

# INSPECTION CERTIFICATE



HEAD OFFICE : 6-1, MARUNOUCHI 2-CHOME, CHIYODA-KU,  
 TOKYO 100-8071, JAPAN  
 SAKAI WORKS : 1, CHIKKYOAWATA-CHO, SAKAI-KU, SAKAI-SHI,  
 OSAKA-PREF. 590-0901, JAPAN

CONTRACT No: 3-820-D3-5-9-NV01  
 REFERENCE No: J83-YK14V00X  
 SHIPPER : MARUBENI-ITOCHU STEEL INC.  
 CUSTOMER : FERRE BARNIEDO S.A. DE C.V.  
 SHIP No :  
 COMMODITY : WIDE FLANGE BEAMS  
 SPECIFICATION : ASTM A992-06A

CUSTOMER'S CONTROL No(1) : \_\_\_\_\_

PROJECT NAME : \_\_\_\_\_

DATE OF ISSUE : SEP. 24, 2013  
 CERTIFICATE No: 30924H098-001

REMARKS:		TENSILE TEST										BEND TEST		IMPACT TEST			
		*3 7:GL= 8 INCH (RECT)												*5			
1) TYPE OF STEEL : FULLY KILLED STEEL																	
SIZE	CUSTOMER'S CONTROL (2)	NUMBER OF PRODUCT	CAST No	TEST No	ORIENTATION	TEMP	P	YS	TS	EL YIELD RATIO	REDUCTION OF AREA	LOCATION	ORIENTATION	TEMP	AVG	INDIVIDUAL	
27"X14"X146LX40'		30	953643L8619	BD5710FL7	L	70	55	7530	73	%	%						
				BD5720EL7	L	70	56	7531	75	%	%						
		4	104963L8623	BD5210FL7	L	70	57	7730	74	%	%						
				BD5220EL7	L	70	58	7729	75	%	%						
TOTAL		40	10590														
27"X14"X178LX40'		5	161503K8195	BD5410FL7	L	70	57	7730	74	%	%						
				BD5420EL7	L	70	58	7730	79	%	%						
		5	161503K8197	BD5610FL7	L	70	56	7630	74	%	%						
				BD5620EL7	L	70	57	7630	75	%	%						
		28	904403L8623	BD5210FL7	L	70	57	7730	74	%	%						
				BD5220FL7	L	70	58	7729	75	%	%						

NOTES:	CHEMICAL COMPOSITION														CAST ANALYSIS				PRODUCT ANALYSIS			
	CAST No	C	Si	Mn	P	S	CU	NI	CR	MO	NB	V	SN	N	T-AE	Mn/C	CEQ-1	CEQ-2	Pcm	TE-1	TE-2	
*1 LOCATION F:FLANGE W:WEB C:CENTER																						
*2 ORIENTATION L:LONGITUDINAL C:TRANSVERSE Z:THROUGH THICKNESS																						
	3L8619	L	17	32	121	19	7	2	2	6	1	0	0	25	16	39				10		
	3L8623	L	16	34	124	20	7	2	2	6	0	0	0	26	17	38				10		
	3K8195	L	17	34	123	16	7	2	2	4	1	0	0	4	16	39				10		
	3K8197	L	16	35	123	11	8	2	2	4	1	0	0	3	31	38				10		

CEQ-1=C+Mn/6+(CR+MO+V)/5+(NI+CU)/15  
 TE-1=NB+V

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE CONTRACT.

K. Eda  
 SENIOR MANAGER  
 of QUALITY ASSURANCE  
 SHAPE DIV. SAKAI WORKS

# INSPECTION CERTIFICATE



HEAD OFFICE : 6-1, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8071, JAPAN  
 SAKAI WORKS : 1, CHIKIOYAWATA-CHO, SAKAI-KU, SAKAI-SHI, OSAKA-PRFB. 590-0001, JAPAN

CONTRACT No.: 3-820-D3-5-9-NV01  
 REFERENCE No.: J83-YK14V00X  
 SHIPPER : MARUBENI-ITOCHU STEEL INC.  
 CUSTOMER : FERRE BARNIEDO S. DE C.V.  
 SHIP No.:  
 COMMODITY : WIDE FLANGE BEAMS  
 SPECIFICATION : ASTM A992-06A

CUSTOMER'S CONTROL No.(1):  
 PROJECT NAME:

DATE OF ISSUE: SEP. 24. 2013  
 CERTIFICATE No.: 30924H098-002END

REMARKS: 1) TYPE OF STEEL : FULLY KILLED STEEL				TENSILE TEST						BEND TEST		IMPACT TEST	
				*3 7:GL= 8 INCH (RECT)								*6	
SIZE	CUSTOMER'S CONTROL No. (2)	QUANTITY	WEIGHTS	CAST No.	TEST No.	Y.P.	Y.S	EL. YIELD	REDUCTION OF AREA	*7			
			KG			MPa	MPa	RATIO	AVG	INDIVIDUAL			
27"X14"X178LX40		5	16150	3L8750BD5510	FL7	58	7730	75					
				BD5520	FL7	59	7729	77					
		4	10203	3L8756BD5310	FL7	57	7730	74					
				BD5320	FL7	58	7730	74					
TOTAL		47	151810										
G-TOTAL		87	257770										

FERRE BARNIEDO ORIGINAL CERTIFICADO  
 LA REMISION DE ESTOS ARCHIVOS  
 No. 50-36-10-00  
 ventas@ferrebarniedo.com

NOTES: *1 LOCATION F:FLANGE W:WEB C:CENTER *2 ORIENTATION L:LONGITUDINAL C:TRANSVERSE Z:THROUGH THICKNESS	CHEMICAL COMPOSITION (%100% CAST ANALYSIS P:PRODUCT ANALYSIS) %																				
	CAST No.	C	SI	Mn	P	S	CU	NI	CR	MO	NB	V	SN	N	T-A#	Mn/C	CEQ-1	CEQ-2	Pcm	TE-1	TE-2
		X100	X100	X100	X1000	X100	X100	X100	X100	X100	X100	X100	X100	X100	X1000	X1000	X1000	X1000	X1000	X1000	X1000
	3L8750	L 17	33	123	14	7	2	2	4	1	1	0	0	19	17	39				10	
	3L8756	L 16	34	121	16	7	2	2	6	1	1	0	0	32	24	38				10	

CEQ-1=C+Mn/6+(CR+MO+V)/5+(NI+CU)/15  
 TE-1=NB+V

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*H. Eda*  
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 of QUALITY ASSURANCE  
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