



# Test Certificate

12400 Highway 43 North, Axis, Alabama 36605, US

**WARNING:** This product can expose you to chemicals including nickel and nickel compounds, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Customer:

Customer P.O.No.:HOU-10907  
Product Description: ABS (2023) GR A / GR B  
ASTM A36(19)/A709(21)36/ASME SA36(21)  
ASTM A283-C(18)/ASME SA283-C(21)  
0.80-0.90% MN, 0.10% MAX S

Customer P.O.No.:HOU-10907  
Mill Order No. 41-706990-02

Shipping Manifest: AR330567  
Ship Date: 28 May 23  
Cert No: 081114689  
Cert Date: 28 May 23 (Page 1 of 1)

Form TC1: Revision 5: Date 22 Aug 2022

Tested Pieces:

Heat Id	Piece Id	Tested Thickness	Loc	YS (KSI)	UTS (KSI)	%RA	Elong %	Tst Dir	Hardness	Abs. Energy (FTLB)	% Shear Avg	Tst Temp	Tst Dir	Tst Siz (mm)	BDWTT Temp %Shr
E3E235	D05	0.236 (DISCRT)	L 51	64	64		42	T		1	2	3			
E3E235	D07	0.247 (DISCRT)	L 51	64	64		42	T		1	2	3			

Chemical Analysis

Heat Id	C	Mn	P	S	SI	Total Sol AI	CU	NI	CR	MO	CB	V	TI	Gev	ORGN	
E3E235	.08	.84	.008	.003	.29	.023	.022	.28	.12	.13	.04	.002	.003	.018	.20	USA

**KILLED STEEL**  
MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.  
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY SSAB AMERICAS BY THE ELECTRIC FURNACE / STRAND CAST PROCESS AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS.  
CEY = C + MN/6  
KILLED STEEL, PRODUCED TO A FINE GRAIN PRACTICE  
MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT  
100% MELTED, POURED, AND ROLLED IN THE USA  
NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.  
PRODUCTS SHIPPED:  
E3E235 D04 PCHS: 15, LBS: 49005 R3E235 D05 PCHS: 15, LBS: 49005

(P) Cust Part #: \_\_\_\_\_  
WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION \_\_\_\_\_  
Jason Thomas  
Director Technical Services