

42050

INSPECTION CERTIFICATE

Nippon Steel Corporation

CONTRACT No.: 0-820-D3-5-3-NV08
 REFERENCE No.: J83-YK44K003
 SHIPPER: MARUBENI-ITOCHU STEEL INC.
 CUSTOMER: FERRE BARNIEDO S.A. DE C.V.
 SHIP No.:
 COMMODITY: WIDE FLANGE BEAMS
 SPECIFICATION: ASTM A992-04A

CUSTOMER'S CONTROL No.(1):

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

PROJECT NAME:

DATE OF ISSUE: MAR. 19. 2010
 CERTIFICATE No.: 00319H032-001

REMARKS: 1) TYPE OF STEEL : FULLY KILLED STEEL						TENSILE TEST							BEND TEST	IMPACT TEST				
						*3 7: GL= 8 INCH (RECT)								*5				
SIZE						*4		*6										
						YP	YS	TS	EL	YIELD RATIO	REDUCTION OF AREA		*7		AVG		INDIVIDUAL	
CUSTOMER'S CONTROL No. (2)						NUMBER OF PRODUCT	MASS KG	CAST No.	TEST No.	LOCATION	ORIENTATION	SPECIMEN SIZE	TEST TEMP	LOCATION	ORIENTATION	SPECIMEN SIZE	TEST TEMP	
						KSI	%	%	%	%	%	%	%	%	%	%	%	
27"X14"X146LX40'						1	2649	M90209	CM0510	FL7	57	7530	76					
									CM0520	FL7	56	7530	75					
						18	47682	M90211	CM0410	FL7	57	7727	74					
									CM0420	FL7	58	7728	75					
						18	47682	M90212	CM0310	FL7	57	7730	74					
									CM0320	FL7	58	7729	75					
						38	100662	M90265	CL9310	FL7	58	7729	75					
									CL9320	FL7	59	7729	77					
						6	15894	M90267	CL9410	FL7	59	7729	77					
									CL9420	FL7	60	7829	77					

NOTES: *1 LOCATION F: FLANGE W: WEB C: CENTER *2 ORIENTATION L: LONGITUDINAL C: TRANSVERSE Z: THROUGH THICKNESS	CHEMICAL COMPOSITION (*10)													L: CAST ANALYSIS				P: PRODUCT ANALYSIS (%)			
	CAST No.	C	Si	Mn	P	S	CU	NI	CR	MO	NB	V	SN	N	T-Ad	Mn/C	CEQ-1	CEQ-2	Pcm	TE-1	TE-2
M90209	L	16	33	118	17	10	1	1	1	0	1	0	0	31	22	36				10	10
M90211	L	17	35	119	14	8	1	1	1	0	1	0	0	26	9	37				10	10
M90212	L	18	33	119	15	8	1	1	1	0	1	0	0	28	11	38				10	10
M90265	L	16	35	120	20	7	1	1	3	0	1	0	0	32	20	37				10	10
M90267	L	17	32	118	17	5	1	1	1	0	1	0	0	29	15	37				10	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.

H. Omodera
 DEPARTMENT MANAGER,
 PRODUCTION SCHEDULING
 & QUALITY MANAGEMENT DEPT.
 SAKAI WORKS

42052

INSPECTION CERTIFICATE

Nippon Steel Corporation

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

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REFERENCE No.: J83-YK44K003
SHIPPER : MARUBENI-ITOCHU STEEL INC.
CUSTOMER : FERRE BARNIEDO S.A. DE C.V.
SHIP No.:
COMMODITY : WIDE FLANGE BEAMS
SPECIFICATION : ASTM A992-04A

CUSTOMER'S CONTROL No(1):

PROJECT NAME:

DATE OF ISSUE: MAR. 19. 2010
CERTIFICATE No.: 00319H032-003

REMARKS: 1) TYPE OF STEEL : FULLY KILLED STEEL						TENSILE TEST							BEND TEST	IMPACT TEST						
						*3 7:GL= 8 INCH (RECT)											*5			
						*4							*7							
						YP, YS	TS	EL	YIELD RATIO	REDUCTION OF AREA			AVG		INDIVIDUAL					
						KSI			%	%	%									
SIZE	CUSTOMER'S CONTROL No (2)	NUMBER OF PRODUCT	MASS KG	CAST No	TEST No	FL	TS	EL	YIELD RATIO	REDUCTION OF AREA			AVG		INDIVIDUAL					
27"X14"X17.5LX40'		57	184110	M90338	CM0810	FL7	54	7529	72											
						CM0820	FL7	56	7630	74										
						5	16150	M90339	CM0710	FL7	55	7630	72							
										CM0720	FL7	57	7629	75						
TOTAL		62	200260																	
27"X14"X19.4LX40'		12	42240	M90209	CM0510	FL7	57	7530	76											
						CM0520	FL7	56	7530	75										
						6	21120	M90211	CM0410	FL7	57	7727	74							
										CM0420	FL7	58	7728	75						
		9	31680	M90271	CL9510	FL7	58	7730	75											
						CL9520	FL7	58	7732	75										

NOTES:

*1 LOCATION F: FLANGE W: WEB C: CENTER
*2 ORIENTATION L: LONGITUDINAL C: TRANSVERSE Z: THROUGH THICKNESS

CAST No.	CHEMICAL COMPOSITION (※10)											L: CAST ANALYSIS				P: PRODUCT ANALYSIS				%	
	C	Si	Mn	P	S	CU	NI	CR	MO	NB	V	SN	N	T-Al	Mn/C	CEQ-1	CEQ-2	Pcm	TE-1	TE-2	
	x100	x100	x100	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	x1000	
M90338	L 17	34	118	17	7	1	2	2	0	1	0	0	28	23	37					10	
M90339	L 17	35	117	20	7	1	1	4	0	1	0	0	26	13	37					10	
M90209	L 16	33	118	17	10	1	1	1	0	1	0	0	31	22	36					10	
M90211	L 17	35	119	14	8	1	1	1	0	1	0	0	26	9	37					10	
M90271	L 17	32	116	18	6	1	1	2	0	1	0	0	25	10	37					10	

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

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