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INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

Contract No.	Z230401977
Customer	SPS
PO No.	F230400103
L/C No.	4500549124
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50MM(345MM)

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20230600161-1
Class certificate No.	
Issue date	2023-07-04

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition												Tensile Test		Yield Ratios		BEND TEST			Impact Test(L)			Remarks (Impact Specimen Size)						
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Strength	Elongation (2)	%	V-Notch	AVG	1	2	3		°C					
					x100	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x100	N/mm ²	%															
8X8X31	40.00 FT	D 177654	66	37,092	16	14	61	32	6	30	8	1	25	3	2	15	89	34	547	395	25.5	0.723											
8X8X31	40.00 FT	D 177656	18	10,116	16	14	60	22	8	25	8	1	15	8	1	16	81	31	559	396	26.0	0.709											
8X8X31	40.00 FT	D 177657	12	6,744	17	14	62	21	4	24	10	2	20	3	2	18	104	34	518	399	25.3	0.771											
8X8X31	40.00 FT	D 178219	6	3,372	16	16	61	24	7	24	9	2	23	4	3	17	130	33	516	394	25.1	0.764											
10X8X33	40.00 FT	D 177413	18	10,782	18	17	61	18	9	25	9	2	13	2	1	15	121	33	528	383	25.5	0.726											
10X8X33	40.00 FT	D 177665	6	3,594	16	14	64	22	6	21	8	2	22	3	2	17	103	33	522	374	26.0	0.717											
10X8X33	40.00 FT	D 177666	36	21,564	16	15	62	20	8	23	7	1	15	3	1	16	94	32	527	389	27.0	0.739											
10X8X45	40.00 FT	D 177606	36	29,376	17	14	61	21	4	28	10	3	18	2	1	14	66	34	534	387	26.4	0.725											
10X8X45	40.00 FT	D 177607	12	9,792	16	14	62	31	4	25	10	4	29	2	3	14	49	35	558	401	25.2	0.719											
14X14-1/2X90	40.00 FT	N 068122	2	3,264	19	14	95	28	8	22	9	1	13	3	13	2	141	40	546	399	25.5	0.731											
SUB TOTAL			212	135,696																													

Note
 Melted and Poured in Republic of Korea

(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

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 Q.A Team

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

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