Contract No.	
Customer	PLESA ANAHUAC Y CIAS., S.A. DE C.V.
PO No.	32201610C341
L/C No.	
Commodity	**PRIME NEWLLY PRODUCED WIDE FLANGE BEAM.**
Specification	**ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)**

MILL TEST CERTIFICATE.

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20170103441-1
Class certificate No.	
Issue date	2017-01-14

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition																			Tensile Test			Yield Ratio(3)	BEND TEST	Impact Test(L) V-Notch °C				Remarks (Impact Specimen Size)
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CE(1)				Tensile Strength	Yield Strength	Elongation (2)				AVG	1	2	3	
					×100			×1000		×100				×1000				×100				N/mm2		%	-	-		-				
12X4X19	40.00 FT	D 138023	50	17,250	18	16	61	22	4	30	10	2	20	4	3	16	12	35				532 536	405 410	26.0 25.5	0.76 0.76								
12X4X19	40.00 FT	D 138024	10	3,450	17	13	57	27	5	31	10	2	20	3	3	15	18	34				530 535	420 424	25.5 26.0	0.79 0.79								
12X4X19	40.00 FT	D 138025	2	690	16	13	61	27	4	30	11	2	24	3	3	16	15	34				523 528	410 412	26.0 25.5	0.78 0.78								
12X4X22	40.00 FT	D 138009	10	3,990	18	15	58	22	6	30	10	2	9	2	1	13	15	33				538 530	413 407	24.5 24.0	0.77 0.77								
12X4X22	40.00 FT	D 138010	30	11,970	16	14	58	21	7	34	10	2	9	3	2	16	12	31				542 534	410 405	23.0 23.5	0.76 0.76								
12X4X22	40.00 FT	D 138011	4	1,596	17	17	60	19	7	29	10	2	10	3	2	15	11	32				541 533	428 422	24.0 24.5	0.79 0.79								
TOTAL			**106**	**38,946**	====== E N D ======																												

(1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)
(2) Gauge length : 200 mm
(3) Y.R = Y.S/T.S

Note

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.

J. C. Ahn

General Manager of Q.A Team