

34512

INSPECTION CERTIFICATE



HEAD OFFICE : 6-1, MARUKOUCHI 2-CHOME, CHIYODA-KU, TOKYO, 100-8071, JAPAN
 SAKAI LARGE : 1, CHIKKOTAWATA-CHO, SAKAI-KU, SAKAI-SHI, SHAPE MILL : OSAKA-PREF, 590-8540, JAPAN

CONTRACT No. : 8-820-D3-5-X-NW19
 REFERENCE No. : JOBV-UF00WT3
 SHIPPER : MITSUI & CO., LTD.
 CUSTOMER : FERRECABSA S.A. DE C.V.
 SHIP No. :
 COMMODITY : WIDE FLANGE BEAMS
 SPECIFICATION : ASJM A992-11

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

DATE OF ISSUE : NOV. 24, 2018
 CERTIFICATE No. : 81124H045-004

REMARKS : 1) TYPE OF STEEL : FULLY KILLED STEEL					TENSILE TEST										BEND TEST				IMPACT TEST mm Charpy					
					7:GL= 8 INCH (RECT)																			
SIZE	CUSTOMER'S CONTROL No. (2)	NUMBER OF PRODUCT	MASS KG	CAST No.	TEST No.	ORIENTATION	SPECIMEN SIZE	TEST TEMP.	Y.P.	Y.S.	T.S.	E.L.	YIELD RATIO	REDUCTION OF AREA	BEND TEST	ORIENTATION	LOCATION	ORIENTATION	SPECIMEN SIZE	TEST TEMP.	AVG		INDIVIDUAL	
																					K.S.I.	%	%	%
14"X14-1/2"X132LX40'		5	11975	8LB315	TV9310	FL7			56	7728	73													
					TV9320	FL7			56	7730	73													
TOTAL		26	62270																					
24"X12-3/4"X104LX40'		4	75488	LAA37	TQ8810	FL7			56	7729	73													
					TQ8820	FL7			55	7729	71													
		64	120768	LAA44	TQ8610	FL7			57	7829	73													
					TQ8620	FL7			57	7729	74													
		21	396278	LAA74	TQ8710	FL7			56	7727	73													
					TQ8720	FL7			56	7629	74													
		7	132098	L7180	RV9610	FL7			57	7727	74													
					RV9620	FL7			56	7728	73													

Nippon Steel
 21 FEB 2019
 RECEIVED

NOTES: #1 LOCATION F: FLANGE W: WEB C: CENTER #2 ORIENTATION L: LONGITUDINAL C: TRANSVERSE Z: THROUGH THICKNESS	CHEMICAL COMPOSITION (%)														L: CAST ANALYSIS				P: PRODUCT ANALYSIS			
	CAST No.	C	SI	Mn	P	S	CU	NI	CR	MO	NB	V	SN	N	T-AL	Mn/c	CEQ-1	CEQ-2	PM	TE-1	TE-2	
		X1000	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100	X100
8LB315	17	35	114	2.1	6	2	2	4	1	1	0	0	1.4	1.6	3.7					1.0	1.0	
8LAA37	17	33	111	1.3	5	1	2	4	1	1	0	0	1.1	1.6	3.7					1.0	1.0	
8LAA44	17	35	110	2.0	5	1	2	3	0	1	0	0	1.6	1.2	3.6					1.0	1.0	
8LAA74	17	33	106	1.7	7	1	2	4	1	1	0	0	2.4	1.3	3.6					1.0	1.0	
8L7180	18	34	108	2.1	7	1	2	4	1	1	0	0	2.2	1.7	3.7					1.0	1.0	

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.

YUJIN ITO
 HEAD OF DEPARTMENT
 QUALITY ASSURANCE DEPARTMENT
 WAKAYAMA WORKS