



ArcelorMittal

Products & Prices

USA Plate Products

EFFECTIVE 1/1/17

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ArcelorMittal USA LLC

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Terms and Conditions



ArcelorMittal

ArcelorMittal USA LLC

ARCELORMITTAL USA LLC TERMS AND CONDITIONS OF SALE

ALL SALES BY ARCELORMITTAL USA LLC AND ITS AFFILIATES AND SUBSIDIARIES (COLLECTIVELY "SELLER") ARE MADE SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS. TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE IN THESE CONDITIONS OF SALE, INCLUDING BUT NOT LIMITED TO TERMS CONTAINED IN BUYER'S PURCHASE ORDER, ARE DEEMED MATERIAL AND HEREBY REJECTED UNLESS OTHERWISE ACCEPTED BY SELLER IN WRITING. Seller's acceptance of Buyer's purchase order or commencement of performance shall not constitute acceptance of any of Buyer's terms and conditions. Buyer's assent to these terms and conditions shall be conclusively presumed from Buyer's (1) receipt of Seller's order acknowledgment without written objection sent to Seller within ten (10) days after receipt of this order acknowledgment or accepted purchase order, (2) instructing Seller to begin work or to ship any of the goods after receipt of Seller's order acknowledgment or accepted purchase order, or (3) acceptance of all or any part of the goods ordered. Seller may commence performance in reliance upon Buyer's acceptance of these conditions of sale. BUYER AND SELLER AGREE THAT THE TERMS AND CONDITIONS PRINTED HEREIN ARE ACCEPTED IN GOOD FAITH BY BOTH PARTIES AS THE CONTROLLING AND FINAL TERMS AND CONDITIONS. BUYER AND SELLER FURTHER AGREE THAT THERE SHALL NOT BE A "BATTLE OF FORMS" AS DESCRIBED IN SECTION 2-207 OF THE UNIFORM COMMERCIAL CODE.

1. **ENTIRE AGREEMENT.** Except as otherwise agreed to by Seller in writing, the terms and conditions set forth herein, together with the applicable Seller order acknowledgment or accepted purchase order, shall constitute the complete and final agreement between Seller and Buyer, superseding completely any prior oral or written communications. Terms or conditions contained in any document issued by Buyer which in any manner purport to alter, modify, change, suspend, or add to any term or condition contained herein shall be deemed excluded from such Buyer document and waived by Buyer. Seller and Buyer expressly agree that Seller may modify these terms and conditions from time to time, and such modifications shall be binding upon Buyer.
2. **PURCHASE PRICE.** The purchase price of the goods shall be as stated on the applicable Seller order acknowledgment or accepted purchase order; provided, however, that if Seller announces a surcharge, such surcharge shall become effective for goods scheduled for shipment beginning on the date set forth in Seller's announcement of such surcharge or, if there is no such date, immediately upon such announcement. Seller reserves the right to change all quotations at any time. Seller shall be bound only upon issuance of an order acknowledgment or shipment and acceptance of all or any part of the goods ordered.
3. **PURCHASE ORDER MODIFICATION/CANCELLATION.** Buyer cannot modify, cancel, or otherwise alter purchase orders after receipt of purchase order by Seller without Seller's written consent. Any such modification, cancellation, or alteration shall be subject to conditions as negotiated at such time, which shall include protection of Seller against loss.
4. **LIMITED WARRANTY.** EXCEPT AS EXPRESSLY SET FORTH IN SELLER'S ORDER ACKNOWLEDGEMENT, SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. SELLER ACCEPTS NO RESPONSIBILITY, RISK OR LIABILITY TO BUYER OR OTHERS CONCERNING, RELATING TO OR ARISING OUT OF THE PERFORMANCE, NON-PERFORMANCE, FAILURE, EFFICACY, LENGTH OF LIFE OF OR ANY DEFECT IN THE WHOLE OR ANY PART OR PARTS OF ANY PRODUCT OR PRODUCTS MANUFACTURED OR FABRICATED FROM OR INCORPORATING OR OTHERWISE USING THE PRODUCTS SOLD HEREUNDER.
5. **LIMITATIONS OF LIABILITY.** SELLER'S LIABILITY, WHETHER IN CONTRACT, IN TORT, UNDER WARRANTY, IN NEGLIGENCE, OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE OF THE GOODS AGAINST WHICH CLAIM IS MADE, AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DEMURRAGE CHARGES, COSTS OF SHIPMENT, DOWNTIME, LOST PROFITS, OR LOST SALES. AT SELLER'S DISCRETION, BUYER'S SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO THE PORTION OF ANY GOODS PROVEN TO HAVE FAILED TO MEET IN MATERIAL RESPECT THE SPECIFICATIONS ON THE SELLER'S ORDER ACKNOWLEDGEMENT AT THE TIME OF SHIPMENT FROM THE SELLER'S FACILITY SHALL BE LIMITED TO : (1) REPLACEMENT OF GOODS AT THE POINT OF SHIPMENT FROM THE SELLER'S FACILITY, (2) REPAIR OF THE GOODS AT A LOCATION TO BE DETERMINED BY THE SELLER, OR (3) REPAYMENT OF OR CREDIT AGAINST THE PURCHASE PRICE OF SUCH GOODS UPON AUTHORIZED RETURN THEREOF. SELLER AND BUYER EXPRESSLY AGREE TO THIS ALLOCATION OF RISK AND THE PRICE STATED FOR THE GOODS IS CONSIDERATION IN LIMITING SELLER'S LIABILITY. IN THE EVENT SELLER HAS AUTHORIZED BUYER TO SCRAP ALL OR ANY PORTION OF THE GOODS, THE SCRAP ALLOWANCE IS TO BE CREDITED TO THE SELLER.
6. **LIMITATION OF LIABILITY FOR DELIVERY DELAYS.** Delivery dates are approximate. In no event shall Seller be liable for any claims for labor or for any special, indirect, incidental, or consequential damages including, but not limited to, demurrage charges, cost of shipment, downtime, lost profits, lost sales, or any other damages resulting from delay in delivery. ACCEPTANCE OF GOODS BY BUYER SHALL CONSTITUTE A WAIVER BY BUYER OF ANY CLAIM FOR DAMAGES ON ACCOUNT OF DELIVERY DELAY.
7. **TRANSPORTATION CHARGES.** Unless specified in Seller's order acknowledgment, price quotations do not include shipment costs. Except as otherwise agreed, delivery prices are computed by adding the cost of transportation to destination and any taxes paid by the Seller. If goods are shipped freight prepaid, the charge for freight shall be added to the invoice. Buyer may elect to pick up the goods, provided that Buyer does so within ten (10) days after Buyer has been notified by Seller of the date of shipment, and Buyer gives 24 hours notice prior to picking up the goods. Seller reserves the right to ship without further notification at any time after the ten (10) day period. If such method of transportation is not available as requested, Seller reserves the right to use an alternate method of transportation, whether or not at a higher rate. In any such case, Seller shall notify buyer of any such changes as promptly as possible.
8. **PASSAGE OF TITLE, RISK OF LOSS.** Unless expressly specified in Seller's order acknowledgment, all deliveries are F.O.B. point of shipment (**Uniform Commercial Code definition**), whether freight prepaid by Buyer or freight collect to destination, and risk of loss to the products shall pass to the Buyer at the point of shipment from Seller's facility, whether freight prepaid or freight collect to destination, regardless of which party arranges the freight charges or particulars of shipment. For products priced at destination, any charges at destination for spotting, switching, handling, storage, demurrage and other accessory services shall be for Buyer's account, unless otherwise stated in the Seller's order acknowledgment. Risk of loss, damage or delay in transit shall be borne by Buyer. Seller reserves and retains title to products supplied hereunder until payment in full of the purchase price therefore is received by Seller. With respect to freight collect shipments, it shall be the responsibility of the Buyer to select the carrier involved and for freight prepaid, freight collect or any other arrangement, it shall be the responsibility of the Buyer to file and pursue any claims with the carrier related to loss, damage or delay in transit. Buyer shall not have the right to divert such shipment without permission of the Seller. Unless specified in Seller's order acknowledgment or accepted purchase order, Seller reserves the right to select the mode of transportation.
9. **TAXES AND DUTIES.** Prices quoted do not include any taxes or other assessments. All taxes of any kind levied by any federal, state, municipal, foreign, or other governmental authority which Seller is required to collect or pay with respect to the production, sale, purchase, delivery, storage, processing, use, consumption, or shipment of goods sold hereunder shall be the responsibility of Buyer. Buyer agrees to pay all such taxes and further agrees to reimburse Seller for any such payments made by Seller. Buyer hereby affirms that it is purchasing the Seller's goods referenced herein for resale, and/or that Buyer is not the end user of the goods, so as to be exempt from any otherwise applicable sales tax.
10. **PACKAGING.** Seller shall use all reasonable means to comply with any packaging, loading, or bracing requirements specified in Buyer's purchase order. Any extras due to compliance with such requirements shall be charged according to the Seller's Extras List. If no packaging, loading, or bracing requirements are specified, Seller shall comply with Seller's standard packaging and shipping procedures customarily applied to the method of transportation used for such goods.
11. **STANDARDS AND TOLERANCES.** Unless specifically agreed to in writing by Seller, all goods sold hereunder shall conform to industry standard variations and tolerances such as those described by ASTM International ("ASTM"), the American Iron and Steel Institute ("AISI"), and the Society of Automotive Engineers ("SAE").
12. **CLAIMS BY BUYER.** Claims by Buyer with respect to shortage of goods or for damaged goods must be made in writing no later than sixty (60) days following receipt of goods for visual damage to unwrapped goods or shortage of goods, and no later than one hundred twenty (120) days of receipt of goods for all other circumstances including damage to wrapped goods, non-visual defects, and all nonconformance to ordered specifications. All claims must be made only for substantial cause, must be in writing, and must specify the reason(s) for the claim. THE FAILURE TO NOTIFY SELLER OF ANY CLAIM WITHIN THE TIME PERIOD SPECIFIED BY THIS SECTION SHALL CONSTITUTE A WAIVER OF AND BAR SUCH CLAIM. SELLER SHALL INCUR NO LIABILITY FOR SHORTAGE OR DAMAGE ALLEGED TO HAVE OCCURRED OR EXISTED AT OR PRIOR TO DELIVERY TO THE BUYER UNLESS BUYER SHALL HAVE ENTERED FULL DETAILS THEREOF ON CARRIER'S DELIVERY RECEIPT WHICH MUST BE SIGNED BY THE CARRIER'S AGENT. SELLER MUST BE GIVEN AN OPPORTUNITY TO INVESTIGATE THE CLAIM BEFORE BUYER DISPOSES OF THE GOODS. ANY DAMAGED GOODS SHALL NOT BE RETURNED, REPAIRED OR DISCARDED WITHOUT SELLER'S WRITTEN PERMISSION. Buyer agrees that the provisions of the Seller's claims management policy shall govern all claims submitted to the Seller by the Buyer for goods sold hereunder, unless provided otherwise in Seller's order acknowledgment. No allowance will be made to Buyer for storage, materials or labor involved in the movement of rejected goods from the plant of Buyer or Buyer's processor or Buyer's storage facility. A variation between Seller and Buyer's scale weight of up to one percent (1%) shall be permissible.

Terms and Conditions



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13. **MECHANICAL PROPERTIES/CHEMICAL ANALYSIS.** Seller makes no warranty with respect to data referring to mechanical properties or chemical analyses of tests performed on specimens of products. Any data referring to mechanical properties or chemical analyses are the result of tests performed on specimens obtained from specific locations on the products in accordance with prescribed sampling procedures.
14. **FORCE MAJEURE.** Seller shall not be responsible for cancellation or delay in delivery or performance resulting, in whole or in part, from causes beyond its reasonable control, including, but not limited to: acts of God; acts of Buyer; strikes or other labor disturbances regardless of whether or not Seller is capable of settling such strike or disturbance; mill conditions; temporary or permanent mill closures; equipment failure; inability to obtain fuel, material, or parts; war; acts of terrorism; riot; delays in transportation; repairs to equipment; epidemics; floods; fires; unusually severe weather conditions; accidents; or other contingency the non-occurrence of which was a basic assumption on which the purchase order was made.
15. **PAYMENT TERMS.** Unless otherwise agreed to in writing by Seller's credit division, payment terms are net cash thirty (30) days from the date of invoice payable in United States dollars or the equivalent thereof. Discounts for payments within ten (10) days from the date of the invoice, when applicable, will be specified on the invoice, no discount being allowed on transportation charges. Interest will accrue on invoices unpaid after the net due date. The interest charge will be calculated utilizing the prime rate (as printed in the *Wall Street Journal*) plus three percent (3%), or the maximum legal contract interest rate, whichever is less. If Buyer fails to make payment in full or in part or refuses to pay any applicable price increases or surcharges, Seller shall have the right to: (i) immediately suspend performance and cancel the unfinished portion of the order, or (ii) proceed with the order, given an extension of time for performance as is necessitated by the temporary suspension. Seller shall have right to enforce payment of the full purchase price, including any price increase or surcharge, for products already delivered or in process. Seller shall have the right to employ an attorney to collect the due balance and Buyer agrees to pay all collection costs incurred by Seller, including Seller's attorney fees.
16. **OFFSETS.** Buyer hereby authorizes Seller to credit toward the payment of any monies that may become due Seller hereunder, any monies which may now or hereafter be owed to Buyer by Seller or by any subsidiary, affiliate, or parent of the Seller.
17. **ACCORD AND SATISFACTION.** Checks or payments, whether full or partial, received from or for the account of Buyer, regardless of writings, legends, or notations upon such checks or payments, and regardless of other writings, statements, or documents, shall be applied by Seller against the amount owed by Buyer with full reservation of all Seller's rights and without an accord and satisfaction of Buyer's liability.
18. **CREDIT.** Buyer represents that Buyer is solvent and can and will pay for the products sold to the Buyer in accordance with these terms and conditions. Production, shipment, and delivery of goods shall at all times be subject to approval of Seller's credit division. Seller may, at its option, suspend performance or terminate the agreement if, in Seller's opinion, the credit of Buyer becomes impaired, until such time as Seller has received full payment, including any general price increases or surcharges, or satisfactory security for deliveries made and is satisfied as to Buyer's credit for future deliveries. Seller reserves the right, by written notice, to cancel any order, reevaluate all payment terms, or require full or partial payment or adequate assurance of performance from Buyer without liability to Seller in the event of a material adverse change to the Buyer's financial condition.
19. **CONFIDENTIALITY.** Any pricing information provided by Seller to Buyer is proprietary to Seller and shall be held in confidence by Buyer, shall only be used by Buyer in connection with this sale, and shall not be used for any other purposes or disclosed to third parties without Seller's prior written consent. Buyer shall be liable for any loss to Seller or commercial gain by others from unauthorized use of confidential information occasioned by Buyer's failure to comply with this provision.
20. **TECHNICAL ADVICE.** Seller assumes no obligation or liability for any technical advice furnished to Buyer, including without limitation technical advice with respect to the use of Seller's goods and services, all such technical advice being given and accepted at Buyer's risk. Seller will not be liable for any damages of any kind arising out of or relating to the use of or the inability to use the information provided, including but not limited to any special, indirect, incidental or consequential damages including, but not limited to, demurrage charges, cost of shipment, downtime, lost profits or lost sales, whether foreseeable or not, and even if Seller has been advised of the possibility of damages.
21. **GOVERNING LAW.** This agreement shall be governed by, construed, and enforced in accordance with the laws of the state of Illinois, including the Illinois Uniform Commercial Code, without regard to conflict of law principles.
22. **MEDIATION.** Buyer and Seller will attempt in good faith to resolve promptly through negotiation any dispute arising from or related to this sale. If a dispute should arise, representatives of the Buyer and Seller shall meet at least once and will attempt in good faith to resolve the dispute. For such purpose, Buyer or Seller may request a meeting which shall be held within fifteen (15) days of the request at a mutually agreed upon time and place. The meeting shall be attended by representatives of each party with authority to resolve the dispute. IF BUYER AND SELLER ARE NOT ABLE TO CONDUCT A MEETING WITHIN SAID FIFTEEN (15) DAY PERIOD, OR IF BUYER AND SELLER DO NOT RESOLVE THE DISPUTE WITHIN THIRTY (30) DAYS AFTER THEIR FIRST MEETING, BUYER AND SELLER AGREE TO SUBMIT THE DISPUTE TO MEDIATION. BUYER AND SELLER FURTHER AGREE THAT THEIR PARTICIPATION IN MEDIATION IS A CONDITION PRECEDENT TO ANY PARTY PURSUING ANY OTHER AVAILABLE REMEDY IN RELATION TO THE DISPUTE. Mediation involves each side of a dispute sitting down with an impartial person, the mediator, to attempt to reach a voluntary settlement. Mediation involves no formal court procedures or rules of evidence, and the mediator does not have the power to render a binding decision or force an agreement on the parties. Buyer and Seller agree that the entire mediation procedure will be confidential. Buyer or Seller must give written notice of their desire to commence mediation, and a mediation session must take place within forty-five (45) days after the date such notice is given. Buyer and Seller will jointly appoint a mutually acceptable mediator. If Buyer and Seller are unable to agree upon the appointment of a mediator within seven (7) days after notice of desire to mediate is given, Buyer or Seller may apply to the American Arbitration Association for appointment of a mediator. The mediation shall be held in Chicago, Illinois. Buyer and Seller agree that the expenses of mediation shall be borne equally by both parties.
23. **JURISDICTION.** BUYER, ACTING FOR ITSELF AND ITS SUCCESSORS AND ASSIGNS, HEREBY WAIVES ALL RIGHTS TO TRIAL BY JURY IN ANY LITIGATION ARISING FROM OR RELATED TO THIS AGREEMENT. SUBJECT TO SECTION 22, BUYER EXPRESSLY AND IRREVOCABLY CONSENTS TO THE JURISDICTION OF THE STATE AND FEDERAL COURTS LOCATED IN CHICAGO, ILLINOIS, AND WAIVES THE RIGHT TO ASSERT THAT ANY ACTION IN ANY SUCH COURT IS IN THE IMPROPER VENUE OR SHOULD BE TRANSFERRED TO A MORE CONVENIENT FORUM.
24. **STATUTE OF LIMITATIONS.** BUYER AND SELLER AGREE THAT ANY ACTION, REGARDLESS OF FORM, ARISING OUT OF THIS SALE MUST BE BROUGHT WITHIN ONE YEAR AFTER GOODS ARE DELIVERED TO BUYER.
25. **NONWAIVER.** Seller reserves the right to enforce these terms and conditions at any time and none shall be deemed waived unless such waiver is in writing and signed by an authorized officer of Seller.
26. **SEVERABILITY.** If any provision or part of a provision of this agreement is declared invalid, illegal, or unenforceable under applicable law, the affected provision will be considered omitted or modified to conform to applicable law. The validity, legality, and enforceability of all other remaining provisions or parts of provisions will remain in full force and effect.
27. **AUDIT.** Unless otherwise agreed to in writing by Seller, Buyer shall have no right to audit any books or records of Seller, including but not limited to, applicable purchase orders and order acknowledgements.
28. **INDEMNIFICATION.** Buyer shall indemnify Seller against any loss, damage, suit, liability, or claim (including reasonable attorney fees and costs) caused by acts of Buyer not authorized by this agreement or by any willful or negligent act of the Buyer.
29. **E-VERIFY COMPLIANCE.** This contract is for the provision of goods (rather than for services or construction); to the extent that the goods are ultimately used in the performance of a federal contract, Seller is not subject to the E-Verify requirement set forth in the Federal Acquisition Regulations in clause 52.222-54. It is the Buyer's obligation to ensure compliance with any applicable E-Verify obligation, regulation, or law. Should any additional immigration or E-Verify obligation apply in the course of Buyer's business, it is Buyer's obligation to ensure compliance with that obligation and to immediately notify Seller if any requirement (beyond that set forth in 8 CFR 274a.2) may apply to Seller due to Seller's transaction with Buyer.
30. **ANTI-CORRUPTION LAWS.** Buyer agrees that in connection with their purchase hereunder, they shall comply with all applicable anti-corruption laws, including but not limited to the Foreign Corrupt Practices Act of 1977 (15 U.S.C. Sections 78dd-1, et seq.) and the UK Bribery Act 2010. Seller may terminate this agreement if it has a good faith belief that Buyer has violated, intends to violate, or has caused a violation of any applicable anti-corruption laws.

Terms and Conditions



ArcelorMittal USA LLC

31. U.S. GOVERNMENT TRADE SANCTIONS. BUYER AND SELLER ACKNOWLEDGE THAT NO DIRECT OR INDIRECT (THROUGH A THIRD COUNTRY) TRANSACTIONS, INCLUDING THE EXPORTATION OR IMPORTATION OF PRODUCTS, TECHNOLOGIES, OR SERVICES, OR FINANCIAL TRANSFERS WILL TAKE PLACE BETWEEN U.S. PERSONS AND ANY COUNTRY OR NATIONALS, WHEREVER THEY MAY BE, OF CUBA, IRAN, NORTH KOREA, SUDAN, OR SYRIA OR ANY OTHER COUNTRY OR NATIONAL, ENTITY, OR INDIVIDUAL SANCTIONED BY THE U.S. GOVERNMENT WITHOUT THE APPROPRIATE U.S. GOVERNMENT LICENSE, SUCH AS, BUT NOT LIMITED TO, A SPECIFIC LICENSE FROM THE OFFICE OF FOREIGN ASSETS CONTROL (OFAC), AND WRITTEN PERMISSION FROM BOTH BUYER AND SELLER. BUYER AND SELLER ALSO AGREE THAT IN ADDITION TO COMPLYING WITH OTHER APPLICABLE IMPORT AND EXPORT STATUTES AND REGULATIONS, THEY WILL COMPLY WITH THE U.S. EXPORT ADMINISTRATION REGULATION ANTIBOYCOTT PROVISIONS (15 C.F.R. PART 760), AND THE INTERNAL REVENUE CODE PROVISION (26 U.S.C. 999) PROHIBITING SUPPORT FOR CERTAIN TRADE BOYCOTTS THAT ARE NOT ENDORSED BY THE U.S. GOVERNMENT, INCLUDING THE ARAB LEAGUE BOYCOTT OF ISRAEL, INDIA AND PAKISTAN'S BOYCOTTS OF THE EACH OTHER'S PRODUCTS, AND OTHER SIMILAR NON-U.S. GOVERNMENT-ENDORSED TRADE EMBARGOES, TO THE EXTENT THE REGULATIONS APPLY TO TRANSACTIONS IN WHICH THEY ARE ENGAGED. FURTHER, BUYER AND SELLER AGREE THAT THEY WILL COMPLY WITH MANDATORY REPORTING REQUIREMENTS PROVIDED IN THAT STATUTE AND IN THOSE REGULATIONS. THE SELLER MAY TERMINATE THIS CONTRACT WITHOUT NOTICE AND WITHOUT ANY LIABILITY TO THE BUYER IF THE BUYER BREACHES THE ABOVE PROVISIONS. THE BUYER SHALL HOLD THE SELLER HARMLESS FROM ANY CLAIMS SUFFERED BY BUYER OR SELLER AS A RESULT ON ANY VIOLATION OF THE ABOVE PROVISIONS BY THE BUYER. THE BUYER WARRANTS THAT IT WILL NOT DIVERT THE GOODS TO DESTINATIONS OTHER THAN THE DESTINATION INDICATED IN THE PURCHASE ORDER AND SHALL INCLUDE THESE TRADE SANCTION PROVISIONS IN ANY SUBSEQUENT CONTRACTS UNDER WHICH THE GOODS ARE RESOLD.
32. EXPORT CONTROL COMPLIANCE. CERTAIN PRODUCTS PRODUCED BY SELLER, AS WELL AS TECHNOLOGY OR SOFTWARE ASSOCIATED WITH THESE PRODUCTS, MAY BE SUBJECT TO EXPORT CONTROLS UNDER THE U.S. EXPORT ADMINISTRATION REGULATIONS (15 CFR §§ 730-774) OR THE INTERNATIONAL TRAFFIC AND ARMS REGULATIONS (22 CFR § 120 ET. SEQ.) BASED ON THEIR SPECIFIC DESIGN, CHARACTERISTICS OR END USE. BY ACCEPTING THESE PRODUCTS, BUYER AGREES THAT IT WILL NOT DIRECTLY OR INDIRECTLY, EXPORT, REEXPORT, TRANSSHIP, TRANSFER, TRANSMIT OR RELEASE PRODUCTS, TECHNOLOGY OR SOFTWARE WITHOUT OBTAINING THE NECESSARY EXPORT LICENSES, RE-EXPORT AUTHORIZATIONS OR OTHER GOVERNMENTAL APPROVALS REQUIRED BY LAW.
33. ASSIGNMENT OR DELEGATION. BUYER SHALL NOT ASSIGN OR DELEGATE ANY OR ALL OF ITS DUTIES OR RIGHTS HEREUNDER WITHOUT THE PRIOR WRITTEN CONSENT OF SELLER.
34. MISCELLANEOUS. Seller and Buyer are independent parties and nothing in the terms and conditions herein, accepted purchase order or order acknowledgment shall make either party agent, partner, joint venturer, or legal representative of the other.
35. INCORPORATION BY REFERENCE. Any clause required to be included in an agreement of this type by any applicable and valid federal, state, or local law or administrative rule having the effect of law shall be deemed incorporated herein.
36. INTEGRATION, MODIFICATION. This is the entire agreement between the parties and is intended to be the complete and final statement of the agreement between Buyer and Seller. All proposals, negotiations, and representations, if any, made prior to the date hereof, whether oral or in writing, are merged and superseded by this Agreement. This Agreement can be modified only by a writing signed by the Seller and Buyer.

General Claims Policy



ArcelorMittal

ArcelorMittal USA LLC

INTRODUCTION

This general claims policy covers plate products produced at all ArcelorMittal USA plate facilities. It covers the major points of a claim policy, but it does not intend to cover all circumstances that may arise. ArcelorMittal USA reserves the right to handle each claim individually, Based on the circumstances surrounding the claim in question.

Requirements for dimensions, flatness, surface, mechanical properties, internal soundness, and chemistry will be according to customer specifications accepted by ArcelorMittal USA in advance in writing, and/or consistent with applicable societal specifications.

ARCELORMITTAL USA RESPONSIBILITIES

ArcelorMittal USA is dedicated to supplying customers with plate steel products in accordance with agreed to standards and specifications. ArcelorMittal USA's early involvement in the development of customer requirements within the ArcelorMittal USA organization is paramount to achieving customer satisfaction.

If material furnished by ArcelorMittal USA does not meet order requirements, a claim should be submitted to the appropriate ArcelorMittal USA plate representative. All claims will be evaluated on the basis of technical merit in line with published policies, applicable specifications, contracts, purchase orders, and final order acknowledgements.

After claim is reviewed and decision is determined by ArcelorMittal USA, a document outlining ArcelorMittal USA's position on the claim will be communicated to the appropriate person at the customer.

CUSTOMER RESPONSIBILITIES

In order to efficiently evaluate and process a claim, ArcelorMittal USA retains the right to visit to investigate and/or require a representative sample of the condition, digital photos with a size reference next to the condition, or a video. All claims must be entered with the appropriate information (claim reason, claim documentation, serial number and/or heat identification, manifest number, inspection report, cost of material, quantity of defective material, condition of material, etc.)

Unauthorized or unidentified deductions before a claim is dispositioned or settled constitute nonpayment with subsequent consequences, including, but not limited to, credit hold, shipping hold, and loss of discount privileges.

PLATE QUALITY—GENERAL

All plate products are guaranteed to meet the applicable general requirements, e.g. ASTM A6/A20, or as specified on the purchase order, with regards to marking, surface, shape and dimensions. Chemical, physical, mechanical and internal properties are guaranteed to meet the requirements as stated in the ordered specification or as delineated on the purchase order. Claims by buyer with respect to shortage of goods or for damaged goods must be made in writing no later than 60 days

of receipt of goods and no later than 120 days of receipt of goods for all other circumstances including non-visual defects, and all nonconformance to ordered specifications. Claims for "corrosion pitting" will at no time be accepted.

CONSEQUENTIAL COSTS

For claims with merit, ArcelorMittal USA will assume responsibility for the value of the weight of the material involved, address other costs as outlined below, and will not be liable for further consequential damages or other costs.

ArcelorMittal USA will not honor sorting, sampling, storage, freight, additional processing, consequential costs, administrative or replacement cost unless pre-approved and allowed by ArcelorMittal USA prior to incurring the expense.

SCRAP CREDIT

ArcelorMittal USA requires any debt for material dispositioned to be scrapped to be reduced by the amount of the scrap credit as described below.

Scrap credit will be determined on a monthly basis using the average of the #1 Bundles and #1 Heavy Melt as published in the American Metal Market (AMM) in the geographic region closest to the customer. No material is to be scrapped without prior approval from ArcelorMittal USA.

TRANSPORTATION ISSUES

For all shipments, consignee is responsible for inspection and documentation of material condition during receipt and unloading. On material sold as FOB mill, it is the purchaser's responsibility to record damage upon receipt and to file a claim with the carrier for any claim caused during the transit period from ArcelorMittal USA to the customer. Refer to ArcelorMittal USA Standard Terms and Conditions. Consignee is responsible for storing and protecting material from further deterioration while claim is being resolved. ArcelorMittal USA does not accept orders on the basis of FOB delivered to the customer.

SECONDARY PRODUCTS

Secondary product is sold on an "As Is" basis only, with no warranty whatsoever expressed or implied. Furthermore, the stated specific reason a certain product or material is classified as secondary may not always include all of the existing imperfections in the product.

Preface



ArcelorMittal USA LLC

Pricing Mechanics

- The base prices are in US dollars per 100 pounds (\$/cwt.) unless otherwise indicated.
- Each extra is separate and distinct, and does not include or absorb any other extra unless otherwise stated.
- All prices are FOB the producing mill.
- Plates will be invoiced on the basis of theoretical weight of the ordered size using a density of **.2836** pounds per cubic inch, rounded to the nearest full pound per piece.

General Conditions of Sale

- All prices are subject to change without notice.
 - All prices are in effect at time of acknowledgement.
 - The publication of our extras is not necessarily an indication of our ability to supply all of the items shown.
 - All prices may be subject to additional surcharges.
 - Unless otherwise specified, the greater of the surface dimensions ordered is considered the length, and orders will be executed accordingly.
 - Unless otherwise indicated herein, percentage extras will extend only through the second decimal that will be increased **0.01** when the third decimal is **0.005** or more.
 - Products are manufactured in accordance with ArcelorMittal plate standard practice and sold in accordance with ArcelorMittal USA Inc. Terms and Conditions of Sale.
-
- INGOT/THICK PLATE PRACTICE EXTRA MAY APPLY FOR GAUGES UP TO 4" INCL.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



ArcelorMittal

| Base Price | \$/cwt |
|------------------------------------|--------|
| Carbon and High Strength Low Alloy | 78.25 |

| Thickness and Width (inches) | \$/cwt | | | | | | | | | |
|--|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|--------------------|---------------------|---------|
| Width - Inches | Thickness - Inches | | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 8 incl. | Over 8 to 15 incl. | Over 15 to 18 incl. | Over 18 |
| Under 60 excl. | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 7.00* | 6.00* | 5.00* | 4.00 | 6.00 | 10.50 | 17.00 | 30.00 | 35.00 | 51.00* |
| 72 to 96 incl. | 3.00* | 2.00* | 1.00* | - | 2.00 | 6.00 | 10.00 | 23.00 | 26.00 | 42.00* |
| Over 96 to 120 incl. | 20.00* | 6.00* | 3.00* | - | 2.00 | 6.00 | 10.00 | 23.00 | 26.00 | 42.00* |
| Over 120 to 132 incl. | 25.00* | 15.00* | 8.00* | 2.00 | 4.00 | 8.00 | 12.00 | 25.00 | - | - |
| Over 132 to 150 incl. | | 20.00* | 15.00* | 4.50 | 6.50 | 10.50 | 14.50 | 27.50 | - | - |
| Over 150 to 190 incl. | - | - | - | 15.00* | 18.00* | 21.00* | 27.00* | 37.00* | - | - |
| Inquire for acceptance; Thicknesses over 18" requires vacuum improved plate and normalize (add appropriate extras) | | | | | | | | | | |

| Ingot / Thick Plate Practice | \$/cwt |
|------------------------------|--------|
| Ingot extra | 12.50 |

The ingot extra applies to the following:

- ALL plates over 6" in thickness
- Pressure Vessel Quality grades over 4"
- Single pattern weights over 34,000# (PVQ to 4" thick and other grades 6" thick)
- Special grades requiring ingot/thick plate practice and not already included

| Length | \$/cwt |
|---------------------------|------------------------|
| Under 96" excl. | Inquire |
| 96" to 120" excl. | 3.50 |
| 120" to 240" excl. | 1.50 |
| 240" to 480" incl. | See Matrix Price Above |
| Over 480" to 720" incl. | 0.25 |
| Over 720" to 1020 incl. | 1.00 |
| Over 1020" to 1200" incl. | 2.00 |
| Over 1200" | 2.50 |

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



| Quantity | \$/cwt |
|------------------------------------|--------|
| 20,000 lbs. | None |
| Under 20,000 lbs. thru 10,000 lbs. | 0.30 |
| Under 10,000 lbs. thru 6,000 lbs. | 0.60 |
| Under 6,000 lbs. thru 4,000 lbs. | 1.50 |
| Under 4,000 lbs. thru 2,260 lbs. | 5.00 |
| Under 2,260 lbs. | 7.00 |

These extras shall be determined by the theoretical weight of each item. An item is defined as each size ordered on one order (one thickness and one width is considered one size) of one grade or analysis, released for shipment to one destination at one time. The weight of a square required to furnish circular patterns shall be used to establish the price component.

| Individual Plate Weight (Rectangular or Square) | \$/cwt |
|---|--------|
| 50,000 lbs to 60,000 lbs. incl. | 1.50 |
| Over 60,000 lbs. thru 80,000 lbs. | 3.00 |
| Over 80,000 lbs. thru 100,000 lbs. | 5.00 |
| Over 100,000 lbs. | 7.50 |

Specification

Appropriate Chemistry or Specification Extras To Apply

Chemistry

Apply to Heat Analysis Limits

CARBON AND MANGANESE: The maximum of the specified range shall determine the extra. Standard chemical ranges for carbon steel plates are shown on the next page. Ranges closer than standard are known as restrictive ranges. Restrictive ranges, as negotiated between buyer and seller, are available for an extra charge and are displayed in on the restricted chemistry page of this book.

| | Carbon | Manganese | Plate Thickness | \$/cwt |
|-----|-----------------|---------------|-----------------|---------|
| I. | To .33% | .30% to 1.65% | All Thicknesses | 0.30 |
| II. | .34% and higher | .30% to 1.65% | All Thicknesses | 2.00 ** |

** Mill edge - edge treat not required

** Cut edge

Max Carbon over .40%

Add \$2.50 Edge Treatment for gauges over 1" to 6" incl. unless ordered heat treated.

Over 6" Stress Relieving to apply.

** Max Carbon over .50%

Stress Relieving to apply to all gauges.

** Max carbon over .40% gauge over 16" subject to inquiry.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Chemistry

Ranges and Limits

Plates can be produced to the following standard chemical composition ranges or limits based on heat analysis. The elements comprising the desired chemical composition can be specified in one of three ways:

1. By a maximum limit;
2. By a minimum limit;
3. By minimum and maximum limits termed the range. By common usage, the range is the arithmetical difference between the two limits (e.g., 0.14 to 0.20 is a 0.06 range).

Variations in raw materials, steelmaking processes and manufacturing operations result in variations in chemical composition. The standard ranges and limits shown below reflect those variations in normal steelmaking practices. For some of the elements, narrower ranges or lower maxima can be obtained by selection of raw materials, additional steelmaking practices, selection of steel or a combination of those factors at the extras shown in this book.

Heat Chemical Ranges and Limits

| Standard Chemical Ranges and Limits, Percent | | |
|--|--|-------|
| Element | When Maximum of Specified Element is * | Range |
| CARBON (Note 1) | To 0.15 incl. | 0.05 |
| | Over 0.15 to 0.30 incl. | 0.06 |
| | Over 0.30 to 0.40 incl. | 0.07 |
| | Over 0.40 to 0.60 incl. | 0.08 |
| | Over 0.60 to 0.80 incl. | 0.11 |
| | Over 0.80 | 0.14 |
| MANGANESE | To 0.50 incl. | 0.20 |
| | Over 0.50 to 1.15 incl. | 0.30 |
| | Over 1.15 to 1.65 incl. | 0.35 |
| PHOSPHORUS ** | To 0.08 incl. | 0.03 |
| | Over 0.08 to 0.15 incl. | 0.05 |
| SULPHUR ** | To 0.08 incl. | 0.03 |
| | Over 0.08 to 0.15 incl. | 0.05 |
| | Over 0.15 to 0.23 incl. | 0.07 |
| | Over 0.23 to 0.33 incl. | 0.10 |
| SILICON | To 0.15 incl. | 0.08 |
| | Over 0.15 to 0.30 incl. | 0.15 |
| | Over 0.30 to 0.40 incl. | 0.25 |
| | Over 0.40 to 0.60 incl. | 0.30 |
| COPPER | When Copper is required, 0.20 minimum is commonly specified. | |

* Lower maxima can be produced at extra (See Restricted Chemistry).

** Lower Phosphorus and Sulphur maxima are furnished for some qualities.

NOTE 1 – CARBON: When the maximum Manganese limit exceeds 1.00%, add 0.01 to the Carbon range shown in Column 3.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Restricted Chemistry

Standard Phosphorus and Sulfur limits applicable to the ordered quality.

| Standard Limits, % Max. | | |
|--|------------|--------|
| Qualities | Phosphorus | Sulfur |
| Structural/Chemistry (heat analysis) | 0.040 | 0.050 |
| Forging (heat analysis) | 0.035 | 0.040 |
| Pressure Vessel (product analysis) | 0.035 | 0.035 |
| Electric Furnace Practice (product analysis) | 0.025 | 0.025 |
| Fineline (heat analysis) | 0.025 | 0.010 |
| Fineline Double-O-Five (heat analysis) | 0.025 | 0.005 |
| Fineline Double-O-Two (heat analysis) | 0.015 | 0.002 |
| Fineline Double-O-One (heat analysis) | 0.010 | 0.001 |

Apply to Heat Analysis Limits

| Chemistry | \$/cwt |
|--|---------|
| Restricted Carbon for each .01% reduction from standard | 0.05 |
| Restricted Manganese for each .01% reduction from standard | 0.05 |
| Restricted Silicon for each .01% reduction from standard | 0.05 |
| Restricted Phosphorus when specified .025% maximum to .018% | 0.60 |
| when specified .017% maximum and under | Inquire |
| Restricted Sulfur when specified .025% maximum | 0.45 |
| when specified .020% maximum | 0.60 |
| when specified .015% maximum | 0.75 |
| when specified .010% maximum | 1.80 |
| when specified .010% maximum Fineline | 3.25 |
| when specified .006% maximum Integra | 2.80 |
| when specified .005% maximum Fineline Double-O-Five | 4.25 |
| when specified .002% maximum Fineline Double-O-Two | 5.25 * |
| when specified .001% maximum Fineline Double-O-One | 7.25 * |
| Minimum specified Copper when order specifies .20% or under | 0.50 |
| when order specifies .21% to .30% incl. | 0.75 |

* available for ASTM A516 grades 60,65,and 70 only.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Boron

Any Specified Minimum Up to .0005%

| Manganese – Maximum of Specified Range – Percent | Carbon – Maximum of Specified Range – .12 to .33 Percent Incl. (\$/cwt) |
|--|---|
| .40 to .60 incl. | 3.90 |
| .61 to .90 incl. | 4.10 |
| .91 to 1.20 incl. | 4.20 |
| 1.21 to 1.35 incl. | 4.35 |
| 1.36 to 1.65 incl. | 4.60 |
| Price includes Fine Grain Forging Quality and Special Manufacturing Extras | |

| Incidental Elements | \$/cwt |
|--|--------|
| Chromium .15 to .24 | 0.50 |
| Maximum limits for other incidental elements are subject to negotiation. | |
| Carbon Equivalent | 0.50 |
| Micro Alloy Additions (Copper-Nickel-Chrome-Moly) | 1.00 |

Max limits of one or more of the specified elements between the following ranges: Copper .15 to .34, Nickel .15 to .24, Molybdenum .05 to .07

| Quality | \$/cwt |
|--|---------|
| Pressure Vessel Quality | 1.40 |
| Quench and temper steels and other specifications requiring additional tension test per ASTM A20 supplemental paragraph S4.1 | Add .10 |
| Forging Quality | 1.00 |

| Melting Practice | \$/cwt |
|--|--------|
| Electric Furnace | 1.25 |
| Vacuum Improved Plate (VIP) | 1.15 |
| Sulfur .010 Maximum | 1.80 |
| Fineline (.010 MAX SULFUR) inclusion shape control and VIP incl. ** | 3.25 |
| Integra Quality (.006 max Sulfur and inclusion shape control) ** | 2.80 |
| Fineline Double-O-Five (.005max Sulfur) inclusion shape control and VIP incl.** | 4.25 |
| Integra Quality (.005 max Sulfur and inclusion shape control)** | 3.80 |
| Fineline Double-O-Two (.002 max Sulfur) inclusion shape control and VIP incl.*, * | 5.25 |
| Fineline Double-O-One (.001 max Sulfur) inclusion shape control and VIP incl.*, ** | 7.25 |

* Available for ASTM A516 grades 60, 65 and 70 only.

** Thru Thickness Tension Testing in accordance with ASTM A770 is available (see Testing extras).

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Hydrogen Induced Cracking (HIC) Testing

For ASTM A516 grade 60, 65 and 70 - 3/8" thru 6" gauge up to 55,000 lbs. Pattern weight. Normalized (minimum heat treatment) with mandatory UT per ASTM A578 level C - S1. HIC requires restricted Sulfur.

Refer for pricing.

Restricted Mechanical Requirements

| | |
|--|------------------|
| TENSILE AND YIELD RANGES specified more restrictive than ASTM or equivalent specifications (Inquiry) | \$ 0.75 (\$/cwt) |
|--|------------------|

Special Requirements

| | |
|------------------------------------|-----------------|
| 1. Quality Assurance Certification | \$ 2.50(\$/cwt) |
|------------------------------------|-----------------|

Quality assurance certification will be applicable for ASME, boiler and pressure vessel code, quality system (materials) or similar requirements. Quality assurance includes quality control, examination and quality control administration. It is all those planned and systematic actions necessary to assure that the steels are produced in accordance with the rules of the boiler and pressure vessel code or other approved quality assurance systems.

This price applies to specifications such as, but not limited to, the following.

ASME Section III (Nuclear), Navy Nuclear, NRC 10CFR21 or MIL-I-45208.

Other approved corporate or commercial Quality Assurance Systems (QAS).

| | |
|--|----------|
| 2. Special Manufacturing | (\$/cwt) |
| Heat treatment temperatures and controls specified or required beyond the normal requirements for the grade | 0.75 |
| Special adjustments or additions to the basic specified chemical composition required to meet mechanical properties | 0.75 |
| Specifications or requirements involving special surface requirements, special manufacturing practices or combinations thereof | 0.75 |

| | |
|--|--------------------|
| 3. Circular Plates | (\$/cwt) |
| Circular plates over 60" diameter | Add 30% |
| Circular plates 60" diameter and under | Subject to Inquiry |

This percentage applies to the total price of the smallest square from which each circular plate is obtained.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Surface Finish

No Weld Repair Allowed

When conditioning of plate surfaces in conformity with provisions of ASTM A6 or A20 is not permitted **(Inquiry).....\$ 3.00 (\$/cwt)**

Descaling.....Minimum charge \$ **50.00** per plate

| Thickness (inches) | Descale both sides (\$/cwt) | Thickness (inches) | Descale both sides (\$/cwt) |
|---------------------|-----------------------------|--------------------|-----------------------------|
| Under 1/4" | 5.50 | 1 to 1-1/2" excl. | 1.75 |
| 1/4" to 5/16" excl. | 4.50 | 1-1/2" to 2" excl. | 1.35 |
| 5/16" to 3/8" excl. | 3.50 | 2" to 3" excl. | 1.25 |
| 3/8" to 1/2" excl. | 3.00 | 3" to 4" excl. | 1.25 |
| 1/2" to 3/4" excl. | 2.50 | 4" to 6" incl. | 1.25 |
| 3/4" to 1" excl. | 2.00 | | |

Thickness over 6", widths other than 48" to 182", lengths other than 72" to 540' and pattern weights over

40,000 lbs.....**Subject to Inquiry**
Painting Extras.....**Subject to Inquiry**

Heat Treatment

| Width (inches) | Thickness (inches) | | | |
|-------------------------------|----------------------------|-------------------------|----------------------------|-----------------|
| | 3/16 to under 3/8 (\$/cwt) | 3/8 to 3 incl. (\$/cwt) | Over 3 to 4 incl. (\$/cwt) | Over 4 (\$/cwt) |
| Normalized or Stress Relieved | 9.50 | 6.50 | 6.50 | 12.00 |
| Normalized and Tempered | 18.00 | 15.00 | 15.00 | 17.50 |
| Annealed | 18.00 | 15.00 | 15.00 | 17.50 |
| Quenched and Tempered | 18.00 | 15.00 | 15.00 | 17.50 |
| Double Normalized | 18.00 | 15.00 | 15.00 | 17.50 |
| Double Quenched and Tempered | 20.50 | 17.50 | 17.50 | 20.00 |

Controlled Process, Accelerated Cooling, or Tartan Heating.....**\$ 3.50 (\$/cwt)**

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Test Specimens Heat Treatment

No extra applicable if parent material is similarly heat treated by producer. Following extras apply on weight of plates represented by test pieces:

1. Cycle (s) established as standard for the ordered quality up to one hour per inch of thickness within ASTM or ASME heating/cooling rates.

| | |
|--|------------------|
| Normalized or Stress Relieved or Tempered..... | \$ 0.05 (\$/cwt) |
| Normalized and Stress Relieved, Normalized and Temper..... | \$ 0.10 (\$/cwt) |
| Quenched and Tempered..... | \$ 0.35 (\$/cwt) |

2. Post weld heat treat and other cycles exceeding the standard - subject to prior approval.

| Price component each cycle per pattern weight (\$/cwt) | | | | | | |
|--|----------------------|---------------|---------------|---------------|---------------|---------|
| Hold time in hours * | To 10 | Over 10 To 20 | Over 20 To 40 | Over 40 To 60 | Over 60 To 80 | Over 80 |
| To 15 incl. | \$1.90 | \$0.95 | \$0.55 | \$0.35 | \$0.30 | \$0.25 |
| Over 15 to 25 incl. | \$2.45 | \$1.25 | \$0.65 | \$0.45 | \$0.35 | \$0.30 |
| Over 25 to 35 incl. | \$3.00 | \$1.45 | \$0.75 | \$0.50 | \$0.40 | \$0.35 |
| Over 35 to 45 incl. | \$3.35 | \$1.75 | \$0.90 | \$0.60 | \$0.50 | \$0.45 |
| Over 45 to 55 incl. | \$3.75 | \$1.90 | \$0.95 | \$0.65 | \$0.55 | \$0.50 |
| Over 55 to 65 incl. | \$4.45 | \$2.25 | \$1.10 | \$0.75 | \$0.60 | \$0.55 |
| Over 65 | (Subject to Inquiry) | | | | | |

* Heating and cooling rates slower than 75°F /hour must be inquired for acceptance.

3. Program controlled cooling.

| | |
|---|------------------|
| Per ASME SA20, Section III or Section VIII, Division 2..... | \$ 0.75 (\$/cwt) |
|---|------------------|

Non – Destructive Testing

| | |
|--------------------------------|--------------------|
| Magnetic Particle Testing..... | Subject to Inquiry |
|--------------------------------|--------------------|

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Non – Destructive Testing

Plates ordered to chemical compositions or to any quality other than Fineline, Integra or Pressure Vessel quality a minimum of special manufacturing practice of **\$1.00** must be added requirements other than those listed below are subject to prior approval and may require additional pricing including Electric Furnace Practice and or Vacuum Improved Plate.

Ultrasonic Testing

| Thickness (Inches) | | | | |
|--|-----------------------------------|------------------------------|----------------------------|----------------------------|
| Search Pattern-100% | 3/8" to 1/2" excl. (\$/cwt) | 1/2" to 1" excl. (\$/cwt) | 1" to 3" excl. (\$/cwt) | 3" to 6" incl. (\$/cwt) |
| ASTM A435-90 S1 (Min 1/2") ‡ | 5.00 | 3.50 | 2.50 | 1.75 |
| ASTM A577-90 (Min 3/8") ‡ | 10.00 | 6.75 | 5.00 | 3.00 |
| ASTM A578-96 S1 @ (Min 3/8") | | | | |
| Level A or B | 6.25 | 4.25 | 3.00 | 2.00 |
| Level C * | 6.25 | 4.25 | 3.00 | 2.00 |
| Supplemental Para S2.1 | 8.00 | 5.25 | 4.00 | 3.00 |
| ASME Section 3 Class 1 (Min 3/8") * | | | | |
| Para NB2532.1 @ | 6.25 | 4.25 | 3.00 | 2.00 |
| Para NB2532.2 | 10.00 | 6.75 | 5.00 | 3.00 |
| Para NB2532.1&2 | 13.25 | 8.75 | 6.25 | 4.00 |

@ Includes ultrasonic recording of non-rejectable indications.

‡ If recording of non rejectable indications are required on other U.T. specs refer (+) See below for price component.

Thicknesses under 3/8" and over 6" and/or over 55,000 lbs pattern weight subject to inquiry.

* Requires Fineline and/or Integra at an additional cost.

(+) Ultrasonic Recording of Non-Rejectable Indications

Subject to negotiation of acceptable recording criteria. The recording component must be added to the applicable ultrasonic testing extra except as noted with an @ .

| Thickness (Inches) | | | | |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-------------------------|
| Search Pattern | 3/8" to 1/2" excl. (\$/cwt) | 1/2" to 1" excl. (\$/cwt) | 1" to 3" excl. (\$/cwt) | 3" and over (\$/cwt) |
| Longitudinal Beam 100% | 1.25 | 0.75 | 0.75 | 0.50 |
| Longitudinal and Angle Beam | 3.25 | 2.25 | 1.75 | 1.00 |

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Testing

* Charpy Impact Tests – Information

(HEAT LOT ONLY AND NOT A BASIS FOR ACCEPTANCE OR REJECTION)

Charpy Impact Tests conducted at a specified temperature for information only with no minimum energy value specified or implied.....

\$ 0.25 (\$/cwt)

* Charpy Impact Tests – (H) Heat Qualification

Charpy Impact Tests in accordance with frequency "H" of ASTM A673 (or equivalent) on Structural Quality Steel to qualify a heat with temperatures and values to be agreed upon.

| | |
|--|------------------|
| 2 sets of 3 Longitudinal Tests to obtain average..... | \$ 0.75 (\$/cwt) |
| 2 sets of 3 Transverse Tests to obtain average..... | \$ 0.50 (\$/cwt) |
| 2 sets of 3 Longitudinal and Transverse Tests to obtain average..... | \$1.00 (\$/cwt) |
| For each additional set of tests..... | \$ 0.25 (\$/cwt) |

* Charpy Impact Tests – (P) Plate Qualification

(ONE SET OF THREE TESTS FROM EACH PLATE AS ROLLED TO OBTAIN AVERAGE)

| Specified Test Temperature | Longitudinal (\$/cwt) | Transverse ‡ (\$/cwt) | Both ‡ (\$/cwt) |
|--|--------------------------|--------------------------|--------------------|
| At room temperature or +40° F and higher | 1.25 | 1.00 | 1.50 |
| At less than +40° F | 1.50 | 1.25 | 1.75 |

* Charpy Impact Tests – (PP) Plate Qualification

(ONE SET OF THREE TESTS FROM EACH END OF EACH PLATE AS ROLLED TO OBTAIN AVERAGE)

| Specified Test Temperature | Longitudinal (\$/cwt) | Transverse ‡ (\$/cwt) | Both ‡ (\$/cwt) |
|--|--------------------------|--------------------------|--------------------|
| At room temperature or +40° F and higher | 2.50 | 2.00 | 3.00 |
| At less than +40° F | 3.00 | 2.50 | 3.50 |

* When a test specimen or parent material is to be heat treated by the producer, the appropriate Heat Treating Extra is to apply.

‡ May require Fineline / Low Sulphur at the appropriate extra.

| | |
|---|--------------------|
| Charpy V-Notch Transition Temperature Curve..... | Subject to Inquiry |
| Lateral Expansion and/or % Shear Fracture (for information only)..... | \$ 0.20 (\$/cwt) |
| Thru Thickness Testing in Accordance with ASTM A770 (Min. 1") ** | |

(APPLICABLE TO FINELINE/INTEGRA QUALITY ONLY) At the appropriate extra.

Two tension tests per plate as rolled

Fineline/Integra

Reduction of Area to 25% minimum..... \$ 1.00 (\$/cwt)

Fineline Double-0-Five

Reduction of Area to 35% minimum..... \$ 1.00 (\$/cwt)

Reduction of Area to 36% to 40% minimum..... \$ 2.00 (\$/cwt)

Each additional tension test per plate as rolled \$ 0.50 (\$/cwt)

** Heat Treatment extras may apply

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Testing

Drop Weight Test in Accordance with ASTM E-208 (DWT)

This testing requires Killed Fine Grain Pressure Vessel or higher quality and is applicable to plates 5/8 in. and over in thickness which have been normalized or quenched and tempered.

| No break performance at a specified temperature (Two test from each plate as rolled) | (\$/cwt) |
|---|----------|
| At +40 F and higher | 1.00 |
| At less than +40 | 1.25 |

| Nil Ductility Transition Temperature (Lowest temperature at which duplicate non-break performance is obtained on each plate as rolled) | (\$/cwt) |
|---|----------|
| At +40 F and higher | 1.50 |
| At less than +40 | 1.75 |

Mechanical Tests

Extras for standard testing are included in the specification charges. If additional testing is required, the following extras would apply.

| | |
|---|-----------------|
| Tensile Tests – Plate testing for structural Grades | \$ 0.50(\$/cwt) |
|---|-----------------|

Bend Tests

| | (\$/cwt) |
|--|----------|
| When Bend Tests are specified for: Structural Quality – 2 tests per heat | 0.40 |
| Structural or Pressure Vessel Quality —1 test per plate as rolled | 0.75 |
| Structural or Pressure Vessel Quality —1 test per plate as heat treated | 0.75 |

Extra Testing of Plates, As Rolled

| | |
|---|-----------------|
| When the specified number of Tension Tests or Bend Tests exceeds ASTM requirements each additional test | \$ 0.20(\$/cwt) |
|---|-----------------|

Tests of Each Plate (ordered)

| | |
|---|-----------------|
| For tests of each plate ordered as distinguished from each plate rolled | \$ 0.50(\$/cwt) |
|---|-----------------|

Hardness Test of Plates (Brinell)

| Hardness tests of plates to minimum or maximum requirements only. | (\$/cwt) |
|--|----------|
| When hardness tests are specified two tests per thickness per heat | 0.30 |
| When hardness tests are specified for each plate as rolled | 0.50 |

Non Standard Location Tests

| | |
|---|-----------------|
| When tests are specified at locations other than required by ASTM specified | \$ 0.50(\$/cwt) |
|---|-----------------|

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Testing

| | (\$/cwt) |
|---|----------|
| McQuaid EHN Test (For grain size determination) | 0.15 |
| Product/Check Analysis (per Heat) | 0.10 |
| Product/Check Analysis (per Plate) | 0.25 |
| Jominy Test (3 per heat) | 0.50 |

Special Tolerance (Subject to inquiry)

| | (\$/cwt) |
|---|----------|
| Not closer than 1/2 Standard Commercial Tolerances (More Restrictive Tolerances) | Inquire |
| Thickness or Weight | 1.50 |
| Length and/or Width | 1.00 |
| Camber | 1.00 |
| Flatness up to 3" | 1.00 |
| over 3" to 6" | 1.50 |
| over 6" to 12" | 2.00 |
| over 12" | Inquire |

Loading

Standard practice for mill loading is in lifts of five net tons and over. When lifts of less than five net tons are specified or required, the following extras apply:

| Specified Lift Weight | (\$/cwt) |
|-----------------------------------|----------|
| 10,000 lbs. or over | None |
| Under 10,000 lbs. thru 6,000 lbs. | 0.50 |
| Under 6,000 lbs | 1.00 |

Secured Lifts (Subject to Inquiry)

When the Purchaser specifies lifts secured with bands the following extra applies in addition to the loading extra above.....**\$ 0.25 (\$/cwt)**

Outside Inspection

Witnessing of surface inspection, test cutting, and/or non-destructive examination..... **\$ 1.00 (\$/cwt)**
 Witnessing of mechanical testing only..... **\$ 0.25 (\$/cwt)**

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Special Marking (No marking will be done on more than one surface)

A character is a graphic symbol of any sort, such as a letter, figure, horizontal line, dash, diagonal line, punctuation mark, or other symbol or mark.

For any individual piece marking specified or required, other than marking in accordance with the provisions of **ASTM A6** or **ASTM A20**:

| | |
|--|------------------|
| 10 characters or less..... | None |
| Over 10 to 50 characters..... | \$ 0.25 (\$/cwt) |
| Continuous line marking, AMS Specifications or Federal Standard 183..... | Inquire |

Requires descaling at the appropriate extra.

| | |
|---------------|------------------|
| 12" Rows..... | \$1.00 (\$/cwt)* |
| 6" Rows..... | \$1.00 (\$/cwt)* |

* Minimum charge **\$50.00** per plate for **12"** rows and minimum charge **\$100.00** per plate on **6"** rows.

Special Stamping

Special stamping specified for pressure vessel or higher classifications in excess of requirements of **ASTM** or **ASME** pressure vessel specification:

| | |
|-------------------------|-----------------|
| 25 characters..... | \$ 0.50(\$/cwt) |
| Over 25 characters..... | Inquire |

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Carbon & HSLA Grades

The following prices don't include base price, width and thickness, mechanical properties, quality or test requirements.

| Specification | Grade (s) | Quality | Max Thickness (Inches) | Plate Condition | Grade Extra (\$/cwt) |
|---|----------------------------|-------------------------|------------------------|---------------------|----------------------|
| ASTM A36 / ASME SA36 | - | Structural Quality | 18" | - | Base |
| ASTM A242 Type 1 | MAYARI R | - | 4" | - | 5.75 |
| ASTM A283 / ASME SA283 | Grades A,B,C and D | Structural Quality | 18" | - | Base |
| ASTM A285 / ASME SA285 | Grades A,B,C and D | Pressure Vessel Quality | 2" | - | 3.00 |
| ASTM A441 (See A572 Grade 50 Cu .20 Min.) | - | - | - | - | - |
| ASTM A455 / ASME SA455 | - | Pressure Vessel Quality | 3/4" | - | 1.50 |
| ASTM A515 / ASME SA515 | Grades 60,65 and 70 | Pressure Vessel Quality | 15" | - | 3.00# |
| ASTM A516 / ASME SA516 | Grades 55,60,65 and 70 | Pressure Vessel Quality | 15" | - | 3.00# |
| ASTM A537 / ASME SA537 | Class 1 | Pressure Vessel Quality | 4" | Normalized | 5.00 |
| ASTM A537 / ASME SA537 | Class 2 & 3 | Pressure Vessel Quality | 5" | Quenched & Tempered | 5.25 |
| ASTM A572 | Grades 42 or V42 | - | 6" | Tartan Heated | 2.50 |
| ASTM A572 | Grades 50 or V50 | - | 4" | - | 2.50 |
| ASTM A572 - Replaces ASTM A441 | Grade 50 Cu .20 Min. | - | 4" | - | 3.00 |
| ASTM A572 | Grades 60,65 or V60,V65 | - | 1 1/4" | - | 5.00 |
| ASTM A573 | Grade 58 | Pressure Vessel Quality | 1 1/2" | - | 1.25 |
| ASTM A573 | Grades 65 or 70 | - | 1 1/2" | - | 1.50 |
| ASTM A588 | Grade A,B and C | - | 8" | - | 5.50 |
| ASTM A588 (Mod 60,000 Min. YP) | Grade A or B (MAYARI-R-60) | - | 3/4" | - | 6.00 |
| ASTM A612 / ASME SA612 | AARTC 128 Grade B | Pressure Vessel Quality | 1" | - | 5.50** |
| ASTM A633 | Grade A | - | 4" | Normalized | 4.25 |
| ASTM A633 | Grade C | - | 4" | Normalized | 4.50 |
| ASTM A633 | Grade D | - | 4" | Normalized | 3.75 |
| ASTM A633 | Grade E | - | 6" | Normalized | 6.00*** |
| ASTM A656 Type 7 | Grade 50 | - | 2" | Controlled Process | 4.25* |
| ASTM A656 Type 7 | Grade 60 | - | 1 1/2" | Controlled Process | 8.75* |
| ASTM A656 Type 7 | Grade 70 | - | 1 1/4" | Controlled Process | 9.75* |
| ASTM A656 Type 7 | Grade 80 | - | 3/4" | Controlled Process | 10.25* |
| ASTM A852 | - | - | - | - | See Page 16 |
| ASTM A871 | Grade 60 | - | - | - | See Page 16 |
| ASTM A871 | Grade 65 | - | - | - | See Page 17 |
| Abrasion Resistant | AR 235 | - | - | - | See Page 17 |

* Add \$3.50 for Controlled Process

** AAR TC 128 ordered to AAR CPC 1169 - Add additional \$3.05 to the above prices. This includes restricted Sulfur (Cal-Sil Injection) Carbon Equivalent and Lcv at -50F or Tcv at -30F

*** Over 3" to 6" will be Double Normalized

A515 requires normalizing over 2"

A516 requires normalizing over 1 1/2" or when impact testing required

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Carbon & HSLA Grades

The following prices don't include base price, width and thickness, mechanical properties, quality or test requirements.

| Specification | Grade (s) | Quality | Max Thickness (Inches) | Plate Condition | Grade Extra (\$ / cwt) |
|--|--|---------|---------------------------|--------------------|---------------------------|
| (1005 to 1029) | CHEM I, Thru .33 Max, MN .30 to 1.65 Max | - | 18" | - | Base |
| (1030 to 1037) | CHEM II, C.34 Max Thru .39 Max, MN .30 to 1.65 Max | - | 18" | - | 3.00* |
| (1038 to 1049) | CHEMISTRY II, C OVER .40 MAX, MN .30 TO 1.65 MAX | - | 15" | - | See Page 19 |
| 1060 Finline | - | - | 10" | - | See Page 19 |
| BethStar 50 SULPHUR (.010X) LCV 15 ft-lbs at -50 F Freq (H) | - | - | 2 1/2" | Controlled Process | 9.25** |
| BethStar 60 SULPHUR (.010X) LCV 15 ft-lbs at -50 F Freq (H) | - | - | 1 1/2" | Controlled Process | 12.25** |
| BethStar 70 SULPHUR (.010X) LCV 15 ft-lbs at -50 F Freq (H) | - | - | 1 1/4" | Controlled Process | 13.25** |
| BethStar 80 SULPHUR (.010X) LCV 15 ft-lbs at -50 F Freq (H) | - | - | 3/4" | Controlled Process | 14.50** |
| V – Star 50 | - | - | 3/4" | - | 3.50 |
| Clean Cut 20 (Free Machining) | - | - | - | - | See Page 18 |
| Clean Cut 45 (Free Machining) | - | - | - | - | See Page 18 |

* C1035 to C1037 add \$2.50 cwt for edge treat over 1-1/4" if ordered sheared edge.
 ** Add \$3.50 for Controlled Process

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

ASTM A852 LCV IMPACTS PER A673 FREQ (H) QUENCHED AND TEMPERED

GRADE EXTRA \$6.00 (\$/cwt)

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 112.00* | 110.00* | 109.00* | 104.00 | 107.00 | 111.50 |
| 72 to 96 incl. | 108.00* | 106.00* | 105.00* | 100.00 | 103.00 | 107.00 |
| Over 96 to 120 incl. | 123.00* | 109.00* | 106.00* | 100.00 | 103.00 | 107.00 |
| Over 120 to 132 incl. | 128.00* | 118.00* | 111.00* | 102.00 | 105.00 | 109.00 |
| Over 132 to 150 incl. | - | 123.00* | 118.00* | 104.50* | 107.50 | 111.50 |
| Over 150 to 174 incl. | - | - | - | 115.00* | 118.00 | 121.00 |

ASTM A871 GRADE 60 (TO 3/8" AS ROLLED)

(OVER 3/8" TO 1-1/4" CONTROLLED PROCESS)
(OVER 1-1/4" QUENCHED and TEMPERED)

(TO -1/2") LCV 15 ft - lb @ 0F FREQ (H)
(OVER -1/2") LCV 15 ft - lb @ -20F FREQ (H)

GRADE EXTRA \$6.50 (\$/cwt)

| Width - Inches | Thickness - Inches | | | | | | |
|-----------------------|--------------------|-------------------|-------------------|---------|-------------------------|-----------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 | Over 3/8 to 1 1/4 incl. | Over 1 1/4 to 2 incl. | Over 2 to 3 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 94.50* | 92.50* | 91.50* | 89.50 | 93.00 | 104.50 | 107.50 |
| 72 to 96 incl. | 90.50* | 88.50* | 87.50* | 85.50 | 89.00 | 100.50 | 103.50 |
| Over 96 to 120 incl. | 105.50* | 91.50* | 88.50* | 85.50 | 89.00 | 100.50 | 103.50 |
| Over 120 to 132 incl. | 110.50* | 100.50* | 93.50* | 87.50 | 91.00 | 102.50 | 105.50 |
| Over 132 to 150 incl. | - | 105.50* | 100.50* | 90.00 | 93.50 | 105.00 | 108.00 |

* Refer for acceptance.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Composite Price Tables

ASTM A871 GRADE 65
(TO 3/8" CONTROLLED PROCESS)
(OVER 3/4" QUENCHED and TEMPERED)

(TO -1/2") LCV 15 ft - lb @ 0F FREQ (H)
(OVER -1/2") LCV 15 ft - lb @ -20F FREQ (H)

GRADE EXTRA \$6.50 (\$/cwt)

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|------------------|---------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 3/4 incl. | Over 3/4 to 2 incl. | Over 2 to 3 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 98.00* | 96.00* | 95.00* | 93.00 | 104.50 | 107.50 |
| 72 to 96 incl. | 94.00* | 92.00* | 91.00* | 89.00 | 100.50 | 103.50 |
| Over 96 to 120 incl. | 109.00* | 95.00* | 92.00* | 89.00 | 100.50 | 103.50 |
| Over 120 to 132 incl. | 114.00* | 104.00* | 97.00* | 91.00 | 102.50 | 105.50 |
| Over 132 to 150 incl. | | 109.00* | 104.00* | 91.00 | 102.50 | 108.00 |

Abrasion Resistant — AR 235

OVER 1" INCLUDES EDGE TREAT EXTRA. DEDUCT \$2.50 cwt IF ORDERED MILL EDGE.

GRADE EXTRA \$5.00 (\$/cwt)

| Width - Inches | Thickness - Inches | | | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1 incl. | Over 1 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 92.25* | 90.25* | 89.25* | 87.25 | 89.75 | 92.75 | 97.25 | 105.75 |
| 72 to 96 incl. | 88.25* | 86.25* | 85.25* | 83.25 | 85.75 | 88.75 | 92.75 | 98.75 |
| Over 96 to 120 incl. | 103.25* | 89.25* | 86.25* | 83.25 | 85.75 | 88.75 | 92.75 | 98.75 |
| Over 120 to 132 incl. | 108.25* | 98.25* | 91.25* | 85.25 | 87.75 | 90.75 | 94.75 | 100.75 |
| Over 132 to 150 incl. | - | 103.25* | 98.25* | 87.75 | 90.25 | 93.25 | 97.25 | 103.25 |

* Refer for acceptance.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Composite Price Tables

FREE MACHINING (CLEAN CUT 20)

For C1119 - C .17/.23 MN 1.00/1.30 P.04 X S .20/.33 SIL .15 X KILLED (MAX 8") Add \$10.00 cwt to the table below

GRADE EXTRA \$4.75 cwt

| Width - Inches | Thickness - Inches | | | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|--------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 8 incl. | Over 8 to 15 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 92.00* | 90.00* | 89.00* | 87.00 | 90.00 | 94.50 | 103.00 | 113.00 |
| 72 to 96 incl. | 88.00* | 86.00* | 85.00* | 83.00 | 86.00 | 90.00 | 96.00 | 106.00 |
| Over 96 to 120 incl. | 103.00* | 89.00* | 86.00* | 83.00 | 86.00 | 90.00 | 96.00 | 106.00 |
| Over 120 to 132 incl. | 108.00* | 98.00* | 91.00* | 85.00 | 88.00 | 92.00 | 98.00 | 108.00 |
| Over 132 to 150 incl. | - | 103.00* | 98.00* | 87.50 | 90.50 | 94.50 | 100.50 | 110.50 |

FREE MACHINING (CLEAN CUT 45)

For C1144 - C .40/.50 MN 1.00/1.30 P.03 X S .20/.30 SIL .10 X (MAX 8") Add..... \$10.00 cwt to the table below

OVER 1" INCLUDES EDGE TREAT EXTRA. DEDUCT \$2.50 cwt IF ORDERED MILL EDGE

OVER 6" INCLUDES STRESS RELIEVE EXTRA

GRADE EXTRA \$5.00 cwt

| Width - Inches | Thickness - Inches | | | | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1 incl. | Over 1 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | Over 6 to 15 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 92.25* | 90.25* | 89.25* | 87.25 | 89.75 | 92.75 | 97.25 | 105.75 | 115.75 |
| 72 to 96 incl. | 88.25* | 86.25* | 85.25* | 83.25 | 85.75 | 88.75 | 92.75 | 98.75 | 108.75 |
| Over 96 to 120 incl. | 103.25* | 89.25* | 86.25* | 83.25 | 85.75 | 88.75 | 92.75 | 98.75 | 108.75 |
| Over 120 to 132 incl. | 108.25* | 98.25* | 91.25* | 85.25 | 87.75 | 90.75 | 94.75 | 100.75 | 110.75 |
| Over 132 to 150 incl. | - | 103.25* | 98.25* | 87.75 | 90.25 | 93.25 | 97.25 | 103.25 | 113.25 |

* Refer for acceptance.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Composite Price Tables

(1038 TO 1049)

OVER 1" TO 6" INCLUDES EDGE TREAT EXTRA. DEDUCT \$2.50 cwt. IF ORDERED MILL EDGE.

OVER 6" INCLUDES STRESS RELIEVE EXTRA

GRADE EXTRA \$3.00 cwt

| Width - Inches | Thickness - Inches | | | | | | | | |
|---------------------------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1 incl. | Over 1 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | Over 6 to 15 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 90.25* | 88.25* | 87.25* | 85.25 | 87.75 | 90.75 | 95.25 | 113.75 | 123.25 |
| 72 to 96 incl. | 86.25* | 84.25* | 83.25* | 81.25 | 83.75 | 86.75 | 90.75 | 106.75 | 116.25 |
| Over 96 to 120 incl. | 101.25* | 87.25* | 84.25* | 81.25 | 83.75 | 86.75 | 90.75 | 106.75 | 116.25 |
| Over 120 to 132 incl. | 106.25* | 96.25* | 89.25* | 83.25 | 85.75 | 88.75 | 92.75 | 108.75 | 118.25 |
| Over 132 to 150 incl. | | 101.25* | 96.25* | 85.75 | 88.25 | 91.25 | 95.25 | 111.25 | 120.75 |
| Over C .50 Max. add to the above..... | 12.50 | 12.50 | 12.50 | 9.50 | 3.50 | 3.50 | 3.50 | 6.00 | - |

1060 FINELINE

OVER 1" TO 3 " INCLUDES EDGE TREAT EXTRA. DEDUCT \$2.50 cwt. IF ORDERED MILL EDGE

OVER 3" TO 4-1/2 " INCLUDES EDGE TREAT EXTRA. IF ORDERED HEAT TREATED ADD APPROPRIATE EXTRA LESS \$2.50 cwt. FOR EDGE TREAT.

OVER 4-1/2" INCLUDES NORMALIZED

GRADE EXTRA \$5.25 cwt

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|-------------------|-----------------------|------------------------|
| | 3/8 to 1 incl. | Over 1 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 4-1/2 incl. | Over 4-1/2 to 10 incl. |
| 60 to 72 excl. | 88.50 | 91.00 | 94.00 | 98.50 | 119.50 | 129.50 |
| 72 to 96 incl. | 84.50 | 87.00 | 90.00 | 94.00 | 112.50 | 124.50 |
| Over 96 to 120 incl. | 85.50 | 87.00 | 90.00 | 94.00 | 112.50 | 124.50 |
| Over 120 to 132 incl. | 86.50 | 89.00 | 92.00 | 96.00 | 114.50 | 126.50 |
| Over 132 to 150 incl. | 89.00 | 91.50 | 94.50 | 98.50 | 117.00 | 129.00 |

* Refer for acceptance.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



BRIDGE PRICING

The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted

Hot Rolled Carbon and High-Strength Steel Plates for Bridges AASHTO OR ASTM Equivalent Subject to Impact Testing

Frequency of Impact Testing

NON FRACTURE CRITICAL

Impact testing frequency shall be in accordance with AASHTO T243 or ASTM A673, "Sampling Procedure for Impact Testing of Structural Steel" All grades shall have "Frequency (H) Heat or (P) Plate Testing to following values only." (1)

| AASHTO M270 Or ASTM A709 Grade | AASHTO Equivalent | ASTM Equivalent | Thickness- Inches | Zone 1 at +70 F FT. LB | Zone 2 at +40 F FT. LB | Zone 3 at +10 F FT. LB |
|-----------------------------------|----------------------|--------------------|--|------------------------------|------------------------------|------------------------------|
| 36T (250) | M183 | A36 | Up to 4" max | 15 | 15 | 15 |
| 50T (345) | M223-50 | A572-50 | Up to 4" max | 15 | 15 | 15 |
| 50WT (345W) | M222 | A588 | Mechanically Fastened & up to 2" max if welded | 15 | 15 | 15 |
| 50T (345) | M223-50 | A572-50 | Over 2" to 4" max | 20 | 20 | 20 |
| 50WT (345W) | M222 | A588 | If welded | 20 | 20 | 20 |

(1) All other impact values are subject to inquiry for acceptance and/or pricing

Frequency of Impact Testing

FRACTURE CRITICAL

Impact testing frequency shall be in accordance with ASTM A673, "Sampling Procedure for Impact Testing of Structural Steel" All grades furnished shall have frequency (P) Plate Testing or (PP) Plate Testing Both Ends in compliance with ASTM A709b. To the following values only. (1)

| AASHTO M270 Or ASTM A709 Grade | AASHTO Equivalent | ASTM Equivalent | Thickness- Inches | Zone 1 at +70 F FT. LB | Zone 2 at +40 F FT. LB | Zone 3 at +10 F FT. LB |
|-----------------------------------|----------------------|--------------------|--|------------------------------|------------------------------|------------------------------|
| 36F (250) | M183 | A36 | Up to 4" max | 25 | 25 | 25 |
| 50F (345) | M223-50 | A572-50 | Up to 4" max | 25 | 25 | 25 |
| 50WF (345W) | M222 | A588 | Mechanically Fastened & up to 2" max if welded | 25 | 25 | 25 |
| 50F (345) | M223-50 | A572-50 | Over 2" to 4" max | 30 | 30 | 30 |
| 50WF (345W) | M222 | A588 | If welded | 30 | 30 | 30 |

(1) All other impact values are subject to inquiry for acceptance and/or pricing

Carbon and HSLA Plate Products

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BRIDGE PRICING

The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted

High Performance (HPS) High-Strength Steel Plates for Bridges ASTM Equivalent Subject to Impact Testing

Frequency of Impact Testing

FRACTURE CRITICAL

Impact testing frequency shall be in accordance with ASTM A673, "Sampling Procedure for Impact Testing of Structural Steel" All grades furnished shall have frequency (P) Plate Testing or (PP) Plate Testing Both Ends in compliance with ASTM A709b. To the following values only. (1)

| ASTM A709 Grade | Thickness-Inches | Zone 1 at +10 F FT. LB | Zone 2 at +10 F FT. LB | Zone 3 at +10 F FT. LB |
|--------------------------|------------------|---------------------------|---------------------------|---------------------------|
| HPS 50WT (HPS 345 WT) | Up to 4" max | 30 | Frequency (H) 30 | 30 |
| HPS 70WT (HPS 485 WT) | Up to 4" max | 35 | Frequency (PP) 35 | 35 |

(1) All other impact values are subject to inquiry for acceptance and/or pricing

Carbon and HSLA Plate Products

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AASHTO M270 / ASTM A709

NON-FRACTURE CRITICAL

| Grade (s) | Grade and Testing Extras (\$/cwt) | Additional Extras (\$/cwt) |
|---------------------|--------------------------------------|--|
| GR 36 (250) | No grade extra | +BASE +Thickness and Width Extra |
| GR 50 (345) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| GR 50W (345W) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| GR 36 T1 (250 T1) | No grade extra | +BASE +Thickness and Width Extra |
| GR 50 T1 (345 T1) | +\$0.75 (LCVH) Impact extra | If thickness is (Over 3" ~ 4" incl.) then +\$1.80 (Sulphur) |
| | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 3" ~ 4" incl.) then +\$3.50 (Control Roll/Tartan) |
| GR 50W T1 (345W T1) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 3" ~ 4" incl.) then +\$3.50 (Control Roll/Tartan) |
| GR 36 T2 (250 T2) | \$0.75 (LCVH) Impact extra | +BASE +Thickness and Width Extra |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$1.80 (Sulphur) |
| GR 50 T2 (345 T2) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 2" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50W T2 (345W T2) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 2" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 36 T3 (250 T3) | No grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 1-1/2" ~ 3" incl.) then +\$6.50 (Heat Treat) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50 T3 (345 T3) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 1/4" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50W T3 (345W T3) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$0.75 (LCVH) Impact extra | If thickness is (Over 1/4" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



AASHTO M270 / ASTM A709

FRACTURE CRITICAL

| Grade (s) | Grade and Testing Extras (\$/cwt) | Additional Extras (\$/cwt) |
|---------------------|--------------------------------------|--|
| GR 36 F1 (250 F1) | No grade extra | +BASE +Thickness and Width Extra |
| | +\$2.50(LCVP) >=+40F | If thickness is (Over 3" ~ 4" incl.) then +\$1.80 (Sulphur) |
| GR 50 F1 (345 F1) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$1.25 (LCVP) >=+40F | If thickness is (Over 1-1/2" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50W F1 (345W F1) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$1.25 (LCVP) >=+40F | If thickness is (Over 1-1/2" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 36 F2 (250 F2) | No grade extra | +BASE +Thickness and Width Extra |
| | +\$2.50(LCVP) >=+40F | If thickness is (Over 3" ~ 4" incl.) then +\$1.80 (Sulphur extra) |
| GR 50 F2 (345 F2) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$1.25 (LCVP) >=+40F | If thickness is (Over 1/2" - 3") then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50W F2 (345W F2) | +\$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$1.25 (LCVP) >=+40F | If thickness is (Over 1/2" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 36 F3 (250 F3) | No grade extra | +BASE +Thickness and Width Extra |
| | +\$1.50 (LCVP) <+40F | If thickness is (Over 1/4" ~ 3/4" incl.) then +\$1.80 (Sulphur) |
| | | If thickness is (Over 3/4" ~ 3" incl.) then +\$6.50 (Heat Treat) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50 F3 (345 F3) | +\$2.50 Grade extra | +BASE +Thickness and Width Extra |
| | +\$1.50 (LCVP) <+40F | If thickness is (Over 1/4" ~ 3/8" incl.) then +\$1.80 (Sulphur) |
| | | If thickness is (Over 3/8" - 3") then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |
| GR 50W F3 (345W F3) | \$5.50 Grade extra | +BASE +Thickness and Width Extra |
| | \$1.50 (LCVP) <+40F | If thickness is (Over 1/4" - 3/8") then +\$1.80 (Sulphur) |
| | | If thickness is (Over 3/8" ~ 3" incl.) then +\$3.50 (Control Roll/Tartan) |
| | | If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Heat Treat) |

As rolled plates require pp frequency in accordance to ASTM A673.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

ASTM A709 GR HPS 50W T Zone 1, 2, 3

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 106.25* | 104.25* | 103.25* | 101.25 | 106.75 | Inquire |
| 72 to 96 incl. | 102.25* | 100.25* | 99.25* | 97.25 | 102.75 | Inquire |
| Over 96 to 120 incl. | 117.25* | 103.25* | 99.25* | 97.25 | 102.75 | Inquire |
| Over 120 to 132 incl. | 122.25* | 112.25* | 105.25* | 99.25 | 104.75 | Inquire |
| Over 132 to 150 incl. | | 117.25* | 112.25* | 101.75 | 107.25 | Inquire |
| Over 150 to 190 incl. | | | | 112.25* | 117.75 | Inquire |

ASTM A709 GR HPS 50W F Zone 1, 2, 3

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 108.50* | 106.50* | 105.50* | 103.50 | 109.00 | Inquire |
| 72 to 96 incl. | 104.50* | 102.50* | 101.50* | 99.50 | 105.00 | Inquire |
| Over 96 to 120 incl. | 119.50* | 105.50* | 101.50* | 99.50 | 105.00 | Inquire |
| Over 120 to 132 incl. | 124.50* | 114.50* | 107.50* | 101.50 | 107.00 | Inquire |
| Over 132 to 150 incl. | | 119.50* | 114.50* | 104.00 | 109.50 | Inquire |
| Over 150 to 190 incl. | | | | 114.50* | 120.00 | Inquire |

ASTM A709 GR HPS 70W T and 70W F Zone 1, 2, 3

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | - | - | - | Inquire | Inquire | Inquire |
| 60 to 72 excl. | 113.85* | 111.85* | 110.85* | 108.35 | 111.35 | 118.35 |
| 72 to 96 incl. | 109.85* | 107.85* | 106.85* | 104.35 | 107.35 | 113.85 |
| Over 96 to 120 incl. | 124.85* | 110.85* | 106.85* | 104.35 | 107.35 | 113.85 |
| Over 120 to 132 incl. | 129.85* | 119.85* | 112.85* | 106.35 | 109.35 | 115.85 |
| Over 132 to 150 incl. | | 124.85* | 119.85* | 108.85 | 111.85 | 118.35 |
| Over 150 to 190 incl. | | | | 119.35* | 122.35 | 127.85 |

* Refer for acceptance.

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



ABS GRADES

| Grade (s) | Grade Extra (\$/cwt) | Additional Extras (\$/cwt) |
|----------------|----------------------|--|
| ABS Grade A | \$0.50 | +BASE +Thickness and Width Extra If thickness is (Over 2" ~ 3" incl.) then +\$6.50 (Normalized) If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Normalized) |
| ABS Grade B | \$0.80 | +BASE +Thickness and Width Extra If thickness is (Over 1" ~ 2" incl.) then +\$0.75 for LCV 20 FT LB @ +32 F FREQ (H) If thickness is (Over 2" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ +32 F FREQ (H) If thickness is (Over 3" ~ 4" incl.)* then +\$9.50 (Normalized) AND +\$0.75 for LCV 30 FT LB @ +32 F FREQ (H) |
| ABS Grade D | \$2.25 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 3/8" incl.) then +\$9.50 (Normalized) AND +\$0.75 for LCV 20 FT LB @ -4 F FREQ (H) If thickness is (Over 3/8" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ -4 F FREQ (H) If thickness is (Over 3" ~ 4" incl.) * then +\$9.50 (Normalized) AND +\$0.75 for LCV 30 FT LB @ -4 F FREQ (H) |
| ABS Grade E | \$2.55 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 3/8" incl.) then +\$9.50 (Normalized) AND +\$1.50 for LCV 20 FT LB @ -40 F FREQ (P) If thickness is (Over 3/8" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$1.50 for LCV 25 FT LB @ -40 F FREQ (P) If thickness is (Over 3" ~ 4" incl.) * then +\$9.50 (Normalized) AND +\$1.50 for LCV 30 FT LB @ -40 F FREQ (P) |
| ABS Grade AH32 | \$3.60 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 1/2" incl.) then +\$0.75 for LCV 25 FT LB @ +32 F FREQ (H) If thickness is (Over 1/2" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ +32 F FREQ (H) If thickness is (Over 3" ~ 6" excl.) then +\$9.50 (Normalized) AND +\$0.75 for LCV 28 FT LB @ +32 F FREQ (H) If thickness is (Over 6" ~ 8" excl.) then +\$17.50 (Quench & Temper) AND +\$0.75 for LCV 34 FT LB @ +32 F FREQ (H) |
| ABS Grade AH36 | \$3.60 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 1/2" incl.) then +\$0.75 for LCV 25 FT LB @ +32 F FREQ (H) If thickness is (Over 1/2" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ +32 F FREQ (H) If thickness is (Over 3" ~ 6" excl.) then +\$9.50 (Normalized) AND +\$0.75 for LCV 28 FT LB @ +32 F FREQ (H) If thickness is (Over 6" ~ 8" excl.) then +\$17.50 (Quench & Temper) AND +\$0.75 for LCV 34 FT LB @ +32 F FREQ (H) |

* Inquire over 4" Thickness

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



ABS GRADES

| Grade (s) | Grade Extra (\$/cwt) | Additional Extras (\$/cwt) |
|----------------|-------------------------|--|
| ABS Grade DH32 | \$4.90 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 1/2" incl.) then +\$0.75 for LCV 25 FT LB @ -4 F FREQ (H) If thickness is (Over 1/2" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ -4 F FREQ (H) If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Normalized) AND +\$0.75 for LCV 28 FT LB @ -4 F FREQ (H) If thickness is (Over 4" ~ 7" incl.) then +\$12.50 (Normalized) AND +\$0.75 for LCV 34 FT LB @ -4 F FREQ (H) |
| ABS Grade DH36 | \$4.90 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 1/2" incl.) then +\$0.75 for LCV 25 FT LB @ -4 F FREQ (H) If thickness is (Over 1/2" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$0.75 for LCV 25 FT LB @ -4 F FREQ (H) If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Normalized) AND +\$0.75 for LCV 30 FT LB @ -4 F FREQ (H) If thickness is (Over 4" ~ 6" incl.) then +\$12.50 (Normalized) AND +\$0.75 for LCV 37 FT LB @ -4 F FREQ (H) If thickness is (Over 6" ~ 7" incl.) then +\$17.50 (Quench & Temper) AND +\$0.75 for LCV 37 FT LB @ -4 F FREQ (H) |
| ABS Grade EH32 | \$4.90 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 3/8" incl.) then +\$9.50 (Normalized) AND +\$1.50 for LCV 25 FT LB @ -40 F FREQ (P) If thickness is (Over 3/8" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$1.50 for LCV 28 FT LB @ -40 F FREQ (P) If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Normalized) AND +\$1.50 for LCV 34 FT LB @ -40 F FREQ (P) If thickness is (Over 4" ~ 6" incl.) then +\$12.50 (Normalized) AND +\$0.75 for LCV 37 FT LB @ -40 F FREQ (P) If thickness is (Over 6" ~ 7" incl.) then +\$17.50 (Quench & Temper) AND +\$0.75 for LCV 37 FT LB @ -40 F FREQ (P) |
| ABS Grade EH36 | \$4.90 | +BASE +Thickness and Width Extra If thickness is (Over 1/4" ~ 3/8" incl.) then +\$9.50 (Normalized) AND +\$1.50 for LCV 25 FT LB @ -40 F FREQ (P) If thickness is (Over 3/8" ~ 3" incl.) then +\$6.50 (Normalized) AND +\$1.50 for LCV 30 FT LB @ -40 F FREQ (P) If thickness is (Over 3" ~ 4" incl.) then +\$9.50 (Normalized) AND +\$1.50 for LCV 37 FT LB @ -40 F FREQ (P) If thickness is (Over 4" ~ 6" incl.) then +\$12.50 (Normalized) AND +\$0.75 for LCV 37 FT LB @ -40 F FREQ (P) If thickness is (Over 6" ~ 7" incl.) then +\$17.50 (Quench & Temper) AND +\$0.75 for LCV 37 FT LB @ -40 F FREQ (P) |

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



American Bureau of Shipping - Part 2, Section 2

| CARBON GRADES | To 3/8 excl. | 3/8 TO 1/2 incl. | 1/2 TO 1-3/8 incl. | OVER 1-3/8 TO 1-1/2 incl. | 1-1/2 TO 2 incl. | (\$/cwt) 2 TO 4 incl. |
|-----------------------------------|-----------------|---------------------|-----------------------|---------------------------------|---------------------|-----------------------------|
| A - Hull & Cold Flange | | | | | | |
| Kld FG Prac | \$0.50 | \$0.50 | \$0.50 | \$0.50 | \$0.50 | - |
| Kld FG Prac Norm | - | - | - | - | - | \$7.00 |
| B - Hull & Cold Flange | | | | | | |
| Kld FG Prac | 0.80 | 0.80 | (< 1") 0.80 | - | - | - |
| Kld FG Prac + LCV (H) | - | - | (> 1") 1.55 | - | - | - |
| Kld FG Prac Norm + LCV (H) | - | - | - | 1.55 | 1.55 | 8.05 |
| D - Hull | | | | | | |
| Kld FG Prac Norm + LCV (H) | 12.50 | 9.50 | 9.50 | 9.50 | 9.50 | 9.50 |
| E - Hull | | | | | | |
| Kld FG Prac Norm + LCV (P) | 13.55 | 10.55 | 10.55 | 10.55 | 10.55 | 10.55 |

| **HI-STRENGTH GRADES | To 3/8 excl. | 3/8 TO 1/2 incl. | 1/2 TO 1-3/8 incl. | OVER 1-3/8 TO 1-1/2 incl. | 1-1/2 TO 2 incl. | (\$/cwt) 2 TO 4 incl. |
|------------------------------|-----------------|---------------------|-----------------------|---------------------------------|---------------------|-----------------------------|
| AH 32 - Hull | | | | | | |
| Kld FG Prac+ LCV(H) | \$4.35 | \$7.85 | - | - | - | - |
| Kld FG Prac Norm + LCV(H) | - | - | \$10.85 | \$10.85 | \$10.85 | \$10.85 |
| AH 36 - Hull | | | | | | |
| Kld FG Prac+ LCV (H) | 4.35 | 7.85 | - | - | - | - |
| Kld FG Prac Norm + LCV (H) | - | - | 10.85 | 10.85 | 10.85 | 10.85 |
| DH 32 - Hull | | | | | | |
| Kld FG Prac+LCV (H) | 5.65 | 9.15 | - | - | - | - |
| Kld FG Prac Norm + LCV (H) | - | - | 12.15 | 12.15 | 12.15 | 12.15 |
| DH 36 - Hull | | | | | | |
| Kld FG Prac Norm + LCV (H) | 5.65 | 9.15 | 12.15 | 12.15 | 12.15 | 12.15 |
| EH 32 & 36 - Hull | | | | | | |
| Kld FG Prac NORM + LCV (P) | 15.90 | 12.90 | 12.90 | 12.90 | 12.90 | 12.90 |

Add appropriate base, size, length and quantity extras.

** Over 4" Inquiry

Carbon and HSLA Plate Products

ArcelorMittal USA LLC



API 2H 9TH EDITION JULY 2006

The following prices include base price and extras for specification (or chemistry), width and thickness, Killed, Fine Grain, Normalized, Carbon Equivalent, S.010 max, and TCV Impacts Freq (H) ASTM A673

GRADE 42 & 50 NORMALIZED

| GRADE EXTRA \$12.50 (\$/cwt) | | (\$/cwt) | | | | | | |
|------------------------------|--|--------------------|-------------------|-------------------|--------------------|-----------------------|-------------------|-------------------|
| Width - Inches | | Thickness - Inches | | | | | | |
| | | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | | 98.75 | 98.75 | 98.75 | 101.75 |
| 60 to 72 excl. | | 110.75* | 108.75* | 107.75* | 102.75 | 105.75 | 110.25 | 121.75 |
| 72 to 96 incl. | | 106.75* | 104.75* | 103.75* | 98.75 | 101.75 | 105.75 | 114.75 |
| Over 96 to 120 incl. | | 121.75* | 107.75* | 104.75* | 98.75 | 101.75 | 105.75 | 114.75 |
| Over 120 to 132 incl. | | 126.75* | 116.75* | 109.75* | 100.75 | 103.75 | 107.75 | 116.75 |
| Over 132 to 150 incl. | | | 121.75* | 116.75* | 103.25 | 106.25 | 110.25 | 119.25 |

* Refer for acceptance.

API 2Y

GRADE 2Y-50 \$20.00 (\$/cwt)

GRADE 2Y-60 \$26.00 (\$/CWT)

SUPPLEMENT EXTRAS MUST BE ADDED TO THE TABLE ABOVE

- S1** - UT A578 LEVEL A - 100% (3/8" To <1/2") **\$6.25 (\$/cwt)**
 (1/2" To <1") **\$4.25 (\$/cwt)**
 (1" To <3") **\$3.00 (\$/cwt)**
 (≥3") **\$2.00 (\$/cwt)**

REQUIRES SPECIAL MANUFACTURING PRACTICE @ + **\$1.00 (\$/cwt)** (DISREGARD THIS PRACTICE IF SUPPLEMENTS S3 or S4 or S5 ARE ORDERED

S2 - IMPACT TESTS AT -76 F (NO CHANGE IN PRICE) OR DWTT - NO BREAK @ -67 F AT **\$.50 (\$/cwt)**
 (MUST BE AGREED TO BY PURCHASER & MANUFACTURER)

S3 - INDIVIDUAL PLATE TESTING - REQUIRES PRESSURE VESSEL QUALITY @ + **\$1.40 (\$/cwt)** AND CHANGES TCVN
 TO FREQ (P) @ + **\$.75 (\$/cwt)** ADDED TO THE ABOVE PRICES

S4 - THRU THICKNESS TESTED PER API 2H - 30% REDUCTION OF AREA (3/4" AND OVER + **\$1.00 (\$/cwt)**)
 REQUIRES INTEGRA @ + **\$1.80 (\$/cwt)**

S5 - LOW SULFUR .006 MAX
 REQUIRES INTEGRA @ + **\$1.80 (\$/cwt)**

S7 - LOW NITROGEN FOR STRAIN AGED IMPACTS - (INQUIRY ONLY)

S8 - STRAIN AGED IMPACTS - TCV FREQ (H) **\$.50 (\$/cwt)** + ADDITIONAL EXTRAS **\$.15 (\$/cwt) = \$.65 (\$/cwt)**
 IF PLATE TESTED TCV (P) **\$.75 (\$/cwt)** + ADDITIONAL EXTRAS **\$.15 (\$/cwt) = \$.90 (\$/cwt)**

S11- PREPRODUCTION QUALIFICATION - OFFER SPECIFICATION API 2Y WHICH IS QUALIFIED UP TO 3"

S12- NOTCH TOUGHNESS USING DWTT (NO BREAK @ -30F) FREQ (H) (5/8" AND OVER) @ + **\$1.25 (\$/cwt)**

S13- SURFACE QUALITY - DESCALED & INSPECTED - (INQUIRY PRICE AND AVAILABILITY)

S14- THICKNESS TOLERANCE - 1/2 STANDARD OVER TOLERANCE @ + **\$1.00 (\$/cwt)** (INQUIRY ONLY)

Floor Plate Products



ArcelorMittal USA LLC

Size Availability

| Thickness (inches) | Width (inches) | Length |
|--------------------|----------------|--------------|
| 5/16 to 1 incl. | 72 to 96 | To 480 incl. |

*Refer other sizes for acceptance.

Base Price

\$/cwt

| Product | | | |
|---------------------|--------|-------|----------------|
| F.O.B. Conshohocken | Carbon | Alloy | Effective Date |
| Plates (Floor) | 82.25 | 94.75 | 11/2/08 |

Plates are invoiced on the theoretical weight of the ordered size using the formula:
(Thickness + .0257) x Width x Length x .2836 lbs. per cubic inch.

Other Extras

Consult Carbon or Alloy Plate Price Sections as applicable for:

Size

Quantity

Specification

Testing and Supplemental Requirements

Special Processing

Floor Plate Products



ArcelorMittal USA LLC

Table 1:
Tolerances For Weight

| Specified Thickness, Inches | Tolerances for Average Weight of Lots * Expressed in Percentage of Theoretical** Weight per Square Inch | |
|-----------------------------|--|-------|
| | Over | Under |
| 1/4 to 5/16 excl. | 5.0 | 3.0 |
| 5/16 to 3/8 excl. | 4.5 | 3.0 |
| 3/8 to 7/16 excl. | 4.0 | 3.0 |
| 7/16 to 1/2 excl. | 3.5 | 2.5 |
| 1/2 to 5/8 excl. | 3.0 | 2.5 |
| 5/8 to 1 incl. | 2.5 | 2.5 |

Tolerances for overweight for single plates are 1-1/3 times the amount in the above table.

* The term "lot" means all the plates of each tabular thickness group represented in each shipment.

** For theoretical weight, refer under Base Price.

Table 2:
Camber Tolerances For Raised Figures

Camber, as it relates to raised figures, is the curvature of the raised figures in the length direction, measured over the entire length of the plate.

$$\frac{3/8 \text{ inch} \times \text{number of feet of length}}{5}$$

Table 3:
Camber Tolerances For Sheared or Gas Cut Rectangular Floor Plates

| Thickness, Inches | Widths, Inches | Camber Tolerance For Given Thickness and Width |
|-------------------|----------------|---|
| 1/4 to 1 incl. | ALL | $\frac{1/8 \text{ inch} \times \text{number of feet of length}}{5}$ |

Camber, as it relates to plates, is the edge curvature along the length, measured in the flat position over the entire length of the plate.

Floor Plate Products



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Table 4:
Tolerances For Width and Length

| Tolerances, Inches, * Over Specified Width and Length for Thicknesses Given | | | | | | | |
|--|------------|------------|--------|------------------|--------|----------------|--------|
| Specified Dimensions, Inches | | 1/4 to 3/8 | | 3/8 to 5/8 excl. | | 5/8 to 1 incl. | |
| Width | Length | Width | Length | Width | Length | Width | Length |
| To 96 incl. | Under 120 | 3/8 | 1/2 | 7/16 | 5/8 | 1/2 | 1 |
| | 120 to 240 | 3/8 | 3/4 | 1/2 | 7/8 | 5/8 | 1-1/8 |
| | 240 to 360 | 3/8 | 1 | 1/2 | 1-1/8 | 5/8 | 1-1/2 |
| | 360 to 480 | 7/16 | 1-1/4 | 1/2 | 1-3/8 | 5/8 | 1-5/8 |

* Tolerance under specified width and length: 1/4"

Table 5:
Permissible Variations From Flatness For Carbon Steel Rectangular, Circular, and Sketch Rolled Floor Plates (Applies To Carbon Steel Only)

- Note 1** - When the longer dimension is under 36", the permissible variation should not exceed 1/4".
When the longer dimension is from 36" to 72" incl., the permissible variation should not exceed 75% of the tabular amount for the specified width, but in no case less than 1/4".
- Note 2** - These variations apply to plates that have a specified minimum tensile strength of not more than 60,000 psi (415mpa) or compatible chemistry or hardness. The limits in the table are increased 50% for plates specified to a higher minimum tensile or compatible chemistry or hardness.
- Note 3** - This table and those notes cover the permissible variations for flatness of circular and sketch plates, based on the maximum dimensions of those plates.

| Permissible Variations from a Flat Surface for Specified Widths, Inches | | | | | | | |
|---|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| Specified Thickness Inches | To 36 excl. | 36 to 48 excl. | 48 to 60 excl. | 60 to 72 excl. | 72 to 84 excl. | 84 to 96 excl. | 96 |
| 1/4 to 3/8 excl. | 1/2 | 5/8 | 3/4 | 15/16 | 1-1/8 | 1-1/4 | 1-3/8 |
| 3/8 to 1/2 excl. | 1/2 | 9/16 | 5/8 | 5/8 | 3/4 | 7/8 | 1 |
| 1/2 to 3/4 excl. | 7/16 | 1/2 | 9/16 | 5/8 | 5/8 | 3/4 | 1 |
| 3/4 to 1 excl. | 7/16 | 1/2 | 9/16 | 5/8 | 5/8 | 5/8 | 3/4 |
| 1 | 3/8 | 1/2 | 1/2 | 9/16 | 9/16 | 5/8 | 5/8 |

Flatness variation for length – The longer dimension specified is considered the length, and permissible variations in flatness along the length should not exceed the tabular amount for the specified width in plates up to 12' in length, or in any 12' of longer plates.

Flatness variation for width – The flatness variations across the width should not exceed the tabular amount for the specified width.

Floor Plate Products



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Table 6:

Permissible Variations From Flatness For High Strength Low Alloy And Alloy Steel Rectangular, Circular, and Sketch Floor Plates, Hot Rolled or Thermally Treated (Not Applicable To Carbon Steel)

Note 1 - When the longer dimension is under 36", the permissible variation should not exceed 3/8".
When the longer dimension is from 36" to 72" incl., the permissible variation should not exceed 75% of the tabular amount for the specified width.

Note 2 - This table and those notes cover the permissible variations for flatness of circular and sketch plates, based on the maximum dimensions of those plates.

| Permissible Variations from a Flat Surface for Specified Widths, Inches | | | | | | | |
|---|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| Specified Thick- ness Inches | To 36 excl. | 36 to 48 excl. | 48 to 60 excl. | 60 to 72 excl. | 72 to 84 excl. | 84 to 96 excl. | 96 |
| 1/4 to 3/8 excl. | 3/4 | 15/16 | 1-1/8 | 1-3/8 | 1-3/4 | 1-7/8 | 2 |
| 3/8 to 1/2 excl. | 3/4 | 7/8 | 15/16 | 15/16 | 1-1/8 | 1-15/16 | 1-1/2 |
| 1/2 to 3/4 excl. | 5/8 | 3/4 | 13/16 | 7/8 | 1 | 1-1/8 | 1-1/4 |
| 3/4 to 1 excl. | 5/8 | 3/4 | 7/8 | 7/8 | 15/16 | 1 | 1-1/8 |
| 1 | 9/16 | 5/8 | 3/4 | 13/16 | 7/8 | 15/16 | 1 |

Flatness variation for length – The longer dimension specified is considered the length, and permissible variations in flatness along the length should not exceed the tabular amount for the specified width in plates up to 12' in length, or in any 12' of longer plates.

Flatness variation for width – The flatness variations across the width should not exceed the tabular amount for the specified width.

Alloy Plate Products



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| Base Price | \$/cwt |
|----------------|--------|
| Plates (Alloy) | 92.75 |

| Thickness and Width (inches) | \$/cwt | | | | | | | |
|------------------------------|--------------------|-------------------|-------------------|------------------|---------------------|-------------------|--------------------|---------------------|
| Width - Inches | Thickness - Inches | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 12 incl. | Over 12 to 15 incl. |
| 48 to 60 excl. | Inquire | Inquire | Inquire | 7.50 | 8.50 | 10.50 | 27.00 | 28.50 |
| 60 to 72 excl. | 12.00 | 9.00 | 8.00 | 6.00 | 7.00 | 9.00 | 25.50 | 27.00 |
| 72 to 96 excl. | 8.50 | 5.50 | 4.50 | 2.50 | 3.50 | 5.50 | 22.00 | 23.50 |
| 96 to 120 incl. | 15.50* | 14.00* | 8.00* | 2.50 | 3.50 | 5.50 | 22.00 | 23.50 |
| Over 120 to 132 incl. | 18.50* | 17.00* | 11.00* | 4.50 | 5.50 | 7.00 | 23.50 | |
| Over 132 to 150 incl. | | | | | 8.00* | 11.50* | 28.00* | |
| Over 150 to 180 incl. | | | | | 13.00* | 14.50* | | |
| Over 180 to 190 incl. | | | | | 15.00* | | | |

* Refer for acceptance

| Ingot / Thick Plate Practice | \$/cwt |
|------------------------------|--------|
| Ingot extra | 12.50 |

The ingot extra applies to the following:

- Pressure Vessel Quality grades over 3" to 4"
- Single pattern weights over 27,500# (PVQ to 3" thick and other grades 4" thick)
- Special grades requiring ingot/thick plate practice and not already included

| Length | \$/cwt |
|-------------------------|------------------------|
| Under 96" excl. | Inquire |
| 96" to 120" excl. | 3.50 |
| 120" to 240" excl. | 1.50 |
| 240" to 480" incl. | See Matrix Price Above |
| Over 480" to 600" incl. | .50 |
| Over 600 | Inquire |

Length extras apply on all thicknesses, whether plates are sheared, gas cut, rectangular or otherwise.

Alloy Plate Products



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| Quantity | \$/cwt |
|------------------------------------|--------|
| 40,000 lbs. | None |
| Under 40,000 lbs. thru 20,000 lbs. | .25 |
| Under 20,000 lbs. thru 10,000 lbs. | .50 |
| Under 10,000 lbs. thru 6,000 lbs. | 1.00 |
| Under 6,000 lbs. thru 4,000 lbs. | 3.00 |
| Under 4,000 lbs. thru 3,000 lbs. | 5.00 |
| Under 3,000 lbs. | 7.00 |

These extras shall be determined by the theoretical weight of each item. An item is defined as each size ordered on one order (one thickness and one width is considered one size) of one grade or analysis, released for shipment to one destination at one time. The weight of a square required to furnish circular patterns shall be used to establish the price component.

| Individual Plate Weight (Rectangular or Square) | \$/cwt |
|---|--------|
| 50,000 lbs to 60,000 lbs. incl. | 1.50 |
| Over 60,000 lbs. thru 80,000 lbs. | 3.00 |
| Over 80,000 lbs. thru 100,000 lbs. | 5.00 |
| Over 100,000 lbs. | 7.50 |

| Quality | \$/cwt |
|--|---------|
| Pressure Vessel Quality | 1.40 |
| Quench and temper steels and other specifications requiring additional tension test per ASTM A20 supplemental paragraph S4.1 | Add .10 |
| Aircraft Quality AMS 2301 | 12.75* |
| Aircraft Quality AMS 2300 | Inquire |

| Melting Practice | \$/cwt |
|--|--------|
| Electric Furnace Quality | 1.25 |
| Vacuum Improved Plate (VIP) | 1.15 |
| Fineline (.010 MAX SULFUR) inclusion shape control and VIP incl. | 4.00 |
| Fineline Double-O-Five (.005max Sulfur) inclusion shape control and VIP incl. | 5.00 |
| Integra Quality (.006 max Sulfur and inclusion shape control)** | 3.80 |

Restricted Chemistry

| Restricted Phosphorus | \$/cwt |
|---|---------|
| For each .005% reduction to .026 max | .05 |
| When specified .025% | 1.25 * |
| When specified .024% maximum to .018% max | 1.25 * |
| For each .0001 reduction under .025 max | .05 |
| When specified .017% max and under | Inquire |

* Includes Electric Furnace Practice

** Thru Thickness Testing in accordance with ASTM A770 is available (see Testing extras).

Alloy Plate Products



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Restricted Chemistry

| Restricted Sulphur | \$/cwt |
|--|---------|
| For each .005% reduction to .026 max | .05 |
| When specified .025% maximum | 1.25 * |
| When specified .020% maximum | 1.60 * |
| When specified .015% maximum | 1.95 * |
| When specified .010% maximum | 2.40 * |
| When specified .009% to .006% maximum | 4.00 ‡ |
| For each .001 reduction under .010 max | .20 |
| When specified .005% maximum Finesline Double-0-Five/Integra | 5.00 ‡ |
| When specified .004% maximum and under | Inquire |

* Includes Electric Furnace Practice

‡ Includes Electric Furnace Practice and Vacuum Improved Plate and inclusion shape control

Supplemental — Testing

* Charpy Impact Tests – (H) Heat Qualification

Charpy Impact Tests in accordance with frequency "H" of ASTM A673 (or equivalent) on Structural Quality Steel to qualify a heat with temperatures and values to be agreed upon.

| | |
|--|-----------------|
| 2 sets of 3 Longitudinal Tests to obtain average..... | \$.75 (\$/cwt) |
| 2 sets of 3 Transverse Tests to obtain average..... | \$.50 (\$/cwt) |
| 2 sets of 3 Longitudinal and Transverse Tests to obtain average..... | \$1.00 (\$/cwt) |
| For each additional set of tests..... | \$.25 (\$/cwt) |

* Charpy Impact Tests – (P) Plate Qualification

(ONE SET OF THREE TESTS FROM EACH PLATE AS ROLLED TO OBTAIN AVERAGE)

| Specified Test Temperature | Longitudinal (\$/cwt) | Transverse † (\$/cwt) | Both † (\$/cwt) |
|--|--------------------------|--------------------------|--------------------|
| At room temperature or +40° F and higher | 1.50 | 1.25 | 2.00 |
| At less than +40° F | 1.75 | 1.50 | 2.25 |

* Charpy Impact Tests – (PP) Plate Qualification

(ONE SET OF THREE TESTS FROM EACH END OF EACH PLATE AS ROLLED TO OBTAIN AVERAGE)

| Specified Test Temperature | Longitudinal (\$/cwt) | Transverse † (\$/cwt) | Both † (\$/cwt) |
|--|--------------------------|--------------------------|--------------------|
| At room temperature or +40° F and higher | 2.75 | 2.25 | 3.50 |
| At less than +40° F | 3.25 | 2.75 | 4.00 |

*NOTE: When a test specimen or parent material is to be heat treated by the producer, the appropriate Heat Treating Extra is to apply.

† May require Low Sulphur at the appropriate extra.

Alloy Plate Products



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Supplemental — Testing

| | |
|---|--------------------|
| Charpy V-Notch Transition Temperature Curve..... | Subject to Inquiry |
| Lateral Expansion and/or % Shear Fracture (for information only)..... | \$.20 (\$/cwt) |
| Thru Thickness Testing in Accordance with ASTM A770 (Min. 1") ** | |

(APPLICABLE TO FINELINE/INTEGRA QUALITY ONLY) At the appropriate extra.
Two tension tests per plate as rolled

| | |
|--|------------------|
| Fineline/Integra | |
| Reduction of Area to 25% minimum..... | \$ 1.00 (\$/cwt) |
| Fineline Double-0-Five | |
| Reduction of Area to 35% minimum..... | \$ 1.00 (\$/cwt) |
| Reduction of Area to 36% to 40% minimum..... | \$ 2.00 (\$/cwt) |
| Each additional tension test per plate as rolled | \$.50 (\$/cwt) |

** Heat Treatment extras may apply

Drop Weight Test in Accordance with ASTM E-208 (DWT)

This testing requires Killed Fine Grain Pressure Vessel or higher quality and is applicable to plates 5/8 in. and over in thickness which have been normalized or quenched and tempered.

| No break performance at a specified temperature (Two test from each plate as rolled) | (\$/cwt) |
|---|----------|
| At +40 F and higher | 1.25 |
| At less than +40 | 1.50 |

| Nil Ductility Transition Temperature (Lowest temperature at which duplicate non-break performance is obtained on each plate as rolled) | (\$/cwt) |
|---|----------|
| At +40 F and higher | 2.00 |
| At less than +40 F | 2.25 |

Mechanical Tests

Extras for standard testing are included in the specification charges. If additional testing is required, the following extras would apply.

Restricted Mechanical Requirement

| | |
|--|-----------------|
| TENSILE, YIELD and DUCTILITY RANGES specified more restrictive than ASTM or equivalent specifications (Inquiry) | \$.50 (\$/cwt) |
|--|-----------------|

Bend Tests

| | (\$/cwt) |
|--|----------|
| When Bend Tests are specified for: Structural Quality – 2 tests per heat | .20 |
| Structural or Pressure Vessel Quality —1 test per plate as rolled | .50 |

Extra Testing of Plates, As Rolled

| | |
|--|-----------------|
| When the specified Tension Tests is other than ASTM A6 or A20 | \$.25 (\$/cwt) |
| Additional standard Tension Test when the number exceeds ASTM A6 or A20 each additional test | \$.10 (\$/cwt) |

Alloy Plate Products



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Supplemental — Testing

Tests of Each Plate (ordered)

| | |
|---|----------------|
| For tests of each plate ordered as distinguished from each plate rolled | \$.50(\$/cwt) |
|---|----------------|

Hardness Test of Plates (Brinell)

| Hardness tests of plates to minimum or maximum requirements only. | (\$/cwt) |
|--|----------|
| When hardness tests are specified two tests per thickness per heat | .30 |
| When hardness tests are specified for each plate as rolled | .50 |

Non Standard Location Tests

| | |
|---|----------------|
| When tests are specified at locations other than required by ASTM specified | \$.50(\$/cwt) |
|---|----------------|

| | (\$/cwt) |
|---|----------|
| McQuaid EHN Test (For grain size determination) | .15 |
| Product/Check Analysis (per Heat) | .10 |
| Product/Check Analysis (per Plate) | .25 |
| Jominy Test (3 per heat) | .50 |
| Homogeneity or Fracture Test | .25 |
| Macroetch Test | .25 |
| Microscopic Test | .50 |
| Segregation Test | Inquire |

Alloy Plate Products



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Non – Destructive Testing

Plates ordered to chemical compositions or to any quality other than Fineline, Integra or Pressure Vessel quality a minimum of special manufacturing practice of **\$1.00** must be added requirements other than those listed below are subject to prior approval and may require additional pricing including Electric Furnace Practice and or Vacuum Improved Plate.

| | |
|---------------------------|---------|
| Magnetic Particle Testing | Inquire |
|---------------------------|---------|

Ultrasonic Testing

| Search Pattern-100% | 3/8" to 1/2" excl. # (\$/cwt) | 1/2" to 1" excl. (\$/cwt) | 1" to 2" excl. (\$/cwt) | 2" to 3" excl. (\$/cwt) | 3" to 6" incl. # (\$/cwt) |
|-------------------------------------|-------------------------------|---------------------------|-------------------------|-------------------------|---------------------------|
| ASTM A435-90 S1 (Min 1/2") ‡ | 6.50 | 4.25 | 3.50 | 2.75 | 2.50 |
| ASTM A577-90 (Min 3/8") ‡ | 12.00 | 8.00 | 6.75 | 5.50 | 5.25 |
| ASTM A578-96 S1 @ (Min 3/8")** | | | | | |
| Level A or B | 7.50 | 5.00 | 4.25 | 3.00 | 2.75 |
| Level C * | 7.50 | 5.00 | 4.25 | 3.00 | 2.75 |
| Supplemental Para S2.1 | 8.50 | 5.75 | 5.00 | 4.50 | 4.25 |
| ASME Section 3 Class 1 (Min 3/8") * | | | | | |
| Para NB2532.1 @ | 7.50 | 5.00 | 4.25 | 3.00 | 2.75 |
| Para NB2532.2 | 11.75 | 8.00 | 6.75 | 5.50 | 5.25 |
| Para NB2532.1&2 | 19.25 | 13.00 | 10.75 | 8.50 | 8.00 |

** Minimum charge \$75.00 per plate.

@ Includes ultrasonic recording of non-rejectable indications.

‡ If recording of non-rejectable indications are required on other U.T. specs refer (+) See below for price component.

Thicknesses under 3/8 and over 6" and/or over 55,000 lbs pattern weight subject to inquiry.

* Requires Fineline and/or Integra at an additional cost.

(+) Ultrasonic Recording of Non-Rejectable Indications

Subject to negotiation of acceptable recording criteria. The recording component must be added to the applicable ultrasonic testing extra except as noted with an @.

| Search Pattern | 3/8 to 1/2 excl. (\$/cwt) | 1/2 to 1 excl. (\$/cwt) | 1 to 2 excl. (\$/cwt) | 2 to 3 excl. (\$/cwt) | 3 and over (\$/cwt) |
|-----------------------------|---------------------------|-------------------------|-----------------------|-----------------------|---------------------|
| Longitudinal Beam 100% | 1.25 | .75 | .75 | .50 | .50 |
| Longitudinal and Angle Beam | 3.25 | 2.25 | 1.75 | 1.25 | 1.00 |

Alloy Plate Products



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Heat Treatment

| Width (inches) | Thickness (inches) | | | | |
|-------------------------------|-----------------------|---------------------------------|-------------------------------|----------------------------------|--------------------|
| | Under 1/4 (\$/cwt) | 1/4 to under 3/8 (\$/cwt) | 3/8 to 1 incl. (\$/cwt) | Over 1 to 4 incl. (\$/cwt) | Over 4 (\$/cwt) |
| Normalized | 17.00 | 14.00 | 11.00 | 11.00 | 13.50 |
| Stress Relieved | 17.00 | 14.00 | 11.00 | 11.00 | 13.50 |
| Stress Relieved (combination) | 15.15 | 13.15 | 10.15 | 10.15 | 12.65 |
| Anneal | 22.50 | 19.50 | 16.50 | 16.50 | 19.00 |
| Quench and Tempered | 22.50 | 19.50 | 16.50 | 16.50 | 19.00 |
| Normalize and Temper | 22.50 | 19.50 | 16.50 | 16.50 | 19.00 |
| Double Normalize | 22.50 | 19.50 | 16.50 | 16.50 | 19.00 |
| Double Normalize and Temper | 25.00 | 22.00 | 19.00 | 19.00 | 21.50 |
| Double Quench and Temper | 25.00 | 22.00 | 19.00 | 19.00 | 21.50 |

* Subject to Inquiry Max width acceptable is 96".

All Components will be within standard flatness tolerances after treatment

Test Specimens Heat Treatment

No extra applicable if parent material is similarly heat treated by producer. Following extras apply on weight of plates represented by test pieces:

1. Cycle (s) established as standard for the ordered quality up to one hour per inch of thickness within ASTM or ASME heating/cooling rates.

| | |
|--|-----------------|
| Normalized or Stress Relieved or Tempered..... | \$.05 (\$/cwt) |
| Normalized and Stress Relieved, Normalized and Temper..... | \$.10 (\$/cwt) |
| Quenched and Tempered..... | \$.35 (\$/cwt) |

2. Post weld heat treat and other cycles exceeding the standard - subject to prior approval.

| Price component each cycle per pattern weight (\$/cwt) | | | | | | |
|--|----------------------|------------------|------------------|------------------|------------------|---------|
| Hold time in hours * | To 10 | Over 10 To 20 | Over 20 To 40 | Over 40 To 60 | Over 60 To 80 | Over 80 |
| To 15 incl. | 1.90 | .95 | .55 | .35 | .30 | .25 |
| Over 15 to 25 incl. | 2.45 | 1.25 | .65 | .45 | .35 | .30 |
| Over 25 to 35 incl. | 3.00 | 1.45 | .75 | .50 | .40 | .35 |
| Over 35 to 45 incl. | 3.35 | 1.75 | .90 | .60 | .50 | .45 |
| Over 45 to 55 incl. | 3.75 | 1.90 | .95 | .65 | .55 | .50 |
| Over 55 to 65 incl. | 4.45 | 2.25 | 1.10 | .75 | .60 | .55 |
| Over 65 | (Subject to Inquiry) | | | | | |

* Heating and cooling rates slower than 75°F /hour must be inquired for acceptance.

3. Program controlled cooling.

| | |
|---|-----------------|
| Per ASME SA20, Section III or Section VIII, Division 2..... | \$.75 (\$/cwt) |
|---|-----------------|

Alloy Plate Products



ArcelorMittal USA LLC

Special Requirements

1. Quality Assurance Certification

\$ 2.50(\$/cwt)

Quality assurance includes quality control, examination and quality control administration. It is all those planned and systematic actions necessary to assure that the steels are produced in accordance with the rules of the boiler and pressure vessel code or other approved quality assurance systems.

This price applies to specifications such as, but not limited to, the following.

ASME Section III (Nuclear), Navy Nuclear, NRC 10CFR21 or MIL-I-45208.

Other approved corporate or commercial Quality Assurance Systems (QAS).

2. Special Manufacturing

Subject to Inquiry

Unusual chemistry, size thickness, surface or other special manufacturing practices or combinations thereof.

3. Circular Plates

(\$/cwt)

Circular plates over 60" diameter

Add 30%

Circular plates 60" diameter and under

Subject to Inquiry

This percentage applies to the total price of the smallest square from which each circular plate is obtained.

Surface Finish

No Weld Repair Allowed

When conditioning of plate surfaces in conformity with provisions of ASTM A6 or A20 is not permitted (Inquiry).....\$3.00 (\$/cwt)

Descaling— both sides

| When steel contains: Thickness (inches) | Under 5% Nickel Minimum charge \$50.00 per plate | 5% and over Nickel Minimum charge \$75.00 per plate |
|--|---|--|
| Under 1/4" | 6.25 | 7.00 |
| 1/4" to 1/2" excl. | 4.75 | 6.00 |
| 1/2" to 3/4" excl. | 4.00 | 5.00 |
| 3/4" to 1" excl. | 3.50 | 4.75 |
| 1" to 1-1/2" excl. | 3.00 | 4.25 |
| 1-1/2" to 2" excl. | 2.50 | 4.00 |
| 2" and over | 2.00 | 4.50 |

Thickness over 6", widths other than 48" to 182", lengths other than 72" to 540' and pattern weights over

40,000 lbs.....Subject to Inquiry
Painting Extras.....Subject to Inquiry

Alloy Plate Products



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| Special Tolerance (Subject to inquiry) | \$/cwt |
|---|---------------|
| Not closer than 1/2 Standard Commercial Tolerances (More Restrictive Tolerances) | Inquire |
| Thickness or Weight | 1.50 |
| Length and/or Width | 1.00 |
| Camber | 1.00 |
| Flatness up to 3" | 2.00 |
| over 3" to 6" | 2.50 |
| over 6" to 12" | 3.50 |
| over 12" | Inquire |

Loading

Standard practice for mill loading is in lifts of five net tons and over. When lifts of less than five net tons are specified or required, the following extras apply:

| Specified Lift Weight | (\$/cwt) |
|-----------------------------------|-----------------|
| 10,000 lbs. or over | None |
| Under 10,000 lbs. thru 6,000 lbs. | .50 |
| Under 6,000 lbs | 1.00 |

Secured Lifts (Subject to Inquiry)

When the Purchaser specifies lifts secured with bands the following extra applies in addition to the loading extra above.....\$.25 (\$/cwt)

Outside Inspection

Witnessing of surface inspection, test cutting, and/or non-destructive examination.....\$1.00 (\$/cwt)
 Witnessing of mechanical testing only.....\$.25 (\$/cwt)

Special Marking (No marking will be done on more than one surface)

A character is a graphic symbol of any sort, such as a letter, figure, horizontal line, dash, diagonal line, punctuation mark, or other symbol or mark.

For any individual piece marking specified or required, other than marking in accordance with the provisions of **ASTM A6** or **ASTM A20**:

10 characters or less.....None
 Over 10 to 50 characters.....\$.25 (\$/cwt)
 Continuous line marking, AMS Specifications or Federal Standard 183.....Inquire

Requires descaling at the appropriate extra.

12" Rows.....\$1.00 (\$/cwt)*
 6" Rows.....\$1.20 (\$/cwt)*

* Minimum charge **\$50.00** per plate for **12"** rows and minimum charge **\$100.00** per plate on **6"** rows.

Special Stamping, Surfaces or Edges

Special stamping specified for pressure vessel or higher classifications in excess of requirements of **ASTM** or **ASME** pressure vessel specification:

25 characters.....\$.50(\$/cwt)
 Over 25 characters.....Inquire

Chemical Component Pricing

(Tables I thru XI)

Chemical component prices are computed from the following tables. These components are cumulative. All components are based on heat analysis. Any specifications other than listed in this publication are to be referred for acceptance and pricing.

TABLE I: Carbon C

| Carbon Price when analysis contains: | | | | |
|--------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| Maximum of Carbon Range | Both Nickel and Molybdenum (\$/cwt) | Nickel but no Molybdenum (\$/cwt) | Molybdenum but no Nickel (\$/cwt) | No Nickel or Molybdenum (\$/cwt) |
| To 0.32% incl. | 0.70 | 0.75 | 1.05 | 0.85 |
| 0.33 to 0.75% incl. | 0.10 | 0.15 | 0.20 | 0.25 |

Manganese (Mn)

When chromium is specified, use combined manganese and chromium Table III when manganese does not exceed 2.20% inclusive.

TABLE II: When No Chromium is Specified

| Manganese Price when Maximum of Carbon Range is: | | | | | |
|--|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Maximum Manganese Range | To .10% incl. (\$/cwt) | .11 to .20% incl. (\$/cwt) | .21 to .24% incl. (\$/cwt) | .25 to .28% incl. (\$/cwt) | .29 to .75% incl. (\$/cwt) |
| To 0.20% incl. | 0.50 | 0.45 | 0.40 | 0.30 | 0.25 |
| 0.21 to 0.40% incl. | 0.60 | 0.50 | 0.45 | 0.30 | 0.30 |
| 0.41 to 0.70% incl. | 0.70 | 0.60 | 0.45 | 0.35 | 0.35 |
| 0.71 to 1.00% incl. | 1.30 | 0.95 | 0.50 | 0.45 | 0.45 |
| 1.01 to 1.30% incl. | 1.75 | 1.30 | 0.60 | 0.60 | 0.60 |
| 1.31 to 1.60% incl. | 2.15 | 1.70 | 1.00 | 0.75 | 0.75 |
| 1.61 to 1.90% incl. | 2.70 | 2.20 | 1.40 | 1.05 | 1.00 |
| 1.91 to 2.20% incl. | 3.30 | 2.70 | 1.80 | 1.45 | 1.25 |

Alloy Plate Products



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Manganese (Mn) and Chromium (Cr)

Combined manganese and chromium price when maximum manganese does not exceed 2.20%.

TABLE III: When Maximum Chromium Does Not Exceed 1.80%

| Manganese and Chromium Price when Maximum of Chromium Range is: | | | | | | |
|---|---------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|
| Maximum of Carbon Range | To .40% incl. (\$/cwt) | .41 to .65% incl. (\$/cwt) | .66 to .90% incl. (\$/cwt) | .91 to 1.20% incl. (\$/cwt) | 1.21 to 1.50% incl. (\$/cwt) | 1.51 to 1.80% incl. (\$/cwt) |
| And when Maximum of Manganese Range is .20% | | | | | | |
| To .10% incl. | 1.05 | 1.65 | 2.25 | 2.75 | 3.50 | 4.20 |
| .11 to .20% incl. | 0.95 | 1.45 | 1.95 | 2.45 | 3.10 | 3.70 |
| .21 to .24% incl. | 0.55 | 0.80 | 1.15 | 1.50 | 2.00 | 2.40 |
| .25 to .28% incl. | 0.55 | 0.80 | 1.05 | 1.30 | 1.65 | 2.15 |
| .29 to .75% incl. | 0.55 | 0.80 | 1.05 | 1.30 | 1.65 | 1.95 |
| And when Maximum of Manganese Range is .21 to .40% | | | | | | |
| To .10% incl. | 1.15 | 1.75 | 2.35 | 2.85 | 3.60 | 4.40 |
| .11 to .20% incl. | 1.00 | 1.50 | 2.00 | 2.50 | 3.15 | 3.85 |
| .21 to .24% incl. | 0.55 | 0.80 | 1.15 | 1.50 | 2.05 | 2.55 |
| .25 to .28% incl. | 0.55 | 0.80 | 1.05 | 1.30 | 1.75 | 2.25 |
| .29 to .75% incl. | 0.55 | 0.80 | 1.05 | 1.30 | 1.70 | 2.05 |
| And when Maximum of Manganese Range is .41 to .70% | | | | | | |
| To .10% incl. | 1.40 | 2.00 | 2.60 | 3.15 | 3.95 | 4.65 |
| .11 to .20% incl. | 1.15 | 1.60 | 2.10 | 2.70 | 3.40 | 4.00 |
| .21 to .24% incl. | 0.60 | 0.85 | 1.25 | 1.70 | 2.20 | 2.60 |
| .25 to .28% incl. | 0.60 | 0.85 | 1.05 | 1.40 | 1.95 | 2.35 |
| .29 to .75% incl. | 0.60 | 0.85 | 1.05 | 1.40 | 1.80 | 2.10 |
| And when Maximum of Manganese Range is .71 to 1.00% | | | | | | |
| To .10% incl. | 1.90 | 2.60 | 3.10 | 3.75 | 4.45 | 5.20 |
| .11 to .20% incl. | 1.55 | 2.10 | 2.60 | 3.20 | 3.80 | 4.45 |
| .21 to .24% incl. | 0.95 | 1.25 | 1.65 | 2.10 | 2.55 | 3.00 |
| .25 to .28% incl. | 0.75 | 1.05 | 1.30 | 1.90 | 2.30 | 2.75 |
| .29 to .75% incl. | 0.75 | 1.05 | 1.30 | 1.65 | 1.95 | 2.60 |

continued next page

Alloy Plate Products



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TABLE III: When Maximum Chromium Does Not Exceed 1.80% (Cont)

| Manganese and Chromium Price when Maximum of Chromium Range is: | | | | | | |
|---|-----------------------|----------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|
| Maximum of Carbon Range | To.40% Incl. (\$/cwt) | .41 to .65% incl. (\$/cwt) | .66 to .90% incl. (\$/cwt) | .91 to 1.20% incl. (\$/cwt) | 1.21 to 1.50% incl. (\$/cwt) | 1.51 to 1.80% incl. (\$/cwt) |
| And when Maximum of Manganese Range is 1.01 to 1.30% | | | | | | |
| To .10% incl. | 2.40 | 3.00 | 3.60 | 4.20 | 4.95 | 5.65 |
| .11 to .20% incl. | 2.00 | 2.45 | 3.05 | 3.55 | 4.20 | 4.80 |
| .21 to .24% incl. | 1.15 | 1.55 | 2.00 | 2.40 | 2.90 | 3.30 |
| .25 to .28% incl. | .95 | 1.25 | 1.70 | 2.10 | 2.60 | 3.00 |
| .29 to .75% incl. | .95 | 1.20 | 1.55 | 1.80 | 2.45 | 2.85 |
| And when Maximum of Manganese Range is 1.31 to 1.60% | | | | | | |
| To .10% incl. | 2.90 | 3.60 | 4.10 | 4.75 | 5.45 | 6.15 |
| .11 to .20% incl. | 2.35 | 2.95 | 3.45 | 4.00 | 4.60 | 5.25 |
| .21 to .24% incl. | 1.50 | 2.00 | 2.35 | 2.75 | 3.20 | 3.60 |
| .25 to .28% incl. | 1.20 | 1.70 | 2.05 | 2.50 | 2.95 | 3.35 |
| .29 to .75% incl. | 1.15 | 1.50 | 1.75 | 2.15 | 2.75 | 3.15 |
| And when Maximum of Manganese Range is 1.61 to 1.90% | | | | | | |
| To .10% incl. | 3.50 | 4.20 | 4.70 | 5.25 | 5.95 | 6.75 |
| .11 to .20% incl. | 2.85 | 3.40 | 3.90 | 4.40 | 5.05 | 5.25 |
| .21 to .24% incl. | 1.80 | 2.35 | 2.70 | 3.05 | 3.50 | 4.00 |
| .25 to .28% incl. | 1.65 | 2.05 | 2.45 | 2.85 | 3.25 | 3.60 |
| .29 to .75% incl. | 1.40 | 1.70 | 2.10 | 2.50 | 3.00 | 3.55 |

**TABLE IV: When Maximum Chromium is 1.81% to 3.99% inclusive
When the maximum of the carbon range does not exceed .75%**

| Manganese and Chromium Price when Maximum of Chromium Range is: | | | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Maximum of Manganese Range | 1.81 to 2.25% incl.(\$/cwt) | 2.26 to 2.45% incl.(\$/cwt) | 2.46 to 2.70% incl.(\$/cwt) | 2.71 to 3.00% incl.(\$/cwt) | 3.01 to 3.30% incl.(\$/cwt) | 3.31 to 3.60% incl.(\$/cwt) | 3.61 to 3.99% incl.(\$/cwt) |
| To 1.00% incl. | 6.20 | 7.30 | 8.05 | 9.00 | 10.00 | 11.00 | 12.20 |
| 1.01 to 1.30% incl. | 6.70 | 7.80 | 8.55 | 9.50 | 10.50 | 11.50 | 12.70 |
| 1.31 to 1.60% incl. | 7.20 | 8.30 | 9.05 | 10.00 | 11.00 | 12.05 | 13.20 |
| 1.61 to 1.90% incl. | 7.70 | 8.80 | 9.60 | 10.50 | 11.50 | 12.55 | 13.70 |
| 1.91 to 2.20% incl. | 8.20 | 9.30 | 10.10 | 11.00 | 12.05 | 13.05 | 14.20 |

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TABLE V: Phosphorus (P) and Sulphur (S)

| Standard Maximum % Limits For Qualities Listed | Heat Analysis | | Product Analysis | |
|---|-----------------------|----------------------------------|-----------------------|-------------------|
| | Phosphorus Maximum | Sulfur Maximum | Phosphorus Maximum | Sulfur Maximum |
| Chemical/Structure | 0.035 | 0.040 | 0.045 | 0.050 |
| Pressure Vessel | --- | --- | 0.035 | 0.035 |
| Electric Furnace Practice | --- | --- | 0.025 | 0.025 |
| FineLine | 0.025 | 0.010 | 0.025 | 0.012 |
| FineLine Double-O-Five | 0.025 | 0.005 | 0.025 | 0.007 |
| Phosphorus and Sulfur | | Price | | |
| Standard Maximum Limits | | None | | |
| All Others | | See Restricted Chemistry section | | |

TABLE VI: Silicon (Si)

| Maximum of Silicon Range | Silicon Price (\$/cwt) | Maximum of Silicon Range | Silicon Price (\$/cwt) |
|--------------------------|------------------------|--------------------------|------------------------|
| To .40% incl. | None | 1.11 to 1.40% incl. | 1.30 |
| .41 to .50% incl. | 0.30 | 1.41 to 1.80% incl. | 1.75 |
| .51 to .80% incl. | 0.55 | 1.81 to 2.20% incl. | 2.30 |
| .81 to 1.10% incl. | 0.95 | | |

TABLE VII: Nickel (Ni)

| Maximum of Nickel Range | Nickel Price (\$/cwt) | Maximum of Nickel Range | Nickel Price (\$/cwt) |
|-------------------------|-----------------------|-------------------------|-----------------------|
| To .40% incl. | 1.70 | 3.26 to 3.75% incl. | 18.00 |
| .41 to .70% incl. | 2.85 | 3.76 to 4.50% incl. | 21.20 |
| .71 to 1.00% incl. | 4.30 | 4.51 to 5.50% incl. | 26.35 |
| 1.01 to 1.50% incl. | 6.30 | 5.51 to 6.50% incl. | 31.90 |
| 1.51 to 2.00% incl. | 8.85 | 6.51 to 7.50% incl. | 37.60 |
| 2.01 to 2.50% incl. | 11.35 | 7.51 to 8.50% incl. | 43.30 |
| 2.51 to 3.25% incl. | 14.45 | 8.51 to 10.00% incl. | 50.40 |

TABLE VIII: Molybdenum (Mo)

| Maximum of Molybdenum Range | Molybdenum Price (\$/cwt) | Maximum of Molybdenum Range | Molybdenum Price (\$/cwt) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| To .10% incl. | 1.40 | .36 to .45% incl. | 7.15 |
| .11 to .15% incl. | 2.25 | .46 to .65% incl. | 9.70 |
| .16 to .20% incl. | 3.10 | .66 to .80% incl. | 12.80 |
| .21 to .25% incl. | 3.95 | .81 to 1.10% incl. | 16.60 |
| .26 to .30% incl. | 4.85 | 1.11 to 1.40% incl. | 22.80 |
| .31 to .35% incl. | 5.80 | 1.41 to 1.70% incl. | 29.00 |

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TABLE IX: Vanadium (V)

| Minimum of Vanadium | Vanadium Price (\$/cwt) | | Minimum of Vanadium | Vanadium Price (\$/cwt) | |
|---------------------|-------------------------|---------------------------|---------------------|-------------------------|---------------------------|
| | Max. Carbon Over .10% | Max. Carbon .10% or Under | | Max. Carbon Over .10% | Max. Carbon .10% or Under |
| .01% Minimum | 0.30 | 0.30 | Over .20 to .25% | 3.70 | 3.90 |
| Over .01 to .03% | 0.70 | 0.75 | Over .25 to .30% | 4.40 | 4.65 |
| Over .03 to .05% | 0.95 | 1.00 | Over .30 to .35% | 5.10 | 5.40 |
| Over .05 to .10% | 1.55 | 1.65 | Over .35 to .40% | 5.80 | 6.15 |
| Over .10 to .15% | 2.30 | 2.35 | Over .40 to .45% | 6.55 | 6.90 |
| Over .15 to .20% | 3.00 | 3.15 | | | |

TABLE X: Titanium (Ti)

| Maximum of Titanium Range | Titanium Price when Maximum of Carbon Range is: | | | |
|---------------------------|---|----------------------------|----------------------------|--------------------|
| | To .15% incl. (\$/cwt) | .16 to .35% incl. (\$/cwt) | .36 to .55% incl. (\$/cwt) | Over .55% (\$/cwt) |
| To .01% incl. (see Note) | 0.45 | 0.40 | 0.30 | 0.25 |
| Over .01 to .05% incl. | 1.00 | 0.95 | 0.75 | 0.65 |
| Over .05 to .10% incl. | 1.75 | 1.60 | 1.35 | 1.20 |
| Over .10 to .15% incl. | 2.45 | 2.25 | 1.95 | 1.75 |
| Over .15 to .20% incl. | 3.15 | 2.90 | 2.55 | 2.25 |
| Over .20 to .25% incl. | 3.90 | 3.60 | 3.10 | 2.80 |

Note: Since Titanium is commonly used for insuring the effectiveness of Boron, no Titanium price applies if Titanium .01% minimum or under is specified in combination with Boron.

TABLE XI: Copper (Cu)

| Minimum of Copper Range | Copper Price (\$/cwt) | | Minimum of Copper Range | Copper Price (\$/cwt) | |
|-------------------------|------------------------|---------------------------|-------------------------|------------------------|---------------------------|
| | If Nickel Is Specified | If no Nickel Is Specified | | If Nickel Is Specified | If no Nickel Is Specified |
| To .20% incl. | 0.45 | 0.50 | .71 to 1.20% incl. | 2.20 | 2.30 |
| .21 to .40% incl. | 1.00 | 1.05 | 1.21 to 1.65% incl. | 3.10 | 3.20 |
| .41 to .70% incl. | 1.50 | 1.60 | | | |

TABLE XII: Boron (B)

| Boron | Boron Price (\$/cwt) |
|-----------------------|----------------------|
| If Boron is specified | 1.10 |

TABLE XIII: Zirconium (Zr)

| Minimum of Zirconium Range | Zirconium Price when Maximum of Carbon is: To .30% Incl. (\$/cwt) |
|----------------------------|--|
| To .01% incl. | 0.20 |
| Over .01 to .05% incl. | 0.60 |
| Over .05 to .10% incl. | 0.90 |
| Over .10 to .15% incl. | 1.20 |
| Over .15 to .20% incl. | 1.50 |

Note: Minimum Silicon content must be consistent with amount of Zirconium specified.

TABLE XIV: Columbium (Cb)

| Minimum of Columbium Range | Columbium Price when Maximum of Carbon Range is: | |
|----------------------------|---|--------------------|
| | To .15% Incl. (\$/cwt) | Over .15% (\$/cwt) |
| To .01% incl. | 0.40 | 0.30 |
| Over .01 to .03% incl. | 0.80 | 0.60 |
| Over .03 to .05% incl. | 1.20 | 0.90 |

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TABLE XV: Special Processing

| (1) When maximum of the range (unless stated otherwise) of alloying | (2) Also when Maximum of Carbon Range is: | | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | To .10% Incl. | .11 to .20% Incl. | .21 to .28% Incl. | .29 to .45% Incl. | .46 to .55% Incl. | .56 to .65% Incl. | .66 to .75% Incl. |
| Elements specified are within limits shown below. Also see (2) and (3) | (3) And when the maximum of the Manganese, or the combined total of maximum Manganese and Chromium specified exceeds amounts shown below, apply price shown on bottom line from appropriate Carbon Column. Price also applies on all combinations marked ♦ | | | | | | |
| Mn (or) Mn and Cr only | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.30% | 1.50% |
| Mo .40% or under | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 1.90 | 1.10 |
| Mo .41 to .60% Incl. | 2.20 | 2.10 | 1.90 | 1.40 | ♦ | ♦ | ♦ |
| Mo over .60% | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Ni 1.00% or under | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.00 | 1.10 |
| Ni 1.01 to 2.00% | 2.10 | 2.10 | 2.00 | 1.90 | 1.90 | 1.00 | ♦ |
| Ni 2.01 to 4.00% | 1.90 | 1.80 | 1.80 | 1.80 | 1.20 | ♦ | ♦ |
| Ni 4.01 to 5.50% | 1.00 | .90 | .80 | ♦ | ♦ | ♦ | ♦ |
| Ni over 5.50% | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Ni 1.00% or under and Mo .40% or under | 2.30 | 2.30 | 2.30 | 2.00 | 2.00 | 1.80 | 1.10 |
| Ni 1.01 to 2.00% Incl. and Mo .30% or under | 1.90 | 1.90 | 1.90 | 1.90 | 1.50 | ♦ | ♦ |
| Ni 1.01 to 2.00% Incl. and Mo over .30% | 1.30 | 1.20 | 1.10 | 1.10 | ♦ | ♦ | ♦ |
| Ni over 2.00% and Mo any amount | 1.00 | .90 | .80 | ♦ | ♦ | ♦ | ♦ |
| Si .51 to 1.50% Incl. | 2.30 | 2.20 | 2.20 | 2.20 | 2.20 | 1.80 | 1.00 |
| Si over 1.50 to 2.50% Incl. | 1.60 | 1.50 | 1.40 | 1.40 | 1.40 | 1.40 | ♦ |
| Si over 2.50% | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| V min. .01 to .25% Incl. | 2.30 | 2.20 | 2.20 | 2.20 | 2.20 | 1.80 | 1.00 |
| V over .35% max. or over .25% min. | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Al over .20% max. or over .15% min. | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Co over .60% max. or over .50% min. | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Cb over .20% max. or over .50% min. | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Cu over 2.50% | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Ti over .20% max. or over .15% min. | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| W any amount | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Zr over .25% | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ |
| Component Price: (\$/cwt) | \$0.50 | \$0.50 | \$0.50 | \$0.50 | \$0.50 | \$0.50 | \$0.75 |

Alloy Plate Products



ArcelorMittal USA LLC

BRIDGE PRICING

The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted

High Performance (HPS) High-Strength Steel Plates for Bridges ASTM Equivalent Subject to Impact Testing

Frequency of Impact Testing

NON FRACTURE CRITICAL
FRACTURE CRITICAL

Impact testing frequency shall be in accordance with ASTM A673, "Sampling Procedure for Impact Testing of Structural Steel" All grades furnished shall have frequency (P) Plate Testing or (PP) Plate Testing Both Ends in compliance with ASTM A709b. To the following values only. (1)

| ASTM A709 Grade | Thickness-Inches | Zone 1 at -30 F FT. LB | Zone 2 at -30 F FT. LB | Zone 3 at -30 F FT. LB |
|---------------------------|------------------|---------------------------|---------------------------|---------------------------|
| HPS 100WT (HPS 690 WT) | Up to 2-1/2" max | NON FRACTURE CRITICAL | | |
| | | 25 | 25 | 25 |
| HPS 100WT (HPS 690 WT) | | 35 | FRACTURE CRITICAL 35 | N/A |

(1) All other impact values are subject to inquiry for acceptance and/or pricing

High Performance (HPS) High-Strength Steel Plates for Bridges ASTM Equivalent Subject to Impact Testing (Non Fracture Critical and Fracture Critical)

(\$/cwt)

| ASTM A709 Grade and ZONE | Thickness-Inches | |
|---|------------------------|------------------------|
| HPS 100W T and HPS 100W F (HPS 690 WT) and (HPS 690 WF) ZONE 1,2, and 3 | 3/16" TO 3/8" excl. | 3/8" TO 2-12" incl. |
| | 50.70 | 47.70 |

The extras include applicable extras for Chemistry, Testing (where necessary), Flattening to standard tolerance, and Longitudinal Charpy Impact Test Frequency (PP) but no other extra unless otherwise noted.

ASTM A709 GR HPS 100W T and HPS 100W F Zone 1 and 2, and ZONE 3 NFC

(\$/cwt)

| Width - Inches | Thickness - Inches | | | | | |
|-----------------------|--------------------|----------------------|----------------------|-------------------|----------------------|----------------------|
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 147.95 | 148.95 | 148.95 |
| 60 to 72 excl. | 155.45 | 152.45 | 151.45 | 146.45 | 147.45 | 147.45 |
| 72 to 96 incl. | 151.95 | 148.95 | 147.95 | 142.95 | 143.95 | 143.95 |
| Over 96 to 120 incl. | 158.95* | 157.45* | 151.45* | 142.95 | 143.95 | 143.95 |
| Over 120 to 132 incl. | 161.95* | 160.45* | 154.45* | 144.95 | 145.95 | 145.95 |
| Over 132 to 150 incl. | | | | | 148.45* | 148.45* |

* Refer for acceptance.

Alloy Plate Products



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Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| 1345 AS ROLLED | | GRADE EXTRA | | \$1.25 (\$/cwt) | | | | | |
|-----------------------|--------------------|-------------------|-------------------|------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 101.50 | 102.50 | 102.50 | 102.50 | 104.50 | 121.00 |
| 60 to 72 excl. | 106.00 | 103.00 | 94.00 | 100.00 | 101.00 | 101.00 | 101.00 | 103.00 | 119.50 |
| 72 to 96 incl. | 102.50 | 99.50 | 94.00 | 96.50 | 97.50 | 97.50 | 97.50 | 99.50 | 116.00 |
| Over 96 to 120 incl. | 109.50* | 108.00* | 94.00* | 96.50 | 97.50 | 97.50 | 97.50 | 99.50 | 116.00 |
| Over 120 to 132 incl. | 112.50* | 111.00* | 94.00* | 98.50 | 99.50 | 99.50 | 99.50 | 101.00 | 117.50 |
| Over 132 to 150 incl. | | | | 94.00 | 102.00* | 102.00* | 102.00* | 105.50* | 122.00* |

| 4130 MILL EDGE | | | | GRADE EXTRA | | \$5.55 (\$/cwt) | | | (Over 6") STRESS RELIEVED | | | |
|-----------------------|--------------------|-------------------|-------------------|------------------|---------------------|-----------------------|-----------------------|-------------------|--|--------------------|---------------------|----------|
| | | | | | | | | | If ordered cut edge and unheat treated over 1-1/2" add \$2.50 cwt. | | | |
| Width - Inches | Thickness - Inches | | | | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | Over 6 to 12 incl. | Over 12 to 14 incl. | |
| Under 60 excl. | | | | 105.80 | 106.80 | 106.80 | 106.80 | 108.80 | 125.30 | 138.80 | 135.30 | |
| 60 to 72 excl. | 110.30 | 107.30 | 106.30 | 104.30 | 105.30 | 105.30 | 105.30 | 107.30 | 123.80 | 137.30 | 133.80 | |
| 72 to 96 incl. | 106.80 | 103.80 | 102.80 | 100.80 | 101.80 | 101.80 | 101.80 | 103.80 | 120.30 | 133.80 | 130.30 | |
| Over 96 to 120 incl. | 113.80* | 112.30* | 106.30* | 100.80 | 101.80 | 101.80 | 101.80 | 103.80 | 120.30 | 133.80 | 130.30 | |
| Over 120 to 132 incl. | 116.80* | 115.30* | 109.30* | 102.80 | 103.80 | 103.80 | 103.80 | 105.30 | 121.80 | 135.30 | | |
| Over 132 to 150 incl. | | | | | 106.30* | 106.30* | 106.30* | 109.80* | 126.30* | 139.80* | | |

| | | | | | | | | | | | |
|-----------------------|--------------------|-------------------|-------------------|------------------|---------------------|-------------------|-------------------|---|-------------------|--------------------|---------------------|
| 4140 & 4142 | | | | GRADE EXTRA | | \$5.80(\$/cwt) | | (Over 2" to 9") STRESS RELIEVED (Over 9") NORMALIZED & TEMPERED If mill edge ordered to 2" deduct \$2.50 cwt. Special cutting practice from above | | | |
| Width - Inches | Thickness - Inches | | | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | Over 6 to 9 incl. | Over 9 to 12 incl. | Over 12 to 14 incl. |
| Under 60 excl. | | | | 108.55 | 109.55 | 118.05 | 120.05 | 122.55 | 139.05 | 144.55 | 141.05 |
| 60 to 72 excl. | 113.05 | 110.05 | 109.05 | 107.05 | 108.05 | 116.55 | 118.55 | 121.05 | 137.55 | 143.05 | 139.55 |
| 72 to 96 incl. | 109.55 | 106.55 | 105.55 | 103.55 | 104.55 | 113.05 | 115.05 | 117.55 | 134.05 | 139.55 | 136.05 |
| Over 96 to 120 incl. | 116.55* | 115.05* | 109.05* | 103.55 | 104.55 | 113.05 | 115.05 | 117.55 | 134.05 | 139.55 | 136.05 |
| Over 120 to 132 incl. | 119.55* | 118.05* | 112.05* | 105.55 | 106.55 | 115.05 | 116.55 | 119.05 | 135.55 | 141.05 | |
| Over 132 to 150 incl. | | | | | 109.05* | 117.55* | 121.05* | 123.55* | 140.05* | 145.55* | |

* Refer widths over 150" and sizes in shaded area for acceptance.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| 4150 | | | | GRADE EXTRA \$8.35 (\$/cwt) | | | | (Over 5/8") STRESS RELIEVED If heat treat specified to 5/8" deduct \$2.50 cwt and add appropriate heat treating extra. | | | |
|-----------------------|--------------------|-------------------|-------------------|----------------------------------|-----------------------|---------------------|-----------------------|---|-------------------|--------------------|---------------------|
| Width - Inches | Thickness - Inches | | | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 5/8 incl. | Over 5/8 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 12 incl. | Over 12 to 14 incl. |
| Under 60 excl. | | | | 111.10 | 112.10 | 120.60 | 120.60 | 120.60 | 122.60 | 141.60 | 138.10 |
| 60 to 72 excl. | 115.60 | 112.60 | 111.60 | 109.60 | 110.60 | 119.10 | 119.10 | 119.10 | 121.10 | 140.10 | 136.60 |
| 72 to 96 incl. | 112.10 | 109.10 | 108.10 | 106.10 | 107.10 | 115.60 | 115.60 | 115.60 | 117.60 | 136.60 | 133.10 |
| Over 96 to 120 incl. | 119.10* | 117.60* | 111.60* | 106.10 | 107.10 | 115.60 | 115.60 | 115.60 | 117.60 | 136.60 | 133.10 |
| Over 120 to 132 incl. | 122.10* | 120.60* | 114.60* | 108.10 | 109.10 | 117.60 | 117.60 | 117.60 | 119.10 | 138.10 | |
| Over 132 to 150 incl. | | | | | 111.60* | 120.10* | 120.10* | 120.10* | 123.60* | 142.60* | |

| E4340 - STRESS RELIEVED | | | | GRADE EXTRA \$16.35 (\$/cwt) TO 4.5" GRADE EXTRA \$19.10 (\$/cwt) OVER 4.5" | | | | (TO 4-1/2") ELECTRIC FURNACE PRACTICE (OVER 4-1/2") FINELINE | | | |
|-------------------------|--------------------|-------------------|-------------------|--|---------------------|-----------------------|-----------------------|---|-----------------------|------------------------|---------------------|
| Width - Inches | Thickness - Inches | | | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 4-1/2 incl. | Over 4-1/2 to 12 incl. | Over 12 to 14 incl. |
| Under 60 excl. | | | | 127.60 | 128.60 | 128.60 | 128.60 | 130.60 | 149.60 | 152.35 | 148.85 |
| 60 to 72 excl. | 135.10 | 132.10 | 131.10 | 126.10 | 127.10 | 127.10 | 127.10 | 129.10 | 148.10 | 150.85 | 147.35 |
| 72 to 96 incl. | 131.60 | 128.60 | 127.60 | 122.60 | 123.60 | 123.60 | 123.60 | 125.60 | 144.60 | 147.35 | 143.85 |
| Over 96 to 120 incl. | 138.60* | 137.10* | 131.10* | 122.60 | 123.60 | 123.60 | 123.60 | 125.60 | 144.60 | 147.35 | 143.85 |
| Over 120 to 132 incl. | 141.60* | 140.10* | 134.10* | 124.60 | 125.60 | 125.60 | 125.60 | 127.10 | 146.10 | 148.85 | |
| Over 132 to 150 incl. | | | | | 128.10* | 128.10* | 128.10* | 131.60* | 150.60* | 153.35* | |

| 6150 - STRESS RELIEVED | | | GRADE EXTRA | | \$5.45 (\$/cwt) | | | | | |
|------------------------|--------------------|-------------------|-------------------|------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|--|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | |
| Under 60 excl. | | | | 116.70 | 117.70 | 117.70 | 117.70 | 119.70 | 138.70 | |
| 60 to 72 excl. | 127.20 | 121.20 | 120.20 | 115.20 | 116.20 | 116.20 | 116.20 | 118.20 | 137.20 | |
| 72 to 96 incl. | 123.70 | 117.70 | 116.70 | 111.70 | 112.70 | 112.70 | 112.70 | 114.70 | 133.70 | |
| Over 96 to 120 incl. | 130.70* | 126.20* | 120.20* | 111.70 | 112.70 | 112.70 | 112.70 | 114.70 | 133.70 | |
| Over 120 to 132 incl. | 133.70* | 129.20* | 123.20* | 113.70 | 114.70 | 114.70 | 114.70 | 116.20 | 135.20 | |
| Over 132 to 150 incl. | | | | | 117.20* | 117.20* | 117.20* | 120.70* | 139.70* | |

* Refer widths over 150" and sizes in shaded area for acceptance.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| 8620 | | GRADE EXTRA \$8.75 (\$/cwt) TO 3" GRADE EXTRA \$11.25 (\$/cwt) OVER 3" | | | | | | | |
|-----------------------|--------------------|---|-------------------|------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 109.00 | 110.00 | 110.00 | 110.00 | 114.50 | 131.00 |
| 60 to 72 excl. | 113.50 | 110.50 | 109.50 | 107.50 | 108.50 | 108.50 | 108.50 | 113.00 | 129.50 |
| 72 to 96 incl. | 110.00 | 107.00 | 106.00 | 104.00 | 105.00 | 105.00 | 105.00 | 109.50 | 126.00 |
| Over 96 to 120 incl. | 117.00* | 115.50* | 109.50* | 104.00 | 105.00 | 105.00 | 105.00 | 109.50 | 126.00 |
| Over 120 to 132 incl. | 120.00* | 118.50* | 112.50* | 106.00 | 107.00 | 107.00 | 107.00 | 111.00 | 127.50 |
| Over 132 to 150 incl. | | | | | 109.50* | 109.50* | 109.50* | 115.50* | 132.00* |

| ASTM A202 or ASME SA202 GRADE A PRESSURE VESSEL QUALITY | | GRADE EXTRA \$6.15 (\$/cwt) TO 2" | | | | | | | |
|--|--------------------|-----------------------------------|-------------------|------------------|---------------------|-----------------------|-----------------------|----------|----------|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | | |
| Under 60 excl. | | | | | \$106.40 | \$107.40 | \$107.40 | \$107.40 | |
| 60 to 72 excl. | 110.90 | \$107.90 | \$106.90 | 104.90 | 105.90 | 105.90 | 105.90 | 105.90 | |
| 72 to 96 incl. | 107.40 | 104.40 | 103.40 | 101.40 | 102.40 | 102.40 | 102.40 | 102.40 | |
| Over 96 to 120 incl. | 114.40* | 112.90* | 106.90* | 101.40 | 102.40 | 102.40 | 102.40 | 102.40 | |
| Over 120 to 132 incl. | 117.40* | 115.90* | 109.90* | 103.40 | 104.40 | 104.40 | 104.40 | 104.40 | |
| Over 132 to 150 incl. | | | | | 106.90* | 106.90* | 106.90* | 106.90* | |

| ASTM A202 or ASME SA202 GRADE B PRESSURE VESSEL QUALITY | | GRADE EXTRA \$5.20 (\$/cwt) TO 2" | | | | | | | |
|--|--------------------|-----------------------------------|-------------------|------------------|---------------------|-----------------------|-----------------------|---------|----------|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | | |
| Under 60 excl. | | | | 105.45 | 106.45 | 106.45 | 106.45 | 106.45 | |
| 60 to 72 excl. | 109.95 | 106.95 | 105.95 | 103.95 | 104.95 | 104.95 | 104.95 | 104.95 | |
| 72 to 96 incl. | 106.45 | 103.45 | 102.45 | 100.45 | 101.45 | 101.45 | 101.45 | 101.45 | |
| Over 96 to 120 incl. | 113.45* | 111.95* | 105.95* | 100.45 | 101.45 | 101.45 | 101.45 | 101.45 | |
| Over 120 to 132 incl. | 116.45* | 114.95* | 108.95* | 102.45 | 103.45 | 103.45 | 103.45 | 103.45 | |
| Over 132 to 150 incl. | | | | | 105.95* | 105.95* | 105.95* | 105.95* | |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A203 or ASME SA203 GRADE E PRESSURE VESSEL QUALITY | | | GRADE EXTRA \$20.75 (\$/cwt) TO 2" GRADE EXTRA \$20.65 (\$/cwt) OVER 2"-4" | | | NORMALIZED | | | |
|--|--------------------|-------------------|---|------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 132.00 | 133.00 | 133.00 | 133.00 | 132.90 | 134.90 |
| 60 to 72 excl. | 142.50 | 136.50 | 135.50 | 130.50 | 131.50 | 131.50 | 131.50 | 131.40 | 133.40 |
| 72 to 96 incl. | 139.00 | 133.00 | 132.00 | 127.00 | 128.00 | 128.00 | 128.00 | 127.90 | 129.90 |
| Over 96 to 120 incl. | 146.00* | 141.50* | 135.50* | 127.00 | 128.00 | 128.00 | 128.00 | 127.90 | 129.90 |
| Over 120 to 132 incl. | 149.00* | 144.50* | 138.50* | 129.00 | 130.00 | 130.00 | 130.00 | 129.90 | 131.40 |
| Over 132 to 150 incl. | | | | | 132.50* | 132.50* | 132.50* | 132.40* | 135.90* |

| ASTM A204 or ASME SA204 GRADE A PRESSURE VESSEL QUALITY | | | | GRADE EXTRA \$13.10 (\$/cwt) TO 2" GRADE EXTRA \$12.65 (\$/cwt) OVER 2" | | | | 5/16' AND UNDER - NORMALIZED OVER 5/16" TO 1-1/2' - AS ROLLED OVER 1-1/2" - NORMALIZED | | | |
|--|-----------------------------|-------------------|---------|--|-----------------------|---------------------|-----------------------|--|-------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | | 113.35 | 114.35 | 114.35 | 125.35 | 124.90 | 126.90 | 145.90 |
| 60 to 72 excl. | 134.85 | 128.85 | 127.85 | 113.85 | 111.85 | 112.85 | 112.85 | 123.85 | 123.40 | 125.40 | 144.40 |
| 72 to 96 incl. | 131.35 | 125.35 | 124.35 | 110.35 | 108.35 | 109.35 | 109.35 | 120.35 | 119.90 | 121.90 | 140.90 |
| Over 96 to 120 incl. | 138.35* | 133.85* | 127.85* | 113.85* | 108.35 | 109.35 | 109.35 | 120.35 | 119.90 | 121.90 | 140.90 |
| Over 120 to 132 incl. | 141.35* | 136.85* | 130.85* | 116.85* | 110.35 | 111.35 | 111.35 | 122.35 | 121.90 | 123.40 | 142.40 |
| Over 132 to 150 incl. | | | | | | 113.85* | 113.85* | 124.85* | 124.40* | 127.90* | 146.90* |

| ASTM A204 or ASME SA204 GRADE B PRESSURE VESSEL QUALITY | | | GRADE EXTRA \$13.10 (\$/cwt) TO 2" GRADE EXTRA \$12.65 (\$/cwt) OVER 2" | | | | 5/16' AND UNDER - NORMALIZED OVER 5/16" TO 1-1/2' - AS ROLLED OVER 1-1/2" - NORMALIZED | | | |
|--|--------------------|-------------------|--|-------------------|-----------------------|---------------------|--|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | (\$/cwt) | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | | 113.35 | 114.35 | 113.90 | 124.90 | 126.90 | 145.90 |
| 60 to 72 excl. | 134.85 | 128.85 | 127.85 | 113.85 | 111.85 | 112.85 | 112.40 | 123.40 | 125.40 | 144.40 |
| 72 to 96 incl. | 131.35 | 125.35 | 124.35 | 110.35 | 108.35 | 109.35 | 108.90 | 119.90 | 121.90 | 140.90 |
| Over 96 to 120 incl. | 138.35* | 133.85* | 127.85* | 113.85* | 108.35 | 109.35 | 108.90 | 119.90 | 121.90 | 140.90 |
| Over 120 to 132 incl. | 141.35* | 136.85* | 130.85* | 116.85* | 110.35 | 111.35 | 110.90 | 121.90 | 123.40 | 142.40 |
| Over 132 to 150 incl. | | | | | | 113.85* | 113.40* | 124.40* | 127.90* | 146.90* |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A204 or ASME SA204 GRADE C PRESSURE VESSEL QUALITY | | | GRADE EXTRA \$12.65 (\$/cwt) TO 2" GRADE EXTRA \$12.60 (\$/cwt) OVER 2" | | | NORMALIZED | | | |
|--|-----------------------------|-------------------|--|-----------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 123.90 | 124.90 | 124.90 | 124.90 | 124.85 | 126.85 |
| 60 to 72 excl. | 134.40 | 128.40 | 127.40 | 122.40 | 123.40 | 123.40 | 123.40 | 123.35 | 125.35 |
| 72 to 96 incl. | 130.90 | 124.90 | 123.90 | 118.90 | 119.90 | 119.90 | 119.90 | 119.85 | 121.85 |
| Over 96 to 120 incl. | 137.90* | 133.40* | 127.40* | 118.90 | 119.90 | 119.90 | 119.90 | 119.85 | 121.85 |
| Over 120 to 132 incl. | 140.90* | 136.40* | 130.40* | 120.90 | 121.90 | 121.90 | 121.90 | 121.85 | 123.35 |
| Over 132 to 150 incl. | | | | | 124.40* | 124.40* | 124.40* | 124.35* | 127.85* |

| ASTM A353 FINELINE PRACTICE VACUUM IMPROVED PRESSURE VESSEL QUALITY DOUBLE NORMALIZED & TEMPERED | | | GRADE EXTRA \$59.00 (\$/cwt) TO 3/4" BELOW REQUIRE SURFACE FINISH AND THE APPROPRIATE EXTRA IS INCLUDED | | | TCVN - LATERAL EXPANSION NOT LESS THAN .015" AT -320F ,REPORT % SHEAR AND FT. LBS. FOR INFO | | |
|--|--------------------|----------------------|---|--------|--------------------------|---|--------------------------|----------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 excl. | 3/8 | Over 3/8 to 1/2 incl. | 1/2 | Over 1/2 to 3/4 incl. | 3/4 |
| Under 60 excl. | | | | 192.40 | 187.40 | 186.40 | 187.40 | 187.15 |
| 60 to 72 excl. | 203.90 | 196.90 | 195.90 | 190.90 | 185.90 | 184.90 | 185.90 | 185.65 |
| 72 to 96 incl. | 200.40 | 193.40 | 192.40 | 187.40 | 182.40 | 181.40 | 182.40 | 182.15 |
| Over 96 to 120 incl. | 207.40* | 201.90* | 195.90* | 187.40 | 182.40 | 181.40 | 182.40 | 182.15 |
| Over 120 to 132 incl. | 210.40* | 204.90* | 198.90* | 189.40 | 184.40 | 183.40 | 184.40 | 184.15 |
| Over 132 to 136 incl. | | | | | | | 186.90* | 186.65* |

| ASTM A387 or ASME SA 387 GRADE 5 PRESSURE VESSEL QUALITY NORMALIZED & TEMPERED OR ANNEALED | | | GRADE EXTRA \$30.40 (\$/cwt) | | | | | | |
|--|--------------------|-------------------|------------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 147.15 | 148.15 | 148.15 | 148.15 | 150.15 | 169.15 |
| 60 to 72 excl. | 157.65 | 151.65 | 147.65 | 145.65 | 146.65 | 146.65 | 146.65 | 148.65 | 167.65 |
| 72 to 96 incl. | 154.15 | 148.15 | 144.15 | 142.15 | 143.15 | 143.15 | 143.15 | 145.15 | 164.15 |
| Over 96 to 120 incl. | 161.15* | 156.65* | 147.65* | 142.15 | 143.15 | 143.15 | 143.15 | 145.15 | 164.15 |
| Over 120 to 132 incl. | 164.15* | 159.65* | 150.65* | 144.15 | 145.15 | 145.15 | 145.15 | 146.65 | 165.65 |
| Over 132 to 150 incl. | | | | | 147.65* | 147.65* | 147.65* | 151.15* | 170.15* |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

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| ASTM A387 or ASME SA387 GRADE 11 PRESSURE VESSEL QUALITY NORMALIZED & TEMPERED OR ANNEALED | | GRADE EXTRA \$16.60 (\$/cwt) | | | | | | |
|--|--------------------|------------------------------|-------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 133.35 | 134.35 | 134.35 | 134.35 | 136.35 |
| 60 to 72 excl. | 143.85 | 137.85 | 136.85 | 131.85 | 132.85 | 132.85 | 132.85 | 134.85 |
| 72 to 96 incl. | 140.35 | 134.35 | 133.35 | 128.35 | 129.35 | 129.35 | 129.35 | 131.35 |
| Over 96 to 120 incl. | 147.35* | 142.85* | 136.85* | 128.35 | 129.35 | 129.35 | 129.35 | 131.35 |
| Over 120 to 132 incl. | 150.35* | 145.85* | 139.85* | 130.35 | 131.35 | 131.35 | 131.35 | 132.85 |
| Over 132 to 150 incl. | | | | | 133.85* | 133.85* | 133.85* | 137.35* |

| ASTM A387 or ASME SA387 GRADE 12 PRESSURE VESSEL QUALITY NORMALIZED & TEMPERED OR ANNEALED | | GRADE EXTRA \$14.85 (\$/cwt) | | | | | | |
|--|--------------------|------------------------------|-------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 131.60 | 132.60 | 132.60 | 132.60 | 134.60 |
| 60 to 72 excl. | 142.10 | 136.10 | 135.10 | 130.10 | 131.10 | 131.10 | 131.10 | 133.10 |
| 72 to 96 incl. | 138.60 | 132.60 | 131.60 | 126.60 | 127.60 | 127.60 | 127.60 | 129.60 |
| Over 96 to 120 incl. | 145.60* | 141.10* | 135.10* | 126.60 | 127.60 | 127.60 | 127.60 | 129.60 |
| Over 120 to 132 incl. | 148.60* | 144.10* | 138.10* | 128.60 | 129.60 | 129.60 | 129.60 | 131.10 |
| Over 132 to 150 incl. | | | | | 132.10* | 132.10* | 132.10* | 135.60* |

| ASTM A387 or ASME SA387 GRADE 21 PRESSURE VESSEL QUALITY NORMALIZED & TEMPERED OR ANNEALED | | GRADE EXTRA \$31.10 (\$/cwt) | | | | | | |
|--|--------------------|------------------------------|-------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 147.85 | 148.85 | 148.85 | 148.85 | 150.85 |
| 60 to 72 excl. | 158.35 | 152.35 | 151.35 | 146.35 | 147.35 | 147.35 | 147.35 | 149.35 |
| 72 to 96 incl. | 154.85 | 148.85 | 147.85 | 142.85 | 143.85 | 143.85 | 143.85 | 145.85 |
| Over 96 to 120 incl. | 161.85* | 157.35* | 151.35* | 142.85 | 143.85 | 143.85 | 143.85 | 145.85 |
| Over 120 to 132 incl. | 164.85* | 160.35* | 154.35* | 144.85 | 145.85 | 145.85 | 145.85 | 147.35 |
| Over 132 to 150 incl. | | | | | 148.35* | 148.35* | 148.35* | 151.85* |

* Refer widths over 150" and sizes in shaded area for acceptance.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A387 or ASME SA387 GRADE 22 PRESSURE VESSEL QUALITY NORMALIZED & TEMPERED OR ANNEALED | | | GRADE EXTRA \$29.15 (\$/cwt) | | | | | |
|--|--------------------|-------------------|------------------------------|-----------------------|---------------------|-----------------------|----------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | Under 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over1-1/2 to 3 incl. | Over 3 to 4 incl. |
| Under 60 excl. | | | | 145.90 | 146.90 | 146.90 | 146.90 | 148.90 |
| 60 to 72 excl. | 156.40 | 150.40 | 149.40 | 144.40 | 145.40 | 145.40 | 145.40 | 147.40 |
| 72 to 96 incl. | 152.90 | 146.90 | 145.90 | 140.90 | 141.90 | 141.90 | 141.90 | 143.90 |
| Over 96 to 120 incl. | 159.90* | 155.40* | 149.40* | 140.90 | 141.90 | 141.90 | 141.90 | 143.90 |
| Over 120 to 132 incl. | 162.90* | 158.40* | 152.40* | 142.90 | 143.90 | 143.90 | 143.90 | 145.40 |
| Over 132 to 150 incl. | | | | | 146.40* | 146.40* | 146.40* | 149.90* |

| ASTM A514 GRADE A QUENCHED & TEMPERED | | GRADE EXTRA \$10.15 (\$/cwt) | | | |
|--|----------------------|------------------------------|--------------------------|------------------------|--------------------------|
| Width - Inches | Thickness - Inches | | | | (\$/cwt) |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/4 incl. |
| Under 60 excl. | | | 126.90 | 127.90 | 127.90 |
| 60 to 72 excl. | 131.40 | 130.40 | 125.40 | 126.40 | 126.40 |
| 72 to 96 incl. | 127.90 | 126.90 | 121.90 | 122.90 | 122.90 |
| Over 96 to 120 incl. | 136.40* | 130.40* | 121.90 | 122.90 | 122.90 |
| Over 120 to 132 incl. | 139.40* | 133.40* | 123.90 | 124.90 | 124.90 |
| Over 132 to 150 incl. | | | | 127.40* | 127.40* |

| ASTM A514 GRADE B QUENCHED & TEMPERED & T1A | | GRADE EXTRA \$8.05 (\$/cwt) | | | * BRINELL 321 (TO 1-1/4"), BRINELL 340 (TO 1") , BRINELL 360 (TO 3/4") QUENCHED & TEMPERED | |
|--|-----------------------------|-----------------------------|-----------------------|---------------------|--|--|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/4 incl. | |
| Under 60 excl. | | | 124.80 | 125.80 | 125.80 | |
| 60 to 72 excl. | 129.30 | 128.30 | 123.30 | 124.30 | 124.30 | |
| 72 to 96 incl. | 125.80 | 124.80 | 119.80 | 120.80 | 120.80 | |
| Over 96 to 120 incl. | 134.30* | 128.30* | 119.80 | 120.80 | 120.80 | |
| Over 120 to 132 incl. | 137.30* | 131.30* | 121.80 | 122.80 | 122.80 | |
| Over 132 to 150 incl. | | | | 125.30* | 125.30* | |

*Furnished to chemistry of applicable A514 specification and minimum Brinell only; no other mechanical properties.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A514 GRADE E QUENCHED & TEMPERED | | | GRADE EXTRA \$19.00 (\$/cwt) TO 4" GRADE EXTRA \$21.40 (\$/cwt) OVER 4"-6" | | | | | |
|--|-----------------------------|----------------------|---|------------------------|--------------------------|-----------------------------|----------------------|----------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | 135.75 | 136.75 | 136.75 | 136.75 | 138.75 | 160.15 |
| 60 to 72 excl. | 140.25 | 139.25 | 134.25 | 135.25 | 135.25 | 135.25 | 137.25 | 158.65 |
| 72 to 96 incl. | 136.75 | 135.75 | 130.75 | 131.75 | 131.75 | 131.75 | 133.75 | 155.15 |
| Over 96 to 120 incl. | 145.25* | 139.25* | 130.75 | 131.75 | 131.75 | 131.75 | 133.75 | 155.15 |
| Over 120 to 132 incl. | 148.25* | 142.25* | 132.75 | 133.75 | 133.75 | 133.75 | 135.25 | 156.65 |
| Over 132 to 150 incl. | | | | 136.25 | 136.25 | 136.25 | 139.75 | 161.15 |

| ASTM A514 GRADE F QUENCHED & TEMPERED & T1 | | GRADE EXTRA \$19.05 (\$/cwt) | | | * BRINELL 321 (TO 2-1/2"),BRINELL 340 (TO 2"), BRINELL 360 (TO 1-1/2") QUENCHED & TEMPERED | |
|---|----------------------|------------------------------|--------------------------|------------------------|--|------------------------------|
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2-1/2 incl. |
| Under 60 excl. | | | 135.80 | 136.80 | 136.80 | 136.80 |
| 60 to 72 excl. | 140.30 | 139.30 | 134.30 | 135.30 | 135.30 | 135.30 |
| 72 to 96 incl. | 136.80 | 135.80 | 130.80 | 131.80 | 131.80 | 131.80 |
| Over 96 to 120 incl. | 145.30* | 139.30* | 130.80 | 131.80 | 131.80 | 131.80 |
| Over 120 to 132 incl. | 148.30* | 142.30* | 132.80 | 133.80 | 133.80 | 133.80 |
| Over 132 to 150 incl. | | | | 136.30* | 136.30* | 136.30* |

*Furnished to chemistry of applicable A514 specification and minimum Brinell only; no other mechanical properties.

| ASTM A514 GRADE H QUENCHED & TEMPERED & T1B | | GRADE EXTRA \$11.75 (\$/cwt) | | | * BRINELL 321 (TO 2"),BRINELL 340(TO1-1/2"), BRINELL 360 (TO 1") QUENCHED & TEMPERED | |
|--|----------------------|------------------------------|-----------------------|---------------------|--|-----------------------|
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. |
| Under 60 excl. | | | 128.50 | 129.50 | 129.50 | 129.50 |
| 60 to 72 excl. | 133.00 | 132.00 | 127.00 | 128.00 | 128.00 | 128.00 |
| 72 to 96 incl. | 129.50 | 128.50 | 123.50 | 124.50 | 124.50 | 124.50 |
| Over 96 to 120 incl. | 138.00* | 132.00* | 123.50 | 124.50 | 124.50 | 124.50 |
| Over 120 to 132 incl. | 141.00* | 135.00* | 125.50 | 126.50 | 126.50 | 126.50 |
| Over 132 to 150 incl. | | | | 129.00* | 129.00* | 129.00* |

*Furnished to chemistry of applicable A514 specification and minimum Brinell only; no other mechanical properties.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A514 GRADE Q QUENCHED & TEMPERED & T1C | | | GRADE EXTRA \$20.80 (\$/cwt) TO 4" GRADE EXTRA \$23.20 (\$/cwt) OVER 4"-6" | | | * BRINELL 321(TO 6"), BRINELL 340(TO 2"), BRINELL 360(TO 1-1/2") QUENCHED & TEMPERED | | |
|--|----------------------|-------------------|---|---------------------|-----------------------|--|-------------------|-------------------|
| Width - Inches | Thickness - Inches | | | | | | | (\$/cwt) |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | 137.55 | 138.55 | 138.55 | 138.55 | 140.55 | 161.95 |
| 60 to 72 excl. | 142.05 | 141.05 | 136.05 | 137.05 | 137.05 | 137.05 | 139.05 | 160.45 |
| 72 to 96 incl. | 138.55 | 137.55 | 132.55 | 133.55 | 133.55 | 133.55 | 135.55 | 156.95 |
| Over 96 to 120 incl. | 147.05* | 141.05* | 132.55 | 133.55 | 133.55 | 133.55 | 135.55 | 156.95 |
| Over 120 to 132 incl. | 150.05* | 144.05* | 134.55 | 135.55 | 135.55 | 135.55 | 137.05 | 158.45 |
| Over 132 to 150 incl. | | | | 138.05* | 138.05* | 138.05* | 141.55* | 162.95* |

| ASTM A517 or ASME SA517 GRADE A PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | GRADE EXTRA \$11.55 (\$/cwt) | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | |
|--|-----------------------------|------------------------------|--------------------------|------------------------|---|--|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/4 incl. | |
| Under 60 excl. | | | 130.10 | 131.10 | 131.10 | |
| 60 to 72 excl. | 134.60 | 133.60 | 128.60 | 129.60 | 129.60 | |
| 72 to 96 incl. | 131.10 | 130.10 | 125.10 | 126.10 | 126.10 | |
| Over 96 to 120 incl. | 139.60* | 133.60* | 125.10 | 126.10 | 126.10 | |
| Over 120 to 132 incl. | 142.60* | 136.60* | 127.10 | 128.10 | 128.10 | |
| Over 132 to 150 incl. | | | | 130.60* | 130.60* | |

| ASTM A517 or ASME SA517 GRADE B PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | GRADE EXTRA \$9.45 (\$/cwt) | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | |
|--|-----------------------------|-----------------------------|--------------------------|------------------------|---|--|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/4 incl. | |
| Under 60 excl. | | | 128.00 | 129.00 | 129.00 | |
| 60 to 72 excl. | 132.50 | 131.50 | 126.50 | 127.50 | 127.50 | |
| 72 to 96 incl. | 129.00 | 128.00 | 123.00 | 124.00 | 124.00 | |
| Over 96 to 120 incl. | 137.50* | 131.50* | 123.00 | 124.00 | 124.00 | |
| Over 120 to 132 incl. | 140.50* | 134.50* | 125.00 | 126.00 | 126.00 | |
| Over 132 to 150 incl. | | | | 128.50* | 128.50* | |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A517 or ASME SA517 GRADE E PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | | GRADE EXTRA \$20.40 (\$/cwt) TO 4" GRADE EXTRA \$22.80 (\$/cwt) OVER 4"-6" | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | | |
|--|-----------------------------|----------------------|---|------------------------|--------------------------|---|----------------------|----------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | 138.95 | 139.95 | 139.95 | 139.95 | 141.95 | 163.35 |
| 60 to 72 excl. | 143.45 | 142.45 | 137.45 | 138.45 | 138.45 | 138.45 | 140.45 | 161.85 |
| 72 to 96 incl. | 139.95 | 138.95 | 133.95 | 134.95 | 134.95 | 134.95 | 136.95 | 158.35 |
| Over 96 to 120 incl. | 148.45* | 142.45* | 133.95 | 134.95 | 134.95 | 134.95 | 136.95 | 158.35 |
| Over 120 to 132 incl. | 151.45* | 145.45* | 135.95 | 136.95 | 136.95 | 136.95 | 138.45 | 159.85 |
| Over 132 to 150 incl. | | | | 139.45* | 139.45* | 139.45* | 142.95* | 164.35* |

| ASTM A517 or ASME SA517 GRADE F PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | GRADE EXTRA \$20.45 (\$/cwt) | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | |
|--|-----------------------------|------------------------------|--------------------------|------------------------|---|------------------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2-1/2 incl. |
| Under 60 excl. | | | 139.00 | 140.00 | 140.00 | 140.00 |
| 60 to 72 excl. | 143.50 | 142.50 | 137.50 | 138.50 | 138.50 | 138.50 |
| 72 to 96 incl. | 140.00 | 139.00 | 134.00 | 135.00 | 135.00 | 135.00 |
| Over 96 to 120 incl. | 148.50* | 142.50* | 134.00 | 135.00 | 135.00 | 135.00 |
| Over 120 to 132 incl. | 151.50* | 145.50* | 136.00 | 137.00 | 137.00 | 137.00 |
| Over 132 to 150 incl. | | | | 139.50* | 139.50* | 139.50* |

| ASTM A517 or ASME SA517 GRADE H PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | GRADE EXTRA \$13.15 (\$/cwt) | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | |
|--|-----------------------------|------------------------------|--------------------------|------------------------|---|--------------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. |
| Under 60 excl. | | | 131.70 | 132.70 | 132.70 | 132.70 |
| 60 to 72 excl. | 136.20 | 135.20 | 130.20 | 131.20 | 131.20 | 131.20 |
| 72 to 96 incl. | 132.70 | 131.70 | 126.70 | 127.70 | 127.70 | 127.70 |
| Over 96 to 120 incl. | 141.20* | 135.20* | 126.70 | 127.70 | 127.70 | 127.70 |
| Over 120 to 132 incl. | 144.20* | 138.20* | 128.70 | 129.70 | 129.70 | 129.70 |
| Over 132 to 150 incl. | | | | 132.20* | 132.20* | 132.20* |

* Refer widths over 150" and sizes in shaded area for acceptance.

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A517 or ASME SA517 GRADE Q PRESSURE VESSEL QUALITY, ADDITIONAL TENSION TEST | | | GRADE EXTRA \$22.20 (\$/cwt) TO 4" GRADE EXTRA \$24.60 (\$/cwt) OVER 4"-6" | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | | |
|--|-----------------------------|----------------------|---|------------------------|--------------------------|---|----------------------|----------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | 140.75 | 141.75 | 141.75 | 141.75 | 143.75 | 165.15 |
| 60 to 72 excl. | 145.25 | 144.25 | 139.25 | 140.25 | 140.25 | 140.25 | 142.25 | 163.65 |
| 72 to 96 incl. | 141.75 | 140.75 | 135.75 | 136.75 | 136.75 | 136.75 | 138.75 | 160.15 |
| Over 96 to 120 incl. | 150.25* | 144.25* | 135.75 | 136.75 | 136.75 | 136.75 | 138.75 | 160.15 |
| Over 120 to 132 incl. | 153.25* | 147.25* | 137.75 | 138.75 | 138.75 | 138.75 | 140.25 | 161.65 |
| Over 132 to 150 incl. | | | | 141.25* | 141.25* | 141.25* | 144.75* | 166.15* |

| ASTM A542 or ASME SA542 TYPE A CLASS 1 THRU 3 PVQ ADDITIONAL TENSION TEST | | | GRADE EXTRA \$29.15 (\$/cwt) | | | TO 4" QUENCH & TEMPERED OVER 4" TO 6" DOUBLE QUENCH & TEMPERED | | | |
|---|-----------------------------|-------------------|------------------------------|-----------------------|---------------------|--|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 incl. | Over 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 146.00 | 147.00 | 147.00 | 147.00 | 149.00 | 170.50 |
| 60 to 72 excl. | 156.50 | 150.50 | 149.50 | 144.50 | 145.50 | 145.50 | 145.50 | 147.50 | 169.00 |
| 72 to 96 incl. | 153.00 | 147.00 | 146.00 | 141.00 | 142.00 | 142.00 | 142.00 | 144.00 | 165.50 |
| Over 96 to 120 incl. | 160.00* | 155.50* | 149.50* | 141.00 | 142.00 | 142.00 | 142.00 | 144.00 | 165.50 |
| Over 120 to 132 incl. | 163.00* | 158.50* | 152.50* | 143.00 | 144.00 | 144.00 | 144.00 | 145.50 | 167.00 |
| Over 132 to 150 incl. | | | | | 146.50* | 146.50* | 146.50* | 150.00* | 171.50* |

| ASTM A543 or ASME SA543 TYPE B FINELINE PRESSURE VESSEL QUALITY ADDITIONAL TENSION TEST | | | GRADE EXTRA \$44.70 (\$/cwt) | | | | TO 4" QUENCH & TEMPERED OVER 4" TO 6" DOUBLE QUENCH & TEMPERED | | |
|---|-----------------------------|----------------------|------------------------------|--------------------------|------------------------|--------------------------|--|----------------------|----------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 incl. | Over 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 161.55 | 162.55 | 162.55 | 162.55 | 164.55 | 186.55 |
| 60 to 72 excl. | 172.05 | 166.05 | 165.05 | 160.05 | 161.05 | 161.05 | 161.05 | 163.05 | 185.05 |
| 72 to 96 incl. | 168.55 | 162.55 | 161.55 | 156.55 | 157.55 | 157.55 | 157.55 | 159.55 | 181.55 |
| Over 96 to 120 incl. | 175.55* | 171.05* | 165.05* | 156.55 | 157.55 | 157.55 | 157.55 | 159.55 | 181.55 |
| Over 120 to 132 incl. | 178.55* | 174.05* | 168.05* | 158.55 | 159.55 | 159.55 | 159.55 | 161.05 | 183.05 |
| Over 132 to 150 incl. | | | | | 162.05* | 162.05* | 162.05* | 165.55* | 187.55* |

Alloy Plate Products



ArcelorMittal

ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A543 or ASME SA543 TYPE C FINELINE PRESSURE VESSEL QUALITY ADDITIONAL TENSION TEST | | | GRADE EXTRA \$42.50 (\$/cwt) | | | QUENCHED & TEMPERED TCV LATERAL EXPANSION NOT LESS THAN .015" AT TEMPERATURES UNDER 32F | | | |
|---|-----------------------------|-------------------|------------------------------|-----------------------|---------------------|---|-----------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | |
| | Under 1/4 | 1/4 to 5/16 incl. | Over 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. |
| Under 60 excl. | | | | 158.35 | 159.35 | 159.35 | 159.35 | 163.85 | 166.35 |
| 60 to 72 excl. | 168.85 | 162.85 | 158.85 | 156.85 | 157.85 | 157.85 | 157.85 | 162.35 | 164.85 |
| 72 to 96 incl. | 165.35 | 159.35 | 155.35 | 153.35 | 154.35 | 154.35 | 154.35 | 158.85 | 161.35 |
| Over 96 to 120 incl. | 172.35* | 167.85* | 158.85* | 153.35 | 154.35 | 154.35 | 154.35 | 158.85 | 161.35 |
| Over 120 to 132 incl. | 175.35* | 170.85* | 161.85* | 155.35 | 156.35 | 156.35 | 156.35 | 160.35 | 162.85 |
| Over 132 to 150 incl. | | | | | 158.85* | 158.85* | 158.85* | 164.85* | 167.35* |

| ASTM A553 or ASME SA553 TYPE 1 FINELINE PRACTICE PVQ, ADDITIONAL TENSION TEST- QUENCH & TEMPERED | | GRADE EXTRA \$59.00 (\$/cwt) to 1-1/2" | | | TCVN - LATERAL EXPANSION NOT LESS THAN .015" AT -320F, REPORT % SHEAR AND FT. LBS. FOR INFO | | |
|--|--------------------|--|---------------------------|--------|---|------------------------|--------------------------|
| Width - Inches | Thickness - Inches | | | | (\$/cwt) | | |
| | 3/16 * to 1/4 | 1/4 to 5/16 incl. | Over 5/16 to 3/8 incl. | 3/8 | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. |
| Under 60 excl. | | | | 182.55 | 177.55 | 178.55 | 178.55 |
| 60 to 72 excl. | 193.05 | 187.05 | 186.05 | 181.05 | 176.05 | 177.05 | 177.05 |
| 72 to 96 incl. | 189.55 | 183.55 | 182.55 | 177.55 | 172.55 | 173.55 | 173.55 |
| Over 96 to 120 incl. | 196.55* | 192.05* | 186.05* | 177.55 | 172.55 | 173.55 | 173.55 |
| Over 120 to 132 incl. | 199.55* | 195.05* | 189.05* | 179.55 | 174.55 | 175.55 | 175.55 |
| Over 132 to 136 incl. | | | | | 170.05 | 178.05 | 178.05 |

THE ABOVE REQUIRE SURFACE FINISH AND ARE SUBJECT TO INQUIRE FOR ACCEPTANCE AND EXTRAS.

| ASTM A710 GRADE A CLASS 3 FINELINE PRACTICE | | | GRADE EXTRA \$19.55 (\$/cwt) | | | (To 2") QUENCH & PRECIPITATION HEAT TREAT (Ov 2" To 8") DOUBLE QUENCH & PRECIPITATION HEAT TREAT | | | |
|--|-----------------------------|-------------------|------------------------------|---------------------|-----------------------|--|-------------------|-------------------|-------------------|
| Width - Inches | Thickness - Inches (\$/cwt) | | | | | | | | |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 8 incl. |
| Under 60 excl. | | | 136.30 | 137.30 | 137.30 | 137.30 | 139.80 | 141.80 | 160.80 |
| 60 to 72 excl. | 143.80 | 139.80 | 134.80 | 135.80 | 135.80 | 135.80 | 138.30 | 140.30 | 159.30 |
| 72 to 96 incl. | 140.30 | 136.30 | 131.30 | 132.30 | 132.30 | 132.30 | 134.80 | 136.80 | 155.80 |
| Over 96 to 120 incl. | 148.80* | 139.80* | 131.30 | 132.30 | 132.30 | 132.30 | 134.80 | 136.80 | 155.80 |
| Over 120 to 132 incl. | 151.80* | 142.80* | 133.30 | 134.30 | 134.30 | 134.30 | 136.80 | 138.30 | 157.30 |
| Over 132 to 150 incl. | | | | 136.80* | 136.80* | 136.80* | 139.30* | 142.80* | 161.80* |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| ASTM A736 or ASME SA736 GRADE A CLASS 3 FINELINE PRACTICE PVQ ADDITIONAL TENSION TEST | | | GRADE EXTRA \$20.95 (\$/cwt) | | LCVN 20 FT-LB @ -50 F (To 2") QUENCH & PRECIPITATION HEAT TREAT (Ov 2" To 9") DOUBLE QUENCH & PRECIPITATION HEAT TREAT | | | | |
|---|-------------------------|----------------------|------------------------------|------------------------|---|-----------------------------|----------------------|----------------------|----------------------|
| Width - Inches | Thickness - Inches | | | | | | | | (\$/cwt) |
| | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 2 incl. | Over 2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 9 incl. |
| Under 60 excl. | | | 139.55 | 140.55 | 140.55 | 140.55 | 143.05 | 145.05 | 164.05 |
| 60 to 72 excl. | 147.05 | 143.05 | 138.05 | 139.05 | 139.05 | 139.05 | 141.55 | 143.55 | 162.55 |
| 72 to 96 incl. | 143.55 | 139.55 | 134.55 | 135.55 | 135.55 | 135.55 | 138.05 | 140.05 | 159.05 |
| Over 96 to 120 incl. | 152.05* | 143.05* | 134.55 | 135.55 | 135.55 | 135.55 | 138.05 | 140.05 | 159.05 |
| Over 120 to 132 incl. | 155.05* | 146.05* | 136.55 | 137.55 | 137.55 | 137.55 | 140.05 | 141.55 | 160.55 |
| Over 132 to 150 incl. | | | | 140.05* | 140.05* | 140.05* | 142.55* | 146.05* | 165.05* |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| | | | | | | |
|---|------------------------------|-------------------------------------|----------------------------------|----------------------------------|---|----------------------------------|
| MTD 1 Over 6" add <u>\$2.50 cwt.</u> for Clean Cut | | GRADE EXTRA \$8.50 (\$/cwt) | | | NORMALIZED & TEMPERED (TO 98" WIDE - 1/2 COMMERCIAL FLATNESS) | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | .400 to 1/2 excl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6-1/2 incl. |
| Under 60 excl. | 127.25 | 128.25 | 128.25 | 128.25 | 129.25 | 149.25 |
| 60 to 72 excl. | 125.75 | 126.75 | 126.75 | 126.75 | 125.75 | 145.75 |
| 72 to 96 incl. | 122.25 | 123.25 | 123.25 | 123.25 | 125.75 | 145.75 |
| Over 96 to 98 incl. | 122.25 | 123.25 | 123.25 | 123.25 | 127.25 | 147.25 |
| MTD 2 | | GRADE EXTRA \$9.40 (\$/cwt) | | | QUENCHED & TEMPERED and STRESS RE- LIEVED IN COMBINATION (TO 98" WIDE - 1/2 COMMERCIAL FLATNESS) | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | 1/2 | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 10 incl. |
| Under 60 excl. | 138.30 | 139.30 | 139.30 | 139.30 | 142.80 | 164.30 |
| 60 to 72 excl. | 136.80 | 137.80 | 137.80 | 137.80 | 139.30 | 162.80 |
| 72 to 96 incl. | 133.30 | 134.30 | 134.30 | 134.30 | 139.30 | 159.30 |
| Over 96 to 98 incl. | 133.30 | 134.30 | 134.30 | 134.30 | 140.80 | 159.30 |
| MTD 3 <u>FINELINE</u> - QUENCHED & TEMPERED AND STRESS RELIEVED IN COMBINATION | | GRADE EXTRA \$18.50 (\$/cwt) | | | (TO 98" WIDE - 1/2 COMMERCIAL FLATNESS) (OVER 6" UT A578 LEVEL 1,S1) | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | 3/4 to 1 excl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6 incl. | Over 6 to 12 incl. |
| Under 60 excl. | 148.40 | 148.40 | 148.40 | 153.40 | 173.40 | 176.15 |
| 60 to 72 excl. | 146.90 | 146.90 | 146.90 | 151.90 | 171.90 | 174.65 |
| 72 to 96 incl. | 143.40 | 143.40 | 143.40 | 148.40 | 168.40 | 171.15 |
| Over 96 to 98 incl. | 143.40 | 143.40 | 143.40 | 148.40 | 168.40 | 171.15 |
| MTD 4 | | GRADE EXTRA \$11.60 (\$/cwt) | | | NORMALIZED & TEMPERED | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) |
| | 1/2 | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. | Over 3 to 4 incl. | Over 4 to 6-1/2 incl. |
| Under 60 excl. | 130.35 | 131.35 | 131.35 | 131.35 | 133.85 | 153.85 |
| 60 to 72 excl. | 128.85 | 129.85 | 129.85 | 129.85 | 132.35 | 152.35 |
| 72 to 96 incl. | 125.35 | 126.35 | 126.35 | 126.35 | 128.85 | 148.85 |
| Over 96 to 98 incl. | 125.35 | 126.35 | 126.35 | 126.35 | 128.85 | 148.85 |

Alloy Plate Products



ArcelorMittal USA LLC

Composite Price Tables

All prices are expressed in US dollars per hundred pounds (\$/cwt) The following prices include base price and extras for specification (or chemistry), width and thickness, mechanical properties, quality and test requirements but no additional extras unless noted.

| Hardwear-400F Fineline Practice | | GRADE EXTRA \$15.70 (\$/cwt) TO 1" | | | (To 1/2" Incl.) Quenched | | |
|---------------------------------|--------------------|---|-------------------|-----------------------|---|-----------------------|-----------------------|
| | | GRADE EXTRA \$20.85 (\$/cwt) OVER 1"-3" | | | (Over 1/2" To 1" Incl.) Quench and Temper | | |
| Width - Inches | Thickness - Inches | | | | | | (\$/cwt) |
| | 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. |
| Under 60 excl. | | | | 132.45 | 133.45 | 141.10 | 141.10 |
| 60 to 72 excl. | 142.95 | 136.95 | 132.95 | 130.95 | 131.95 | 139.60 | 139.60 |
| 72 to 96 incl. | 139.45 | 133.45 | 129.45 | 127.45 | 128.45 | 136.10 | 136.10 |
| Over 96 to 120 incl. | 146.45* | 141.95* | 132.95* | 127.45 | 128.45 | 136.10 | 136.10 |

| Hardwear-400F Fineline Practice | | GRADE EXTRA \$13.70 (\$/cwt) TO 3/4" | | (Over 1/2" To 1" Incl.) Quench and Temper | | | | |
|---------------------------------|--------------------|---|-------------------|--|-----------------------|---------------------|-----------------------|-----------------------|
| | | GRADE EXTRA \$21.65 (\$/cwt) OVER 3/4"-3" | | (Over 1" To 3" Incl.) Double Quench and Temper | | | | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) | | |
| | 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 3/4 incl. | Over 3/4 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. |
| Under 60 excl. | | | | 130.45 | 131.45 | 139.40 | 141.90 | 141.90 |
| 60 to 72 excl. | 140.95 | 134.95 | 130.95 | 128.95 | 129.95 | 137.90 | 140.40 | 140.40 |
| 72 to 96 incl. | 128.95 | 131.45 | 127.45 | 125.45 | 126.45 | 134.40 | 136.90 | 136.90 |
| Over 96 to 120 incl. | 148.50* | 139.95* | 130.95* | 125.45 | 126.45 | 134.40 | 136.90 | 136.90 |

| Hardwear-500F Fineline Practice | | GRADE EXTRA \$16.30 (\$/cwt) TO 1" | | | (To 1" Incl.) Quench and Temper | | |
|---------------------------------|--------------------|---|-------------------|-----------------------|--|-----------------------|-----------------------|
| | | GRADE EXTRA \$22.20 (\$/cwt) OVER 1"-3" | | | (Over 1" To 3" Incl.) Double Quench and Temper | | |
| Width - Inches | Thickness - Inches | | | | | (\$/cwt) | |
| | 1/4 | 1/4 to 5/16 excl. | 5/16 to 3/8 incl. | Over 3/8 to 1/2 incl. | Over 1/2 to 1 incl. | Over 1 to 1-1/2 incl. | Over 1-1/2 to 3 incl. |
| Under 60 excl. | | | | 133.05 | 134.05 | 142.45 | 142.45 |
| 60 to 72 excl. | 143.55 | 137.55 | 133.55 | 131.55 | 132.55 | 140.95 | 140.95 |
| 72 to 96 incl. | 140.05 | 134.05 | 130.05 | 128.05 | 129.05 | 137.45 | 137.45 |

Additional Information



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Abbreviations

| | |
|---------|--|
| AAR | – Association of American Railroads |
| AASHTO | – American Association State Highway Transportation Official |
| ABS | – American Bureau of Shipping |
| Al | – Aluminum |
| API | – American Petroleum Institute |
| AR | – Abrasion Resistant |
| ASME | – American Society of Mechanical Engineers |
| ASTM | – American Society Testing Materials |
| C | – Carbon |
| CP | – Control Process |
| Cu | – Copper |
| DWT | – Drop Weight Testing |
| DWTT | – Drop Weight Tensile Test |
| EHN | – (McQuaide) Test |
| El. | – Elongation |
| Equiv. | – Equivalent |
| Excl. | – Exclusive |
| F | – Fahrenheit |
| FG | – Fine Grain |
| F.O.B. | – Freight on Board |
| Ft. | – Foot |
| Ft.-Lb. | – Foot Pounds |
| Gr | – Grade |
| (H) | – Heat Testing |
| HSLA | – High Strength Low Alloy |
| In. | – Inch |
| Incl. | – Inclusive |
| Ind. | – Indiana |
| Kld | – Killed |
| KSI | – Thousand Pounds Per Square Inch |
| Lbs. | – Pounds |

| | |
|------------------|---------------------------------------|
| Lbs. Per Sq. Ft. | – Pounds Per Square Foot |
| LCVN/LCV | – Longitudinal Charpy V-Notch Impacts |
| Max. or X | – Maximum |
| Md. | – Maryland |
| MIL-S | – Military Specification |
| Min. | – Minimum |
| MM | – Millimeters |
| MN | – Manganese |
| Mod. | – Modified |
| MPS | – Mega Pascals |
| N/A | – Not Applicable |
| No. | – Number |
| Norm | – Normalized |
| P | – Phosphorus |
| (P) | – Plate Testing |
| (PP) | – Plate Testing 2 Ends |
| Para. | – Paragraph |
| Prac. | – Practice |
| PVQ | – Pressure Vessel Quality |
| QAC | – Quality Assurance Certification |
| Q&T | – Quenched and Tempered |
| RQ | – Roller Quenched |
| RQC | – Roller Quenched Carbon |
| S | – Sulphur |
| Sec. | – Section |
| Si | – Silicon |
| S1 | – Supplement and No. |
| S.010 or .006x | – Sulphur Value Maximum |
| TCVN/TCV | – Transverse Charpy V-Notch Impacts |
| TS | – Tensile Strength |
| TTT | – Thru Thickness Testing |
| UT | – Ultrasonic Testing |
| YS | – Yield Strength |

Metric Conversions

Common Metric and Other Unit Conversions

| Convert | From | To | Multiply By |
|-----------------|---|--|-------------|
| Length | millimeters | inch (in) | .03937 |
| | inch (in) | millimeters (mm) | 25.4 |
| | foot (ft) | meter (m) | 0.3048 |
| | inch (in) | mil | 1000 |
| Weight | ounce (oz) | grams (g) | 28.3495 |
| | pound (lb) | grams (g) | 453.59 |
| | pound (lb) | kilogram (kg) | 0.4536 |
| | kilogram (kg) | pound (lb) | 2.2046 |
| | ton | metric ton | 0.9072 |
| | metric ton | kilogram (kg) | 1000 |
| | metric ton | pound (lb) | 2205 |
| Strength | pounds/square inch (psi) | ksi (1000 psi) | 0.001 |
| | ksi | mega Pascal (MPa) | 6.895 |
| | pounds/square inch (psi) | mega Pascal (MPa) | 0.006895 |
| | newton/square millimeter (N/mm ²) | mega Pascal (MPa) | 1 |
| | pounds/square inch (psi) | newton/square millimeter (N/mm ²) | 0.006895 |
| | ksi | newton/square millimeter (N/mm ²) | 6.895 |
| | ksi | kilogram/square millimeter (kg/mm ²) | 0.704 |

Additional Information



ArcelorMittal USA LLC

Metric Dimensions

Prices for metric orders are the same as their equivalent English dimensions and specifications.

Preferred Metric Gauges:

| Millimeters | English Decimal Equivalent Inches | Millimeters | English Decimal Equivalent Inches |
|-------------|-----------------------------------|---|-----------------------------------|
| 5..... | .1969 | 25 | .9843 |
| 5.5..... | .2165 | 28 | 1.1024 |
| 6..... | .2362 | 30 | 1.1811 |
| 7..... | .2756 | 32 | 1.2598 |
| 8..... | .3150 | 35 | 1.3780 |
| 9..... | .3543 | 38 | 1.4961 |
| 10..... | .3937 | 40 | 1.5748 |
| 11..... | .4331 | 45 | 1.7717 |
| 12..... | .4724 | 50 | 1.9685 |
| 14..... | .5512 | 55 | 2.1654 |
| 16..... | .6299 | 60 | 2.3622 |
| 18..... | .7087 | Over 60 mm to 200 mm incl. in 10 mm increments. | |
| 20..... | .7874 | Over 200 mm in 50 mm increments. | |
| 22 | .8661 | | |

AVAILABILITY:

Maximum and minimum restrictions for metric dimensions are the same as their English equivalents, as published in our Plate Selection Guide. Millimeters will be used for all dimensions. For width and length – full millimeters must be specified; for thickness – one place to the right of the decimal (.x) is permissible.

Theoretical weight will be calculated in kilograms using 0.000007850 kilograms per cubic millimeter as the density factor.

Tolerances – Present standard English tolerances will apply to the equivalent English.

Import Conversion Factors:

| | | | |
|--------------|---|---------|-------------|
| 1 Millimeter | = | 0.03937 | Inches |
| 1 Kilogram | = | 2.2046 | Pounds |
| 1 Inch | = | 25.4 | Millimeters |
| 1 Pound | = | 0.4536 | Kilograms |

Additional Information



ArcelorMittal USA LLC

Thickness Tolerance For Rectangular, Carbon, High Strength Low Alloy, and Alloy Steel Plates, 15 In. and Under in Thickness When Ordered to Thickness (from ASTM A6-04b)

Tolerance Over Specified Thickness for Widths Given, In.

| Specified Thickness (inches) | 48 and Under | Over 48 to 60 excl. | 60 to 72 excl. | 72 to 84 excl. | 84 to 96 excl. | 96 to 108 excl. | 108 to 120 excl. | 120 to 132 excl. | 132 to 144 excl. | 144 to 168 excl. | 168 to 182 excl. | 182 and Over |
|---------------------------------|--------------|---------------------|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|--------------|
| To 1/4 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | - | - | - |
| 1/4 to 5/16 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | - | - | - |
| 5/16 to 3/8 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | - | - |
| 3/8 to 7/16 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | - |
| 7/16 to 1/2 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | - |
| 1/2 to 5/8 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | - |
| 5/8 to 3/4 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 |
| 3/4 to 1 excl. | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 |
| 1 to 2 excl. | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.08 | 0.10 | 0.10 | 0.11 | 0.13 | 0.16 |
| 2 to 3 excl. | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.15 | - |
| 3 to 4 excl. | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.17 | - |
| 4 to 6 excl. | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | - |
| 6 to 10 excl. | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.27 | 0.28 | - |
| 10 to 12 excl. | 0.29 | 0.29 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.35 | - |
| 12 to 15 incl. | 0.29 | 0.29 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | - |

Note 1 - Tables contain permissible variations in dimensions stated in inch units.

Note 2 - Permissible variation under specified thickness, 0.01 in.

Note 3 - Thickness to be measured at 3/8 to 3/4 in. from the longitudinal edge.

Note 4 - For thickness measured at any location other than that specified in Note 3, the permissible maximum over tolerance shall be increased by 75%, rounded to the nearest 0.01 in.

Note 5 - Where "-" appears in this table, there is no requirement

Flatness Tolerance for Carbon Steel Plates (from ASTM A6-04b)

| Permissible Variations from a Flat Surface for Specified Widths, In. ^{A,B} | | | | | | | | | | | |
|---|-------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|--------------|
| Specified Thickness (inches) | To 36 excl. | 36 to 48 excl. | 48 to 60 excl. | 60 to 72 excl. | 72 to 84 excl. | 84 to 96 excl. | 96 to 108 excl. | 108 to 120 excl. | 120 to 144 excl. | 144 to 168 excl. | 168 and Over |
| To 1/4 excl. | 9/16 | 3/4 | 15/16 | 1-1/4 | 1-3/8 | 1-1/2 | 1-5/8 | 1-3/4 | 1-7/8 | — | - |
| 1/4 to 3/8 excl. | 1/2 | 5/8 | 3/4 | 15/16 | 1-1/8 | 1-1/4 | 1-3/8 | 1-1/2 | 1-5/8 | — | - |
| 3/8 to 1/2 excl. | 1/2 | 9/16 | 5/8 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-7/8 | 2-1/8 |
| 1/2 to 3/4 excl. | 7/16 | 1/2 | 9/16 | 5/8 | 5/8 | 3/4 | 1 | 1 | 1-1/8 | 1-1/2 | 2 |
| 3/4 to 1 excl. | 7/16 | 1/2 | 9/16 | 5/8 | 5/8 | 5/8 | 3/4 | 7/8 | 1 | 1-3/8 | 1-3/4 |
| 1 to 2 excl. | 3/8 | 1/2 | 1/2 | 9/16 | 9/16 | 5/8 | 5/8 | 5/8 | 11/16 | 1-1/8 | 1-1/2 |
| 2 to 4 excl. | 5/16 | 3/8 | 7/16 | 1/2 | 1/2 | 1/2 | 1/2 | 9/16 | 5/8 | 7/8 | 1-1/8 |
| 4 to 6 excl. | 3/8 | 7/16 | 1/2 | 1/2 | 9/16 | 9/16 | 5/8 | 3/4 | 7/8 | 7/8 | 1 |
| 6 to 8 excl. | 7/16 | 1/2 | 1/2 | 5/8 | 11/16 | 3/4 | 7/8 | 7/8 | 1 | 1 | 1 |
| 8 to 10 excl. | 1/2 | 1/2 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 | 1 |
| 10 to 12 excl. | 1/2 | 5/8 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 | 1 | 1 | 1 |
| 12 to 15 excl. | 5/8 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 | 1 | 1 | 1 | - |

A Flatness Variations for Length – The longer dimension specified is considered the length, and permissible variations in flatness along the length should not exceed the tabular amount for the specified width in plates up to 12 ft. in length, or in any 12 ft. of longer plates.

B Flatness Variations for Width – The flatness variations across the width should not exceed the tabular amount for the specified width.

Note 1 - When the longer dimension is under 36 in., the permissible variation should not exceed 1/4 in. When the longer dimension is from 36 to 72 in., incl., the permissible variation should not exceed 75% of the tabular amount for the specified width, but in no case less than 1/4 in.

Note 2 - These variations apply to plates, which have a specified minimum tensile strength of not more than 60 ksi (415 MPa) or comparable chemical composition or hardness. The limits in the table are increased 50% for plates specified to a higher minimum tensile strength or compatible chemistry or hardness.

Note 3 - This table and these notes cover the permissible variations for flatness of circular and sketch plates, based on the maximum dimensions of those plates.

Note 4 - Where "—" appears in this table, there is no requirement.

Note 5 - Plates must be in a horizontal position on a flat surface when flatness is measured.

Waviness Tolerances Rectangular, Circular and Sketch Plates (from ASTM A6-04b)

| | When Number of Waves in 12 ft. is: | | | | | | |
|-------|------------------------------------|---------|---------|--------|-------|-------|------|
| 5/16 | 5/16 | 1/4 | 3/16 | 1/8 | 1/8 | 1/16 | 1/16 |
| 3/8 | 3/8 | 5/16 | 3/16 | 3/16 | 1/8 | 1/16 | 1/16 |
| 7/16 | 7/16 | 5/16 | 1/4 | 3/16 | 1/8 | 1/8 | 1/16 |
| 1/2 | 1/2 | 3/8 | 5/16 | 3/16 | 3/16 | 1/8 | 1/16 |
| 9/16 | 9/16 | 7/16 | 5/16 | 1/4 | 3/16 | 1/8 | 1/8 |
| 5/8 | 5/8 | 1/2 | 3/8 | 1/4 | 3/16 | 1/8 | 1/8 |
| 11/16 | 11/16 | 1/2 | 3/8 | 5/16 | 3/16 | 3/16 | 1/8 |
| 3/4 | 3/4 | 9/16 | 7/16 | 5/16 | 1/4 | 3/16 | 1/8 |
| 13/16 | 13/16 | 5/8 | 7/16 | 5/16 | 1/4 | 3/16 | 1/8 |
| 7/8 | 7/8 | 11/16 | 1/2 | 3/8 | 1/4 | 3/16 | 1/8 |
| 15/16 | 15/16 | 11/16 | 1/2 | 3/8 | 5/16 | 1/4 | 3/16 |
| 1 | 1 | 3/4 | 9/16 | 7/16 | 5/16 | 1/4 | 3/16 |
| 1-1/8 | 1-1/8 | 7/8 | 5/8 | 1/2 | 3/8 | 1/4 | 3/16 |
| 1-1/4 | 1-1/4 | 15/16 | 11/16 | 1/2 | 3/8 | 5/16 | 1/4 |
| 1-3/8 | 1-3/8 | 1-1/16 | 3/4 | 9/16 | 7/16 | 5/16 | 1/4 |
| 1-1/2 | 1-1/2 | 1-1/8 | 7/8 | 5/8 | 1/2 | 3/8 | 1/4 |
| 1-5/8 | 1-5/8 | 1-1/4 | 15/16 | 11/16 | 1/2 | 3/8 | 5/16 |
| 1-3/4 | 1-3/4 | 1-5/16 | 1 | 3/4 | 9/16 | 7/16 | 5/16 |
| 1-7/8 | 1-7/8 | 1-7/16 | 1-1/16 | 13/16 | 9/16 | 7/16 | 5/16 |
| 2 | 2 | 1-1/2 | 1-1/8 | 7/8 | 5/8 | 1/2 | 3/8 |
| 2-1/8 | 2-1/8 | 1-5/8 | 1-3/16 | 7/8 | 11/16 | 1/2 | 3/8 |
| 2-1/4 | 2-1/4 | 1-11/16 | 1-1/4 | 15/16 | 11/16 | 9/16 | 3/8 |
| 2-3/8 | 2-3/8 | 1-13/16 | 1-5/16 | 1 | 3/4 | 9/16 | 7/16 |
| 2-1/2 | 2-1/2 | 1-7/8 | 1-7/16 | 1-1/16 | 13/16 | 9/16 | 7/16 |
| 2-5/8 | 2-5/8 | 2 | 1-1/2 | 1-1/8 | 13/16 | 5/8 | 7/16 |
| 2-3/4 | 2-3/4 | 2-1/16 | 1-9/16 | 1-1/8 | 7/8 | 5/8 | 1/2 |
| 2-7/8 | 2-7/8 | 2-3/16 | 1-5/8 | 1-3/16 | 15/16 | 11/16 | 1/2 |
| 3 | 3 | 2-1/4 | 1-11/16 | 1-1/4 | 15/16 | 11/16 | 9/16 |
| 3-1/8 | 3-1/8 | 1-3/8 | 1-3/4 | 1-5/16 | 1 | 3/4 | 9/16 |

Note 1: Waviness denotes the maximum deviation of the surface of the plate from a plane parallel to the surface of the point of measurement and contiguous to the surface of the plate at each of the two adjacent wave peaks, when the plate is resting on a flat horizontal surface, as measured in an increment of less than 12 ft. of length. The permitted variation in waviness is a function of the permitted variation from a flat surface as obtained from Table 13 or 14, whichever is applicable.

Note 2: Plates must be in a horizontal position on a flat surface when waviness is measured.

Flatness Tolerance for High Strength Low Alloy and Alloy Steel Plates, Hot Rolled or Thermally Treated (from ASTM A6-04b)

| Flatness Tolerances for Specified Widths, In. ^{A,B} | | | | | | | | | | | |
|--|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|---------------------|---------------------|---------------------|--------------|
| Specified Thickness (inches) | To 36 excl. | 36 to 48 excl. | 48 to 60 excl. | 60 to 72 excl. | 72 to 84 excl. | 84 to 96 excl. | 96 to 108 excl. | 108 to 120 excl. | 120 to 144 excl. | 144 to 168 excl. | 168 and Over |
| To 1/4 excl. | 13/16 | 1-1/8 | 1-3/8 | 1-7/8 | 2 | 2-1/4 | 2-3/8 | 2-5/8 | 2-3/4 | – | – |
| 1/4 to 3/8 excl. | 3/4 | 15/16 | 1-1/8 | 1-3/8 | 1-3/4 | 1-7/8 | 2 | 2-1/4 | 2-3/8 | – | – |
| 3/8 to 1/2 excl. | 3/4 | 7/8 | 15/16 | 15/16 | 1-1/8 | 1-5/16 | 1-1/2 | 1-5/8 | 1-7/8 | 2-3/4 | 3-1/8 |
| 1/2 to 3/4 excl. | 5/8 | 3/4 | 13/16 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-3/8 | 1-5/8 | 2-1/4 | 3 |
| 3/4 to 1 excl. | 5/8 | 3/4 | 7/8 | 7/8 | 15/16 | 1 | 1-1/8 | 1-5/16 | 1-1/2 | 2 | 2-5/8 |
| 1 to 2 excl. | 9/16 | 5/8 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 | 1 | 1-5/8 | 2-1/4 |
| 2 to 4 excl. | 1/2 | 9/16 | 11/16 | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | 1 | 1-1/4 | 1-5/8 |
| 4 to 6 excl. | 9/16 | 11/16 | 3/4 | 3/4 | 7/8 | 7/8 | 15/16 | 1-1/8 | 1-1/4 | 1-1/4 | 1-1/2 |
| 6 to 8 excl. | 5/8 | 3/4 | 3/4 | 15/16 | 1 | 1-1/8 | 1-1/4 | 1-5/16 | 1-1/2 | 1-1/2 | 1-1/2 |
| 8 to 10 excl. | 3/4 | 13/16 | 15/16 | 1 | 1-1/8 | 1-1/4 | 1-5/16 | 1-3/8 | 1-1/2 | 1-1/2 | 1-1/2 |
| 10 to 12 excl. | 3/4 | 15/16 | 1-1/8 | 1-1/4 | 1-5/16 | 1-3/8 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 |
| 12 to 15 excl. | 7/8 | 1 | 1-3/16 | 1-5/16 | 1-3/8 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 |

A Flatness Variations for Length – The longer dimension specified is considered the length, and variations from a flat surface along the length should not exceed the tabular amount for the specified width in plates up to 12 ft. in length, or in any 12 ft. of longer plates.

B Flatness Variations for Width – The flatness variations across the width should not exceed the tabular amount for the specified width.

Note 1 – When the longer dimension is under 36 in., the variation should not exceed 3/4 in. When the larger dimension is from 36 to 72 in., incl., the variation should not exceed 75% of the tabular amount for the specified width.

Note 2 – This table and notes cover the tolerances for flatness of circular and sketch plates, based on the maximum dimensions of those plates.

Note 3 – Where “–” appears in this table, there is no requirement.

Note 4 – Plates must be in a horizontal position on a flat surface when flatness is measured.

Width and Length Tolerance for Sheared Plates 1-1/2 In. and Under in Thickness (from ASTM A6-04b)

| Specified Dimensions (inches) | | Variations Over Specified Width and Length ^A for Thicknesses, In., and Equivalent Weights, Lb/Ft ² , Given | | | | | | | |
|----------------------------------|-----------------|---|--------|---|--------|--------------------------------------|--------|---|--------|
| Length | Width | To 3/8 excl. To 15.3 excl. | | 3/8 to 5/8 excl. 15.3 to 25.5 excl. | | 5/8 to 1 excl. 25.5 to 40.8 excl. | | 1 to 2 incl. ^B 40.8 to 81.7 incl. | |
| | | Width | Length | Width | Length | Width | Length | Width | Length |
| To 120 excl. | To 60 excl. | 3/8 | 1/2 | 7/16 | 5/8 | 1/2 | 3/4 | 5/8 | 1 |
| | 60 to 84 excl. | 7/16 | 5/8 | 1/2 | 11/16 | 5/8 | 7/8 | 3/4 | 1 |
| | 84 to 108 excl. | 1/2 | 3/4 | 5/8 | 7/8 | 3/4 | 1 | 1 | 1-1/8 |
| | 108 and Over | 5/8 | 7/8 | 3/4 | 1 | 7/8 | 1-1/8 | 1-1/8 | 1-1/4 |
| 120 to 240 excl. | To 60 excl. | 3/8 | 3/4 | 1/2 | 7/8 | 5/8 | 1 | 3/4 | 1-1/8 |
| | 60 to 84 excl. | 1/2 | 3/4 | 5/8 | 7/8 | 3/4 | 1 | 7/8 | 1-1/4 |
| | 84 to 108 excl. | 9/16 | 7/8 | 11/16 | 15/16 | 13/16 | 1-1/8 | 1 | 1-3/8 |
| | 108 and Over | 5/8 | 1 | 3/4 | 1-1/8 | 7/8 | 1-1/4 | 1-1/8 | 1-3/8 |
| 240 to 360 excl. | To 60 excl. | 3/8 | 1 | 1/2 | 1-1/8 | 5/8 | 1-1/4 | 3/4 | 1-1/2 |
| | 60 to 84 excl. | 1/2 | 1 | 5/8 | 1-1/8 | 3/4 | 1-1/4 | 7/8 | 1-1/2 |
| | 84 to 108 excl. | 9/16 | 1 | 11/16 | 1-1/8 | 7/8 | 1-3/8 | 1 | 1-1/2 |
| | 108 and Over | 11/16 | 1-1/8 | 7/8 | 1-1/4 | 1 | 1-3/8 | 1-1/4 | 1-3/4 |
| 360 to 480 excl. | To 60 excl. | 7/16 | 1-1/8 | 1/2 | 1-1/4 | 5/8 | 1-3/8 | 3/4 | 1-5/8 |
| | 60 to 84 excl. | 1/2 | 1-1/4 | 5/8 | 1-3/8 | 3/4 | 1-1/2 | 7/8 | 1-5/8 |
| | 84 to 108 excl. | 9/16 | 1-1/4 | 3/4 | 1-3/8 | 7/8 | 1-1/2 | 1 | 1-7/8 |
| | 108 and Over | 3/4 | 1-3/8 | 7/8 | 1-1/2 | 1 | 1-5/8 | 1-1/4 | 1-7/8 |
| 480 to 600 excl. | To 60 excl. | 7/16 | 1-1/4 | 1/2 | 1-1/2 | 5/8 | 1-5/8 | 3/4 | 1-7/8 |
| | 60 to 84 excl. | 1/2 | 1-3/8 | 5/8 | 1-1/2 | 3/4 | 1-5/8 | 7/8 | 1-7/8 |
| | 84 to 108 excl. | 5/8 | 1-3/8 | 3/4 | 1-1/2 | 7/8 | 1-5/8 | 1 | 1-7/8 |
| | 108 and Over | 3/4 | 1-1/2 | 7/8 | 1-5/8 | 1 | 1-3/4 | 1-1/4 | 1-7/8 |
| 600 to 720 excl. | To 60 excl. | 1/2 | 1-3/4 | 5/8 | 1-7/8 | 3/4 | 1-7/8 | 7/8 | 2-1/4 |
| | 60 to 84 excl. | 5/8 | 1-3/4 | 3/4 | 1-7/8 | 7/8 | 1-7/8 | 1 | 2-1/4 |
| | 84 to 108 excl. | 5/8 | 1-3/4 | 3/4 | 1-7/8 | 7/8 | 1-7/8 | 1-1/8 | 2-1/4 |
| | 108 and Over | 7/8 | 1-3/4 | 1 | 2 | 1-1/8 | 2-1/4 | 1-1/4 | 2-1/2 |
| 720 and Over | To 60 excl. | 9/16 | 2 | 3/4 | 2-1/8 | 7/8 | 2-1/4 | 1 | 2-3/4 |
| | 60 to 84 excl. | 3/4 | 1 | 7/8 | 2-1/8 | 1 | 2-1/4 | 1-1/8 | 2-3/4 |
| | 84 to 108 excl. | 3/4 | 2 | 7/8 | 2-1/8 | 1 | 2-1/4 | 1-1/4 | 2-3/4 |
| | 108 and Over | 1 | 2 | 1-1/8 | 2-3/8 | 1-1/4 | 2-1/2 | 1-3/8 | 3 |

A Permissible variation under specified width and length, 1/4 in.

B Permissible variations in length apply also to Universal Mill plates up to 12 in. in width for thicknesses over 2 to 2-1/2 in., incl., except for alloy steel up to 1-3/4 in. thick.

**Width and Length Tolerance for Rectangular Plates
When Gas-Cutting is Specified or Required
(Not Applicable to Alloy Steel)
(from ASTM A6-04b)**

| Specified Thickness (inches) | Variations Over for All Specified Widths or Lengths (inches) |
|---|---|
| To 2 excl. | 1/2 |
| 2 to 4 excl. | 5/8 |
| 4 to 6 excl. | 3/4 |
| 6 to 8 excl. | 7/8 |
| 8 to 15 incl. | 1 |

Note 1 – These variations may be taken all under or divided over and under, if so specified.

Note 2 – Plates with universal rolled edges will be gas cut to length only.

**(Alloy Steel Specifications Only)
(from ASTM A6-04b)**

| Specified Thickness (inches) | Variations Over for All Specified Widths or Lengths (inches) |
|---|---|
| To 2 excl. | 3/4 |
| 2 to 4 excl. | 1 |
| 4 to 6 excl. | 1-1/8 |
| 6 to 8 excl. | 1-5/16 |
| 8 to 15 incl. | 1-1/2 |

Note 1 – These variations may be taken all under or divided over and under, if so specified.

Note 2 – Plates with universal rolled edges will be gas cut to length only.

**Permitted Camber for Carbon Steel Only for Sheared Plates and
Gas-Cut Rectangular Plates, All Thicknesses
(from ASTM A6-04b)**

Maximum permissible camber, in. = $1/8$ in. x (number of feet of length/5)

Camber as it relates to plates is the horizontal edge curvature in the length, measured over the entire length of the plate in the flat position.

**Permitted Camber for Alloy and High Strength Low Alloy Sheared,
Special-Cut or Gas-Cut Rectangular Plates
(from ASTM A6-04b)**

| Thickness (inches) | Specified Weight lb/ft ² | Widths (inches) | Camber Tolerances for Thicknesses and Widths Given |
|-----------------------|---|--------------------|---|
| To 2 incl. | To 81.7 incl. | All | $1/8$ in. x (no. of feet of length/5) |
| Over 2 to 15 incl. | 81.7 to 613.0 incl. | To 30 incl. | $3/16$ in. x (no. of feet of length/5) |
| Over 2 to 15 incl. | 81.7 to 613.0 incl. | Over 30 | $1/4$ in. x (no. of feet of length/5) |

Additional Information



ArcelorMittal

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BethStar®

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Clean-Cut®

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