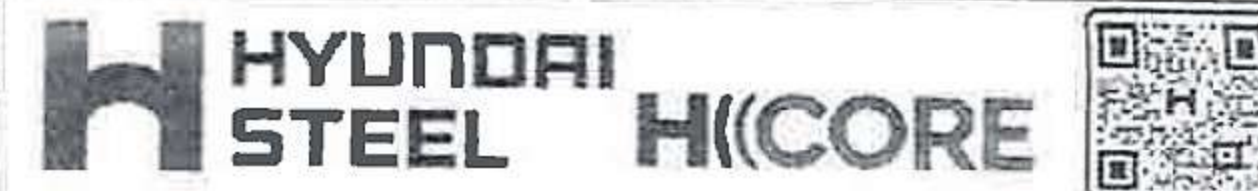


Contract No.	
Customer	DUFERCO
PO No.	32201910C22Q
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)

ORIGINAL

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1



PAGE: [1 / 1]

Factory	6363,Donghaean-ro,Nam-gu,Pohang-si,Gyeongsangbuk-do,SKorea
Certificate No.	IH20191005645-1
Class certificate No.	
Issue date	2019-12-03

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	Sn	CEq	Tensile Strength	Yield Strength	Elongation (%)	V-Notch			°C				
					×100		×1000		×100			×1000			×100		N/mm2	%	-	-	AVG	1			2	3			
14X16X145	40.00 FT	3I3628	1	2,631	18	14	100	16	10	19	11	3	14	5	54	2	16	41	559	403	25.6	0.720							
14X16X145	40.00 FT	3I3629	12	31,572	17	17	100	16	12	21	10	3	11	5	54	2	11	40	555	412	23.1	0.740							
14X16X159	40.00 FT	3I3630	5	14,425	17	15	99	18	12	21	11	3	16	5	53	2	10	40	569	410	21.9	0.720							
14X16X159	40.00 FT	3I3676	4	11,540	17	15	99	18	12	21	11	3	16	5	53	2	10	40	569	406	22.5	0.710							
14X16X159	40.00 FT	3I3676	4	11,540	8	17	144	14	12	13	5	1	8	21	94	2	7	37	548	357	27.3	0.650							
14X16X159	40.00 FT	3I3677	3	8,655	8	17	144	14	12	13	5	1	8	21	94	2	7	37	552	365	27.4	0.660							
14X16X159	40.00 FT	3I3677	3	8,655	8	18	144	14	12	21	7	2	9	20	96	2	7	38	514	385	25.9	0.740							
14X16X159	40.00 FT	3I3677	3	8,655	8	18	144	14	12	21	7	2	9	20	96	2	7	38	523	393	25.9	0.750							
14X16X176	40.00 FT	3I3630	2	6,386	17	15	99	18	12	21	11	3	16	5	53	2	10	40	545	418	24.4	0.760							
14X16X176	40.00 FT	3I3630	2	6,386	17	15	99	18	12	21	11	3	16	5	53	2	10	40	544	418	23.7	0.760							
14X16X176	40.00 FT	3I3631	5	15,965	18	17	101	17	9	19	9	3	13	6	53	2	12	41	548	357	27.3	0.650							
14X16X176	40.00 FT	3I3631	5	15,965	18	17	101	17	9	19	9	3	13	6	53	2	12	41	552	365	27.4	0.660							
14X16X176	40.00 FT	3I3632	4	12,772	18	17	104	18	12	21	10	3	15	5	55	2	11	42	548	375	27.3	0.680							
14X16X176	40.00 FT	3I3632	4	12,772	18	17	104	18	12	21	10	3	15	5	55	2	11	42	550	370	27.0	0.670							
14X16X176	40.00 FT	3I3632	4	12,772	18	17	104	18	12	21	10	3	15	5	55	2	11	42	552	372	27.4	0.670							
14X16X176	40.00 FT	3I3632	4	12,772	18	17	104	18	12	21	10	3	15	5	55	2	11	42	551	372	27.3	0.670							
TOTAL			36	103,946																									

===== END =====

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

[Handwritten Signature]

General Manager of QA Team

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

2019.12.10.08:59:41

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HMS 1 102(A)-3a A4(210x297)