



# Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, 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).

Form TC1: Revision 5: Date 22 Aug 2022

Customer: **Customer P.O.No.:** HOU-11186 **Mill Order No.:** 41-728976-01 **Shipping Manifest:** AR393924

**Product Description:** ABS (2023) GR A / GR B **Ship Date:** 12 Jan 24 **Cert No.:** 081153686

ASTM A36(19)/A709(21)36/ASME SA36(23) **Cert Date:** 12 Jan 24 (Page 1 of 1)

ASTM A283-C(18)/ASME SA283-C(23) **Size:** 0.188 X 96.00 X 480.0 (IN)

CSA G40.21(13/18)38W/260W/0.80-0.90% MN

Tested Pieces:		Tensiles:		Charpy Impact Tests											
Heat Id	Piece Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong %	Tst Dir	Hardness	Abs. Energy(FITLB)	% Shear	Tst Tmp	Tst Dir	Tst Size (mm)	BDWTT Tmp %shr
E4A099	A02	0.195 (DISCRT)	L 57	67			39	T							

Chemical Analysis																		
Heat Id	C	Mn	P	S	SI	Total SOLAI	Cu	NI	Cr	Mo	Ch	V	Ti	B	N	Cev	ORGN	
E4A099	05	84	011	002	30	024	022	27	12	10	03	000	002	023	0001	0074	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.  
 CEV = 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:  
 E4A099 A02 PCS: 20, LBS: 49140

(P) Cust Part #:

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION.

*Jason Thomas*  
 Jason Thomas  
 Director Technical Services