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Works : Plot # 31 to 36, 45 to 49/2, 142 (Exp. Area), G.I.D.C. Umbergaon, District - Valsad,  
Gujarat - 396171, India. & Survey No. 102/2 & 102/3, Village - Dohri, Taluka - Umbergaon,  
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CDXB4276-4



**CHANDAN  
STEEL LIMITED**

TRUE STAINLESS VALUE

(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**

CONSIGNEE :				TEST CERTIFICATE NO. : TC-0165-22-23/04								
				DATE OF ISSUE : 14/10/2022								
				P.O. NO. : LA5062								
				S/C NO. & DATE : 22-23/00025, Dt. 06/07/2022								
				INVOICE NO. & DATE : TC-0165-22-23, Dt. 14/10/2022								
PRODUCT DESCRIPTION STAINLESS STEEL ANGLES [HRAP]				LENGTH		NET WEIGHT						
				ORDERED	ACTUAL							
				20-22 FEET	20-22 FEET	16534 LBS						
ARTICLE #	ITEM #	HEAT #	GRADE AISI	SIZE IN	TOLERANCE	PROCESS ROUTE						
-	A4L02000016	CH-17253	304/304L S30400/S30403	2X2X1/4	ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting						
CHEMICAL COMPOSITION (WEIGHT %)												
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Nb/Cb	N
MIN	-	-	-	-	-	18.00	-	8.00	-	-	-	-
MAX	0.030	1.00	2.00	0.040	0.030	20.00	1.00	11.00	1.00	-	-	0.1000
RESULTS	0.024	0.46	1.70	0.034	0.006	18.09	0.31	8.03	0.49	-	-	0.0840
MECHANICAL PROPERTIES												
Test Method :- EN ISO 6892-1 & EN ISO 6506-1												
SPECIFIED VALUES	YIELD STRENGTH N/mm <sup>2</sup> /MPa 0.2% (Rp0.2)		TENSILE STRENGTH N/mm <sup>2</sup> /MPa (Rm)		ELONGATION after Fracture (A) % 4D / 5D		REDUCTION OF AREA (%)	HARDNESS HBW				
MIN	206		586		30		50	140				
MAX	-		792		-		-	241				
RESULTS	357		648		39		62	195-198				
Remarks :												
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.												
BUNDLE NO. : 0188,0189,0190,0191,0192,0193,0194,0195,0196,0197,0198,0199										COLOUR : YELLOW		

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