

Load Number	Tally	Mill Order Number	PO NO Line NO	Part Number	Certificate Number	Prepared
R162359	0000000745447	N-158478-001	HOU-8441 1		S74544701-1	08/21/2017 09:11

Customer:

Order Description: Hot Roll Plate From Coil ABS B, 0.2500 IN x 96.000 IN x 480.000 IN Quality Plan Description: ABS-B/A131-B: ABS A&B 17/A131-B/A36-14/A709-36-15/ASME SA36-15	Sold TO: CHAPEL STEEL Houston TX Ship TO: CHAPEL STEEL NORTH HOUSTON TX Sent TO:
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Shipped Item	Heat/Slab Number	Certified By	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb	V	Al	Ti	N2	B	Ca	Sn	CEV	ACI
7H1829D	87U5657-01 ***	B7U5657	0.20	0.87	0.001	0.006	0.06	0.20	0.07	0.10	0.030	0.003	0.005	0.035	0.002	0.007	0.0001	0.0018		0.38	
7H1829E	87U5657-01 ***	B7U5657	0.20	0.87	0.001	0.006	0.06	0.20	0.07	0.10	0.030	0.003	0.005	0.035	0.002	0.007	0.0001	0.0018		0.38	
7H1830B	87U5657-02 ***	B7U5657	0.20	0.87	0.001	0.006	0.06	0.20	0.07	0.10	0.030	0.003	0.005	0.035	0.002	0.007	0.0001	0.0018		0.38	

Shipped Item	Certified By	Heat/Slab Number	Yield ksi	Tensile ksi	Y/T %	ELONGATION %		Bend OK?	Hard HB	Charpy Impacts (ft-lbs)			Shear %			Test Temp						
						2"	8"			Size mm	1	2	3	1	2		3	Avg				
7H1829D	S7H1829FTT	87U5657-01 ***	47.7	70.6	67.6	32.5																
7H1829D	S7H1829MTT	87U5657-01 ***	47.6	65.2	73.0	33.1																
7H1829E	S7H1829FTT	87U5657-01 ***	47.7	70.6	67.6	32.5																
7H1829E	S7H1829MTT	87U5657-01 ***	47.6	65.2	73.0	33.1																
7H1830B	S7H1830FTT	87U5657-02 ***	48.8	70.3	69.4	30.9																
7H1830B	S7H1830MTT	87U5657-02 ***	47.4	65.1	72.8	30.8																

Items: 3 PCS: 30 Weight: 98013 LBS

Mercury has not come in contact with this product during the manufacturing process nor has any mercury been used by the manufacturing process. Certified in accordance with EN 10204 3.1. No weld repair has been performed on this material. Manufactured under the ABS Quality Assurance program Certificate number 10-MMPQA-634. We hereby certify that the information herein has been made to the applicable specifications by the EAF process and tested in accordance with the requirements of the ABS rules with satisfactory results. Manufactured to a fully killed fine grain practice. NUTEMPER TEMPER PASSED plate from coil ISO 9001:2015 Registered, PED Certified

We hereby certify that the product described above passed all of the tests required by the specifications.

Quilin Yu
Dr. Quilin Yu - Metallurgist

**** indicates Heats melted and Manufactured in the U.S.A.