



QUALITY CERTIFICATE

APS P-8189

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
		C11		C12		C13	
W-16x26	105237	404	402	530	516	22,6	21,9
W-16x26	105238	384	372	548	546	21,5	21,1
W-16x26	105239	379	367	549	545	21,6	20,9
W-16x26	105240	394	382	543	553	21,2	21,
W-16x26	105241	378	376	530	516	21,7	20,9
W-16x26	105242	390	376	548	526	21,2	21,2
W-16x26	105243	370	357	543	551	21,6	21,4
W-16x31	105234	382	370	548	536	21,7	21,6
W-16x31	105235	394	391	539	534	21,6	21,3
W-16x31	105236	361	359	543	550	21,2	21,
W-16x36	105198	390	387	541	533	23,2	23,1
W-16x36	105199	400	396	537	537	23,5	22,8
W-16x36	105200	398	394	531	529	22,	21,3
W-16x36	105201	384	382	544	556	21,2	20,8
W-16x36	105202	406	394	531	529	21,8	21,6
W-16x36	105203	410	394	538	556	21,8	21,2
W-16x36	105195	368	363	523	504	21,6	21,6
W-16x57	105196	384	377	528	514	22,7	22,4
W-8x24	104915	380	364	516	500	21,7	21,5
W-8x24	105127	381	373	538	556	21,7	21,6
W-8x24	105128	363	361	520	506	21,6	21,2
W-8x24	105129	368	356	511	489	24,3	24,
W-8x24	105130	357	355	497	481	22,	21,3
W-8x28	104846	410	398	539	529	23,	23,6
W-8x28	104847	408	404	537	523	22,3	22,
W-8x28	104848	401	399	529	523	24,5	23,8
W-8x31	103352	444	439	549	533	27,3	26,9
W-8x31	103426	386	382	541	556	30,8	30,8
W-8x31	103427	376	366	548	548	30,8	30,1
W-8x31	105041	425	419	536	528	25,1	25,
W-8x31	105042	399	393	515	499	24,9	24,6
W-8x31	105042	399	393	515	499	24,9	24,6
W-8x31	105043	397	387	498	488	25,5	24,6
W-8x31	105043	397	387	498	488	25,5	24,6
W-8x31	105044	396	394	514	506	23,6	22,8
W-8x31	105130	378	374	514	511	22,	21,6
W-8x31	105131	395	393	539	526	21,3	21,
W-8x31	105132	393	379	529	525	22,1	21,5
W-8x31	105133	391	381	528	505	24,2	23,4
W-8x58	104914	396	394	518	516	24,4	23,8
W-8x58	104915	445	437	523	505	22,5	22,1
W-8x67	103422	380	367	549	542	27,9	27,6
W-8x67	103423	363	357	541	553	26,7	26,
W-8x67	104913	410	402	510	494	25,6	25,4

REBARMADO S.A. DE C.V.
 CERTIFICADO ORIGINAL
 LA REPLICACION DE LOS ARCHIVOS
 36-10-00



QUALITY CERTIFICATE

APS P-8189

A02 EN 10204/3.1.B

CSA G40.21 50W/ASTM A36-04/A572 G50-04/A992-04/A6-04

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	SI	P	S	V	Cr	NI	Mo	Cu	Nb	Sn	CEV				
102352	.110	1.17	.210	.014	.018	.042	190	190	.050	.370	.004	.022	.40				
103422	.089	1.26	.230	.019	.015	.002	120	140	.018	.350	.025	.027	.36				
103423	.100	1.21	.190	.028	.017	.001	150	150	.021	.330	.023	.028	.37				
103426	.108	1.19	.170	.034	.018	.001	160	130	.021	.390	.021	.020	.38				
103427	.100	1.21	.190	.028	.017	.001	180	150	.025	.350	.020	.026	.38				
104555	.103	1.17	.200	.026	.013	.035	140	150	.021	.430	.003	.027	.38				
104846	.112	1.20	.190	.021	.013	.044	160	150	.021	.390	.005	.042	.39				
104847	.108	1.17	.200	.026	.014	.040	170	150	.019	.430	.003	.045	.39				
104848	.093	1.14	.200	.033	.019	.042	160	120	.016	.420	.003	.048	.36				
104913	.100	1.11	.180	.010	.021	.046	140	110	.013	.380	.003	.038	.36				
104914	.093	1.26	.190	.014	.027	.046	110	120	.018	.400	.004	.028	.37				
104915	.097	1.13	.180	.018	.027	.040	190	130	.032	.400	.003	.020	.37				
105041	.093	1.20	.210	.026	.023	.044	130	140	.023	.480	.003	.032	.37				
105042	.100	1.23	.210	.030	.020	.046	150	140	.021	.500	.003	.027	.39				
105043	.090	1.28	.200	.030	.028	.044	150	170	.027	.510	.003	.025	.39				
105044	.081	1.20	.200	.028	.022	.042	130	160	.029	.500	.003	.027	.37				
105127	.128	1.12	.180	.025	.018	.004	240	260	.034	.500	.027	.039	.42				
105128	.100	1.21	.190	.026	.026	.004	220	220	.030	.380	.023	.040	.39				
105129	.077	1.17	.190	.026	.029	.003	180	190	.025	.280	.018	.032	.34				
105130	.085	1.14	.190	.024	.027	.003	160	170	.022	.330	.017	.030	.35				
105131	.105	1.20	.190	.017	.019	.002	120	170	.026	.340	.026	.026	.37				
105132	.106	1.17	.190	.016	.018	.003	120	170	.025	.370	.024	.032	.37				
105133	.111	1.19	.190	.018	.022	.003	120	210	.026	.330	.022	.025	.38				
105142	.114	1.27	.190	.032	.016	.003	220	170	.037	.410	.023	.031	.42				
105195	.108	1.26	.190	.024	.021	.001	120	120	.018	.380	.021	.024	.38				
105196	.121	1.17	.170	.016	.014	.002	130	140	.018	.440	.019	.029	.38				
105198	.105	1.18	.190	.019	.015	.002	140	140	.020	.420	.019	.021	.37				
105199	.118	1.18	.190	.025	.016	.002	140	130	.018	.400	.017	.031	.38				
105200	.085	1.29	.190	.017	.027	.002	140	140	.022	.400	.026	.035	.36				
105201	.098	1.20	.190	.016	.019	.002	130	140	.021	.400	.020	.030	.37				
105202	.103	1.16	.180	.024	.021	.003	140	130	.020	.410	.026	.031	.36				
105203	.124	1.17	.220	.024	.017	.002	140	140	.018	.440	.019	.022	.39				
105234	.106	1.16	.190	.020	.017	.001	160	200	.045	.370	.018	.026	.38				
105235	.097	1.16	.150	.017	.022	.001	170	160	.034	.410	.019	.044	.36				
105236	.099	1.20	.200	.031	.022	.002	190	160	.032	.450	.026	.054	.38				
105237	.106	1.22	.200	.032	.016	.002	200	140	.029	.460	.019	.049	.40				
105238	.107	1.28	.230	.020	.022	.001	150	170	.034	.400	.019	.023	.40				
105239	.104	1.20	.220	.021	.022	.001	140	150	.020	.440	.018	.019	.38				
105240	.110	1.16	.220	.024	.016	.002	150	140	.025	.450	.020	.021	.38				
105241	.104	1.16	.190	.025	.013	.001	180	130	.023	.420	.021	.018	.37				
105242	.074	1.16	.200	.022	.021	.001	160	140	.022	.500	.020	.020	.35				
105243	.097	1.23	.220	.021	.025	.002	160	140	.027	.450	.023	.020	.38				