Contract No.	
Customer	PLESA ANAHUAC Y CIAS., S.A. DE C.V.
L/C No.	
P/O No.	32201610C322
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

HYUNDAI STEEL

Head Office	63, Jungbong-daero, Dong-gu, Incheon,22525, S. Korea
Certificate No.	IH20161104368 - 2
Class Cert. No.	
Date of Issue	2016-11-22

Dimensions & Length	Heat No.	Pieces / Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	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)		AVG	1	2	3	
			×100			×1000		×100		×1000			×100	N/mm²		%		(°)	°C			
8X4X13 40.00 FT	D 137052	96 22,656	19	15	65	30	5	34 10	2 24	4 5	16	17	38	563 568	423 425	24.0 23.5	0.75 0.75					
8X4X15 40.00 FT	D 137040	47 12,784	16	14	61	26	9	33 9	2 20	3 3	16	16	33	565 558	420 415	23.5 24.0	0.74 0.74					
8X4X15 40.00 FT	D 137041	132 35,904	21	20	65	23	6	34 10	2 22	4 4	17	18	40	561 552	410 402	23.5 24.0	0.73 0.73					
8X4X15 40.00 FT	D 137042	144 39,168	17	16	58	18	6	29 9	1 11	3 2	15	12	32	547 543	409 404	24.0 24.5	0.75 0.74					
8X5-1/4X21 40.00 FT	D 136703	48 18,288	17	14	61	28	3	35 9	2 21	3 2	17	18	35	538 531	412 409	27.5 28.5	0.77 0.77					
8X5-1/4X21 40.00 FT	D 136704	48 18,288	19	16	60	31	4	26 9	2 17	4 2	18	16	35	536 529	411 406	28.0 29.0	0.77 0.77					
8X5-1/4X21 40.00 FT	D 137261	94 35,814	18	13	63	28	10	30 10	3 21	2 3	16	16	36	522 520	412 408	27.0 26.5	0.79 0.78					
8X5-1/4X21 40.00 FT	D 137264	24 9,144	16	16	58	22	4	22 8	2 15	2 2	14	10	31	503 514	382 390	26.0 26.5	0.76 0.76					
8X5-1/4X21 40.00 FT	D 137265	16 6,096	16	16	59	16	5	23 8	2 10	3 2	17	12	30	523 525	423 418	26.0 25.5	0.81 0.80					
SUB TOTAL		649 198,142																				

(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