

ArcelorMittal Europe Long Products
Rails & Special Sections



ArcelorMittal

Crane rails, Light rails
& Contact rails



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Our Company

ArcelorMittal with over 199,000 employees across 60 countries and industrial locations in 19 countries is the world's leading steel and mining company.

ArcelorMittal is one of the world's largest rail producer with a capacity of 1 million tons of annual rail production with true global presence; supplying rails for railways, metro, tramway, light tracks, crossings, crane rails and rail components. ArcelorMittal has implemented a quality assurance system that meets the requirements of international standards ISO 9001, 14001, 18001.

ArcelorMittal is member of IQNet international network of agencies for the quality systems evaluation and certification.



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Quality Products and Service

The high quality of our rails, linked with awarded customer quality certificates and approvals at a global scale, are the reasons for which our products have experienced an important increase in the global market in the recent years.

ArcelorMittal Rails quality policy is focused on ensuring our customers the quality of our products supply, adapted specifically to their needs.

Our quality assurance system policy is intended for the production of rail and rendering of services to meet the changing needs of our customers to meet or exceed their expectations.

Customer satisfaction is our main objective and the prevailing condition for permanent success of our rail facilities and product reliability.

ArcelorMittal is one of the few world manufacturers able to produce 120m rail lengths (up to 36m in crane and light rails).

European profiles

These profiles are produced according to the European standards including DIN, PN79/H, and BS11 standards with a wide range in tensile strength stretching from 690 to 1080 N/mm².

Steel grades are produced to various qualities and specifications as required by our clients.

Standard rail lengths are furnished from 6 to 36 meters, and other lengths are available upon request.

American profiles

These profiles are manufactured in accordance with ASTM specification for standard carbon applications.

Standard rail lengths are furnished in 12, 18 and 24 meters. Other lengths are available upon request.

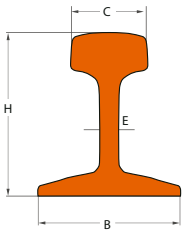
Finishing Operations

ArcelorMittal offers a wide variety of finishing possibilities, drilling, angle cut, cut to lengths, coating, machining, bending, special packaging, and other on request

Ultrasonic Testing

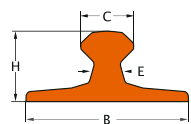
Going deeper than Standards, ArcelorMittal developed its own Technical Specifications which is including automatic Ultrasonic Testing on large part of our Crane and Light rails, providing warranty of to our customers of no internal defects. Operation included in quality controls and without extra prices. Please ask and refer to ArcelorMittal Technical Specifications for more details.

Light rails

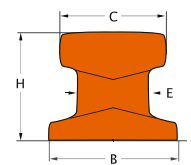


TYPE OF RAIL	DIMENSIONS mm				WEIGHT kg/m
	H	B	C	E	
EUROPEAN PROFILES					
S18	93,00	82,00	43,00	10,00	18,30
S20	100,00	82,00	44,00	10,00	19,80
S24	115,00	90,00	53,00	10,00	24,40
S30	108,00	108,00	60,30	12,30	30,03
S31	125,00	106,00	56,00	12,00	31,57
S39	133,35	117,47	65,53	13,10	39,80
S41A	138,00	125,00	67,00	12,00	41,24
AFNOR26	110,00	100,00	50,00	10,00	26,27
AFNOR36	128,00	115,00	58,27	13,00	36,59
BS80A	133,35	117,47	63,50	13,10	39,76

AMERICAN PROFILES					
ASCE60	107,95	107,95	60,32	12,30	29,76
ASCE80	127,00	127,00	63,50	13,89	39,68
ASCE85	131,76	131,76	65,10	14,29	42,16



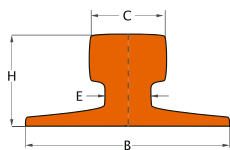
TYPE OF RAIL	DIMENSIONS mm				WEIGHT kg/m
	H	B	C	E	
GUIDING RAIL					
RG28	65,00	150,00	49,00	24,00	28,30



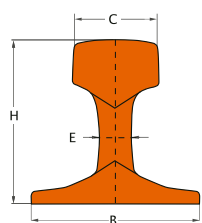
TYPE OF RAIL	DIMENSIONS mm				WEIGHT kg/m
	H	B	C	E	
CONTACT RAILS					
STR40	105,00	80,00	80,00	18,00	40,27
STR74	103,20	123,80	104,80	69,80	74,00

Crane rails

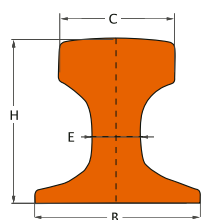
Crane rails steel qualities



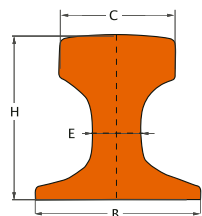
TYPE OF RAIL	STANDARD	DIMENSIONS mm				SECTIONS cm ²	MASS M kg/m
		H	B	C	E		
DIN CRANE RAILS							
A45	DIN 536 P1:1991	55,00	125,00	45,00	24,00	28,20	22,10
A55	DIN 536 P1:1991	65,00	150,00	55,00	31,00	40,50	31,80
A65 *	DIN 536 P1:1991	75,00	175,00	65,00	38,00	54,90	43,10
A75 *	DIN 536 P1:1991	85,00	200,00	75,00	45,00	71,60	56,20
A100 *	DIN 536 P1:1991	95,00	200,00	100,00	60,00	94,70	74,30
A120 *	DIN 536 P1:1991	105,00	220,00	120,00	72,00	127,40	100,00
A150 *	DIN 536 P1:1991	150,00	220,00	150,00	80,00	191,40	150,30



AMERICAN CRANE RAILS							
CR104(MRS 51)*	American standard	127,00	127,00	63,50	25,40	66,40	51,59
CR105(MRS 52)*	ArcelorMittal Specification	131,80	131,80	65,10	23,80	66,40	52,09
CR135(MRS 67)*	American standard	146,05	131,76	87,30	31,80	85,80	66,97
CR171(MRS 85)*	American standard	152,40	152,40	109,20	31,80	108,38	84,83
CR175(MRS 87B)*	American standard	152,40	152,40	108,00	38,10	110,30	86,80



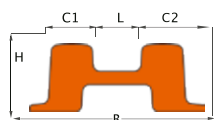
SPECIAL CRANE RAILS							
MRS73 *	ArcelorMittal Specification	157,00	146,00	70,00	32,00	93,80	73,63
MRS86 *	ArcelorMittal Specification	102,00	165,00	102,00	80,30	108,90	85,50
MRS87A*	ArcelorMittal Specification	152,40	152,40	101,60	34,90	111,30	86,80
MRS125*	ArcelorMittal Specification	180,00	180,00	120,00	40,00	160,20	125,00
MRS192	ArcelorMittal Specification	157,20	229,00	140,00	128,30	244,50	192,00
MRS221	ArcelorMittal Specification	160,00	220,00	220,00	154,00	282,10	221,40
AS86 *	ArcelorMittal Specification	152,46	150,00	101,60	35,00	109,40	85,88
CR73*	ArcelorMittal Specification	135,00	140,00	100,00	32,00	93,40	73,30
CR100*	ArcelorMittal Specification	150,00	155,00	120,00	39,00	127,70	100,20
CRS140*	ArcelorMittal Specification	150,00	200,00	150,00	80,00	178,10	139,80

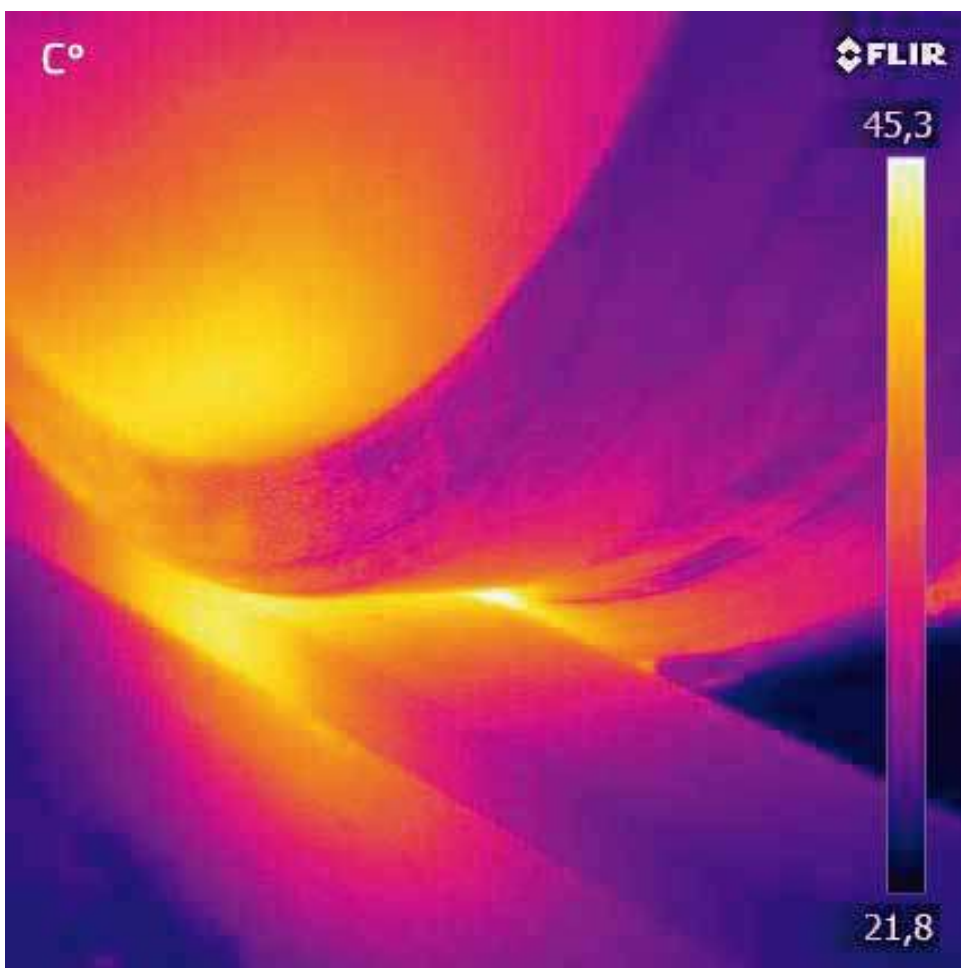


SP100*	ArcelorMittal Specification	150,00	150,00	100,00	38,00	113,40	89,05
SP120*	ArcelorMittal Specification	170,00	170,00	120,00	44,00	150,69	118,28

TYPE OF RAIL	STANDARD	DIMENSIONS mm					MASS M kg/m
		H	B	C1	C2	L	

GIRDER CRANE RAILS							
GCRD42	ArcelorMittal Specification	60,00	200,00	53,00	18,00	60,00	41,91
GCRD45	ArcelorMittal Specification	60,00	218,00	60,00	20,00	70,00	45,85
GCRD108	ArcelorMittal Specification	100,00	263,00	61,00	61,00	75,00	107,90
GCRD183	ArcelorMittal Specification	120,00	280,00	75,00	75,00	50,00	183,06





ArcelorMittal Global R&D

ArcelorMittal is leader in all major global steel markets, with leading R&D dedicated centers. Rail manufacturing at ArcelorMittal is supported by Global R&D Rail Competence Center located in Aviles, Spain and supported by ArcelorMittal Global R&D network, where continuous improvement in Railway Systems Engineering and Research takes place.

ArcelorMittal leads the efforts to continuously improve Rail steel production by studying on-track Real performance, its hardness and wear behavior to fatigue including weldability. Although the welding technology of conventional pearlitic rails is much consolidated with aluminothermic welding and flash-butt welding techniques, the increasing interest in new grades entails increasingly demanding requirements for welds. To face this need ArcelorMittal has installed a world class welding pilot plant at Global R&D Asturias Center. Rail Welding Competence Unit will allow to progress beyond it through the development of specific procedures to improve Flash Butt Welding and aluminothermic welding of today's rails.

Areas of expertise at Global Rail R&D facilities includes but not limited to:

- Full-size Welding Pilot Plant
- Modelling of rail manufacturing process and in-use performance.
- Tribology testing for wearing and Rolling Contact Fatigue (RCF). Twin Disc
- Full-Size wearing and RCF bench
- Characterization laboratory for validation and qualification tests
- Associated welding and building-up laboratory
- Mechatronics laboratory for inspection systems development

Additional information can be found on:

<http://rails.arcelormittal.com>

May 2018

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transforming tomorrow