

Contract No.	
PO No.	SSW125711
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 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.	IH20220406340-6
Class certificate No.	
Issue date	2022-04-22

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			Yield Ratio(%)	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	Yield Strength			Elongation(2)	V-Notch				°C
					×100			×1000		×100			×1000			×1000	×100	N/mm2	N/mm2	%			AVG	1	2	3		
10X4X12	40.00 FT	D 171793	100	21,800	17	15	62	32	8	20	11	3	20	3	3	17	125	34	552	439	27.8	0.796						
																			542	448	27.1	0.827						
10X4X12	50.00 FT	D 171794	80	21,760	16	15	64	27	5	25	11	2	17	3	2	17	147	33	555	444	27.4	0.800						
																			551	445	26.2	0.808						
10X4X12	60.00 FT	D 171794	24	7,848	16	15	64	27	5	25	11	2	17	3	2	17	147	33	555	444	27.4	0.800						
																			551	445	26.2	0.808						
10X4X12	60.00 FT	D 171795	56	18,312	16	15	61	30	7	27	10	2	27	2	2	15	122	34	550	447	25.4	0.813						
																			545	444	26.2	0.815						
10X4X15	40.00 FT	D 171795	30	8,160	16	15	61	30	7	27	10	2	27	2	2	15	122	34	538	439	26.5	0.816						
																			538	438	27.2	0.815						
10X4X15	40.00 FT	D 171866	10	2,720	16	14	59	28	8	23	9	2	23	2	2	16	89	33	557	442	23.5	0.794						
																			569	431	23.0	0.758						
10X4X17	50.00 FT	D 171791	28	10,808	15	15	60	21	5	19	9	2	11	3	2	16	130	30	555	425	24.6	0.766						
																			557	422	23.5	0.758						
10X4X17	60.00 FT	D 171791	34	15,742	15	15	60	21	5	19	9	2	11	3	2	16	130	30	555	425	24.6	0.766						
																			557	422	23.5	0.758						
10X4X19	40.00 FT	D 171790	44	15,180	16	17	62	21	4	20	10	2	14	3	2	16	111	32	530	404	24.5	0.763						
																			537	402	25.0	0.749						
10X4X19	60.00 FT	D 171790	10	5,170	16	17	62	21	4	20	10	2	14	3	2	16	111	32	530	404	24.5	0.763						
																			537	402	25.0	0.749						
SUB TOTAL			416	127,500																								

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- (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

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