

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST** ST&H CORPORATION  
 74, Jwadongsunhwan-ro, Haeundae-gu, Busan, Korea  
 Tel : +82.51.744-4680(5 line) Fax : +82.51.744-4670  
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Certificate No. MES9146-01/04 Date : NOV. 05. 2015  
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.  
 Contract No. 22050  
 Spec. For Material ASTM/ASME A/SA105N-14,NACE MR0175-2009/ISO15156-1:2015  
 Heat Treatment 910°C NORMALIZED & A.C

Certified to ISO9001:2008, ISO14001:2004,PED97/23/EC by LRQA

Dimensional inspection ASME B16.5 - 2013

ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness		Charpy Impact Test (10X10mm Specimen Size)			
			D	GL	Y.S MPa	T.S MPa	E.L %	R.A %	Test (HB)	187	Indiv.	Ave.	Notch	Temp.
			mm	mm										
BA600BR10	600LBS BL RF 10"	10	B5789	12.5	50.0	345	520	35.5	68.5	139	143	Test Result (J)		Ave.(J)
BA600BR16	600LBS BL RF 16"	5	B5789	12.5	50.0	345	520	35.5	68.5	139	143			
BA600WR8010	600LBS WN RF S80 10"	5	B5789	12.5	50.0	345	520	35.5	68.5	139	143			
BA600BR24	600LBS BL RF 24"	5	B1679	12.5	50.0	290	525	37.5	60	146	149			
BA600WR8024	600LBS WN RF S80 24"	3	B1679	12.5	50.0	290	525	37.5	60	146	149			
BA600BR4	600LBS BL RF 4"	10	B6253	12.5	50.0	360	535	33.5	67.5	148	154			
BA600BR6	600LBS BL RF 6"	10	B6253	12.5	50.0	360	535	33.5	67.5	148	154			
BA600BR8	600LBS BL RF 8"	5	B6253	12.5	50.0	360	535	33.5	67.5	148	154			
BA600WRSTD4	600LBS WN RF STD 4"	10	B6253	12.5	50.0	360	535	33.5	67.5	148	154			
BA600WRSTD6	600LBS WN RF STD 6"	10	B6253	12.5	50.0	360	535	33.5	67.5	148	154			

Heat No./ Batch No.	Max Min	Product Analysis Chemical Composition (%)										NDE										
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V				CE	UT	MT	PT				
B5789		0.193	0.220	0.879	0.015	0.003	0.003	0.024	0.002	0.012	0.001							0.345				
B1679		0.167	0.276	0.928	0.013	0.002	0.010	0.041	0.002	0.008	0.001							0.331				
B6253		0.219	0.262	0.844	0.024	0.004	0.004	0.007	0.002	0.007	0.001							0.362				
		BLANK																				

REMARK

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

Witnessed by / H. J. LEE

Manager of Q.A Dept. / E. S. PARK



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Certificate No. MES9146-02/04 Date : NOV. 05. 2015  
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.  
 Contract No. 22050  
 Spec. For Material ASTM/ASME A/SA105N-14,NACE MR0175-2009/ISO15156-1:2015  
 Heat Treatment 910°C NORMALIZED & A.C

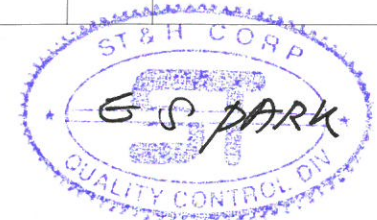
Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Dimensional inspection ASME B16.5 - 2013

ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)	Charpy Impact Test (10X10mm Specimen Size)			
			D mm	GL mm	Y.S MPa	T.S MPa	E.L %	R.A %		Indiv.	Ave.	Notch	Temp.
			Max	Min	250	485	22.0	30.0	187		Test Result (J)		Ave.(J)
BA600WR806 600LBS WN RF S80 6" BLANK	40	B6253 BLANK	12.5	50.0	360	535	33.5	67.5	148 154 BLANK				

Heat No./ Batch No.	Max Min	Product Analysis Chemical Composition (%)														NDE				
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V							CE	UT	MT
B6253		0.219	0.262	0.844	0.024	0.004	0.004	0.007	0.002	0.007	0.001	BLANK					0.362			

REMARK



*[Handwritten Signature]*

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Certificate No. MES9146-03/04 Date : NOV. 05. 2015  
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.  
 Contract No. 22050  
 Spec. For Material ASTM/ASME A/SA105-14,NACE MR0175-2009/ISO15156-1:2015  
 Heat Treatment AS FORGED

Certified to ISO9001:2008, ISO14001:2004,PED97/23/EC by LRQA

Dimensional inspection ASME B16.5 - 2013

ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)		Charpy Impact Test (10X10mm Specimen Size)			
			D	GL	Y.S MPa	T.S MPa	E.L %	R.A %	187	Indiv.	Ave.	Notch	Temp.	
			mm	mm										
AA150SR14 150LBS SO RF 14"	15	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150SR3 150LBS SO RF 3"	200	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150SR5 150LBS SO RF 5"	100	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150SR6 150LBS SO RF 6"	400	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150SR8 150LBS SO RF 8"	300	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA300SR2 300LBS SO RF 2"	100	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA300SR3 300LBS SO RF 3"	100	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA300SR4 300LBS SO RF 4"	50	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150WRSTD10 150LBS WN RF STD 10"	50	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	
AA150WR802 150LBS WN RF S80 2"	100	B6253	12.5	50.0	360	535	33.5	67.5	148	154	Test Result (J)		Ave.(J)	

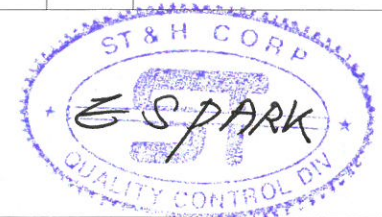
Heat No./ Batch No.	Max Min	Product Analysis Chemical Composition (%)														NDE									
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V							CE	UT	MT	PT				
B6253		0.219	0.262	0.844	0.024	0.004	0.004	0.007	0.002	0.007	0.001											0.362			
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