

Contract No.	
Customer	PLESA ANAHUAC Y CIAS., S.A. DE C.V.
L/C No.	
F/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.

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161104368 - 3
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	Ni	Mo	Cr	Al	V	Nb	Sn	CE ⁽¹⁾ X100	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG		1	2	3
			x100	x100	x1000	x1000	x1000	x100	x100	x1000	x1000	x100	x100	x1000	x1000	x100	x100	N/mm ²	%	%	(%)		()	c	c
10X4X12 40.00 FT	D 137301	10 2,180	17	14	56	21	3	26	9	10	2	3	15	13	31	535	412	24.0	0.77						
10X4X12 40.00 FT	D 137302	265 57,770	18	15	60	20	4	27	2	10	2	3	13	11	33	535	405	23.5	0.76						
10X4X12 40.00 FT	D 137303	190 41,420	17	17	58	21	5	25	2	10	2	3	16	14	32	547	407	24.0	0.77						
10X4X12 40.00 FT	D 137304	140 30,520	16	16	59	21	5	30	2	10	2	3	17	15	32	544	439	23.5	0.80						
10X5-3/4X22 40.00 FT	D 137175	2 798	15	16	99	27	4	19	1	16	19	4	5	7	37	563	422	23.5	0.75						
10X5-3/4X22 40.00 FT	D 137184	8 3,192	8	22	147	15	1	16	2	11	8	25	34	6	37	533	423	25.5	0.79						
10X5-3/4X22 40.00 FT	D 137185	64 25,536	7	22	160	15	1	16	2	11	6	21	38	10	38	534	419	25.0	0.79						
10X5-3/4X22 40.00 FT	D 137186	208 82,992	7	17	145	12	1	16	2	11	6	19	38	14	34	533	430	24.0	0.81						
10X5-3/4X22 40.00 FT	D 137187	48 19,152	17	15	70	27	2	28	2	10	13	27	4	11	35	524	407	25.5	0.78						
SUB TOTAL		935 263,560																							

(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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