



**CHANDAN STEEL LIMITED**  
(GOVT OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 2008 CERTIFICATE No 04 100 011022 E3

ADM OFFICE 504 SUNH SAGAR N S PATKAR MARG MUMBAI 400 007 INDIA

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

Website www.chandansteel.net

Email csl@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



L/c No

L/c Date

F824 QC 09A / 02 / 10 12 2012

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

Consignee <b>DAMSTAHL a/s</b> Danmarksvej 28, DK - 8660 Skanderborg DENMARK				Test Certificate No EXP/01349- 23/2014-2015	
				Date of Issue 18 03 2015	
				P O No 524378	
				SC_No & Date 14-15/00845, Dt 11 02 2015	
				Invoice No & Date EXP/01349/2014-15 Dt 18 03 2015	

PRODUCT DESCRIPTION				LENGTH		Net Wt	
STAINLESS STEEL FLAT BARS [HRAP] [CONDITION - 1D]				Ordered	Actual	1102 Kgs	
				4 8 - 5 3 Mtrs			4 8 - 5 3 Mtrs

Article No	Item No	Heat No	Material/Grade	Size mm	Tolerance	Process Route
-	6585	CH-2002	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	-	-	-	-	-	17.50	-	8.00	-	-	-	-
Max	0.030	1.00	2.00	0.045	0.030	19.50	-	10.50	-	-	-	0.1000
Results	0.026	0.40	1.80	0.040	0.025	18.10	-	8.01	-	-	-	0.0800

**MECHANICAL PROPERTIES**

Specified Values	Test Method - EN 10002-1					Hardness EN ISO 6506-1 (BHN)	Test Method - DIN EN ISO 148 - 1 Charpy (V) Impact Test (2mm) at 20 °C (Joules) Sample Size - 10 x 10 x 55 mm			
	Proof Strength N/mm <sup>2</sup> /MPa		Tensile Strength N/mm <sup>2</sup> /MPa (Rm)	Elongation after Fracture A %	Reduction of Area %		I	II	III	Avg
	0.2% (Rp0.2)	1% (Rp1.0)								
Results	300	343	612	53	63	165-168	136	141	132	136.33

**Remarks**

- Condition 1D (Hot Rolled, Shot-Blasted and Pickled)
- Solution annealed at 1050 °C
- PMI test done 100% & found Satisfactory
- The material is fully killed and calcium treated
- Material is free from radio-active contamination
- Intergranular Corrosion test carried out as per EN/ISO 3651-2-1998 (Test method A) found satisfactory
- The material conforms to EN 10088-5 2009, EN 10272-2008 & AD2000 W2-2008 Specification
- Additionally requirement meets to DIN 1017 & EN 10058 specifications
- Approved acc to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg no 0045)
- Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Flat
- Marking details - Company Logo, Size, Grade & Heat No
- The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin



BUNDLE NO 8 & 9

COLOUR BLUE

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 KAUTELA**  
MANAGER - Q A /WORKS INSPECTOR