

Contract No.	SPS20180305-HJ1
Customer	
PO No.	32201803C211
L/C No.	
Commodity	WIDE FLANGE BEAM
Specification	HOT ROLLED WIDE FLANGE BEAM ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM) PARA MATERIAL DE VIGA

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1



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Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20180602922-1
Class certificate No.	
Issue date	May. 31, 2018

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition																Tensile Test			Yield Ratio ⁽³⁾	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)				
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield Strength	Elongation ⁽²⁾	V-Notch	°C											
					×100		×1000		×100				×1000				×100	N/mm ²	%	-	-	AVG	1			2	3							
21X12-1/4X101	40.00 FT	N 042825	6	10,992	19	15	95	23	10	26	9	1	11	5	15	4	12	40			554	382	26.5	0.690										
21X12-1/4X101	40.00 FT	N 042826	6	10,992	18	15	95	24	13	25	9	1	10	3	14	3	11	39			544	396	26.5	0.728										
21X12-1/4X111	40.00 FT	N 042825	2	4,028	19	15	95	23	10	26	9	1	11	5	15	4	12	40			545	397	26.0	0.729										
21X12-1/4X111	40.00 FT	N 042830	4	8,056	18	17	95	22	9	24	10	2	12	4	13	4	9	39			539	381	28.0	0.707										
21X12-1/4X111	40.00 FT	N 042831	3	6,042	18	15	94	20	10	23	11	2	11	4	13	2	9	39			537	387	26.5	0.728										
21X12-1/4X111	40.00 FT	N 042832	3	6,042	18	15	94	20	10	23	11	2	11	4	13	2	9	39			533	380	26.5	0.713										
21X12-1/4X111	40.00 FT	N 042831	3	6,042	18	15	94	20	10	23	11	2	11	4	13	2	9	39			528	372	27.0	0.705										
21X12-1/4X122	40.00 FT	N 042817	3	6,639	18	14	94	25	9	26	9	2	12	3	13	2	16	39			545	387	27.5	0.711										
21X12-1/4X122	40.00 FT	N 042818	11	24,343	18	15	95	26	11	28	9	2	12	3	14	2	10	39			542	381	27.5	0.703										
21X12-1/4X122	40.00 FT	N 042819	1	2,213	18	15	95	23	10	26	8	2	13	3	13	2	11	39			549	393	27.0	0.716										
21X12-1/4X122	40.00 FT	N 042819	1	2,213	18	15	95	23	10	26	8	2	13	3	13	2	11	39			542	386	29.0	0.713										
27X10X102	40.00 FT	N 043294	14	25,914	19	18	100	23	14	26	9	2	16	3	14	3	9	42			552	408	26.0	0.740										
SUB TOTAL			53	105,261																	568	413	25.5	0.728										
																					562	392	26.0	0.698										

===== N E X T =====

(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 <p align="center">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.</p>
	 General Manager of Q.A Team