

Contract No.	
Customer	PLESA ANAHUAC Y CIAS., S.A. DE C.V.
L/C No.	
P/O No.	32201610C331
Commodity	PRIME NEWLY PRODUCED WIDE FLANGE BEAM.
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

MILL TEST CERTIFICATE.



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161104369 - 3
Class Cert. No.	
Date of Issue	2016-11-22

EN 10204(2004) TYPE 3.1

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1	2		3
			×100		×1000		×100		×1000		×100		N/mm ²		%		(¹)	c				
8X8X43 4C.00 FT	D 136843	6 5,226	17	15	59	24	4	28 10	2 15	3 3	18	22	33	530 526	401 396	26.9 0.76	0.76					
8X8X43 4C.00 FT	D 137225	6 5,226	18	16	63	30	5	30 9	2 21	3 4	17	13	36	535 526	415 408	24.0 0.78	0.78					
1CX4X19 4C.00 FT	D 137118	63 21,735	17	15	65	26	5	28 9	1 20	4 3	14	14	35	550 545	433 428	25.0 0.79	0.79					
1CX5-3/4X26 4C.00 FT	D 137196	32 15,104	16	17	62	24	5	19 8	1 14	3 2	14	8	31	540 537	408 406	22.5 0.76	0.76					
1CX5-3/4X26 4C.00 FT	D 137205	56 26,432	18	17	59	26	9	30 9	1 18	4 4	17	14	34	555 556	419 415	22.5 0.76	0.75					
1CX8X39 4C.00 FT	D 137362	18 12,744	18	14	61	22	9	25 9	2 16	3 2	16	13	34	525 529	391 397	27.5 0.74	0.75					
1CX8X39 4C.00 FT	D 137363	6 4,248	16	15	61	22	5	27 8	2 14	3 2	16	16	32	532 528	396 392	26.5 0.74	0.74					
1CX9X39 4C.00 FT	D 137365	6 4,248	16	18	72	23	5	33 9	2 11	4 24	13	13	34	534 538	401 407	25.5 0.75	0.76					
12X4X19 4C.00 FT	D 136857	30 10,350	17	16	57	20	3	30 9	2 11	4 3	17	13	32	537 531	408 406	24.0 0.76	0.76					
SUB TOTAL		223 105,313																				

(Note), (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

J. C. Ahn
General Manager of Q.A Team

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER