



JSW Steel (USA) INC.
 5200, East Mackinney Road,
 BAYTOWN, TX 77520

METALLURGICAL TEST REPORT

MET - 05
 10/2/2017

Order No.	1021484	Order Dimensions	0.625x180x240
Product Name	JSW08819-02	Order Origin	MEXICO
Head	S240S2	TC No.	1021484-4052-1
PO No.	HOU-9464	Slab Origin	ARCELOR MITTAL
Shipping Mode	TRUCK	Slab Origin	ARCELOR MITTAL, MEXICO

We hereby certify that the material described herein has been made to the application by the B.O.S process and tested in accordance with the requirements of American Bureau of Shipping Rules with satisfactory results.

Plates Certified for the Following Grades
 ASTM-A36, ASTM-A708-36, A55-A57A/AR

Specifications

Shipping Instructions
 Stored in 1 location(s); X Loc. 18 Y Loc. 30; CUST. MADE/INUSA/PN PO; DIM GRADE: FREIGHT ORDER/ITEM PLATED SHIPWEEK SLAB/D TRANS/MODE Stamp in 1 location(s); X Loc. 18 Y Loc. 12; Slab ID: Slab ID

Sold To: CHAPEL STEEL CO. 590 NORTH BETHLEHEM PIKE SPRING HOUSE, PENNSYLVANIA 19477-1000
 Ship To: CHAPEL STEEL CO. 6605 N.HOUSTON ROSSLYN RD. HOUSTON, TX 77081

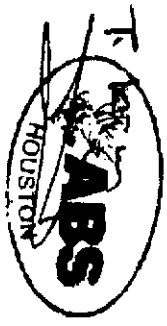
Test	C	Mn	P	S	SI	CU	NI	Cr	Mo	SN	Al	N	V	B	Ti	Nb	Ca	CE
LADLE	0.11	0.98	0.010	0.002	0.23	0.003	0.015	0.017	0.001	0.001	0.034	0.0025	0.005	0.0002	0.001	0.002	0.0020	0.28

Carbon Equivalent CE = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15
 PCM = C + Si/30 + Mn/20 + Cu/20 + Nb/50 + Cr/20 + Mn/15 + V/10 + S/8

Plate	Slab	Gauge	Test	Test	Yield	Tensile	Elong	YS/UTS	Yield Strength
Identify	Tested	Tested	Cond	Dir.	Point	Stgn.	In 2"	Ratio	Determined At
1049040	01A	0.6250	AR	T	38	62	38.0%	0.81	0.2%
1049041	01B	0.6250	AR	T	38	62	41.0%	0.81	0.2%

Plates Certified For The Above Tests

Material	Thickness	Width	Length	Weight	Material	Thickness	Width	Length	Weight	Material	Thickness	Width	Length	Weight
10600283	0.6250	96.000	240.00	4084										



ABS CERTIFICATION IS LIMITED TO ONLY ABS GRADES

HS 3385595 OCT 04 17
 American Bureau of Shipping
 Houston, TX

Beckler Roberson

DNV: EN 10204 2.1 This is to certify that the product described herein was manufactured, sampled, and tested in accordance with the specifications and requirements in such specifications. Fine Grain, Si-Mn Fully Killed Steel. We certify that delivery of this product with the requirements of the specification and purchase order received from customer.



Beckler Roberson 832-940-4514 beckler.roberson@jswsteelusa.com