



CUSTOMER : DAMSTAHL A/S DANMARKSVEJ 28 8680 SKANDERBORG DENMARK	Approved acc. To AD 2008-Markblatt W8 / W2 and certified acc. To PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD System (Notified body, reg no. · 0045)		MTR NO.	986955/ 1
			DATE	15.03.2015
			GRADE	1 4301 / 1-4307
			MATERIAL SPECIFICATION	EN 10088-3 , EN 10088-5, EN 10272 & AD 2000 W2/W10
	STEEL MAKING ROUTE / INDUCTION MELTED / AOD/ CC		DIMENSIONAL SPECIFICATION	DIN 1028 / EN 10056-PART 2
			HOT ROLLED ANNEALED & PICKLED (ID) ANGLE BAR	

SR. NO.	ITEM DESCRIPTION	ORDER NO	HEAT NO	PIECES	QTY(MT)	C	Mn	SI	S	P	Cr	Ni	Mo	Cu	Ti	Co	N
1	90 X 90 X 9 MM	516949	97638	7	0.511	0.024	0.94	0.35	0.022	0.038	18.30	8.08	0.45	0.47	0.004	0.17	0.085
2	80 X 80 X 8 MM	516949	98321	58	3.354	0.024	1.06	0.36	0.024	0.037	18.10	8.02	0.49	0.43	0.004	0.17	0.082
3	50 X 50 X 5 MM	522287	98439	43	0.980	0.027	1.22	0.50	0.023	0.035	18.10	8.09	0.30	0.60	0.003	0.15	0.071
4	50 X 50 X 5 MM	522287	98472	31	0.700	0.021	1.17	0.49	0.022	0.040	18.08	8.01	0.49	0.50	0.004	0.15	0.076

HEAT NO	SAMPLE NUMBER	DIRECTION	TEST TEMP (DEG. C)	TENSILE STRENGTH (MPa)	PROOF STRENGTH (MPa)			% ELONGATION	% REDUCTION AREA	SPECIMEN SIZE	TEST TEMP (DEG. C)	CHARPY V-NOTCH (JOULES)				HARDNESS (BHN) (EN 18003-1)
					R _{p0.2}		R _{p1.0}					1	2	3	Ave	
					R _{p0.2}	R _{p0.2}										
97638	890000145797	L	RT	664 00	312 00	352.00	47 00	58 00	55 x 10 x 7.5	RT	130	128	132	130	197	
98321	890000145783	L	RT	658 00	309 00	349.00	46 00	57 00	55 x 10 x 7.5	RT	128	130	132	130	195	
98439	890000146568	L	RT	661 00	311 00	351 00	45 00	56 00	55 x 10 x 5.0	RT	130	128	132	130	196	
98472	890000146229	L	RT	668 00	314 00	354 00	45 00	56 00	55 x 10 x 5.0	RT	128	132	128	129	198	

MARKING	SIZE, GRADE, HEAT NO., LOGO & INSPECTOR STAMP
HEAT TREATMENT	SOLUTION ANNEALED AT 1050°C AND WATER QUENCHED
DIMENSIONS	CONFORM TO THE SPECIFICATION
ORIENTATION/LOCATION	STRIP SAMPLE FROM 1/3rd OF FLANGE END
SURFACE INSPECTION	SATISFACTORY
PMI	NO OBJECTION(100% TESTED WITH MOBILE SPECTRO)
INTER GRANULAR CORROSION TEST	PASSED IGC TEST IN ACCORDANCE WITH DIN ISO 3651-2
MICRO OBSERVATION	NO CARBIDE PRECIPITATION OBSERVED ON GRAIN BOUNDARIES
RADIO ACTIVITY TEST	MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION
USES	CORROSION RESISTANT STEEL ANGLE/ FLAT/CHANNEL FOR BUILDING CONSTRUCTION OR CIVIL ENGINEERING
REGULATED SUBSTANCE	NO PERFORMANCE DETERMINED
REMARKS	MATERIAL IS FREE FROM MERCURY CONTAMINATION, WELDING & WELD REPAIRS



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