XCarb™ innovation fund will invest in companies developing breakthrough technologies that will accelerate the steel industry's transition to carbon neutral steelmaking. Our industry-first XCarb™ green steel certificates allow customers to report an equivalent reduction in their Scope 3 emissions, in accordance with the Greenhouse Gas Protocol, and XCarb™ recycled and renewably produced steel is made from high levels of recycled steel using 100% renewable electricity in an Electric Arc Furnace.





SECTION	WEIGHT (Kg/m)	DIMENSIONS (mm)		
		A	B	E
SINGLE GROUSERS				
TS 1-31	30,56	232,50	65,00	12,00
TS 1-32A	31,10	236,50	58,70	13,30
TS 1-32	32,20	236,50	58,70	13,80
TS 1-38	38,20	245,00	71,50	14,70
TS 1-47	47,35	247,60	71,40	16,60
TS 1-53	53,90	242,50	84,00	19,00
TS 1-56A	50,90	260,00	77,50	16,50
TS 1-56	55,88	260,00	77,50	19,00
TS 1-56L	56,33	264,00	77,50	19,00
TS 1-71	71,05	301,00	87,50	20,50
TS 1-73	73,51	305,00	93,00	20,50
TS 1-84	83,90	322,00	93,00	23,00
DOUBLE GROUSERS				
TS 2-49	48,52	250,00	49,50	15,00
TS 2-66	66,35	261,00	46,00	25,00
TS 2-73	73,70	306,00	50,00	20,50
TS 2-73B	80,78	306,00	50,00	23,50
TS 2-104	104,11	330,00	50,00	35,00
TRIPLE GROUSERS				
TS3-27	27,80	219,00	30,00	8,50
TS3-27B	30,30	219,00	30,00	10,00
TS3-27C	32,08	219,00	30,00	11,00
TS 3-27D	27,90	219,00	26,00	10,00
TS3-28AA	26,50	217,50	26,00	8,50
TS3-28A	27,20	217,50	26,00	9,00
TS3-28	28,87	217,50	26,00	10,00
MR0	29,50	203,00	25,30	12,70
TS3-32	32,64	222,50	28,00	12,50
TS3-38	38,92	240,00	26,50	13,00
TS3-38B	42,55	240,00	26,50	15,00
TS3-40	40,27	247,00	36,00	11,00
TS3-40B	44,12	247,00	36,00	13,00
TS3-45	45,48	254,50	37,00	13,00
TS3-48	48,01	253,00	30,50	16,50
TS3-51	51,10	254,50	37,00	16,00
TS3-55	55,09	254,50	37,00	18,00
TS3-60	60,46	254,50	37,00	20,50
MR6	69,80	266,00	30,00	30,00

Steel grades

Track Shoes grades

ArcelorMittal - Rails & Special Sections proposes mainly two steel grades for track shoes.

***TSG 100** is a softer grade used to fulfill the requirements of material like 24MnCrB4, 26MnB5 or equivalent.

***TSG 200** is harder and used for material like 28MCB6 or equivalent. Both grades contain boron, titanium and chromium to ensure a good hardenability. To ensure also a good internal metal soundness, the sulfur and phosphorus contents are always on 0,035%.

GRADE	Lim.	C	Mn	S	P	Si	Cr	Ti	B	Mo
TSG 100	min	0,22	1,00	0,035	0,035	0,15	0,25	0,02	0,0005	0,05
	max	0,28	1,30			0,35	0,45	0,05	0,0030	
TSG 200	min	0,24	1,00	0,035	0,035	0,15	0,45	0,02	0,0005	0,05
	max	0,30	1,30			0,35	0,65	0,05	0,0030	

Jominy hardenability for Tracks Shoes

The Jominy curve limits (min-max) are given for the depths currently used on ArcelorMittal Europe - Rails & Special Sections mill certificates.

Other depths and limits can be agreed with the customer and reported on the mill certificates on request.

Mill certificates are according to EN 10204 type 3.1.

NUANCE (MM)	HRc	J2	J13	J19	J25
NUANCE (1/16")	HRc	J1	J8	J12	J16
TSG 100	min	45	35	28	-
	max	52	48	-	35
TSG 200	min	45	38	33	-
	max	52	52	-	42



ArcelorMittal

ArcelorMittal Commercial Sections

Sales | Special Sections | 66, Rue de Luxembourg
L-4221 Esch sur Alzette | G.D. of Luxembourg
rails.specialsections@arcelormittal.com

Additional information can be found on:
<http://rails.arcelormittal.com>

2023



rails.arcelormittal.com