

2016 Product catalogue

Heavy Plate Mill - Gijon Works



Oferta de Productos Asturias - Edición 2016- Product Catalogue





Heavy Plate Mill - Gijon Works

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EN 10025-2

Structural steel for general application

ArcelorMittal

Heavy Plate Mill - Gijon Works

Delivery conditions:

J0/J2/K2

JR

J0/J2

JR J0/J2

JR

140 150

Ν

TM

Thickness

JR

80 100 120

60

NR

Oualities

J0/J2/K2

JR

J0/J2

J0/J2

20 40

AR

50

\$355

S275

S235

S185

S185 S235JR/JRC;J0/J0C;J2/J2C S275JR/JRC;J0/J0C;J2/J2C S355JR/JRC;J0/J0C;J2/J2C;K2/K2C

Dimensions: According Table 1

Mechanical properties: According to the standard

Chemical composition:

Heat analysis according to the standard

Ultrasonic inspection: According to EN 10160,

ASTM A578, ASTM A435, BS 5996

Tolerances: According to EN 10029 (other tolerances**)

Flatness tolerance: According to EN 10029 (Class S**)

Additional properties: Galvanization aptitude, Laser cutting aptitude

Marking: By painting and by stamping (Head, tail or head and tail)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size Surface treatment: Shot blasting and painting facilities ** Approval needed by the mill

													~	PP	oru		.cu	cu i	<i>,</i> , ,			•
		Thickness										Widt	n mm									
	Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
	-	5	15	15	15	15	15	15	15	15	15	15										
	Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
IQNet	Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	max. meight.,,, e	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
CEMENT ST	Length (m)	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
		10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR AENOR	Length need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17
	approval from	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
	the mill	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
	che mitt	24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
Empresa Producto		25	18 18	18 17	18 17	17 16	16 16	16 15	15 15	15 14	14 14											
Registrada Certificado		26	18 18	18	18	18	18	18	18 18	18	18	18	18	18	17	1/	16	16	15	15	14	14
UNE-EN (\$0.9001		27	10	18	10	18	10	18	18	18	18	18	18	17	17	16	15	15	15	14	13	13
	70-	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
		30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
		35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
	5	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
ArcelorMittal España,S.A.,		45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
Residencia la Granda 33418 Gozón (Asturias - España)		50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
07		55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
0099/CPD/A81/0017 EN 10025-1		60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
Productos de acero estructural		65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
laminados en caliente / Hot rolled		70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
products of structural steels.		75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
	Statement Statements	80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	4
afnor		85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4
GiriGi		90 95	7	9	8	8	7	7	6	6	6 5	5	5	5	5	5	4	4	4	4	4	4
100 M 100 M		95	6	8	8	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4		
		100	6	0	7	6	6	6	5	5	5	5	2	4	4	4	4	4	4			
		110	6	7	6	6	6	5	5	5	5	4	4	4	4	4	4					
		115	5	7	6	6	5	5	5	5	4	4	4	4	4	-						
A THE REAL PROPERTY AND		120	5	6	6	6	5	5	5	4	4	4	4	4								
		125	5	6	6	6	5	5	5	5	4	4	4									
		130	5	6	6	5	5	5	4	4	4	4										
	and the second second	135	5	6	5	5	5	4	4	4	4											
1		140	4	5	5	5	4	4	4	4												
		145	4	5	5	4	4	4	4													
The second second second		150	4	5	4	4	4	4	4													

Normalized/normalized EN 10025-3 rolled weldable fine grain structural steels.

Heavy Plate Mill - Gijon Works

Delivery conditions:

Oualities

N

Ν

AR NR

20 40 60 80

S460

S420

S355

S275

N/NL

N/NL

NL

N

- S275 N; NL S355 N; NL S420 N; NL
- S460 N; NL

Dimensions: According Table 1

Mechanical properties: According to the standard

Chemical composition:

Heat analysis according to the standard

Ultrasonic inspection: According to EN 10160,

ASTM A578, ASTM A435, BS 5996

Tolerances: According to EN 10029 (other tolerances**) Flatness tolerance: According to EN 10029 (Class S**)

Additional properties: Galvanization aptitude

Marking: By painting and by stamping (Head, foot or head and root) Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size

A MILLIN FILL FILL												** A	ppi	rova	al n	eec	led	by	the	mi	แ
	Thickness										Widt	h mm									
Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
	5	15	15	15	15	15	15	15	15	15	15										
Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
Length (m)	9 10-20	18 18	16 18	16 18	16 18																
	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	10
Lenger need	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
approval from	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
the mill	24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14
Empresa Producto Registrada Certificado	26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
LINE EN (50 9001	27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
	28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
CE	30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	35	18 16	18 18	18 18	18	18 16	18 16	17 15	16	15 13	15 13	14	13	13	12 11	12 10	12 10	11	11 9	10 9	10 9
ArcelorMittal España,S.A.	40	15	18	10	18 16	15	10	13	14 12	13	13	12 11	12 10	10	10	9	9	10	8	8	8
Residencia la Granda	50	13	16	15	14	13	12	12	11	12	10	10	9	9	9	8	8	8	7	7	7
33418 Gozón (Asturias - España) 07	55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
0099/CPD/A81/0017	60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
EN 10025-1 Productos de acero estructural	65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
laminados en caliente / Hot rolled	70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
products of structural steels.	75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
	80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	4
	85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4
UIIUI	90	7	9	8	8	7	7	6	6	6	5	5	5	5	5	4	4	4	4	4	4
	95 100	7	8	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4		
	100	6	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4			
	110	6	7	6	6	6	5	5	5	5	4	4	4	4	4	4					
	115	5	7	6	6	5	5	5	5	4	4	4	4	4	-						_
THE R. W. LOW CO.	120	5	6	6	6	5	5	5	4	4	4	4	4	<u> </u>							
and all all and a state of the second state of the second state of the second state of the second state of the	125	5	6	6	6	5	5	5	5	4	4	4									
	130	5	6	6	5	5	5	4	4	4	4										
	135	5	6	5	5	5	4	4	4	4											
2	140	4	5	5	5	4	4	4	4												
	145	4	5	5	4	4	4	4													
Caller Caller	150	4	5	4	4	4	4	4													

Approval peoded by the mill

Thickness

TM

NL

100 120 140 150

N

Approval needed

Oferta de Productos Asturias – Edición 2016 – Product Catalogue

EN 10025-4 weldable fine grain

Thermomechanical structural steels

Heavy Plate Mill - Gijon Works

Delivery conditions:

M/ML

NR

Thickness

ΙΝ 🔲 ΤΜ

Oualities

S460

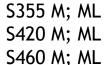
S420

S355

5 10 20 30 40 50 60 70 80

M/ML****

M/ML***



Dimensions: According Table 1 Mechanical properties: According to the standard

Chemical composition:

Heat analysis according to the standard

Ultrasonic inspection: According to EN 10160,

ASTM A578, ASTM A435, BS 5996

T D

Tolerances: According to EN 10029 (other tolerances**)

Flatness tolerance: According to EN 10029 (Class S**)

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size

> ** Approval needed by the mill *** Reduced dimensions for thickness over 30mm.

AR

	Thickness										Widtl	n mm									
able 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	330
	5	15	15	15	15	15	15	15	15	15	15										
imensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
ax. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
Length (m)	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
	10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Length need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17
approval from	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
the mill	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
the mitt	24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14
	26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
	27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
	28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
	30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
	45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
	50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7

EN 10025-5 with improved

Structural steel with improved corrosion resistance

ArcelorMittal

Heavy Plate Mill - Gijon Works

Delivery conditions:

S235 J0W;J2W S355 J0W/;J2W;K2W S355 J0WP;J2WP

Dimensions: According Table 1 Mechanical properties: According to the standard Chemical composition: Heat analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996

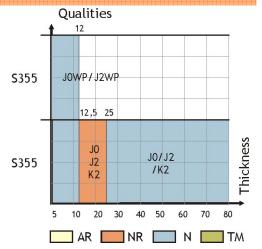
Tolerances: According to EN 10029 (other tolerances^{**}) **Flatness tolerance:** According to EN 10029 (Class S^{**})

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available **Additional to the standard** (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size

** Approval needed by the mill

11500000																						
- TOTAL LAND		Thickness										Widtl	h mm									
	Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
		5	15	15	15	15	15	15	15	15	15	15										
	Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
IONEL	Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
		8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
GEMENT ST	Length (m)	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
		10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR AENOR	Length need	21	18 18	18 17	18 17	17																
	approval from	22	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	17	17	16
	the mill	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	1/	15	15
		24	18	18	18	18	18	18	18	18	18	10	18	18	18	18	17	16	16	15	15	14
Empresa Producto Registrada Certificado		26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
and a second sec		27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
UNE-EN (50 9001		28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
		29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
		30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
		35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
13/ 1		40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
ArcelorMittal España,S.A., Residencia la Granda		45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
33418 Gozón (Asturias - España)		50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
07		55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
0099/CPD/A81/0017 EN 10025-1		60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
Productos de acero estructural		65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
laminados en caliente / Hot rolled		70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
products of structural steels.		75	9	10	9	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
		80	8	10	à	Å	8	8	_/	/	/	0	6	6	6	5	5	5	5	5	_4	4



EN 10028-2 Steels for boilers and pressure vessels

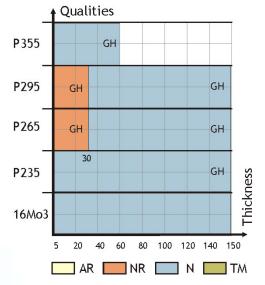
ArcelorMittal

Heavy Plate Mill - Gijon Works

Delivery conditions:

P235GH
P265GH
P295GH
P355GH
16Mo3**

Dimensions: According Table 1 Mechanical properties: According to the standard Chemical composition: Heat analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996 Tolerances: According to EN 10029 (other tolerances**) Flatness tolerance: According to EN 10029 (Class S**) Additional properties: Galvanization aptitude Marking: By painting and by stamping (Head, foot or head and foot)



Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size, HIC (P235GH, P265GH). ** Approval needed by the mill

	Thickness										Widt										
Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
	5	15	15	15	15	15	15	15	15	15	15										
Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
Mux, weight, 7,7 c	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
CEMERT ST	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
Length (m)	10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR Length need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17
approval from	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
the mill	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
	24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	25	18 18	18	18 18	18 18	18	18 17	17 16	16 16	16 15	15	15 14	14 14								
	26	10	10	10	10	10	10	10	10	10	18 18	10	10	17 17	17	16	15	15	15 14	14	14
Empresa	27	10	18	18	18	18	10	18	18	18	10	10	17	16	16	15	15	15	14	13	13
Registrada	20	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
UNE-EN ISO 9001	30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
and and an an an and a second s	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
	45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
and the second se	50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
	55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
	60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
A STATISTICS IN THE REAL PROPERTY AND	65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
A CONTRACTOR OF A CONTRACTOR O	70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
	75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
	80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	4
	85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4
	90	7	9	8	8	7	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4
Contract of the second s	100	6	8	7	7	6	6	6	5	5	5	5	- 2	4	4	4	4	4	4		
the second s	105	6	7	7	6	6	6	5	5	5	5	4	4	4	4	4	ч	ч			
and the second	110	6	7	6	6	6	5	5	5	5	4	4	4	4	4	~					
and the second	115	5	7	6	6	5	5	5	5	4	4	4	4	4	-						
	120	5	6	6	6	5	5	5	4	4	4	4	4								
	125	5	6	6	6	5	5	5	5	4	4	4									
	130	5	6	6	5	5	5	4	4	4	4										
and the second s	135	5	6	5	5	5	4	4	4	4											
5	140	4	5	5	5	4	4	4	4												
	145	4	5	5	4	4	4	4													
	150	4	5	4	4	4	4	4													

Steels for boilers and EN 10028-3 pressure vessels

Heavy Plate Mill - Gijon Works

Delivery conditions:

Oualities

N/NH

NH

20 40 60 80 100

30

P460

P355

P275

30 NET NLZ

NH

N/NH

NL1/NL2

AR 📃 NR

P275 NH; NL1; NL2 P355 N; NH; NL1; NL2 P460 NH

Dimensions: According Table 1 Mechanical properties: According to the standard Chemical composition: Heat analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996 **Tolerances:** According to EN 10029 (other tolerances**) Flatness tolerance: According to EN 10029 (Class S**)

Additional properties: Galvanization aptitude

Approval needed Marking: By painting and by stamping (Head, foot or head and root) Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size.

													νPPi	0.0	л п	eeu	ieu	Dу	uie		
	Thickness										Widt	h mm									
Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
	5	15	15	15	15	15	15	15	15	15	15										
Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
Length (m)	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
	10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR Length need	21 22	18 18	18	18 17	17 16																
approval from	22	10	18	18	18	18	18	18	10	10	18	18	18	18	18	10	18	10	17	16	16
the mill	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14
	26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
	27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
Empresa Bosto de Companya de Compa	28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
Registrada	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
UNE-EN ISO 9001	30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
	45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
- Andrew Contraction of the local data	50 55	13 12	16 14	15 13	14 13	13 12	12	12 11	11 10	11 10	10 9	10 9	9	9	9	8	8	8	7	7	7
	60	12	13	12	12	12	10	10	9	9	8	8	8	0 7	° 7	7	7	6	6	6	6
and the second	65	10	12	12	12	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
and the second se	70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
And the second	80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	4
	85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4
	90	7	9	8	8	7	7	6	6	6	5	5	5	5	5	4	4	4	4	4	4
	95	7	8	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4		
with 7.5 million	100	6	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4			
and the second se	105	6	7	7	6	6	6	5	5	5	5	4	4	4	4	4					
And in case of the second state of the second	110	6	7	6	6	6	5	5	5	5	4	4	4	4	4						
A TORNAL AND A TON	115 120	5	7	6	6	5	5	5	5	4	4	4	4	4							
	120	5	6	6	6	5	5	5	4	4	4	4	4								
and the second s	125	5	6	6	5	5	5	5 4	- 2	4	4	ч									
	135	5	6	5	5	5	4	4	4	4	-1										
6	140	4	5	5	5	4	4	4	4												
	145	4	5	5	4	4	4	4													
	150	4	5	4	4	4	4	4													

** Approval needed by the mill

hickness

NL1/NL2

120 140 150

NH

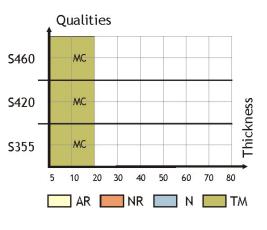
TM

EN 10149-2 weldable fine grain

Thermomechanical structural steels

Heavy Plate Mill - Gijon Works

Delivery conditions:



Dimensions: According Table 1

Mechanical properties: According to the standard

Chemical composition:

S355 MC

S420 MC S460 MC

Heat analysis according to the standard

Ultrasonic inspection: According to EN 10160,

ASTM A578, ASTM A435, BS 5996

Tolerances: According to EN 10029 (other tolerances**)

Flatness tolerance: According to EN 10029 (Class S**)

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available

Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy,

Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size



PD/A81/0017

Dimension Max. Weight Length

Table 1.



** Approval needed by the mill *** Reduced dimensions for thickness over 30mm.

	Thickness										Widtl	h mm									
	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
	5	15	15	15	15	15	15	15	15	15	15										
ns	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
t:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
,,, .	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
(9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
(m)	10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17
al from	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
	24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14
	26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
	27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
	28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
	30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
	45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
	50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7

Shipbuilding

Heavy Plate Mill - Gijon Works

Grades: A, B, D, E, AH32, DH32, EH32, FH32, AH36, DH36, EH36, FH36, FH40

Approvals:

- American Bureau Lloyd's Register
- Bureau Veritas
- Det Norske Veritas Rina
- Germanicher Lloyds

Dimensions: According Table 2

Mechanical properties: Class societies rules, ASTM A131 Chemical composition:

Heat analysis Class societies rules, ASTM A131 Ultrasonic inspection: According to EN 10160, ASTM A578.

Tolerances: Classification societies rules, ASTM A6

Flatness tolerance: Classification societies rules, ASTM A6

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available

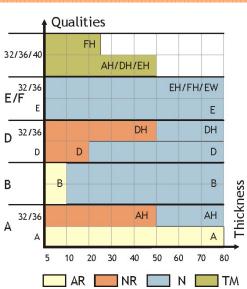
- Nippon Kaiji Kyokai

Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hardness, PWHT, Bend test, Product analysis, Grain size

Surface treatment: Shot blasting and painting facilities.

ATTEN A	Classification	No	ormal stre	ngth (40	К)		ŀ	ligh strer	igth (50 K)	
IQNet	Society	A	В	D	E	AH-32	DH-32	EH-32	AH-36	DH-36	EH-36
Real Property lines	American Bureau	80	80	80	80	80	80	80	80	80	80
A DECEMBER OF	Bureau Veritas	80	80	80	80	80	80	80	80	80	80
AENOR	Det Norske Veritas	80	80	80	80	80	80	80	80	80	80
E ?	Germanisher Lloyd´s	80	80	80	80	80	80	80	80	80	80
	Lloyd´s Register	80	80	80	80	80	80	80	80	80	80
Empresa Registrada	Nippon Kaiji Kyokai	50	50	50	50	50	50	50	50	50	50
UNE-EN ISO 9001	RINA	50	50	50	50	50	50	50	50	50	50

Max. Weight:9,7 t



Delivery conditions:

ArcelorMittal

API 5L Pipeline steels	ArcelorMittal
Heavy Plate Mill - Gijon Works	Delivery conditions:
Grades: X42, X46, X52, X56, X60, X65, X70 (sweet service)	Qualities 25 X70 X65 X60
Dimensions: According Table 3 Mechanical properties: According to the standard Chemical composition: Heat analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996 Tolerances: According to ASTM A6, ASTM A20, (other tolerances**) Flatness tolerance: According to ASTM A6, ASTM A20, (other Marking: By painting and by stamping (Head, foot or head an	X56 X52 X46 X42 5 10 20 30 40 50 60 TM

Marking: By painting and by stamping (Head, foot or head and foot) Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy, Z-Test, Hot tensile test, Hardness, PWHT, DWTT, Bend test, Product analysis, Grain size.

											**	Ap	prov	val	nee	ded	l by	the	e mi	ill
	Thicknes									V	/idth m				-	-				
Table 3.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
	10	15	15	15	15	15	15	15	15	15	15	15	15							
Dimensions	4 11	15	15	15	15	15	15	15	15	15	15	15	15	15						
Max. Weight:9,7 t	12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
Length (m)	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
AENOR Length need	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
approval from	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
the mill	17	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	
	18	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	19	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Empresa Registrada	21	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
and the set of the set	22	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12
UNE-EN ISO 9001	23	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12
	24	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12
	25	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12
	26	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12	12
	27	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12	12
	28	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12	12
	29	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12	12
	30	15	15	15	15	15	15	15	15	15	15	15	15	15	11	11	11	11	11	11

9

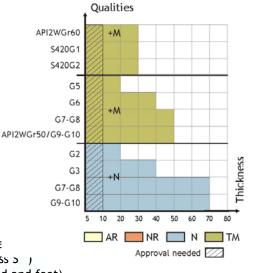
EN 10225 /API2W/NORSOK Weldable structural steels for fixed offshore structures

ArcelorMittal

Heavy Plate Mill - Gijon Works

Delivery conditions:

S355 G2,+N; G3+N, G5+M, G6+M, G7+N/+M, G8+N/+M, G9+N/+M, G10+N/+M, API2WGr50, API2WGr60, S420 G1+M, S420 G2+M



Dimensions: According Table 1 Mechanical properties: According to the standard Chemical composition: Heat analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996 Tolerances: According to EN 10029/ASTMA6 (other tolera Flatness tolerance: According to EN 10225/ASTMA6 (Class 5)

Marking: By painting and by stamping (Head, foot or head and foot) Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy,

Z-Test, Hot tensile test, Hardness, PWHT, Bend test, Product analysis, Grain size.

Available options: 1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 18*, 19&20

10

*TM qualities up to 50mm ** Approval needed by the mill

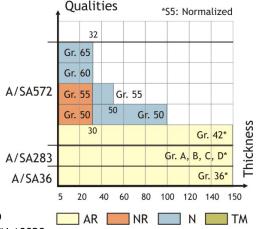
														'PP '		~			~,			
		Thickness										Widt	h mm									
	Table 1.	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
		5	15	15	15	15	15	15	15	15	15	15										
1Chlat	Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
<u>IQNet</u>	Max. Weight:9,7 t	7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	inant in eighter ,	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
GEMENT ST	Length (m)	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
		10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR	Length need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18 18	18 17	18	17
	approval from	22	18 18	18 18	18 18	18 18	18 18	18	17	17 16	16 16											
	the mill	23	18	18	18	18	18	10	18	18	18	18	18	18	18	18	18	17	16	16	15	15
	STOC AND AND	24	18	18	18	18	18	18	18	18	18	18	18	10	18	18	17	16	16	15	15	14
	A SPECIAL SPEC	26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	14
	1944 (1948) (1953) (1957) (19	27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13
Empresa	A PARAMENTAL	28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
Registrada	1942 - 194 - 7/	29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
UNE-EN ISO 9001		30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
	A STATE OF CONTRACT OF CONTRACT.	35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
	A New York Contraction of the second se	40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
		45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
		50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
		55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
		60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
ALC: NO	VIIIIIIIIIIIIIII	65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
ALLE		70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
A CONTRACTOR OF		75	9	10	9	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
- HETT		80	8	10	4	4	8	8	/		/	0	6	0	6	5	5	0	2	5	4	4

ASTM/ASME Structural steel for general application

Heavy Plate Mill - Gijon Works

Delivery conditions:

A/SA36 Grade 36 A/SA283 Grades A, B, C, D A/SA572 Grades 42, 50, 55, 60, 65



Dimensions: According Table 1

Mechanical properties: According to the standard

Chemical composition:

Heat analysis according to the standard

Ultrasonic inspection: According to EN 10160,

ASTM A578, ASTM A435, BS 5996

Tolerances: According to ASTM A6, ASTM A20, EN 10029 Flatness tolerance: According to ASTM A6, ASTM A20, EN 10029

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available

Additional to the standard (Approval needed by the mill): Ceq, Charpy temperature and energy,

Z-Test, Hot tensile test, Hardness, PWHT, Bend test, Product analysis, Grain size.



Thicknes	5									Widt	h mm									
mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	33
5	15	15	15	15	15	15	15	15	15	15										
6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	1
9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	1
10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1
21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1
22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	1
23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	1
24	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	1
25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	1
26	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16	15	15	14	1
27	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	-
28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	-
29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	
30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	-
35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	-
40	16 15	18	18	18	16	16	15 13	14	13	13	12	12	11	11	10 9	10 9	10 9	9	9	\vdash
50	13	18 16	16 15	16 14	15 13	14 12	13	12 11	12 11	11 10	11 10	10 9	10 9	10 9	9	8	8	8	8	-
55	13	10	15	14	13	12	12	10	10	9	9	9	8	9	0	0 7	0 7	7	6	\vdash
60	12	13	12	13	12	10	10	9	9	8	7	8	7	7	7	7	6	6	6	⊢
65	10	13	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	-
70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	⊢
75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	⊢
80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	\vdash
85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	-
90	7	9	8	8	7	7	6	6	6	5	5	5	5	5	4	4	4	4	4	⊢
95	7	8	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4		
100	6	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4			
105	6	7	7	6	6	6	5	5	5	5	4	4	4	4	4					
110	6	7	6	6	6	5	5	5	5	4	4	4	4	4						
115	5	7	6	6	5	5	5	5	4	4	4	4	4							
120	5	6	6	6	5	5	5	4	4	4	4	4								
125	5	6	6	6	5	5	5	5	4	4	4									
130	5	6	6	5	5	5	4	4	4	4										
135	5	6	5	5	5	4	4	4	4											
140	4	5	5	5	4	4	4	4												
145	4	5	5	4	4	4	4													
150	4	5	4	4	4	4	4													

Oferta de Productos Asturias – Edición 2016 – Product Catalogue

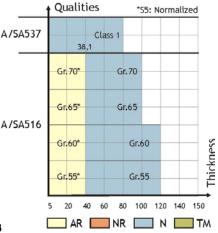
Steels for boilers and pressure vessels

Heavy Plate Mill - Gijon Works

ASTM/ASME

Delivery conditions:

A/SA 516 Grades: 55, 60, 65, 70 A/SA 537 Class 1



Dimensions: According Table 1 Mechanical properties: According to the standard Chemical composition: Heat or product analysis according to the standard Ultrasonic inspection: According to EN 10160, ASTM A578, ASTM A435, BS 5996 Tolerances: According to ASTM A6, ASTM A20, EN 10029

Flatness tolerance: According to ASTM A6, ASTM A20, EN 10029

Marking: By painting and by stamping (Head, foot or head and foot)

Certificates: 3.1 or 3.2 according to EN 10204. Certification of multiple grades is available **Additional to the standard** (Approval needed by the mill): Ceq, Charpy temperature and energy,

Z-Test, Hot tensile test, Hardness, PWHT, Weld bend test, Bend test, Product analysis, Grain size.

and the second se																						
		Thickness										Widt	h mm									
	Table 4	mm	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
ATTEN /	Table 1.	5	15	15	15	15	15	15	15	15	15	15										
0 0	Dimensions	6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
IQNet		7	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
	Max. Weight:9,7 t	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15
A COMPACT DIS		9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16
	Length (m)	10-20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
AENOR	Length need	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17
ALNOK	approval from	22	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16
	the mill		18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	16	16
SELAN .	the mitt	24	18 18	18 17	17 16	16 16	16 15	15 15	15 14													
		25	18 18	18	18	18	18	18	18	18	18	18	18	18	18	18	1/	16	16	15	15 14	14
		20	18	18	10	18	18	10	18	18	18	18	18	18	17	16	16	15	15	14	14	13
Empresa		28	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13
Registrada		29	18	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12
		30	18	18	18	18	18	18	18	18	18	17	16	16	15	15	14	14	13	13	12	12
UNE-EN ISO 9001		35	18	18	18	18	18	18	17	16	15	15	14	13	13	12	12	12	11	11	10	10
		40	16	18	18	18	16	16	15	14	13	13	12	12	11	11	10	10	10	9	9	9
		45	15	18	16	16	15	14	13	12	12	11	11	10	10	10	9	9	9	8	8	8
	1	50	13	16	15	14	13	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
CERT		55	12	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6
		60	11	13	12	12	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6
		65	10	12	11	11	10	9	9	8	8	8	7	7	7	6	6	6	6	6	5	5
and the second se		70	9	11	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5	5	5	5
1.83		75	9	10	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	5
		80	8	10	9	9	8	8	7	7	7	6	6	6	6	5	5	5	5	5	4	4
		85	8	9	8	8	8	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4
		90	7	9	8	8	7	7	6	6	6	5	5	5	5	5	4	4	4	4	4	4
States in the second		95	7	8	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4		_
Statement of the local division in which the local division is not the local division of the local division is not the local division of the local divisio		100	6	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4			
and the second		105	6	7	7	6	6	6	5	5	5	5	4	4	4	4	4					
and the second se		110	6 5	7	6	6	6 5	5	5	5	4	4	4	4	4	4						
CONTRACTOR OF THE OWNER		115	5	6	6	6	5	5	5	4	4	4	4	4	4							_
	and the second se	120	1.2	L 0	0	0	0	0	9	4	4	4	4	ч								
	AND THE REAL PROPERTY AND INCOMENTS																					

Feasibility of plates from 10 to 15 t



Heavy Plate Mill - Gijon Works

Max Thickness: 80 mm Minimum width: 2100mm. Other width below 2100mm means reduction in the maximum weight Grades structural Steels: S355 JR, S355J0, S355 J2+N, S355 K2 + N, S355 N, S355 NL, SA516 Gr70, A516Gr70, S355 G7/G8/G9/G10+N, S355 G7/G8/G9/G10+M, API2W

Additional req: Ceq \leq 0,43 Surface Quality : EN10163 Criterias from A1 to B3. Ultrasonic Testing: EN10160 Criterias from S0E0 up to S2E2. Other requirements under consult.

Z Testing: Z25 and Z35.

Bend Test: Longitudinal or Transversal. Bending radius according to EN standards.

Weld Bead Bend Test SEP1390

S < 0,005 %

*Other properties related to chemistry or mechanical properties must be asked.

> Table 4. Dimensions Max. Weight:15 t



Thickness						М	/idth mr	n					
mm	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
21	18	18	18	18	18	18	18	18	18	18	18	18	18
22	18	18	18	18	18	18	18	18	18	18	18	18	18
23	18	18	18	18	18	18	18	18	18	18	18	18	18
24	18	18	18	18	18	18	18	18	18	18	18	18	18
25	18	18	18	18	18	18	18	18	18	18	18	18	18
26	18	18	18	18	18	18	18	18	18	18	18	18	18
27	18	18	18	18	18	18	18	18	18	18	18	18	18
28	18	18	18	18	18	18	18	18	18	18	18	18	18
29	18	18	18	18	18	18	18	18	18	18	18	18	18
30	18	18	18	18	18	18	18	18	18	18	18	18	18
35	18	18	18	18	18	18	18	18	18	18	17	17	16
40	18	18	18	18	18	18	17	17	16	15	15	15	14
45	18	18	18	17	17	16	15	15	14	14	13	13	13
50	18	17	16	15	15	14	14	13	13	12	12	12	11
55	16	15	15	14	14	13	13	12	12	11	11	11	10
60	15	14	13	13	12	12	11	11	11	10	10	10	9
65	14	13	12	12	11	11	11	10	10	10	9	9	9
70	13	12	12	11	11	10	10	9	9	9	9	8	8
75	12	11	11	10	10	10	9	9	9	8	8	8	8
80	11	11	10	10	9	9	9	8	8	8	7	7	7

Additional properties



Heavy Plate Mill - Gijon Works

UT	UT level / thickness plates range (mm)											
	E0	E1	E2	E3								
SO	5-150											
S1		5-100	5-80	5-80								
S2			5-80	5-80								
S3				5-80								

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

