



Factory: 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
 Certificate No. IH20230200078-16
 Class certificate No.
 Issue date: 2023-03-02

INSPECTION CERTIFICATE
 EN 10204(2004) TYPE 3.1

Contract No.	
PO No.	SSW132390
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A592/CSA G40.21-13 50MM(E45NR0)

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test		Impact Test(I)			Remarks (Impact Specimen Size)				
					x100			x1000			x1000			x1000			Yield Strength N/mm ²	Elongation %	Yield Ratio	V-Notch		°C					
					C	Si	Mn	P	S	Cu	Ni	Nb	Al	Cr	Mo	V				N	Ce _M			AVG	1	2	3
21X12-1/4X132	60.00 FT	N 066433	2	7,164	17	15	113	25	13	23	8	2	11	2	15	1	121	41	552	383	26.8	0.694					
21X12-1/4X132	60.00 FT	N 066437	1	3,592	17	15	112	14	6	21	7	2	9	2	15	1	130	40	551	393	26.4	0.714					
21X12-1/4X147	40.00 FT	N 066433	4	10,668	17	15	113	25	13	23	8	2	11	2	15	1	121	41	544	391	26.6	0.719					
24X9X68	45.00 FT	N 065997	2	2,776	18	20	63	22	6	24	8	2	13	5	15	1	149	34	539	396	26.3	0.735					
24X9X68	45.00 FT	N 065998	6	8,328	18	21	64	24	8	22	8	2	15	5	14	1	156	34	555	406	23.8	0.732					
24X7X55	40.00 FT	E 235301	3	2,994	13	15	55	27	10	32	10	2	18	4	13	1	121	29	543	387	27.8	0.713					
24X7X55	40.00 FT	E 235302	6	5,988	15	19	54	21	6	26	8	2	11	5	13	1	129	29	546	401	27.2	0.735					
24X7X55	40.00 FT	E 235303	6	5,988	14	17	56	23	7	25	9	1	13	4	13	1	112	29	556	402	26.8	0.724					
24X7X55	40.00 FT	E 235584	1	998	11	18	51	13	9	24	9	3	9	11	13	1	94	24	516	412	28.0	0.799					
24X7X55	40.00 FT	E 235587	1	998	14	18	53	18	5	24	12	3	10	6	12	1	109	28	512	414	27.8	0.809					
SUB TOTAL			32	49,514															483	372	26.0	0.771					

Note: Melted and Poured in Republic of Korea
 (1) Ceq: (C+(Cr+V+Mo)/5+(Cu+Ni)/15+Mn)/6
 (2) Gauge length : 200 mm
 (3) Y.R. = Y.S./T.S.

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.

General Manager of QA Team

This test report can be verified the authenticity to scan the top-right QR code via "Qreal" mobile app.

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