

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C331
Commodity	H-BEAM
Specification	HOT ROLLED WIDE FLANGE BEAM ASTM A572 G50/A992/CSA G 40.21-13 50WM (345WM) PARA MATERIAL DE VIGA

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161203229 - 1
Class Cert. No.	
Date of Issue	2016-12-19

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	3		
			×100		×1000		×100		×1000		×100		×100		N/mm ²		%						
12X8X45 40.00 FT	E 194088	5 4,080	18	15	66	24	6	29 7	1 20	3 15		1	9	36	538 535	385 392	26.0 27.0	0.72 0.73					
12X8X45 40.00 FT	E 194093	32 26,112	18	18	67	22	3	27 8	1 17	5 16		1	9	35	540 537	393 391	24.0 24.5	0.73 0.73					
TOTAL		37 30,192	===== E N D =====																				

(Note) (1) Ceo: (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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