

MINOAN GRACE



INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

PAGE: [1 / 1]

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	32201612C91P
L/C No.	
Commodity	H-BEAM
Specification	HOT ROLLED WIDE FLANGE BEAM ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM) PARA MATERIAL DE VIGA

Factory	6363,Donghaean-ro,Nam-gu,Pohang-si,Gyeongsangbuk-do,S.Korea
Certificate No.	IH20170204222-1
Class certificate No.	
Issue date	2017-02-21

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			Yield Ratios			BEND TEST			Impact Test(L)			Remarks (Impact Specimen Size)						
					x100			x1000			x1000			x100			Tensile Strength N/mm2	Yield Strength N/mm2	Elongation (%)	Yield Ratio(%)	BEND TEST	V-Notch	°C		AVG	1	2	3								
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb							Sn	CE _T					1		2	3				
30X10-1/2X108	40.00 FT	3G3369	3	5,877	18	15	99	16	10	20	9	2	15	2	30	2	11	40	561	438	27.0	0.78														
30X10-1/2X108	40.00 FT	3G3370	3	5,877	17	15	99	16	9	18	10	3	22	2	30	1	9	41	558	434	28.2	0.77														
30X10-1/2X108	40.00 FT	3G3372	1	1,959	18	16	102	16	10	18	10	3	18	2	30	2	10	42	562	434	26.0	0.77														
30X10-1/2X108	40.00 FT	3G3373	9	17,631	17	16	101	13	8	20	9	2	16	2	31	1	8	40	559	430	27.3	0.76														
																			558	435	25.3	0.77														
																			554	432	26.8	0.77														
																			563	436	27.4	0.77														
																			560	433	27.9	0.77														
TOTAL			16	31,344																																

===== END =====

Conditions of supply : As Rolled	Note
(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	

<p>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.</p>	
<p>General Manager of Q.A Team</p>	