

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.



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161104369 - 5
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	
			x100		x1000		x100		x1000		x100		N/mm ²		%		()	c					
18X7-1/2X71 40.00 FT	E 193442	15 19,335	18	15	95	17	10	25 8	2 10	3 13		3	10	39	535 531	375 370	25.5 25.0	0.70 0.70					
18X7-1/2X71 40.00 FT	E 193477	14 18,046	18	22	97	31	8	23 8	1 16	3 13		3	10	40	540 546	392 395	27.5 27.0	0.73 0.72					
18X7-1/2X71 40.00 FT	E 193478	5 6,445	18	18	97	29	10	25 8	1 18	4 14		3	11	40	543 550	395 397	26.0 25.5	0.73 0.72					
12X8X40 40.00 FT	D 137172	2 1,452	19	17	65	18	7	24 8	1 10	4 2		17	12	34	536 532	435 433	26.5 27.5	0.81 0.81					
12X8X40 40.00 FT	D 137177	80 58,080	20	14	60	20	4	23 8	1 11	4 2		15	9	35	535 524	404 399	22.0 21.5	0.76 0.76					
12X8X40 40.00 FT	D 137178	8 5,808	18	14	63	25	2	25 8	1 13	4 2		17	12	34	535 526	402 395	25.5 26.5	0.75 0.75					
14X5X26 40.00 FT	D 137246	25 11,800	17	15	59	24	4	32 10	2 10	3 2		14	16	32	523 520	393 362	22.5 23.0	0.75 0.70					
14X5X26 40.00 FT	D 137247	15 7,080	17	16	60	20	5	31 10	2 12	3 2		16	16	33	530 526	401 400	23.5 24.0	0.76 0.76					
14X5X26 40.00 FT	D 137249	5 2,360	19	12	59	22	5	30 9	2 13	3 2		16	14	34	517 512	371 368	23.0 22.5	0.72 0.72					
SUB TOTAL		169 130,406																					

(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