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 - 5
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			
16X7X36 40.00 FT	E 193406	10 6,530	14	14	50	26	9	29 8	2 17	3 12	2	17	29	498 495	403 403	24.5 24.0	0.81 0.82					
16X7X36 40.00 FT	E 193407	10 6,530	14	16	52	25	9	29 9	2 16	3 12	3	11	29	509 491	391 380	25.5 25.0	0.77 0.77					
16X7X50 40.00 FT	E 193377	21 19,047	19	17	66	20	10	25 8	1 13	4 13	2	17	35	531 526	397 395	26.0 25.0	0.75 0.75					
16X7X50 40.00 FT	E 193378	45 40,815	18	15	65	20	9	27 9	2 12	3 17	2	11	34	524 529	395 398	24.5 24.0	0.75 0.75					
16X7X50 40.00 FT	E 193408	13 11,791	18	17	64	27	5	29 8	2 18	4 14	3	13	35	525 526	401 401	29.5 29.0	0.76 0.76					
16X7X50 40.00 FT	E 193409	26 23,582	20	16	64	33	8	29 8	2 22	3 16	3	11	38	552 546	427 422	26.0 25.5	0.77 0.77					
16X7X50 40.00 FT	E 193410	10 9,070	18	16	66	23	7	28 8	2 15	3 16	3	10	35	536 533	420 418	26.0 26.5	0.78 0.78					
16X7X50 40.00 FT	E 193411	28 25,396	19	15	64	26	8	26 7	2 18	3 16	3	11	36	527 533	410 412	26.5 26.0	0.78 0.77					
16X7X50 40.00 FT	E 193412	2 1,814	18	19	64	28	9	26 7	2 18	4 13	2	10	35	534 527	396 394	27.0 28.0	0.74 0.75					
SUB TOTAL		165 144,575																				
TOTAL		4,271 1,184,688	====== E N D ======																			

(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

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