

Order No./계약번호 : 01S4109970

PO No./주문번호 : PO212766-01

Supplier : POSCO AMERICA CORPORATION
/공급자

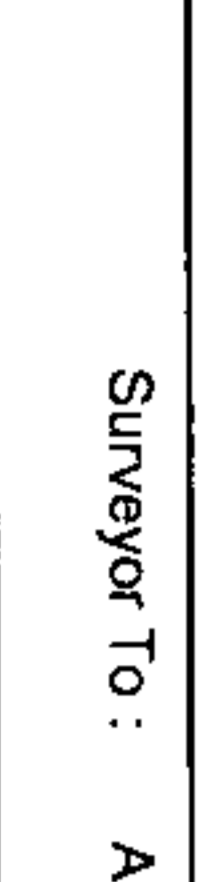
Commodity : HR PLATE
/품명

Customer : SUPERIOR
/고객사

Spec & Type : AB/A(S)A36/A709-36
/규격

Size/치수	Product No. /제품번호	Quantity /수량	Weight (kg) (lb)	Heat No. /제강번호	Position	Tensile Test /인장시험		Tensile Test2		Division	Chemical Composition/화학성분															
						YP (N/mm ²)	TS (%)	YP (N/mm ²)	TS (%)		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	Nb	V	CEQ				
5/16"x96"x240"	PA66333801-3804	4	3,704 8,164	SF23102	T	293	455	28	345	469	27	L	0.1559	0.195	0.836	0.0119	0.0046	0.024	0.009	0.010	0.010	0.003	0.001	0.001	0.002	0.30
** Specimen No.: Tension => PP24189613 *** Sub Total (090) ***											CEQ (A) = C + Mn/6															
3/8"x96"x240"	PC79273103	1	1,111 2,449	SF23243	T	293	455	27	313	455	29	L	0.1493	0.191	0.840	0.0112	0.0030	0.022	0.010	0.010	0.010	0.003	0.001	0.001	0.001	0.29
** Specimen No.: Tension => PP24205616 *** Sub Total (050) ***											CEQ (A) = C + Mn/6															
3/8"x96"x480"	PA66572201-2202	2	4,444 9,798	SF23646	T	332	471	29	326	464	30	L	0.1558	0.191	0.849	0.0123	0.0034	0.022	0.011	0.009	0.002	0.001	0.001	0.001	0.001	0.30
3/8"x96"x480"	PA66573201	1	2,222 4,899	SF23646	T	332	471	29	326	464	30	L	0.1558	0.192	0.851	0.0130	0.0033	0.021	0.011	0.009	0.001	0.001	0.001	0.001	0.001	0.30
** Specimen No.: Tension => PP24255910 3/8"x96"x480" PA66572101-2102 2 4,444 9,798 SF23646 T 325 462 29 326 464 30 *** Specimen No.: Tension => PP24255911 *** Sub Total (060) ***											CEQ (A) = C + Mn/6															
3/8"x120"x480"	PC79576402-6403	2	5,556 12,248	SF23646	T	317	464	26	324	468	28	L	0.1558	0.192	0.851	0.0130	0.0033	0.021	0.011	0.009	0.001	0.001	0.001	0.001	0.001	0.30
3/8"x120"x480"	PC79576501	1	2,778 6,124	SF23646	T	317	464	26	324	468	28	L	0.1558	0.192	0.851	0.0130	0.0033	0.021	0.011	0.009	0.001	0.001	0.001	0.001	0.001	0.30

* Position - T : Top, M : Middle, B : Bottom
 * Tensile Test Direction : Transversal, Gauge Length : 200mm(Rectangular),
 YP Method : Upper Point
 * Tensile Test2 Direction : Transversal, Gauge Length : 200mm(Rectangular),
 YP Method : 0.2% off-set
 * Division - L : Ladle Analysis, P : Products Analysis
 * Supply Condition : As-Rolled unless otherwise Heat Treated
 * IACS UR W13 applied : Actual Average Thickness \geq Nominal Thickness



Surveyor To : ABS

T.C. BAE

We hereby certify that the material has been made by an approved process in accordance with the rules of AMERICAN BUREAU OF SHIPPING and has been satisfactorily tested in the presence of the Society's representative. This material has been fully killed and made by basic oxygen process. This material is fine grained steel. No repair welding was performed to the products. Test Certificate is issued according to EN10204 3.2.

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.
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Mill Test Certificate/검사증명서

Certificate No./증명서번호 : 200206-FP01PH-0001A1-0003
Date of Issue/발행일자 : Feb., 06, 2020

Order No./계약번호 : 01S4109970

PO No./주문번호 : PO212766-01

Commodity : HR PLATE

Supplier : POSCO AMERICA CORPORATION

Spec & Type : AB/A(S)A36/A709-36

Customer : SUPERIOR

Surveyor To : ABS

Size/치수	Product No. 제품번호	Quantity 수량	Weight 중량 (kg) (lb)	Heat No. 제강번호	Position	Tensile Test 인장시험		Tensile Test2		Division	Chemical Composition/화학성분															
						YP (N/mm ²)	TS (%)	YP (N/mm ²)	TS (%)		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	Nb	V	CEQ				
** Specimen No.: Tension => PP24255901												CEQ (A) = C + Mn/6														
*** Sub Total (070) ***												18.372 (lb)														
1/2"x96"x240"	PB37735301-5310	10	14,820 32,670	SB78816	T	288	456	28	290	454	29	L	0.1549	0.198	0.835	0.0130	0.0044	0.044	0.011	0.011	0.009	0.009	0.001	0.001	0.001	0.29
** Specimen No.: Tension => PP24223802												CEQ (A) = C + Mn/6														
*** Sub Total (080) ***												14.820 (kg)														
1/2"x86"x480"	PB37585801-5805	5	14,815 32,660	SB78620	T	320	463	31	337	470	30	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.010	0.004	0.004	0.001	0.001	0.29
** Specimen No.: Tension => PP24214304												CEQ (A) = C + Mn/6														
*** Sub Total (090) ***												14.815 (kg)														
1/2"x120"x480"	PB37586901-6905	5	18,525 40,840	SB78620	T	316	463	30	337	470	30	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.010	0.004	0.004	0.001	0.001	0.29
** Specimen No.: Tension => PP24214301												CEQ (A) = C + Mn/6														
*** Sub Total (100) ***												18.525 (kg)														
1/2"x120"x480"	PB37587101-7105	5	18,525 40,840	SB78620	T	315	464	29	337	470	30	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.010	0.004	0.004	0.001	0.001	0.29
** Specimen No.: Tension => PP24214305												CEQ (A) = C + Mn/6														
*** Sub Total (110) ***												18.525 (kg)														
1/2"x120"x480"	PB37701601-1604	4	14,820 32,672	SB78816	T	288	456	28	290	454	29	L	0.1549	0.198	0.835	0.0130	0.0044	0.044	0.011	0.011	0.009	0.009	0.001	0.001	0.001	0.29
** Specimen No.: Tension => PP24223802												CEQ (A) = C + Mn/6														
*** Sub Total (120) ***												14.820 (kg)														
*** Sub Total (130) ***												70.395 (kg)														

* Position - T : Top, M : Middle, B : Bottom
 * Tensile Test Direction : Transversal, Gauge Length : 200mm(Rectangular),
 YP Method : Upper Point
 * Tensile Test2 Direction : Transversal, Gauge Length : 200mm(Rectangular),
 YP Method : 0.2% off-set
 * Division - L : Ladle Analysis, P : Products Analysis
 * Supply Condition : As-Rolled unless otherwise Heat Treated
 * IACS UR W13 applied : Actual Average Thickness z Nominal Thickness

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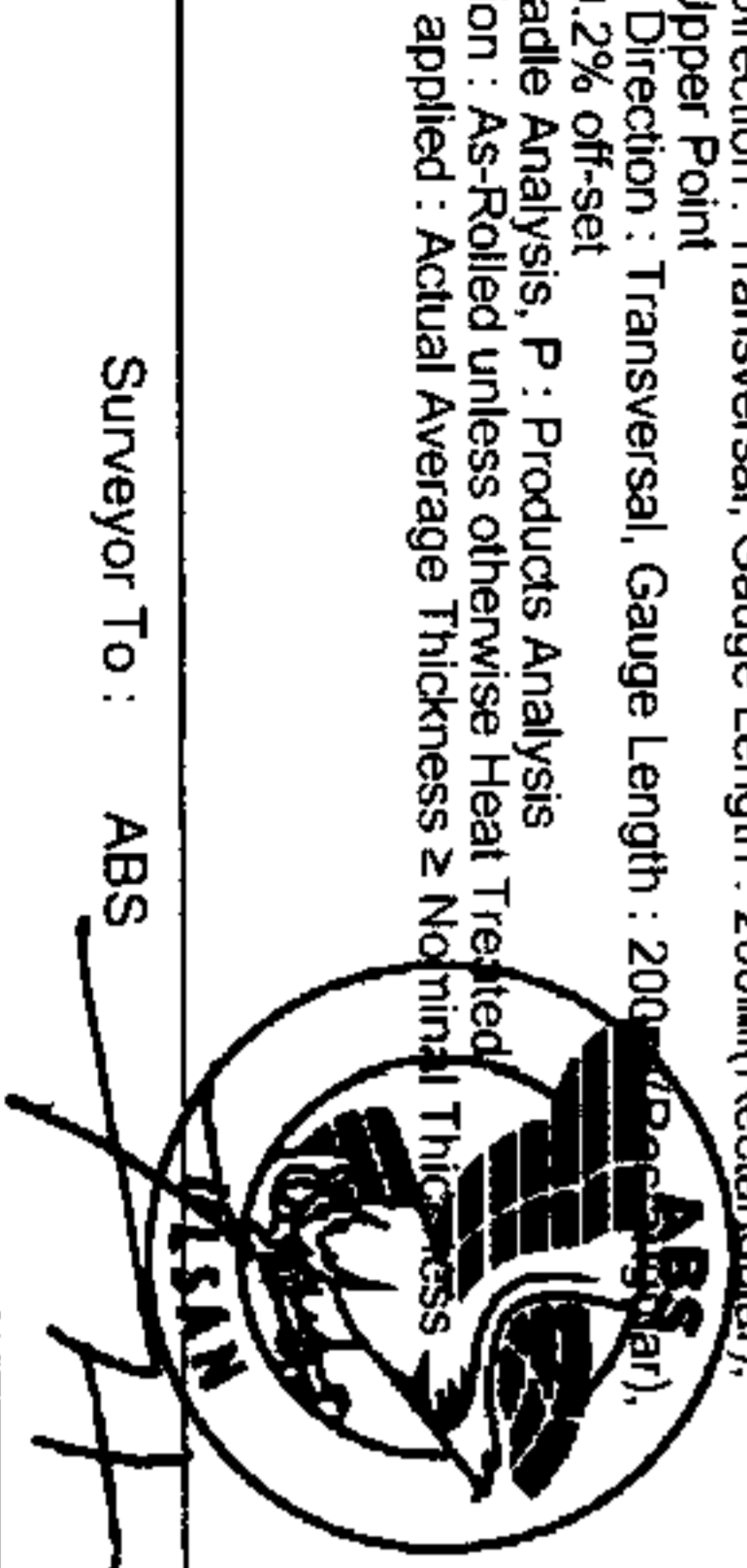
Spec & Type: AB/A(S)A36/A709-36

Size/치수	Product No. /제품번호	Quantity /수량	Weight /중량 (kg)	Heat No. /제강번호	Position	Tensile Test /인장시험			Tensile Test2			Division	Chemical Composition/화학성분												
						YP (N/mm ²)	TS (%)	EL (%)	YP (N/mm ²)	TS (%)	EL (%)		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	Nb	V	CEQ	
5/8"x96"x480"	PB37584701-4703	3	11,109	SB78620	T	281	449	31	298	457	30	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.001	0.29
** Specimen No.: Tension => PP24214302 *** Sub Total (1310) ***													CEQ (A) = C + Mn/6												
3/4"x96"x240"	PB37608201-8203	3	6,666	SB78620	T	272	448	30	276	446	32	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.001	0.29
3/4"x96"x240"	PB37608206-8209	4	8,888	SB78620	T	272	448	30	276	446	32	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.001	0.29
3/4"x96"x240"	PB37608301-8307	7	15,554	SB78620	T	272	448	30	276	446	32	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.001	0.29
** Specimen No.: Tension => PP24214306 3/4"x96"x240" PB37689601-9602 2 4,444 SB78816 T 272 447 30 285 449 32 9,798 ** Specimen No.: Tension => PP24223801 *** Sub Total (120) *** 16 35,552 (kg) 78,384 (lb)													CEQ (A) = C + Mn/6												
3/4"x120"x480"	PC79308701-8703	3	16,665	SB78404	T	290	444	28	294	445	29	L	0.1567	0.195	0.859	0.0121	0.0051	0.020	0.008	0.007	0.002	0.001	0.001	0.001	0.30
** Specimen No.: Tension => PP24200607 3/4"x120"x480" PB37638301 1 5,555 SB78620 T 279 449 30 276 446 32 12,246 3/4"x120"x480" PB37638303 1 5,555 SB78620 T 279 449 30 276 446 32 12,246													CEQ (A) = C + Mn/6												

* Position - T: Top, M: Middle, B: Bottom
 * Tensile Test Direction: Transversal, Gauge Length: 200mm(Reclanular),
 YP Method: Upper Point
 * Tensile Test2 Direction: Transversal, Gauge Length: 200mm(Reclanular),
 YP Method: 0.2% off-set
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Spec & Type : AB/A(S)A36/A709-36
/규격

Size/치수	Product No. /제품번호	Quantity /수량	Weight /중량 (kg) (lb)	Heat No. /제강번호	Tension	Tensile Test /인장시험		Tensile Test2		Division	Chemical Composition/화학성분																						
						YP (N/mm ²)	TS (%)	EL (%)	YP (N/mm ²)		TS (%)	EL (%)	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	Nb	V	CEQ									
3/4"x120"x480"	PB37638501-8503	3	16,665 36,738	SB78620	T	279	449	30	276	446	32	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.29									
** Specimen No: Tension => PP24214303												P	0.1512	0.186	0.850	0.0114	0.0040	0.026	0.013	0.010	0.003	0.000	0.002										
3/4"x120"x480"	PB37638401-8402	2	11,110 24,492	SB78620	T	281	449	31	276	446	32	L	0.1487	0.188	0.858	0.0118	0.0041	0.024	0.013	0.010	0.004	0.001	0.001	0.29									
** Specimen No: Tension => PP24214302												P	0.1512	0.186	0.850	0.0114	0.0040	0.026	0.013	0.010	0.003	0.000	0.002										
3/4"x120"x480"	PB37702701-2703	3	16,665 36,738	SB78816	T	272	447	30	285	449	32	L	0.1549	0.198	0.835	0.0130	0.0044	0.044	0.011	0.011	0.009	0.001	0.001	0.29									
** Specimen No: Tension => PP24223801												P	0.1518	0.240	0.806	0.0125	0.0034	0.030	0.009	0.010	0.010	0.005	0.000	0.002									
*** Sub Total (130) ***																																	

* Position - T : Top, M : Middle, B : Bottom
* Tensile Test Direction : Transversal, Gauge Length : 200mm(Reclanular), YP Method : Upper Point
* Tensile Test2 Direction : Transversal, Gauge Length : 200mm(Reclanular), YP Method : 0.2% off-set
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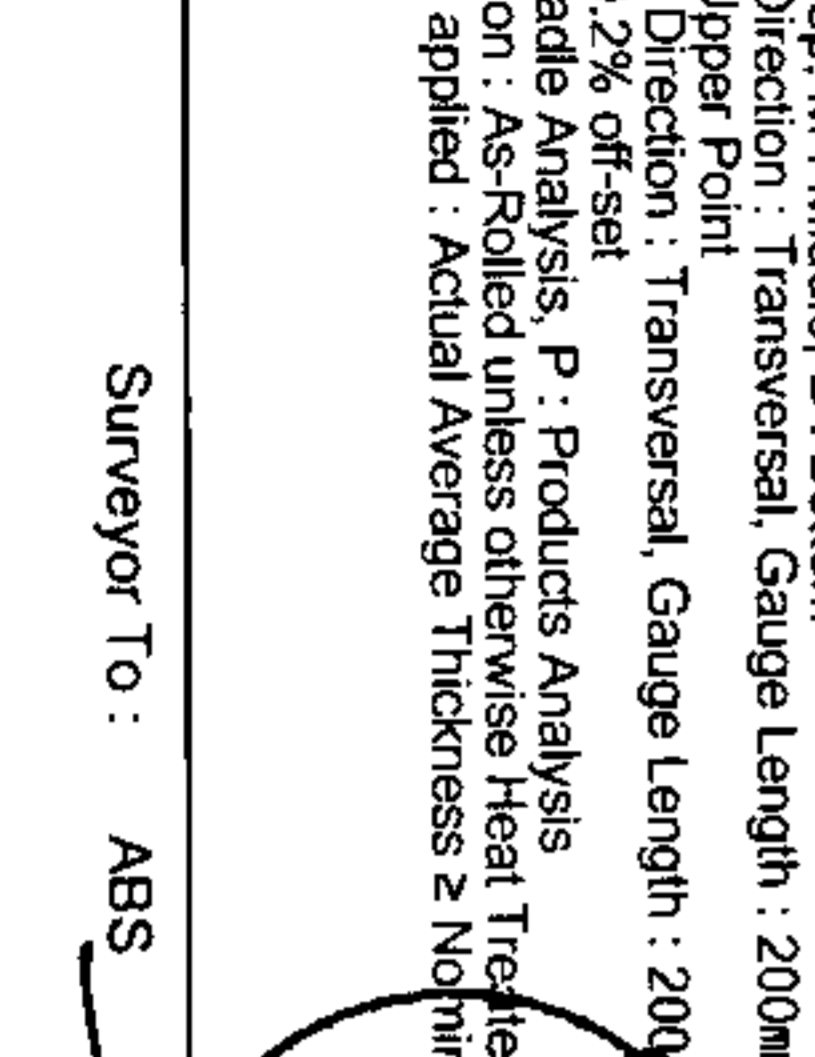
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 /품명

Customer : SUPERIOR
 /고객사

Spec & Type : AB/A(S)A36/A709-36
 /규격

Size/치수	Product No. /제품번호	Quantity /수량	Weight /중량 (kg)	Heat No. /제강번호	Position /위치	Tensile Test /인장시험 YP TS EL (N/mm ²) (%)	Tensile Test2 YP TS EL (N/mm ²) (%)	Division	Chemical Composition/화학성분 C Si Mn P S Cr Ni Cu Mo Nb V CEQ
1"x86"x240"	PC79441001	1	2,963 6,532	SF23515	T	319 466 32	333 471 32	L	0.1447 0.210 0.998 0.0112 0.0023 0.026 0.010 0.009 0.002 0.001 0.001 0.31
** Specimen No.: Tension => PP24239606									
*** Sub Total (140) ***									
1"x120"x480"	PB37971201-1202	2	14,820 32,672	SB79355	T	296 457 30	294 458 31	L	0.1433 0.215 0.968 0.0123 0.0029 0.045 0.019 0.012 0.008 0.001 0.001 0.30
** Specimen No.: Tension => PP24249505									
1"x120"x480"	PB38025501-5502	2	14,820 32,672	SB79471	T	279 448 33	284 447 34	P	0.1443 0.202 0.976 0.0077 0.0018 0.021 0.009 0.010 0.002 0.001 0.001 0.31
1"x120"x480"	PB38025601-5602	2	14,820 32,672	SB79471	T	279 448 33	284 447 34	L	0.1474 0.208 0.983 0.0081 0.0017 0.020 0.009 0.010 0.001 0.001 0.001 0.31
** Specimen No.: Tension => PP24249310									
*** Sub Total (150) ***									
*** Grade Total ***									
*** Grand Total ***									

Position - T : Top, M : Middle, B : Bottom
 * Tensile Test Direction : Transversal, Gauge Length : 200mm(Recurcular),
 YP Method : Upper Point
 * Tensile Test2 Direction : Transversal, Gauge Length : 200mm(Recurcular),
 YP Method : 0.2% off-set
 * Division - L : Ladle Analysis, P : Products Analysis
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(Handwritten signature)

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