

**SeAH**  
**MILL TEST REPORT**  
**SeAH STEEL VINA CORP.**  
 No 7, 3A Road, Bien Hoa Industrial Zone II, Dong Nai Province - S.R Viet Nam  
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 PUSAN PIPE AMERICA, INC.  
 (DBA SeAH STEEL AMERICA, INC.)

ITEM NO.	HEAT (Lot) NO.	END TYPE	N.P.S (O.D)	X	WALL THICKNESS	X	LENGTHS	PCS(EA)	TOTAL LENGTH (FT)	WEIGHT (MT)	COUNTRY OF MELT AND POUR	REMARK
1	130920	BTE	1/2"	X	0.109"	X	10.000FT	48	480	0.185	VIETNAM	
2	432049	BPE	1"	X	0.179" (S.80)	X	21.000FT	300	6,300	6.216	VIETNAM	
3	131544	BTE	1-1/2"	X	0.145"	X	10.000FT	1,080	10,800	13.329	VIETNAM	
4	131544	BTC	1-1/2"	X	0.145"	X	21.000FT	396	8,316	10.254	VIETNAM	
5	328814	BTC	3"	X	0.216"	X	21.000FT	742	15,582	53.633	VIETNAM	
6	431890	BTC	3"	X	0.216"	X	21.000FT	112	2,352	8.095	VIETNAM	
7	130919	ETC	4"	X	0.237"	X	21.000FT	40	840	4.116	VIETNAM	
8	22A004676	GTC	3/4"	X	0.113"	X	21.000FT	680	14,280	69.965	VIETNAM	
9	131833	GBE	6"	X	0.133"	X	21.000FT	252	5,292	2.720	VIETNAM	
				X	0.280"	X	21.000FT	240	5,040	3.844	VIETNAM	
				X		X		53	1,323	11.397	VIETNAM	

ITEM NO.	HEAT (Lot) NO.	HYDROSTATIC TEST	N. VISUAL & DIMENSION CHECK	FLATTE-NING TEST	BENDING TEST	DESIGN	CHEMICAL COMPOSITION(%)											TENSILE TEST			COATING TEST		IMPACT TEST		HEAT TREATMENT						
							C	Si	Mn	P	S	V	Cu	Ni	Cr	Mo	D	I	R	TENSILE STRENGTH N/MM <sup>2</sup>	YIELD POINT N/MM <sup>2</sup>	E.L [%]	WEIGHT OF ZINC COATING G/M <sup>2</sup>	COPPER SULFATE TEST TIMES (S)		RESULT	HARDNESS TEST	ENERGY Joule	SHEAR AREA %		
1	130920	G	G	G	G	MAX MIN	25	95	35	35	80	40	40	40	15	330	205	45.0													
2	432049	G	G	G	G		9.0	43.0	12.0	4.0	tr	1.0	1.0	1.0	tr	382.0	278.0	37.0													
3	131544	G	G	G	G		18.0	49.0	14.0	8.0	tr	1.0	1.0	2.0	tr	454.0	301.0	41.9													
4	131544	G	G	G	G		9.0	44.0	17.0	5.0	0.0	2.0	1.0	1.0	0.0	378.0	251.0	41.9													
5	328814	G	G	G	G		9.0	44.0	17.0	5.0	0.0	2.0	1.0	1.0	0.0	378.0	251.0	41.9													
6	431890	G	G	G	G		9.0	42.0	10.0	3.0	tr	2.0	1.0	1.0	tr	376.0	262.0	45.1													
7	130919	G	G	G	G		8.0	41.0	16.0	6.0	0.0	1.0	1.0	1.0	0.0	377.0	269.0	43.6													
8	22A004676	G	G	G	G		9.0	43.0	12.0	8.0	0.0	1.0	1.0	1.0	0.0	376.0	256.0	44.8													
9	131833	G	G	G	G		8.0	41.0	16.0	6.0	0.0	1.0	1.0	1.0	0.0	377.0	269.0	43.6													
							4.0	16.0	16.0	5.0	1.0	1.0	1.0	1.0	0.0	376.0	259.0	46.5													
							10.0	49.0	14.0	4.0	tr	1.0	1.0	1.0	Tr	386.0	262.0	39.0													

SURVEYOR :  
 THIS CERTIFICATE IS ISSUED ACCORDING TO BS EN 10204-3.1 (ISO 10474 3.1.B)  
 WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION  
 AND RESULTS OF ALL TEST ARE ACCEPTABLE  
 SeAH-D-840A1.10  
 SeAH Steel Vina Corp.

