

42052

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

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

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)						*6		mm Charpy *9							
SIZE	CUSTOMER'S CONTROL No. (2)	NUMBER OF PRODUCT	MASS KG	CAST No	TEST No	LOCATION	ORIENTATION	SPECIMEN SIZE	TEST TEMP	Y.P.	T.S.	EL.	YIELD RATIO	REDUCTION OF AREA	LOCATION	ORIENTATION	SPECIMEN SIZE	TEST TEMP	AVG	INDIVIDUAL
						*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*11	*12	*13	*14	*15
27"X14"X178LX40'	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"X194LX40'	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-A	Mn/C	CEQ-1	CEQ-2	Pcm	TE-1	TE-2	
M90338	17	34	118	17	7	1	2	2	0	1	0	0	28	23	37				10		
M90339	17	35	117	20	7	1	1	4	0	1	0	0	26	13	37				10		
M90209	16	33	118	17	10	1	1	1	0	1	0	0	31	22	36				10		
M90211	17	35	119	14	8	1	1	1	0	1	0	0	26	9	37				10		
M90271	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

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

N. Onodera
 DEPARTMENT MANAGER,
 PRODUCTION SCHEDULING
 & QUALITY MANAGEMENT DEPT.
 SAKAI WORKS