

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C111
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20160201768 - 8
Class Cert. No.	
Date of Issue	2016-02-16

EN 10204(2004) TYPE 3.1

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	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⁾		AVG	1	2	3	
			x100		x1000		x100		x1000		x100		N/mm ²		%	()		°C				
18X6X35 40.00 FT	E 187530	5 3,175	15	15	51	22	9	18 7	2 17	3 12	2	13	29	472 472	366 373	30.0 28.5	0.78 0.79					
18X6X35 40.00 FT	E 187755	10 6,350	14	13	52	21	9	28 10	2 15	4 14	1	14	29	487 484	379 374	28.0 29.0	0.78 0.77					
18X6X35 40.00 FT	E 187756	3 1,905	14	13	52	24	12	27 9	2 13	3 13	3	11	28	490 486	372 370	30.5 31.0	0.76 0.76					
18X6X35 40.00 FT	E 187757	16 10,160	13	15	51	26	9	27 12	2 11	5 13	2	23	27	503 497	411 404	26.0 26.5	0.82 0.81					
18X6X35 40.00 FT	E 187758	5 3,175	14	12	50	29	11	26 8	2 13	3 12	2	11	28	489 491	371 374	26.0 26.5	0.76 0.76					
18X6X35 40.00 FT	E 187760	16 10,160	14	13	56	22	11	23 30	7 18	3 13	1	12	32	500 503	392 400	26.5 26.0	0.78 0.80					
18X6X35 40.00 FT	E 187761	3 1,905	14	14	51	23	9	25 9	2 12	6 11	2	12	28	502 494	383 380	25.5 25.5	0.76 0.77					
18X6X35 40.00 FT	E 187762	4 2,540	14	17	53	22	7	24 8	2 13	3 15	1	10	28	502 497	388 385	25.0 25.5	0.77 0.78					
18X6X35 40.00 FT	E 187763	3 1,905	13	18	51	18	11	21 7	2 9	3 15	1	9	26	508 503	392 383	25.0 25.5	0.77 0.76					
SUB TOTAL		65 41,275																				

(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