



Quarto plates price extras list

for Industry Europe

ArcelorMittal

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Valid as from 01/04/2013 – version 04/02/2013 (EUR/Mtonne)

1. User guidelines

1.1 Price calculation

The following document only lists extras.

The price as invoiced includes:

The basis price

+ Transportation extra

+ Transportation tax (depending on the country)

+ Any extras from the list below

1.2 Product availability

Not all combinations of specifications are available at each production facility.

1.3 Special suitability

.1 Cold forming

Cold forming (C suitability conform to EN 10025 option)	18
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.2 Galvanising

Class I	20
Class II	15
Class III	0

2. Extras

Notes:

1. Not all mills may be able to supply all grades; to be checked with the mill prior to confirmation.
2. All other extras in sections 3, 4, 5 and 6 to be applied in addition.

2.1 Structural steels

.1 Non-alloyed or micro-alloyed made to EN 10025:2004

Steels made to EN 10025-2:2004 (*data sheet H30*)

EN 10025-2:2004	
S185	0
S235JR+AR	5
S235JR+N	15
S235J0+AR	15
S235J0+N	25
S235J2+AR	25
S235J2+N	30
S275JR+AR	15
S275JR+N	25
S275J0+AR	25
S275J0+N	35
S275J2+AR	35
S275J2+N	40
S355JR+AR	35
S355JR+N	40
S355J0+AR	40
S355J0+N	45
S355J2+AR	45
S355J2+N	50
S355K2+AR	60
S355K2+N	60

For JR steel grades, the Charpy impact test is optional. If required, it must be specified in the order, and then the extra according to paragraph 6.3 is applicable.

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Weldable fine-grained steels made to EN 10025-3:2004 – normalised or normalised rolled steels (data sheet H41)

EN 10025-3:2004

S275N	50
S355N	69
S420N	120
S460N	150
S275NL	73
S355NL	90
S420NL	140
S460NL	170

Weldable fine-grained steels made to EN 10025-4:2004 – thermomechanically rolled (data sheet H40)

EN 10025-4:2004

S275M	65
S355M	82
S420M	135
S460M	175
S275ML	70
S355ML	100
S420ML	155
S460ML	195

Steels with improved corrosion resistance made to EN 10025-5:2004 (data sheet H34)

EN 10025-5:2004

S235J0W	105
S235J2W	110
S355J0W	128
S355J2W	130
S355J2W+N	132
S355K2W	140
S355K2W+N	145

.2 Non-alloyed or micro-alloyed made to the ASTM standards

Steels made to ASTM A283

ASTM A283

Grade A	11
Grade B	13
Grade C	15
Grade D	18

Steels made to ASTM A36

ASTM A36

A36	20
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2.2 Steels for pressure vessels - non HIC (data sheet H62)

Extras related to HIC, PWHT where required in the order must always be charged.

.1 Steels for simple pressure vessels made to EN 10207:2005

EN 10207:2005

P235S	48
P265S	52
P275SL	72

.2 Steels with specified properties at elevated temperatures made to EN 10028-2:2009

EN 10028-2:2009

P235GH	81
P265GH	84
P295GH	100
P355GH	110

.3 Weldable fine-grained steels, normalised

EN 10028-3:2009

P275NH	85
P275NL1	95
P275NL2	105
P355N	90
P355NH	100
P355NL1	110
P355NL2	120
P460NH	202
P460NL1	212
P460NL2	222

.4 Steels made to the ASTM standards

Steels made to ASTM A285

ASTM A285

Grade A	48
Grade B	49
Grade C	61

Steels made to ASTM A515

ASTM A515

Grade 55	51
Grade 60	61
Grade 65	70
Grade 70	75

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Steels made to ASTM A516

ASTM A516

Grade 55	60
Grade 60	65
Grade 65	75
Grade 70	80
Option S5 acc. to ASTM A20 / ASME SA20	35

Steels made to ASTM A537

ASTM A537

Class 1	80
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.5 Alloyed steels made to EN 10028-2:2009

Steels with specified properties at elevated temperatures made to EN 10028-2:2009

EN 10028-2:2009

16 Mo 3	150*
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* alloying upcharge to be applied in addition, see below

.6 Alloying upcharges

Upcharges valid for deliveries as from 01/01/2010.

This upcharge can be reviewed in case the price of Molybdenum deviates from the average value.

Alloyed steels made to EN 10028-2:2009

Steels with specified properties at elevated temperatures made to EN 10028-2:2009

EN 10028-2:2009

16 Mo 3	100
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Example of calculation:

extra for 16 Mo 3 = 150 (for the grade) + 100 (alloying upcharge)

-> extra for 16 Mo 3 = 250

2.3 Shipbuilding steels according to class societies (data sheet H63)

Lloyds
ABS
DNV
RINA
GL
BV

Inspection and certification charges to be applied in addition.

.1 Normal strength steels

Naval® A	20
Naval® B	45
Naval® D	55
Naval® E	75

.2 High strength steels – normalised, normalised rolled or thermomechanically rolled

ArcelorMittal specific offer

AH-32 AM FCE	45
DH-32 AM FCE	48
EH-32 AM FCE	70
FH-32 AM FCE	85
AH-36 AM FCE	50
DH-36 AM FCE	55
EH-36 AM FCE	75
FH-36 AM FCE	95
AH-40 AM FCE	90
DH-40 AM FCE	100
EH-40 AM FCE	110
FH-40 AM FCE	205

2.4 Steels for cold forming

.1 Steels made to EN 10149-2:1995 – thermomechanically rolled (data sheet H20)

EN 10149-2:1995

S315MC	65
S355MC	85
S420MC	145
S460MC	185
S500MC	255

.2 Steels made to EN 10149-2:1995 – normalised or normalised rolled (data sheet H21)

EN 10149-2:1995

S260NC	50
S315NC	60
S355NC	80
S420NC	140

2.5 Steels for line pipes – Non HIC (data sheet H60)

Extras for DWTT, CTOD must always be charged.

Steels for line pipe construction made to API 5L – sweet service applications

ArcelorMittal specific offer

A AM FCE	20
B AM FCE	40
X42 AM FCE	70
X46 AM FCE	80
X52 AM FCE	90
X60 AM FCE	110
X65 AM FCE	140
X70 AM FCE	150

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2.6 Branded steels

Steels with improved corrosion resistance

Indaten® 355HA	190
Indaten® 355HD	190

2.7 Weldable structural steels for fixed offshore structures

(data sheet H50)

EN 10225:2009

S355G2+N	(1)
S355G3+N	(1)
S355G5+M	(1)
S355G6+M	(1)
S355G7+N	(1)
S355G7+M	(1)
S355G8+N	(1)
S355G8+M	(1)
S355G9+N	(1)
S355G9+M	(1)
S355G10+N	(1)
S355G10+M	(1)

(1) After prior agreement and to be checked with the mills prior to confirmation

3. Dimensions & order quantities

Notes:

Not all mills may be able to supply all dimensions; to be checked with the mill prior to confirmation.

3.1 Extras for thickness / width

Thickness (mm)	Width (mm)				
	1500 - 2050	2051 - 2500	2501 - 3000	3001 - 3600	> 3600
5 - 5.9	218	200	-	-	-
6 - 6.9	90	80	125	175	-
7 - 7.9	60	50	65	95	-
8 - 9.9	40	30	35	75	95
10 - 40	20	15	15	40	60
40.1 - 79.9	35	30	30	55	75
80 - 100	55	50	50	75	95
100.1 - 120	80	75	75	100	-
> 120	110	105	105	130	-

3.2 Extras for thickness / length

Thickness (mm)	Length (mm)			
	< 4000	4000 - 12000	12001 - 16000	> 16000
< 8	-	7	15	25
8 - 40	(1)	4	10	20
> 40	30	9	26	36

Minimum and maximum lengths available vary from mill to mill. For orders > 12.5 m and < 4.0 m the supply possibility has to be checked with the mill prior to confirmation.

(1) After prior agreement and to be checked with the mills prior to confirmation

3.3 Extras for tolerances

Our standard supply condition is as per EN 10029:2010.

.1 Tolerances on thickness

class A	0
class B	0
class C	(1)
class D	0

(1) After prior agreement

.2 Tolerances on flatness

Special flatness (class S)*	20
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* not all dimensions are possible, to be checked with the mills prior to confirmation

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3.4 Extras for restricted quantities per line item

Quantity per line item (Mtonne)

≥ 50	-5
25.0 - 49.9	0
10.0 - 24.9	5
5.1 - 9.9	18
≤ 5	50

Not all mills may be able to supply the line item quantities as mentioned above; prior mill acceptance required.

4. Restrictions on chemistry, process or properties when specified in the order

4.1 Changes in chemistry / limitation on certain elements

Element	Restriction	
Carbon	As per standard	0
	For each 0.01% reduction	6
Sulphur	As per standard	0
	0.012% < S ≤ 0.015%	0
	0.010% < S ≤ 0.012%	11
	0.008% < S ≤ 0.010%	18
	0.005% < S ≤ 0.008%	25
	0.003% < S ≤ 0.005%	30
	S ≤ 0.003%	45
Manganese	As per standard	0
	For each 0.1% reduction	7
Phosphorus	As per standard	0
	0.020% ≤ P ≤ 0.025%	0
	0.015% < P < 0.020%	5
	P ≤ 0.015%	10
Copper	0.20% - 0.34%	30
	0.35% - 0.39%	45
	0.40% - 0.44%	60
CEV	As per standard	0
	For each 0.01% reduction	6

4.2 The steel-making process

Degassing	30
Calcium treatment	30

4.3 The production process (when not defined in the standard or requested by the customer)

Normalising	30
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4.4 Mechanical properties higher than those specified in the standard

Tensile tests

Steels with < 355 N/mm ² of yield strength	
a) Tensile strength: for each 10 N/mm ² increase above the minimum value in the standard	3
b) Yield strength: for each 10 N/mm ² increase above the minimum value in the standard	4
Steels with ≥ 355 < 420 N/mm ² of yield strength	
a) Tensile strength: for each 10 N/mm ² increase above the minimum value in the standard	3
b) Yield strength: for each 10 N/mm ² increase above the minimum value in the standard	10
Steels with ≥ 420 N/mm ² of yield strength	
a) Tensile strength: for each 10 N/mm ² increase above the minimum value in the standard	3
b) Yield strength: for each 10 N/mm ² increase above the minimum value in the standard	14

Charpy impact test

Down to -20 °C	
For each 5 °C reduction in the testing temperature	4
Below -20 °C and down to -50 °C	
For each 5 °C reduction in the testing temperature	6
Below -50 °C and down to -60 °C	
For each 5 °C reduction in the testing temperature	20
For each 5 Joules increase above the minimum energy value	6
Other values	(1)

(1) After prior agreement

5. Shotblasting & priming

Notes:

- Not all mills may be able to supply; to be checked with the mill and agreement to be made prior to confirmation.
- All other extras in sections 2, 4, 5 and 6 to be applied in addition.
- Basic = shotblasting SA 2.5; priming 18/20 microns; 15/17 microns for ceramic Zn-silicate.
- Priming of more than 35 microns: on prior request.
- Edge painting, one-side treatment or any other variables must be submitted as a request.
- Specific paint brand after prior agreement.

Thickness (mm)	Only shotblasting SA 2.5	Basic Fe-oxide	Basic Zn-silicate	Basic ceramic Zn-silicate
5 - 5.9	46	100	92	140
6 - 6.9	38	85	78	110
7 - 7.9	34	80	73	100
8 - 8.9	30	64	58	90
9 - 9.9	28	62	56	87
10 - 11.9	25	50	45	70
12 - 14.9	20	42	35	60
15 - 19.9	17	33	30	45
20 - 29.9	15	26	25	34
30 - 39.9	12	24	22	30
40 - 79.9	10	22	20	26
≥ 80	8	20	18	25

Thickness (mm)	Only shotblasting SA 3.0	Basic Fe-oxide	Basic Zn-silicate	Basic ceramic Zn-silicate
5 - 5.9	69	123	115	163
6 - 6.9	57	104	97	129
7 - 7.9	51	97	90	117
8 - 8.9	45	79	73	105
9 - 9.9	42	76	70	101
10 - 11.9	37	62	57	82
12 - 14.9	30	52	45	70
15 - 19.9	25	41	38	53
20 - 29.9	22	33	32	41
30 - 39.9	18	30	28	36
40 - 79.9	15	27	25	31
≥ 80	12	24	22	29

Supplementary extras related to the heavier cost of primer

2% higher per increase in micron of the coating above the basic specified.

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6. Inspection & testing

Notes:

1. Not all mills may be able to supply; to be checked with the mill and agreement to be made prior to confirmation.
2. All other extras in sections 2, 4, 5 and 6 to be applied in addition.

6.1 Certification when specified in the order

Certification	Applicability	
2.1 standard frequency	All grades	0
3.1 standard frequency	All grades	0
per mother plate	All grades	10
If AD200W1 is required		15
3.2 standard frequency	Shipbuilding	0
	Other	15
per mother plate		25

6.2 Multiple grades: highest grade extra to be applied

	€/tonne
Single certification	0
Double certification	5*
Triple certification	10*
Quadruple certification	20*

* to be charged above the price of the highest grade

Example

How to calculate the extra for ASTM A516 gr.70 / AH36 as per DNV & ABS

Extra for A516 gr.70 > extra for AH36

Extra = extra for A516 gr.70 + extra for double certification

Extra = 80 + 5 = 85 EUR/Mtonne

6.3 Testing when not included in the standard or optional

Tensile test (lot)	1
Tensile test (single plate)	10
Charpy impact test (lot)	1
Charpy impact test (single plate)	10
Bend test (lot)	1
Bend test (single plate)	10
Hardness test (lot)	1
Hardness test (single plate)	10
Hot tensile test (lot)	5
Hot tensile test (single plate)	30

6.4 Ultrasonic testing (according to EN 10160:2000) when specified in the order

Notes:

1. Inspected edge width as described in EN 10160:2000:
 - 50 mm for $6 \leq \text{thickness} < 50$
 - 75 mm for $50 \leq \text{thickness} < 100$
 - 100 mm for $100 \leq \text{thickness} < 200$
2. Surface grid side size:
 - 200 mm for S0 & S1
 - 100 mm for S2 & S3

Thickness (mm)	Peripheral inspection			
	E0	E1	E2	E3
5 - 12	2	7	15	35
12.1 - 25	3	8	16	38
25.1 - 79.9	10	10	18	40
≥ 80	15	17	22	45

Thickness (mm)	Surface inspection			
	S0	S1	S2	S3
5 - 12	2	8	15	35
12.1 - 25	3	10	16	38
25.1 - 79.9	10	15	18	40
≥ 80	15	20	22	45

S1+E1 according to EN 10160 corresponds to SEL 072 KI; NF A 04-305KI.A; BS 5996 B4E1; EU160 KI.A; A435; A548 Level A and B.

S2+E3 according to EN 10160 corresponds to SEL 072 KI; NF A 04-305KI.B; BS 5996 B6E3; EU160 KI.B; A548 Level C.

S3+E4 according to EN 10160 corresponds to SEL 072 KI; NF A 04-305KI.C; BS 5996 B7E4; EU160 KI.C.

6.5 Special tests when specified in the order

DWTT (lot)	6
Ferritic grain test (lot)	5
Ferritic grain test (single plate)	20
PWHT (lot), per cycle	2
PWHT (single plate), per cycle	10
Weld bead bend test to SEP 1390	30

6.6 Z tests*

Test	Lot	Single plate
Z15	10	20
Z25	20	35
Z35	30	50

Sampling as per standard

* Z tests require mandatory US testing (min. S1), to be charged in addition