

38452

Sheet No. 4-00088 (001)

Date of Issue : 2019-04-12

INSPECTION CERTIFICATE

Customer : FERRECARBSA-FCB20190004

Order No. 9-3T-A22-3-4-6003 003 US00-170

Commodity : HOLLOW SECTION

Supplier : MITSUBISHI & CO., LTD.

Specification : ASTM A500-BC

Size	No. of Pieces	Mass kg	Ident No.	Tensile Test		Elongation %	Chemical Composition %						Coating Mass g/m ²	Remarks
				YS PSI	Tensile Strength PSI		C	Si	Mn	P	S			
0.750X20X20	9	31,248		70,500	78,500	37	8	18	96	17	5			
	8		ZU3542	62,000	78,000	36	8	17	93	15	4			
	1		ZU3989											

Notes) YS : Yield Strength YP : Yield Point C : Good GL-GAGE LENGTH

We hereby certify that the material described herein has been made to the applicable specification and that test results satisfy the requirements of the contracts. THIS APPLICABLE SPECIFICATION IS ASTM A500-10A GRADE BC

NIPPON STEEL METAL PRODUCTS CO., LTD.
Hirohata Works
 Chief of Inspection section *M. Kubota*
 Export Sect.
 PHONE: (81-3) 3630-2138
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Sheet No. 2-00130 (001)

35463

INSPECTION CERTIFICATE

Customer : FERRRECBASA-FCE20190001

Date of Issue : 2019-02-22

Order No. 9-3T-A22-3-2-6001 003 US00-0M1

Commodity : HOLLOW SECTION

Supplier : MITSUBISHI & CO., LTD.

Specifications : ASTM A500-BC

Size in	ft	No. of Pieces	Mass kg	Heat No.	Tensile Test			Charpy Transition Temp °C	Charpy Energy J	Charpy Energy ft-lb	Remarks	
					YS PSI	Tensile Strength PSI	Elongation %					
0.313X14X14	40.000	27	26,080									
		15		TY6018	61,000	76,500	33	18	1	80	22	7
		12		TY6020	58,500	74,000	34	18	1	77	16	5
0.375X20X12	40.000	29	41,296									
		5		TA7169	51,000	70,000	36	18	1	77	18	7
		24		TA7170	51,000	71,000	37	18	1	76	15	7
0.500X20X12	40.000	12	22,464									
		5		TA7166	54,500	73,000	35	18	1	78	17	6
		7		TA7167	53,000	72,000	36	18	0	77	14	6

(Notes) YS : Yield Strength YP : Yield Point G : Good

GI: GAGE LENGTH

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Nippon Steel & Sumikin Metal Products Co., Ltd.
Hirohata Works

Chief of Inspection section: *M. Kubota*

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