



# Perfiles y Herrajes LTM, S.A. de C.V.

Boulevard Carlos Salinas de Gortari Km. 8.5 Col. Valle del Mezquital, CP 66632 Apodaca, N.L.  
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## CERTIFICADO DE CALIDAD MILL TEST REPORT

CLIENTE / SOLD TO

LAMINA Y PLACA COMERCIAL S.A. DE C.V.  
 AV. OCAMPO PTE 250 A 6 PISO  
 CENTRO  
 MONTERREY, NUEVO LEON, CP 64000

FACTURA / FECHA /  
 INVOICE DATE

11026120 25/AGO/2013

Serie / ID	Producto / Product	Descripción del Material / Material Description	Rollo / Coil	Cajada / Heat	ANÁLISIS QUÍMICO / CHEMICAL ANALYSIS					PROPIEDADES FÍSICAS / MECHANICAL PROPERTIES				Estandar / Standar	Prueba de Aplastamiento / Flattening Test
					%C	%Mn	%P	%S	Tensión / Tensile (ksi)	Cedencia / Yield (ksi)	Elongación / Elongation (%)				
1652699	H080080122031B5	HSS 08 " X 08 "	3A194516CS400	452767011	0.184	0.673	0.008	0.021	64.8	53.1	34.3	A500 GradoB	—		
1652703	H080080122031B5	HSS 08 " X 08 "	3A194516CS400	452767011	0.184	0.673	0.008	0.021	64.8	53.1	34.3	A500 GradoB	—		
1652706	H080080122031B5	HSS 08 " X 08 "	3A194523CS400	452792011	0.09	0.757	0.008	0.003	69.7	54.8	32.8	A500 GradoB	—		
1654050	H080080122031B5	HSS 08 " X 08 "	3A194517CS400	472581011	0.188	0.674	0.01	0.017	65	50.7	37.5	A500 GradoB	—		
1654016	H080080122031B5	HSS 08 " X 08 "	3A194520CS400	452788011	0.19	0.628	0.009	0.013	73.2	63.2	30.8	A500 GradoB	—		
1652686	H080080122031B5	HSS 08 " X 08 "	3A194516CS400	452767011	0.184	0.673	0.008	0.021	64.8	53.1	34.3	A500 GradoB	—		
1652606	H080080122031B5	HSS 08 " X 08 "	3A194525CS400	451086011	0.181	0.731	0.017	0.012	68.4	55.7	34	A500 GradoB	—		
1652614	H080080122031B5	HSS 08 " X 08 "	3A194524CS400	452792011	0.09	0.757	0.008	0.003	69.7	54.8	32.8	A500 GradoB	—		
1654004	H080080122031B5	HSS 08 " X 08 "	3A194523CS400	452792011	0.204	0.619	0.007	0.016	69.7	54.8	32.8	A500 GradoB	—		
1654010	H080080122031B5	HSS 08 " X 08 "	3A194520CS400	452788011	0.19	0.628	0.009	0.013	73.2	63.2	30.8	A500 GradoB	—		
1654013	H080080122031B5	HSS 08 " X 08 "	3A194520CS400	452788011	0.19	0.628	0.009	0.013	73.2	63.2	30.8	A500 GradoB	—		
1653999	H080080122031B5	HSS 08 " X 08 "	3A194523CS400	452792011	0.204	0.619	0.007	0.016	69.7	54.8	32.8	A500 GradoB	—		

Emitted por: Jose Luis Macias  
 Calidad



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**CERTIFICADO DE CALIDAD  
 MILL TEST REPORT**

**CLIENTE / SOLD TO**

LAMINA Y PLACA COMERCIAL S.A. DE C.V.  
 AV. OCAMPO PTE 250 A 6 PISO  
 CENTRO  
 MONTERREY, NUEVO LEON, CP 64000

**FACTURA / FECHA /  
 INVOICE DATE  
 11026159 26/AGO/2013**

Serie / ID	Producto / Product	Descripción del Material / Material Description	Rollo / Coil	Galada / Heat	ANÁLISIS QUÍMICO CHEMICAL ANALYSIS					PROPIEDADES FÍSICAS MECHANICAL PROPERTIES			Estandar / Standard	Prueba de Aplastamiento / Flattening Test
					%C	%Mn	%P	%S	Tensión / Tensile (ksi)	Cedencia / Yield (ksi)	Elongación / Elongation (%)			
1650223	H080080122031B5	HSS 08 " X 08 "	3A196467CS400	455253011	0.184	0.703	0.007	0.008	66.1	52.6	33.8	A500 Gradob	---	
1650213	H080080122031B5	HSS 08 " X 08 "	3A196467CS400	455253011	0.184	0.703	0.007	0.008	66.1	52.6	33.8	A500 Gradob	---	
1650131	H080080122031B5	HSS 08 " X 08 "	3A196471CS400	455253011	0.184	0.703	0.007	0.008	66.1	52.6	33.8	A500 Gradob	---	
1650211	H080080122031B5	HSS 08 " X 08 "	3A196467CS400	455253011	0.184	0.703	0.007	0.008	66.1	52.6	33.8	A500 Gradob	---	
1650388	H080080122031B5	HSS 08 " X 08 "	3A163365CS400	371219011	0.176	0.693	0.008	0.017	66	52.4	32.9	A500 Gradob	---	
1650218	H080080122031B5	HSS 08 " X 08 "	3A196467CS400	455253011	0.184	0.703	0.007	0.008	66.1	52.6	33.8	A500 Gradob	---	
1650381	H080080122031B5	HSS 08 " X 08 "	3A163365CS400	371219011	0.176	0.693	0.008	0.017	66	52.4	32.9	A500 Gradob	---	
1652596	H080080122031B5	HSS 08 " X 08 "	3A194525CS400	451086011	0.181	0.731	0.017	0.012	68.4	55.7	34	A500 Gradob	---	
1652597	H080080122031B5	HSS 08 " X 08 "	3A194525CS400	451086011	0.181	0.731	0.017	0.012	68.4	55.7	34	A500 Gradob	---	
1652665	H080080122031B5	HSS 08 " X 08 "	3A194516CS400	452767011	0.184	0.673	0.008	0.021	64.8	53.1	34.3	A500 Gradob	---	
1652588	H080080122031B5	HSS 08 " X 08 "	3A194516CS400	452767011	0.184	0.673	0.008	0.021	64.8	53.1	34.3	A500 Gradob	---	

Emitido por: Jose Luis Macias  
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