MILL'S QUALITY CERTIFICATE

SeAH Steel Corp.
(주)세 아 제 강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 / CERTIFICATE NO.: E201101-0141-000141(5006262)
제 품 명 / COMMODITY : E.R.W STEEL PIPE
제 품 규 격 / SPECIFICATION : API 5LB PSL1/ASTM A53B(2007)

발 급 일 자 / DATE OF ISSUE : 2011.01.24
계 약 서 번 호 / L/C No. (P/O No.) : P01103083800
수 요 가 / CUSTOMER : PLESA
주 문 자 / SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
1	C035587 (SIKY232090)	BBE	24 " X 0.500 " X 6.120 M	4	24.480 M	4.578	CONFIRM TO NACE NORM MR0175(LAST EDITION)
2	C025734 (SIKY232120)	BBE	24 " X 0.375 " X 6.120 M	3	18.360 M	2.583	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
3	C035587 (SIKY232150)	BBE	24 " X 0.375 " X 6.120 M	1	6.120 M	0.861	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
4	SQ21903 (SIKY232170)	BBE	24 " X 0.375 " X 6.120 M	3	18.360 M	2.583	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti		CEQ *8	TENSILE TEST (Gage Length : 50mm) DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST HRC	HEAT TREAT MENT SN *11
																				CHEMICAL COMPOSITION(%)																						
																					2			3		2	2	2	2	3	3	3										
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80												22	
																			MIN																	60200	35500					
1	C035587 (SIKY232090)	890	G	G	G	G			G										H	13	18	73	18	3																		
																			P	12	17	74	16	2	2	2	1	TR	2	1	TR			T	74980	60910	36			6	G
																			P	13	19	74	20	5	2	2	1	TR	2	1	TR			W	79620						
2	C025734 (SIKY232120)	670	G	G	G	G			G										H	14	14	76	16	2																		
																			P	13	15	75	18	2	TR	2	TR	TR	TR	2	2			T	77300	61640	26			6	G
																			P	13	14	76	15	2	TR	2	TR	TR	TR	2	2			W	81070						
3	C035587 (SIKY232150)	670	G	G	G	G			G										H	13	18	73	18	3																		
																			P	14	18	73	16	3	1	2	2	TR	TR	1	TR			T	76000	57000	29			6	G
																			P	14	18	74	16	2	1	2	2	TR	TR	1	TR			W	79480						
4	SQ21903 (SIKY232170)	670	G	G	G	G			G										H	18	1	77	11	4																		
																			P	17	2	76	9	2	TR	2	TR	TR	TR	TR	TR			T	71930	50760	35			5	G
																			P	19	1	78	13	4	TR	2	TR	TR	TR	TR	TR			W	77160						

NOTE: *1 ~ *11: Refer To Others

OTHERS:
*1-BBE:Black Beveled End(30°)
*2-U:Weld Seam Ultrasonic Test
*6-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000
*9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

Surveyor :

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.
- THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.

N. J. Baek

주식회사세아제강 SeAH

MILL'S QUALITY CERTIFICATE

SeAH Steel Corp.
(주)세 아 제 강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 / CERTIFICATE NO.: E201101-0141-000141(5006262)
제 품 명 / COMMODITY : E.R.W STEEL PIPE
제 품 규 격 / SPECIFICATION : API 5LB PSL1/ASTM A53B(2007)

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수 요 가 / CUSTOMER : PLESA
주 문 자 / SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문치수 ORDER SIZE	수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
5	SB87194 (SIKY261190)	BBE	20 " X 0.250 " X 6.120 M	2	12.240 M	0.968	CONFIRM TO NACE NORM MR0175(LAST EDITION)
6	SQ21901 (SIKZ011040)	BBE	24 " X 0.375 " X 6.120 M	97	593.640 M	83.513	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
7	SQ20519 (SIKZ011050)	BBE	24 " X 0.375 " X 6.120 M	7	42.840 M	6.027	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
8	SB89728 (SIKZ062050)	BBE	20 " X 0.250 " X 6.120 M	50	306.000 M	24.223	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti		CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST HRC	HEAT TREAT MENT SN *11
																				CHEMICAL COMPOSITION(%)															TENSILE TEST (Gage Length : 50mm)						
																					2		3		2	2	2	2	3	3	3										
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80												22	
																			MIN																60200	35500					
5	SB87194 (SIKY261190)	540	G	G	G	G			G										H	15	2	65	14	5																	
																			P	14	2	66	15	6	TR	1	2	TR	TR	TR	TR			T	66710	54240	32			5	G
																			P	16	3	66	16	7	TR	1	2	TR	TR	TR	TR			W	73240						
6	SQ21901 (SIKZ011040)	670	G	G	G	G			G										H	18	2	76	9	5																	
																			P	17	1	76	10	5	2	1	2	TR	1	1	1			T	74110	49020	33			5	G
																			P	19	2	77	11	5	2	1	2	TR	1	1	1			W	77740						
7	SQ20519 (SIKZ011050)	670	G	G	G	G			G										H	17	1	77	10	4																	
																			P	16	1	78	9	3	2	TR	1	TR	1	2	TR			T	76140	50900	33			6	G
																			P	17	1	78	12	6	2	TR	1	TR	1	2	TR			W	78610						
8	SB89728 (SIKZ062050)	540	G	G	G	G			G										H	15	1	65	14	5																	
																			P	14	TR	66	13	3	2	2	1	TR	2	2	1			T	69030	48000	36			5	G
																			P	15	TR	66	14	4	2	2	1	TR	2	2	1			W	74110						

NOTE *1 ~ *11: Refer To Others

OTHERS
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*9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

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(주)세 아 제 강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 CERTIFICATE NO. : E201101-0141-000141(5006262)
제 품 명 COMMODITY : E.R.W STEEL PIPE
제 품 규 격 SPECIFICATION : API 5LB PSL1/ASTM A53B(2007)

발 급 일 자 DATE OF ISSUE : 2011.01.24
계 약 서 번 호 L/C No. (P/O No.) : P01103083800
수 요 가 CUSTOMER : PLESA
주 문 자 SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
9	SB87194 (SIKZ062060)	BBE	20 " X 0.250 " X 6.120 M	52	318.240 M	25.192	CONFIRM TO NACE NORM MR0175(LAST EDITION)
10	SB90181 (SIKZ062140)	BBE	20 " X 0.375 " X 6.120 M	2	12.240 M	1.429	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
11	SQ23029 (SIKZ071020)	BBE	20 " X 0.375 " X 6.120 M	107	654.840 M	76.472	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
12	SP84435 (SIKZ071040)	BBE	20 " X 0.375 " X 6.120 M	17	104.040 M	12.150	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti		CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST HRC	HEAT TREAT MENT SN *11
																				CHEMICAL COMPOSITION(%)															TENSILE TEST (Gage Length : 50mm)						
																				2			3		2	2	2	2	3	3	3											
																				*7													*8									
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80												22	
																			MIN																60200	35500					
9	SB87194	540	G	G	G	G			G										H	15	2	65	14	5																	
	(SIKZ062060)																		P	14	2	65	16	5	2	TR	TR	TR	2	1	1			T	65550	47860	33			5	G
																			P	15	1	64	16	6	2	TR	TR	TR	2	1	1			W	72660						
10	SB90181	800	G	G	G	G			G										H	20	1	79	13	5																	
	(SIKZ062140)																		P	19	2	78	15	3	1	1	TR	TR	TR	TR	TR			T	73530	48730	34			5	G
																			P	20	2	78	15	4	1	1	TR	TR	TR	TR	TR			W	76720						
11	SQ23029	800	G	G	G	G			G										H	17	1	76	10	4																	
	(SIKZ071020)																		P	16	2	75	9	3	TR	TR	2	TR	TR	1	2			T	75850	49020	34			5	G
																			P	16	2	75	9	2	TR	TR	2	TR	TR	1	2			W	79190						
12	SP84435	800	G	G	G	G			G										H	17	2	89	11	4																	
	(SIKZ071040)																		P	16	1	89	12	5	TR	2	TR	TR	2	1	2			T	73380	50030	35			4	G
																			P	17	2	89	11	5	TR	2	TR	TR	2	1	2			W	77880						

NOTE *1 ~ *11: Refer To Others

OTHERS
*1-BBE:Black Beveled End(30°)
*2-U:Weld Seam Ultrasonic Test
*6-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000
*9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

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POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 CERTIFICATE NO.: E201101-0141-000141(5006262)
제 품 명 COMMODITY : E.R.W STEEL PIPE
제 품 규 격 SPECIFICATION : API 5LB PSL1/ASTM A53B(2007)

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수 요 가 CUSTOMER : PLESA
주 문 자 SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
13	SQ21901 (SIKZ092120)	BBE	24 " X 0.500 " X 6.120 M	7	42.840 M	8.014	CONFIRM TO NACE NORM MR0175(LAST EDITION)
14	SQ21899 (SIKZ092150)	BBE	24 " X 0.500 " X 6.120 M	6	36.720 M	6.869	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
15	SQ20519 (SIKZ092160)	BBE	24 " X 0.500 " X 6.120 M	38	232.560 M	43.503	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
16	SB91263 (SIKZ281010)	BBE	20 " X 0.250 " X 6.120 M	36	220.320 M	17.441	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5
기준 SPEC									30									
13	SQ21901 (SIKZ092120)	890	G	G	G	G			G									
14	SQ21899 (SIKZ092150)	890	G	G	G	G			G									
15	SQ20519 (SIKZ092160)	890	G	G	G	G			G									
16	SB91263 (SIKZ281010)	540	G	G	G	G			G									

NO.	HEAT NO (BATCH NO.)	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti		CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST HRC	HEAT TREAT MENT SN *11
			2			3		2	2	2	2	3	3	3										
			*7													*8	*9							
기준 SPEC		MAX	26		120	30	30	40	40	40	15	80											22	
		MIN																60200	35500					
13	SQ21901 (SIKZ092120)	H	18	2	76	9	5																	
		P	17	3	75	7	5	2	1	1	TR	TR	1	TR			T	72510	46410	38			5	G
		P	18	2	77	10	3	2	1	1	TR	TR	1	TR			W	75850						
14	SQ21899 (SIKZ092150)	H	17	2	78	9	4																	
		P	16	2	79	11	4	1	TR	TR	TR	TR	2	TR			T	72080	49310	36			5	G
		P	17	3	79	9	2	1	TR	TR	TR	TR	2	TR			W	76870						
15	SQ20519 (SIKZ092160)	H	17	1	77	10	4																	
		P	17	TR	77	8	5	2	2	TR	TR	1	1	TR			T	74540	48580	36			5	G
		P	16	TR	77	12	3	2	2	TR	TR	1	1	TR			W	79620						
16	SB91263 (SIKZ281010)	H	15	1	66	13	4																	
		P	14	TR	67	15	5	TR	1	1	TR	TR	TR	1			T	70630	48000	32			5	G
		P	15	1	65	11	3	TR	1	1	TR	TR	TR	1			W	76580						

NOTE: *1 ~ *11: Refer To Others

OTHERS:
*1-BBE:Black Beveled End(30°)
*2-U:Weld Seam Ultrasonic Test
*6-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000
*9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

Surveyor :

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주식회사세아제강 SeAH 품질경영팀장

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NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
17	SB91265 (SIKZ281020)	BBE	20 " X 0.250 " X 6.120 M	36	220.320 M	17.441	CONFIRM TO NACE NORM MR0175(LAST EDITION) *ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY *DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5
기준 SPEC									30									
17	SB91265 (SIKZ281020)	540	G	G	G	G			G									

NO.	HEAT NO (BATCH NO.)	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti		CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST HRC	HEAT TREATMENT SN *11
			2			3		2	2	2	2	3	3	3										
			*7																					
기준 SPEC		MAX	26		120	30	30	40	40	40	15	80											22	
		MIN																60200	35500					
17	SB91265 (SIKZ281020)	H	14	2	66	14	6																	
		P	13	1	67	13	5	2	TR	1	TR	TR	2	TR			T	68890	50030	32			5	G
		P	14	1	67	14	8	2	TR	1	TR	TR	2	TR			W	74400						

NOTE *1 ~ *11: Refer To Others

OTHERS
*1-BBE:Black Beveled End(30°)
*2-U:Weld Seam Ultrasonic Test
*6-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000
*9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

Surveyor :

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.
- THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.
N. J. Baek