ArcelorMittal Europe Long Products Rails & Special Sections



Crane rails, Light rails & Contact rails



Crane rails, Light rails & Contact rails

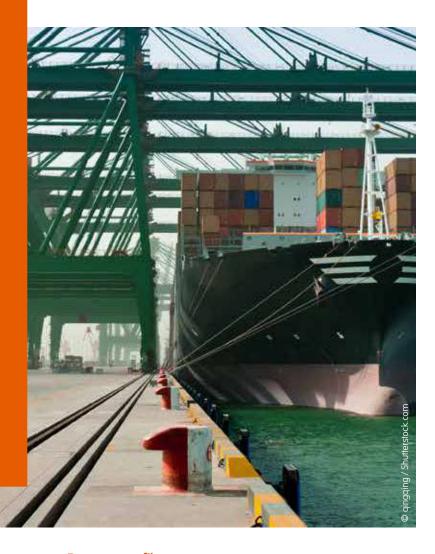
ArcelorMittal Europe Long Products Rails & Special Sections

Our Company

Arcelor Mittal with over 209,000 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.

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



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

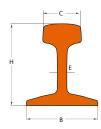
ArcelorMittal offers a wide variety of in-house finishing possibilities, drilling, angle cut, cut to lengths, coating, machining bending, special packaging, and other on request.

Ultrasonic Testing

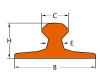
Going deeper than Standards, ArcelorMittal developed its own Technical Specifications which is including automatic Ultrasonic Testing on large part of our Crane and Light rails, providing warranty of to our customers of no internal defects.

Operation included in quality controls and without extra prices. Please ask and refer to ArcelorMittal Technical Specifications for more details.

Light rails



TYPE		DIMENSI	WEIGHT		
OF RAIL	Н	В	С	Е	kg/m
EUROPEAN PROFILES					
S18	93,00	82,00	43,00	10,00	18,30
\$20	100,00	82,00	44,00	10,00	19,80
\$24	115,00	90,00	53,00	10,00	24,40
\$30	108,00	108,00	60,30	12,30	30,03
S31	125,00	106,00	56,00	12,00	31,57
\$39	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	42,20



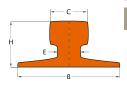
TYPE OF RAIL		DIMENSI		WEIGHT	
OF RAIL	Н	В	С	E	kg/m
GUIDING RAIL					
RG28	65,00	150,00	49,00	24,00	28,30



TYPE		DIMENSI		WEIGHT	
OF RAIL	Н	В	С	Е	kg/m
CONTACT RAILS					
STR40	105,00	80,00	80,00	18,00	40,27
STR74	103.20	123.80	104.80	69.80	74.00

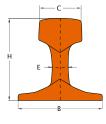
Crane rails

Crane rails steel qualities

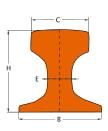


TYPE						SECTIONS	MASS M	
OF RAIL	STANDARD	Н	В	С	E	cm ²	kg/m	
DIN CRANE RAILS								
A45	DIN 536 P1:1991	55,00	125,00	45,00	24,00	28,20	22,10	
A55	DIN 536 P1:1991	65,00	150,00	55,00	31,00	40,50	31,80	
A65*	DIN 536 P1:1991	75,00	175,00	65,00	38,00	54,90	43,10	
A75*	DIN 536 P1:1991	85,00	200,00	75,00	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	

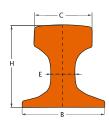
DIMENSIONS mm



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

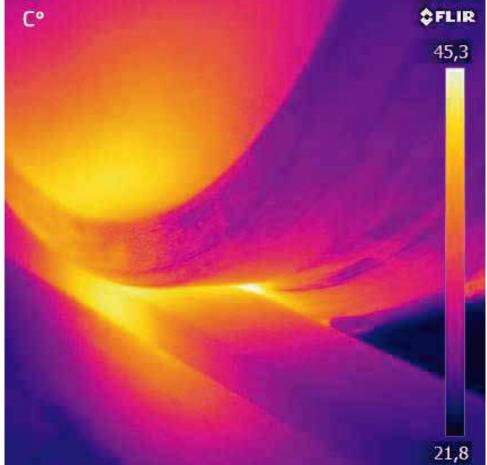


TYPE		DIMENSI	MASS M	
OF RAIL	STANDARD			kg/m

Н	C1	. L	C2	-
_		_В_		L

GIRDER CRANE RAIL	_S						
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 Fatique (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 November 2019

SALES OF LIGHT RAILS

ArcelorMittal Commercial Sections

Sales | Light Rails | 66, Rue de Luxembourg L 4221 Esch-sur-Alzette | G.D of Luxembourg T +352 5313 3771 F +352 5313 3739

rails specialsections@arcelormittal.com

SALES OF CRANE RAILS

ArcelorMittal Commercial Sections

Sales | Crane Rails | 66, Rue de Luxembourg L 4221 Esch-sur-Alzette | G.D of Luxembourg T +352 5313 2465 F +352 5313 3739

ArcelorMittal Commercial Long Poland

Sales | Rails | Al. Piłsudskiego 92 41–308 Dąbrowa Górnicza | Poland T +48 32 776 8216 F +48 32 776 7067 rails specialsections@arcelormittal.com

http://rails.arcelormittal.com



transforming tomorrow