

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 - 2
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	Mo	Al	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3
			×100		×1000		×100		×1000			×100	N/mm <sup>2</sup>		%		°C					
8X4X10 40.00 FT	D 137696	36 6,516	15	16	65	31	5	29	2	3	18	15	32	551	428	27.0	0.78					
8X6-1/2X24 40.00 FT	D 136899	50 21,750	11	19	114	35	3	28	1	18	3	21	36	524	396	24.5	0.76					
8X8X31 40.00 FT	D 137228	45 25,290	18	14	60	28	3	29	2	3	16	15	35	511	380	27.0	0.74					
8X8X31 40.00 FT	D 137229	3 1,686	18	13	63	24	9	30	2	2	16	16	36	525	390	26.0	0.74					
8X8X35 40.00 FT	D 137229	8 5,080	18	13	63	24	9	30	2	2	16	16	36	540	410	23.5	0.76					
8X8X35 40.00 FT	D 137230	26 16,510	19	14	60	27	4	31	2	3	14	16	36	536	396	24.0	0.74					
8X8X40 40.00 FT	D 136843	13 9,438	17	15	59	24	4	28	2	3	18	22	33	526	396	26.0	0.75					
8X8X40 40.00 FT	D 137225	16 11,616	18	16	63	30	5	30	2	3	17	13	36	541	410	25.0	0.76					
8X8X48 40.00 FT	D 136842	10 8,710	17	15	62	26	4	28	3	2	18	16	34	526	388	26.0	0.74					
SUB TOTAL		207 106,596																				

(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