



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2009 CERTIFICATE No. 04 100 011022-E3

ADM. OFFICE: 504, SUKH SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA

Tel.: 91-22- 66290600. Fax: 91-22-66290633/34

Website : www.chandansteel.net

Email : cs@chandansteel.net

WORKS: Plot No. 35, G. I. D. C., Umbergaon

Dist Valsad, Gujarat - 396 171.

Tel: 91-260- 308 9999 Fax.: 91-260 308 9872

E-mail : exports@chandansteel.net



I/c. No.:

I/c. Date:

F824 QC 09A/02/10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

Consignee DAMSTAHL GmbH Raiffeisenstrasse 6 - 8, 40764 Langenfeld GERMANY						Test Certificate No. : EXP/01324- 13/2014-2015 Date of Issue : 11.03.2015 P. O. No. : 369.857 SC_No. & Date : 14-15/00847, Dt.11.02.2015 Invoice No. & Date : EXP/01324/2014-15 Dt.11.03.2015						
PRODUCT DESCRIPTION STAINLESS STEEL FLAT BARS [HRAP] [CONDITION - 1D]						LENGTH		Net Wt.				
						Ordered	Actual	3135 Kgs.				
						5.9 - 6.0 Mtrs.	5.9 - 6.0 Mtrs.					
Article No.	Item No.	Heat No.	Material/Grade	Size mm	Tolerance	Process Route						
-	6585	CH-1709	1.4301/1.4307 304/304L	120 x 15 mm	DIN 1017/EN 10058	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	1.00	2.00	0.045	0.030	19.50	-	10.50	-	-	-	0.1000
Results	0.028	0.47	1.79	0.036	0.028	18.06	-	8.07	-	-	-	0.0770
MECHANICAL PROPERTIES												
Specified Values	Test Method :- EN 10002-1					Hardness EN ISO 6506-1 (BHN)	Test Method :- DIN EN ISO 148 - 1					
	Proof Strength N/mm²/MPa		Tensile Strength N/mm²/MPa (Rm)	Elongation after Fracture A %	Reduction of Area %		Charpy (V) Impact Test (2mm) at 20 °C (Joules) Sample Size - 10 x 10 x 55 mm					
	0.2%(Rp0.2)	1%(Rp1.0)					I	II	III	Avg.		
Results	295	343	610	54	65	174-177	137	144	134	138.33		
Remarks: 1. Condition : 1D (Hot Rolled, Shot-Blasted and Pickled) 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. The material is fully killed and calcium treated. 5. Material is free from radio-active contamination. 6. Intergranular Corrosion test carried out as per EN/ISO 3651-2-1998 (Test method A) found satisfactory. 7. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation. 8. The material conforms to EN 10088-5:2009, EN 10272-2008 & AD 2000 W2 Specification. 9. Additionally requirement meets to DIN 1017 and EN 10058 specifications. 10. Appoved acc.to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg. no.:0045) . 11. Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat. 12. Marking details - Company Logo, Size, Grade & Heat No. 13. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin.												

BUNDLE NO.: 37 to 41 & 43

COLOUR : WHITE

Intended use : Building construction or civil engineering.

Regulated substance : No performance determined.

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

D.O.P. No.: 1.4301/FL

D.O.P. can be seen here: www.chandansteel.net

B. S. RAUTELA

MANAGER - Q.A./WORKS INSPECTOR



0005431394