

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 - 1
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 <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3
			x100		x1000		x100		x1000		x100		N/mm <sup>2</sup>	%		(%)	°C					
6X4X16 40.00 FT	D 137491	12 3,480	16	15	63	24	4	25 9	2 18	4 3	14	14	33	533 539	400 406	26.0 25.5	0.75 0.75					
6X4X16 40.00 FT	D 137501	36 10,440	16	18	65	25	7	20 8	1 16	5 3	14	12	32	532 528	406 399	26.5 27.0	0.76 0.76					
6X4X16 40.00 FT	D 137502	132 38,280	19	16	66	18	4	18 7	1 10	3 2	16	10	34	532 528	400 396	24.5 25.0	0.75 0.75					
6X6X20 40.00 FT	D 137072	16 5,808	17	17	63	24	3	26 8	1 15	4 3	14	10	33	524 521	402 394	26.0 26.5	0.77 0.76					
6X6X20 40.00 FT	D 137346	40 14,520	17	16	58	26	7	28 8	1 12	3 3	14	16	32	538 537	407 402	25.0 24.5	0.76 0.75					
8X4X10 40.00 FT	D 137046	12 2,172	17	14	58	25	5	33 12	2 13	3 2	14	13	33	544 536	412 410	23.0 23.5	0.76 0.76					
8X4X10 40.00 FT	D 137050	2 362	17	18	62	29	10	29 9	2 15	3 3	15	15	33	535 538	420 418	24.0 24.5	0.79 0.78					
8X4X10 40.00 FT	D 137674	96 17,376	15	15	65	25	3	28 9	2 13	3 2	14	20	31	548 545	420 417	25.5 26.5	0.77 0.77					
8X4X10 40.00 FT	D 137695	36 6,516	17	17	61	26	4	28 9	2 13	3 2	14	13	33	556 559	421 424	26.5 25.5	0.76 0.76					
SUB TOTAL		382 98,954																				

(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