

	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade										No.: / Nr.: /Nr.:				
	EN 10204:2004 / 3.1										0000095427				
Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458				Unsere innere Verweisung /Our Int. Ref/ N/ ref int						Datum / Date / Data					
				5600021684 000010						30.04.2014					
Normen / Standards / Normas															
1.4404 acc. to EN 10088-3: 05, to ASTM A276-10, A479/A479M-13 ASME SA276, SA479/SA479M, ASTM A484/A484M-13 NACE MR 0175-2001															
Kunde / Customer / Cliente						Endgültiger Kunde / Final Customer / Cliente Final									
Bestell Nr./Order Nr./ Enc.Nr. B01657						Bestell Nr./ Order Nr./ Enc.Nr. B01657.1									
Prufgegenstand / Product / Produto				Gewicht / Weight / Peso				Bunde / Bundle / Atados							
AISI 316/L SQ 3"				2.049 kg				04							
Werkstoff-Nr. Material-no. Qualidade 1.4404				Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNiMo 17-12-2											
Beschreibung / Description / Descrição															
Stainless steel square bars hot rolled, heat treated, straightened, pickled.															
Schmelzen Nr. Cast nr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %													
56140406		C:	0.020	Si:	0.580	Mn:	1.550	P:	0.031	S:	0.027	Cr:	16.710	Ni:	10.080
EAF		Mo:	2.040	Co:	0.380	Cu:	0.390	N:	0.050	Ti:	0.003	W:		V:	
Proben Nr. Test no. Amostra no.		DIN EN 10045				ISO 6892-1									
		Kerbschlagarbeit Impact Test Resiliência		Streckgrenze Yield point Tensão limite		Dehngrenze 1% point Limite de extensão		Zugfestigkeit Tensile strength Tensão de rotura		Dehnung Elongation Alongamento		Einschnürung Reduction of area Coef. Estricção			
		(Charpy V)		Rp 0,2 %		Rp 1,0%		Rm		A (A50-50mm)		Z (A50-50mm)			
		[ J ]		[ MPa ]		[ MPa ]		[ MPa ]		[ % ]		[ % ]			
3037998.02.01		218		295		344		600		66.5		70.0			
3037998.02.02		215		311		352		609		64.9		68.9			
Visuelle Kontrolle Visual Inspection Inspeção visual		<input checked="" type="checkbox"/> OK		DIN EN 6506-1 Härte Hardness Dureza 170 [ HB ]				DIN 3651 - 2A Korrosionsbeständigkeit IC Test Corrosão Intercristalina		<input checked="" type="checkbox"/> OK		Wärmebehandlung Heat treatment Tratamento térmico			
ASTM A484 Maßkontrolle Dimensional Inspection Inspeção dimensional		<input checked="" type="checkbox"/> OK		Korngröße Grain size Tamanho de grão				Werksachverständiger Quality Control Representative Inspector da Qualidade		Solution annealing 1050 °C  (Water quenched)		David Reis (0 - DR)			
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test											
Material free from segregation defects.				<input checked="" type="checkbox"/> OK											
Bemerkungen / Remarks / Observações						Bollinghaus Steel, SA									
Country of origin: Portugal. No weld repair done.						Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.									
Material is free of mercury and radiation contamination.						We confirm that this material meets the specification according the mentioned standards.									
Certified acc. PED 97/23/EC-EN 764-5 and AD 2000 W0						Confirmamos que este material respeta as especificações de acordo com as normas referidas.									
Notified Body 0035 - TÜV Rheinland Industrie Service GmbH															
01 202 926/Q-02 0040															

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1" NPT F/F 90° Elbow 10K