Contract No.	
Customer	DUFERCO
PO No.	32201910C222
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

HYUNDAI STEEL H(CORE

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20191106160-1
Class certificate No.	
Issue date	2019-12-04

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio(3)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)
																								V-Notch			°C	
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CEq(1)	Tensile Strength	Yield Strength	Elongation (2)			AVG	1	2	3	
					×100			×1000		×100				×1000				×100	N/mm2		%	-	-					
14X16X233	40.00 FT	N 050752	7	29,589	14	17	137	14	3	20	8	2	11	3	40	2	13	42	554 551	412 406	27.5 26.0	0.744 0.737						
14X16X233	40.00 FT	N 050753	1	4,227	13	17	141	12	3	22	9	3	12	4	42	4	13	42	562 560	415 418	23.0 26.0	0.739 0.747						
14X16X257	40.00 FT	N 050755	4	18,652	13	17	141	14	5	23	9	2	9	4	40	3	12	42	562 555	413 403	24.5 26.0	0.735 0.727						
14X16X257	40.00 FT	N 050756	3	13,989	13	18	140	13	5	16	7	1	9	5	40	1	7	41	558 554	417 400	26.0 26.5	0.748 0.723						
TOTAL			15	66,457	====== E N D ======																							

(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

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.