

(GOVERNMENT OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2015 CERTIFICATE NO. 04 100 011022

F860(F824) QC 09/00/11.01.2018

L/C NO. & DATE :

**MILL TEST CERTIFICATE / INSPECTION CERTIFICATE**  
**ACCORDING TO EN 10204-3.1:2005**

				<b>TEST CERTIFICATE NO.</b> : TC-0044-23-24/05 <b>DATE OF ISSUE</b> : 28/05/2023 <b>P.O. NO.</b> : LA9119 <b>S/C NO. &amp; DATE</b> : 22-23/00121, Dt. 14/03/2023 <b>INVOICE NO. &amp; DATE</b> : TC-0044-23-24, Dt. 28/05/2023									
<b>PRODUCT DESCRIPTION</b> STAINLESS STEEL ANGLES [HRAP]				<b>LENGTH</b>					<b>NET WEIGHT</b>				
				<b>ORDERED</b>		<b>ACTUAL</b>							
				20-22 FEET		20-22 FEET			1323 LBS				
<b>ARTICLE #</b>	<b>ITEM #</b>	<b>HEAT #</b>	<b>GRADE AISI</b>	<b>SIZE IN</b>		<b>TOLERANCE</b>	<b>PROCESS ROUTE</b>						
-	A6L02000024	CH-19081	316/316L S31600/S31603	2X2X3/8		ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting						
<b>CHEMICAL COMPOSITION (WEIGHT %)</b>													
	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Mo</b>	<b>Ni</b>	<b>Cu</b>	<b>Ti</b>	<b>Nb/Cb</b>	<b>N</b>	
<b>MIN</b>	-	-	1.25	-	-	16.00	2.00	10.00	-	-	-	-	
<b>MAX</b>	0.030	1.00	2.00	0.040	0.030	18.00	3.00	14.00	1.00	-	-	0.1000	
<b>RESULTS</b>	0.020	0.42	1.77	0.040	0.018	16.70	2.02	10.06	0.49	-	-	0.0680	
<b>MECHANICAL PROPERTIES</b>													
<b>Test Method :- EN ISO 6892-1 &amp; EN ISO 6506-1</b>													
<b>SPECIFIED VALUES</b>	<b>YIELD STRENGTH</b> N/mm <sup>2</sup> /MPa 0.2% (Rp0.2)		<b>TENSILE STRENGTH</b> N/mm <sup>2</sup> /MPa (Rm)		<b>ELONGATION after</b> Fracture (A) % 4D / 5D		<b>REDUCTION OF AREA</b> (%)		<b>HARDNESS</b> HBW				
<b>MIN</b>	206		517		30		50		140				
<b>MAX</b>	-		792		-		-		255				
<b>RESULTS</b>	351		649		37		61		192-195				
<b>Remarks :</b>													
1. Hot Rolled, Shot-Blasted and Pickled. 2. PMI Test done 100% & found satisfactory. 3. Solution Annealed at 1050 C and soaked for 30 minutes and water quenched. 4. Grainsize No. 5-7 as per ASTM E 112-13 test method. 5. Material is free from mercury contamination. 6. Material is free from radio-active contamination. 7. Macro Structure - C2R2S2 of ASTM E 381-01. 8. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation. 9. InterGranular Corrosion Test found satisfactory as per ASTM A262 - 15 (Pr.E). 10. Location of sample - Off centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat. 11. Marking details - Company Logo, Size, Grade & Heat No. 12. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin. 13. No welding/weld repairs was performed on this material. 14. The material conforms to ASTM A276/A276M-17, ASTM A484/A484M-20a, ASTM A479/A479M-20, ASME SA479/SA-479M-19 SECTION II-PART A, AMS-QQ-S-763D, AMS-5647K & AMS-5639J Specifications. 15. AMS 5648M (AISI 316 / 316L), AMS 5653H (AISI 316 / 316L) specification													
<b>BUNDLE NO. : 6A77</b>							<b>COLOUR : WHITE</b>						

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & Purchase Order.



**B. S. RAUTELA**  
MANAGER - QUALITY ASSURANCE