



ArcelorMittal

Heavy Plates Catalogue

ArcelorMittal Galati

Valid as of September 1st 2014

ArcelorMittal Galati has a nominal capacity of 1.5 million tons of hot rolled quarto plates. The mill is strategically located in Romania with easy access to the Danube river and the Black Sea. The mill offers a wide range of plates suitable for various applications.



Applications

- Structural Steel: Industrial constructions, Commercial and residential constructions, Civil engineering
- Shipbuilding Steel: Container ships, Tankers, Multi-purpose vessels, Coaster vessels, Tugs, Offshore support vessels, Pontoons, Floating docks, Barges
- Windmill Steel: Onshore tubular wind towers
- Energy pipes Steel: Oil and Gas linepipes
- General purpose pipe Steel: Boiler pipes, Construction and Industrial pipes, Water pipes
- Pressure vessels Steel: Cylindrical and spherical tanks for gas and liquid storage/ transport, Boilers, Condensers
- Steel for Mining equipment and Yellow goods: High strength steel for lifting and transportation equipment

Production Range

Technical Delivery Conditions

- Chemical properties & Mechanical properties according to ordered standards.
- For Furnace Normalized supply condition – thickness max. 100 mm.
- Sizes and Tolerances according to: EN10029; ASTM A6; ASTM A20; JIS G 3193

Dimensional capability

Thickness • 6 – 40 mm shear cutting
• 40.01 – 160 mm flame cutting

Plate unit weight for width 1500 – 1900 mm is max. **11.3 MT**

Plate unit weight for width over 1900 mm is max. **15 MT**

Max. weight **18 MT** with mill acceptance

Thickness [mm]	Width [mm]					Length [mm]	
	1500	3400	3600	3800	4000	min	max
6.0 – 8.9						6000	12000
9.0 – 11.9						5000	14000
12.0 – 19.9						5000	15000
20.0 – 40.0						4000	16000
40.1 – 160						2000	16000

Over **16000 mm** with mill acceptance

Ultrasonic testing according to :

EN 10160, ASTM A578 (Level A – max 100mm; Level B max 60mm; Level C – max 20 mm), ASTM A435, BS 5996, ISO 12094)

UT level / thickness plates range				
	E0	E1	E2	E3
S0	6-150 mm			
S1		6-100mm	6-60mm	
S2			6-40mm*	6-40mm*

* Between 40-60 mm with prior mill acceptance

Z test according to :

EN 10164/2004; ASTM A770/2001
For plates of thickness less than 15 mm the standard does not require through-thickness tensile tests. ArcelorMittal Galati guarantee plates with improved through-thickness properties in thickness range 6mm – 15mm, but does not perform tests.

Z test / thickness plates range			
	15-60mm	60-80mm	80-100mm
Z15			
Z25			
Z35*			

* Between 60-80mm and for shipbuilding grades with prior mill acceptance

Marking

By painting and die stamping indicating: Made in Romania, ArcelorMittal logo, number of contract, size, quality standard, plate number and heat number.

Document of Quality

Mill's quality documents according to EN 10204/2004 type 2.2; 3.1 (DB, TUV); 3.2(LRS, GL, BV, ABS, DNV, RINA,NKK and others as per request)

Grades and standards

Structural Steel for general applications			Weldable fine grain structural steels - normalized	
EN 10025-2	S185	Delivery state – As rolled, Normalizing Rolled, Furnace Normalized	EN 10025-3	S275; S355; S420; S460 (N; NL)
	S235JR/JRC; JO/JOC; J2/J2C			
	S275JR/JRC; JO/JOC; J2/J2C			
	S355 JR/JRC; JO/JOC; J2/J2C; K2/K2C			
ASTM A36/A36M	A36	Without mechanical properties (WMP) for thickness >100mm	ASTM A572/A572M	A572Grade (50; 60) (type 1; 2)
ASTM A283/A283M	A283Grade (C; D)			
ASTM A573/A573M	A573Grade (65; 70)			
JIS G 3101	SS400; SS490			

Thickness Capability [mm]	25	40	70	80	100	130	140	150	160
A572 G60 TYPE1									
A572 G60 TYPE2									
A573 G70									
A588 GRADE A									
S235J2-CL3									
S235J2									
S235JRJO-CL3									
S275J2									
S275JRJO									
S355J2									
S355JRJO									
S275N									
S275NL									
S355J2									
S355N									
S355NL									
S420N/NL									
S460N									

Legend: Without mechanical properties (WMP)



TMCP Steel - Weldable fine grain structural steel

		HP Thickness Capability	15	20	25	30	40	50	60
EN 10025/4-2004 EN 10149/2-1996	S275M	S275M							
	S275ML	S275ML							
	S355MC/M	S355MC/M							
	S355ML	S355ML							
	S420MC/M	S420MC/M							
	S420ML	S420ML							
	S460MC/M	S460MC/M							
	S460M/ML	S460ML							

Delivery state – Thermomechanical rolled weldable fine grain structural steels. | CEV lower than 0.40% for high grades. Impact test down to -50°C. Suitable for bending process, suitable for flanging without cracking. | Up to Z35 through-thickness tensile tests.

Offshore Steel - weldable structural steels for fixed offshore structures

		HP Thickness Capability	15	20	25	30	40	50	60
EN 10225:2009	S355G2+N	S355G2+N							
	S355G3+N	S355G3+N							
	S355G5+M	S355G5+M							
	S355G6+M	S355G6+M							
	S355G7+M	S355G7+M							
	S355G8+M	S355G8+M							

Delivery state – Normalizing rolled G2/G3 Thermomechanical rolled G5/G6/G7/G8 weldable fine grain structural steels..

CEV lower than 0.40% for high grades. Impact test down to -60°C.

Suitable for bending process, suitable for flanging without cracking.

Option 10 ; Option 11 – PWHT

Option 12 – Strain ageing test

Option 13 – Trough thickness test (Z35)

Structural steel with improved corrosion resistance

ASTM A 242/1991		Type 1	Thickness Capability [mm]						
			12	50	60	70	80	100	
EN 10025/5 2004	S235JOW +N	S235J0/J2W +N							
	S235J2W +N	S235J0/J2W +N							
	S355JOW +N	S355J0/J2W +N							
	S355JOWP +N	S355K2W +N							
	S355J2W +N	S355J0/J2WP +N							
	S355J2WP +N	S355J0/J2WP +N							
	S355K2W +N	S355K2W +N							

Delivery state – As Rolled, Normalizing Rolled, Furnace Normalized

Pipeline Steels

		Thickness Capability [mm]	15	20	25	30	35	40
API 5LED44	A; B; X42; X46; X52; X60; X65; X70	15GF-GOST19281						
EN 10208-1	L210GA; L235GA; L245GA; L290GA; L360GA	ST3SP-CL3						
EN 10208-2	L245NB; L290NB; L360NB; L415NB; L415MB	TUBE - A						
EN 10219-1	S235JRH; S275JOH; S275J2H; S355JOH; S355J2H; S355K2H	X42						
EN 10217/1	P195TR1; P195TR2; P235TR1; P235TR2; P265TR1; P265TR2	X52						
EN 10217/5	P235GH; P265GH	X60						
GOST 19281	15GF	X65						
GOST 380	St 3 sp	X70						

Delivery state: Normalizing rolled, thermomechanical controlled rolling (TMCP) based on prior acceptance by the mill
For grades higher than X42 prior acceptance by the mill is mandatory for all requirements

Bridges

		Thickness Capability [mm]	15	20	30	32	40	50
GOST 6713-91	15HSND-2	15HSND	Yes	Yes	Yes	Yes	Yes	Yes
STAS 12187-88	OL 37 EP	OL 37 EP	Yes	Yes	Yes	Yes	Yes	Yes
	OL 52 EP	OL 52 EP	Yes	Yes	Yes	Yes	Yes	Yes

Delivery state – Furnace Normalized

Boilers and pressure vessel steels

		Thickness Capability [mm]	25	50	60	70	80	100
EN 10028-2	P235GH; P265GH; P295GH; P355GH; 16Mo3	16MO3	Yes	Yes	Yes	Yes	Yes	Yes
IS 2002	Grade 2	A515 G60	Yes	Yes	Yes	Yes	Yes	Yes
		A515 G70(CVN)	Yes	Yes	Yes	Yes	Yes	Yes
ASTM A515/A515M	A515Grade (60; 65; 70)	A516 G60(CVN)	Yes	Yes	Yes	Yes	Yes	Yes
		A516 G60	Yes	Yes	Yes	Yes	Yes	Yes
BS1501	151 – 430 (A); 224 – 490 (A; B)	A516 G60(PWHT)	Yes	Yes	Yes	Yes	Yes	Yes
		A516 G70(CVN)	Yes	Yes	Yes	Yes	Yes	Yes
EN 10028-3	P275(NH; NL1; NL2)	A516 G70	Yes	Yes	Yes	Yes	Yes	Yes
		A516 G70(PWHT)	Yes	Yes	Yes	Yes	Yes	Yes
		A537 CLS1	Yes	Yes	Yes	Yes	Yes	Yes
ASTM A285/A285M	A285Grade (A; B; C)	P235 GH/ P265 GH	Yes	Yes	Yes	Yes	Yes	Yes
		P295 GH	Yes	Yes	Yes	Yes	Yes	Yes
ASTM A516/A516M	A516Grade (55; 60; 65; 70)	P355 GH	Yes	Yes	Yes	Yes	Yes	Yes
		P275 NH	Yes	Yes	Yes	Yes	Yes	Yes
ASTM A537/A537M	A537Class1	P275 NL1/ NL2	Yes	Yes	Yes	Yes	Yes	Yes
		P355N/ NH	Yes	Yes	Yes	Yes	Yes	Yes
		P355NL1/ NL2	Yes	Yes	Yes	Yes	Yes	
		P460NL1/ NL2	Yes	Yes	Yes	Yes	Yes	

(A516 – 4 Cycles Post-Weld Heat Treatment (PWHT) as per ASME, guarantee 1 cycle without request, Z test, Shear area, CVN -46° Celsius)

Legend: CVN – Charpy V Notch

Shipbuilding

		Thickness Capability [mm]	25	50	60	70	80	100
ASTM A131/ A131MBV; LR; ABS; RINA	A; B; D; E; AH32; DH32; EH32; AH36; DH36; EH36	SHIP-A/B	Yes	Yes	Yes	Yes	Yes	Yes
GL	A; B; D; E; A32; D32; E32; A36; D36; E36	SHIP-D	Yes	Yes	Yes	Yes	Yes	Yes
		SHIP-D32	Yes	Yes	Yes	Yes	Yes	Yes
DNV	NVA; NVB; NVD; NVE; NVA32; NVD32; NVE32; NVA36; NVD36; NVE36	SHIP-D36	Yes	Yes	Yes	Yes	Yes	Yes
		SHIP-E/E32	Yes	Yes	Yes	Yes	Yes	Yes
NKK	KA; KB; KD; KE; KA32; KD32; KE32; KA36; KD36; KE36	SHIP-E36	Yes	Yes	Yes	Yes	Yes	Yes

Delivery state – According to requirements of class societies (LRS, GL, BV, ABS, DNV, RINA, NKK)

Current service and product development portofolio

Cutting and beveling

Integrated processing supply chain to serve the Wind Energy segment. Rolling over Plate Mill no.2 and full processing (oxy gas cutting/ mechanical beveling/ edge anticorrosion painting) executed in Plate Mill no.1 on ArcelorMittal Galati industrial platform.

The processing supply chain is designed for 2kt/month and is aiming to 3 kt/month. Dimensional feasibility:

- 7mm – 80mm thickness
- Max. 16.000mm length
- Max. 4.000mm width
- Weight / plate max. 18t

Dimensional tolerances:

- +/-1mm dimensional range
- +/-2° for bevel angle

Processing in PM1 (Plate mill no.1)

is planned to be executed in 2 steps:

- Oxy-cutting using SATO SATRONIK D 6000 machine
- Mechanical beveling using N.KO UZ50 machine

SATO SATRONIK D 6000 oxy-cutting machine technical parameters/feasibility:

- 12.000–20.000mm/minute productivity depending on plate thickness
- 6–150mm plate thickness
- Max. 6.000mm plates width
- Max. 30.000mm plates length
- Capability for straight/ radius cutting (CAD nesting programs available)
- 4 oxy-cutting heads with the capability to process 2 steel plates at the same time

N.KO UZ50 & 3D manipulator mechanical beveling machine technical parameters / feasibility:

- Max. 1.100mm/minute productivity depending on the plates thickness
- 3D manipulator provides maximum flexibility in beveling execution

Steel plates manipulation is done using electromagnetic cranes of max. 25t.

The solution is fully operational since Q1 2014.

Ongoing projects for new feasibilities

Number	Project	Product Type	Timeline
1	Open feasibility for TMCP grades up to FH40 shipbuilding grades - Lloyd Register	TMCP Shipbuilding grades	Q4 2014
2	Open feasibility for TMCP grades up to FH40 shipbuilding grades - Det Norske VERITAS	TMCP Shipbuilding grades	Q1 2015
3	Open feasibility for S355J2/S355K2/S355N with toughness guarantee between 100-150mm	Structural steel High Thickness	Q1 2015
4	Open feasibility for S355NL between 80-120mm	Fine grain steel High Toughness	Q4 2015
5	Open feasibility for S460NL between 40-100mm	Fine grain steel High Toughness	Q2 2015
6	Open feasibility for TMCP Structural grade S355M/ML up to 80mm	TMCP Steel High Toughness	Q4 2014
7	Open feasibility for TMCP Structural grade S420M/ML up to 60mm	TMCP Steel High Toughness	Q4 2014
8	Open feasibility for TMCP Structural grade S460M/ML up to 50mm	TMCP Steel High Toughness	Q1 2015
9	Open feasibility for API grades X70PSL2 up to 30mm	Pipeline steel	Q4 2014
10	Open feasibility for Offshore API grades	Offshore Pipeline steel	Q4 2014
11	Open feasibility for Offshore S355G8/S355G9/S355G10	Offshore Structural steel	Q1 2015
12	Open feasibility for Pressure Vessels HIC steel (Grade 60/65/70 A516)	Pressure Vessels HIC	Q3 2015

Salient features of service offering

Lead times

ArcelorMittal Galati ensures flexible production lead times with the possibility to produce and expedite heavy plates in structural grades and thickness between 9 - 60 mm, width max. 2500 mm, length max. 12000 mm in four weeks from the date of releasing the order into production.

Lead time	Specification/ Destination	Time
Normal lead time (NLT)	Plates in thickness between 6 - 8 mm	8 weeks
	Plates in thickness over 8 mm for delivery by train or truck to Germany, Slovakia, Czech Republic, France, Denmark, Poland, Hungary	6 weeks
	Projects and Export (Far East, Middle East, Near East, India, South America and North America)	8 weeks
	Plates in thickness above 8 mm for Romania, Greece, Turkey, Balkan countries	5 weeks
Short lead time (SLT)	Structural grades (S235 - S355) and their equivalent naval grades; thickness from 9 to 60 mm; width up to 2500 mm; length up to 12000 mm to all destinations	4 weeks

Nominal quantity tolerances

ArcelorMittal Galati ensures delivery of exact number of plates for quantities per items of minimum 5 Mt.

Communication

The existence of a dedicated team in charge of order follow up provides customers regular updates on the order status as well as on the production completion date and shipment.

Regular train shipments towards Central Europe

- Starting with 2012, new logistics solution has been developed by organizing regular train transportation for deliveries to following destinations:
 - Poland
 - Czech Republic
 - Germany
 - Slovakia (Žilina)
 - France
- Trains to above mentioned destinations can be organized on a weekly basis (1000-1200 Mt)
- For orders with smaller volume going to customers with access to railway, direct train transportation to the destination can be organized by single wagon system
- For customers with no access to railway, a logistics solution by using the facilities of a hub located in Gliwice (Poland), in Regensburg or in Ziltendorf (Germany) is being used. Material is shipped from the logistics hub to customer's premises by truck.
- Availability of special wagons type SLPSU 725 allows dispatching of wide plates

Value for the customer

- Better stock planning and continuous delivery of material
- Stable transportation time – in average 7 days to destination
- Better control of working capital

Certification / Homologation

Register	Validity	Grade	Deoxidation	12 mm cut for wide strip	15	20	25	30	35	40	50	60	100
DNV	31-Dec-2016	NV A, NV B, NV D	FG Al	AR, N				N					
	31-Dec-2016	NV E	FG Al	N									
	31-Dec-2016	NV A32, NV D32, NV A36, NV D36, NV E32, NV E36	FG Al	N									
	31-Dec-2016	NV 410-0 A, NV 460-0A	FG Al	AR									
	31-Dec-2016	NV 410-0 N, NV 460-0 N, NV 490-0 N, NV 410-1 FN, NV 460-1 FN, NV 490-1 FN, NV 510-1 FN	FG Al	N									
	31-Dec-2016	NV 4-2	FG Al+Nb+V	N									
DNV/Z35 up to 60mm	31-Dec-2016	NV D, E, A32, A36, D32, D36, E32, E36, all grades Z15, Z25, Z35	FG Al	N									
LR	2-Dec-2016	A, B	Killed	AR									
	2-Dec-2016	A, B, D	FG Al	AR, NR, N						NR, N			
	2-Dec-2016	E	FG Al	N									
	2-Dec-2016	A, B, D, E	FG Al+ Nb	N									
	2-Dec-2016	DH27S, DH32, DH36	FG Al	AR				NR, N					
	2-Dec-2016	AH27S, AH32, AH36	FG Al	AR									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	FG Al	N									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36	FG Al	NR									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	FG Al+Nb	N									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	FG Al+Nb+Ti	NR									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	FG Al+Nb+V	N									
	2-Dec-2016	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	FG Al+Nb+V+Ti	NR									
	2-Dec-2016	360 AR, 410 AR	Killed	AR									
	2-Dec-2016	460 FG, 490 FG, 510 FG	FG Al+Nb	N									
	2-Dec-2016	360 FG, 410 FG	FG Al+Nb	N									
	2-Dec-2016	360 FG, 410 FG, 460 FG, 490 FG, 510 FG	FG Al+Nb+V	N									
	2-Dec-2016	360 FG, 410 FG, 460 FG, 490 FG, 510 FG	FG Al	NR, N									
	2-Dec-2016	360 FG, 410 FG, 460 FG, 490 FG, 510 FG	FG Al+Nb+V+Ti	NR									
2-Dec-2016	360 FG, 410 FG, 460 FG, 490 FG, 510 FG	FG Al+Nb+Ti	NR										
LR/Z35 up to 60 mm	2-Dec-2016	All Grades Lloyds Register Z15, Z25, Z35	with specified	N									
TUV + PED	30-Nov-2015	P235GH, P265GH, P295GH, P355GH	Plates	N									
	30-Nov-2015	13CrMo4-5	Plates	Quenched and tempered									
	30-Nov-2015	S235JR, S235J2, S275JR, S275J2, S355J2	Plates	N									
	30-Nov-2015	S355K2	Plates	N									
	30-Nov-2015	S235JR, S235J2, S275JR, S275J2, S355J2, S355K2	Plates	Controlled rolled									
	30-Nov-2015	P275NH, P275NL1, P275 NL2	Plates	N									
	30-Nov-2015	P355N, P355NH, P355NL1, P355 NL2	Plates	N									
	30-Nov-2015	S235JR, S235J2, S275JR, S275J2, S355J2	Strip, plate from strip										
BV	6-Jan-2016	A	Killed	AR									
	6-Jan-2016	A, B, D	FG Al	AR, N						N			
	6-Jan-2016	E	FG Al	N									
	6-Jan-2016	AH32, AH36, DH32, DH36, EH32, EH36	FG Al	N									
	6-Jan-2016	AH32, AH36 DH32, DH36, EH32, EH36	FG Al + Nb	N									
BV Z25	6-Jan-2016	All Grades Z15, Z25											
NKK	30-Jun-2018	KA, KB	Killed Si+Mn	AR, NR, N									
	30-Jun-2018	KD	Killed Si+Mn+Al	AR, NR, N						N			
	30-Jun-2018	KE	Killed Si+Mn+Al	N									
	30-Jun-2018	KA32, KD32, KA36, KD36	Killed Si+Mn+Al	NR, N			N						
	30-Jun-2018	KE32, KE36	Killed Si+Mn+Al+N	N									

Legend: Deoxydation K - killed | FG - fine grain

Delivery condition AR - as rolled | NR - normalized rolled | N - normalized in furnace

For more information on ArcelorMittal Galati entire range of certifications, please contact our local teams.

Certification / Homologation

Register	Validity	Grade	Deoxidation	12 mm cut for wide strip	15	20	25	30	35	40	50	60	100
RINA	18-May-2016	A, B	Si Killed	AR									
	18-May-2016	A, B, D	FG Al	AR, NR, N						NR, N			
	18-May-2016	E	FG Al	N									
	18-May-2016	AH32, AH36	FG Al	NR, N						N			
	18-May-2016	AH32, AH36	FG Al + Nb	N									
	18-May-2016	DH32, DH36	FG Al	NR, N				N					
	18-May-2016	DH32, DH36	FG Al + Nb	N									
	18-May-2016	EH32, EH36	FG Al	N									
RINA Z25	18-May-2016	All Grades Z15, Z25											
ABS	17-Nov-2018	A, B	Si Killed	AR									
	17-Nov-2018	A, B, D	Si - Al Killed	NR, N			N						
	17-Nov-2018	E	Si - Al Killed	N									
	17-Nov-2018	AH32, AH36, DH32, DH36	FG Al+Nb+V+Ti	NR, N			N						
	17-Nov-2018	EH32, EH36	FG Al+Nb+V+Ti	N									
	17-Nov-2018	A, B, D (sheets HSM)	Si - Al Killed	NR									
	17-Nov-2018	AH32, AH36, DH32, DH36 (sheets HSM)	FG Al+Nb+V+Ti	NR									
ABS Z25	17-Nov-2018	All Grades Z15, Z25											

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