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ORIGINAL



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Contract No.	Z240405875
Customer	HYUNDAI CORPORATION
PO No.	F240400480
L/C No.	L0696240600527
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20240500326-1
Class certificate No.	
Issue date	2024-07-01

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio (%)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)	Country of Melt and Pour	
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Strength	Yield Strength	Elongation (2)			V-Notch			°C			
					x100		x1000		x100			x1000		x1000	x100	N/mm2		%	-	-	-			-						
8X5-1/4X18	12.00 M	D 180448	32	10,272	17	15	60	25	3	26	10	2	10	4	1	16	92	32	542	406	24.5	0.750								KOR
TOTAL			32	10,272																										

===== E N D =====

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

Note
 Melted and Poured in Republic of Korea
 Country of Produce and Process - Republic of Korea
 HSCODE(H Section) : 7216.33

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.

기혁윤

General Manager of QA Team

※ 현대제철은 검사증명서를 사본으로 제출하지 않습니다. 사본일 경우, 현대제철 각 영업소로 확인하시기 바랍니다. 문의)02-772-2125

Contract No.	Z240405875
Customer	HYUNDAI CORPORATION
PO No.	F240400480
L/C No.	L0696240600527
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G4021-13 50WM(345WM)

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1



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Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20240600105-1
Class certificate No.	
Issue date	2024-07-01

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio (%)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)	Country of Melt and Pour				
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Strength	Yield Strength	Elongation (2)			V-Notch			°C						
					x100		x1000		x100			x1000		x10000	x100	N/mm2		%	-	-	AVG			1	2	3							
8X6-1/2X24	12.00 M	D 182474	32	13,728	16	16	60	24	4	26	9	2	21	3	2	14	122	33	549	391	24.0	0.713											KOR
8X6-1/2X24	12.00 M	D 182475	16	6,864	17	14	61	25	5	27	10	2	17	2	2	15	129	33	545	402	24.0	0.738											KOR
TOTAL			48	20,592																													

===== E N D =====

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

Note
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Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20240500327-1
Class certificate No.	
Issue date	2024-07-01

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio (%)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)	Country of Melt and Pour						
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Strength	Yield Strength	Elongation (%)			V-Notch		°C									
					×100		×1000		×100			×1000		×1000	×100	N/mm2	%		-	-	AVG			1	2	3									
8X4X15	12.00 M	D 182134	31	8,308	10	16	80	19	9	26	11	2	16	3	2	18	121	29			526 524	420 418	25.1 24.8	0.799 0.798											KOR
10X10X49	12.00 M	E 243000	12	10,500	17	14	61	16	9	20	6	1	11	2	16	1	81	32			507 500	362 369	29.3 28.1	0.715 0.738											KOR
12X6-1/2X26	12.00 M	D 182101	10	4,640	16	16	60	27	4	27	10	2	16	3	1	15	88	32			539 539	393 387	25.8 26.1	0.730 0.718											KOR
12X6-1/2X26	12.00 M	D 182102	18	8,352	16	15	62	26	7	28	10	2	15	3	2	17	103	32			560 561	426 400	24.4 25.2	0.761 0.714											KOR
TOTAL			71	31,800															===== END =====																

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

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