

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

MILL TEST CERTIFICATE.

EN 10204(2004) TYPE 3.1



Head Office 63, Jungbong-daero, Dong-gu,
Incheon, 22525, S. Korea

Certificate No. IH20161104369 - 4

Class Cert. No.

Date of Issue 2016-11-22

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		%		c					
12X6-1/2X26 40.00 FT	D 137102	6 2,832	16	16	60	29	4	32 10	2 26	4 3	17	25	34	528 531	394 393	24.5 0.74	0.75					
12X6-1/2X26 40.00 FT	D 137103	18 8,496	16	17	58	26	2	28 9	2 30	4 4	16	11	35	539 542	397 399	24.5 0.74	0.74					
12X6-1/2X26 40.00 FT	D 137597	3 1,416	16	14	63	27	11	30 10	2 16	3 3	15	14	33	523 520	385 381	25.0 0.74	0.73					
12X6-1/2X26 40.00 FT	D 137598	18 8,496	17	16	62	29	5	28 11	2 22	5 3	16	16	35	529 524	381 378	25.0 0.72	0.72					
12X6-1/2X30 40.00 FT	D 137612	55 29,920	16	14	68	29	7	31 11	2 17	3 3	16	23	34	525 522	390 388	24.0 0.74	0.74					
12X6-1/2X30 40.00 FT	D 137613	66 35,904	18	14	60	30	9	33 10	2 19	2 2	14	14	35	543 538	396 392	24.5 0.73	0.73					
18X7-1/2X50 40.00 FT	E 193472	29 26,303	19	17	64	26	8	29 8	2 11	3 13	3	14	35	563 556	435 433	23.0 0.77	0.77					
18X7-1/2X50 40.00 FT	E 193473	16 14,512	19	17	63	26	9	23 8	2 8	9 14	2	8	34	550 542	428 426	23.0 0.79	0.79					
18X7-1/2X50 40.00 FT	E 193904	3 2,721	18	25	63	25	10	26 10	2 14	4 17	3	11	34	530 539	400 403	25.0 0.75	0.75					
SUB TOTAL		214 130,600																				

(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