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(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 / INSPECTION CERTIFICATE 3.1
 ACCORDING TO EN 10204 : 2005

Consignee							Test Certificate No. : SS-0013 - 11-2022-2023						
							Date of Issue : 24.04.2022						
							P. O. NO. : 8158						
							SC_No. & Date : 21-22/00089, Dt.02.11.2021						
							Invoice No. & Date : SS-0013-2022-23 Dt.24.04.2022						
PRODUCT DESCRIPTION STAINLESS STEEL UNEQUAL LEG ANGLES (HRAP)							LENGTH				Net Wt.		
							Ordered		Actual		5684 LBS.		
							20' - 22'		20' - 22'				
Article No.	Item No.	Heat No.	Material/Grade	Size mm/inch	Tolerance	Process Route							
-	-	CH-16072	304/304L 1.4301/1.4307	6" x 4" x 1/2"	ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)													
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Co	N	
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-	-	
Max.	0.030	0.75	2.00	0.040	0.030	19.60	1.00	10.00	1.00	-	-	0.1000	
Results	0.023	0.34	1.72	0.035	0.022	18.56	0.25	8.02	0.71	-	-	0.0690	
MECHANICAL PROPERTIES													
Specified Values	Test Method :- EN ISO 6892-1					Hardness EN ISO 6506-1 (BHN)	Test Method :- Charpy 'V' Notch Impact Tested (2mm) as per DIN EN ISO 148 - 1						
	Proof Strength N/mm ² /MPa		Tensile Strength N/mm ² /MPa (Rm)		Elongation after Fracture (A) %		Reduction of Area (Z) %	Sample Size - Test Temp. :- 20 °C (Joules)					
	0.2%(Rp0.2)	1%(Rp1.0)						I	II	III	Avg.		
Results	338	365	624		44	62	188-191	N.A.	N.A.	N.A.	N.A.		
Remarks:													
1. Hot Rolled, Shot-Blasted and Pickled.						2. Solution annealed at 1050 °C.							
3. PMI test done 100% & found Satisfactory.						4. Material is free from radio-active contamination.							
5. Material free of contamination from mercury or metals liquid at ambient temperature.													
6. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.													
7. The material conforms to DIN EN 10088-3:2014, AD W0, ASTM A276/A276M-17, ASTM A484/A484M-20a, ASTM A479/A479M-20, ASME SA479/SA-479M-21 SECTION II, PART A, AMS-QQ-S-763D, AMS - 5647K & AMS - 5639J Specifications.													
8. Surface condition found satisfactory as per EN 10163-3 Class D.													
9. Location of sample - Off Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat.													
10. Marking details - Company Logo, Size, Grade & Heat No.													
11. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.													
12. No welding/weld repairs was performed on this material.													
BUNDLE NO.: YC68,YC69,YC70,YE33							COLOUR : BLUE						



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 - Q.A./WORKS INSPECTOR