

Contract No. PLESA ANAHUAC Y CIAS., S.A.  
 DE C.V.  
 L/C No.  
 P/O No. 32201610C322  
 Commodity PRIME NEWLY PRODUCED WIDE FLANGE BEAM  
 Specification ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

**MILL TEST CERTIFICATE.**

**HYUNDAI STEEL**  
 Head Office 63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea  
 Certificate No. IH20161104368 - 4  
 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
			x100	x100	x1000	x1000	x1000	x1000	x100	x100	x1000	x1000	x1000	x1000	x100	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	(%)	( )	c			( )
14X5X22 40.00 FT	D 137240	10 3,990	17	25	59	24	10	21	8	12	2	5	17	13	32	524	403	22.5	0.77					
14X5X22 40.00 FT	D 137241	85 33,915	16	14	59	22	9	23	2	14	3	3	15	13	31	526	408	23.0	0.78					
14X5X22 40.00 FT	D 137242	45 17,955	16	15	58	26	4	29	2	14	3	3	15	15	31	527	403	23.5	0.76					
14X5X22 40.00 FT	D 137243	75 29,925	16	14	59	21	9	27	2	12	2	2	15	12	31	518	402	24.0	0.78					
14X5X22 40.00 FT	D 137244	5 1,995	16	15	59	29	4	30	2	14	2	2	16	15	32	526	412	24.5	0.78					
16X7X36 40.00 FT	E 193402	45 29,385	14	14	51	25	9	10	9	11	3	2	14	14	30	512	429	22.5	0.84					
16X7X36 40.00 FT	E 193403	38 24,814	13	15	55	25	10	34	2	11	2	3	12	29	509	428	23.0	0.84						
16X7X36 40.00 FT	E 193404	75 48,975	14	15	52	27	9	27	2	12	2	2	13	30	505	406	22.0	0.82						
16X7X36 40.00 FT	E 193405	22 14,366	13	16	52	24	9	27	3	11	3	3	16	29	495	393	25.5	0.79						
SUB TOTAL		400 205,320																						

(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