

COMPañA ESPAñOLA DE LAMINACION, S.L.  
 OFICINAS: c/Ferralla,12 Pol.Ind. "SAN VICENTE"  
 08755 Castellbisbal (BARCELONA)  
 NIF: B-59/559351 Sociedad Unipersonal  
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CELSA  
 BARCELONA



**TEST CERTIFICATE**  
**EN 10.204:2004, Type 3.1.**

Standard: CSA G40.21-04 50W/ASTM  
 A572-07 GR50/A992-06A  
 Type: A992  
 St. Tol.: ASTM A6/A6M-08  
 Our Ref: 01917926  
 (B49-31B01)

Customer: FORTACERO S.A. DE C.V.  
 Blvd. Carlos Salinas de Gortari km. 8.8 Apodaca  
 N.L.  
 66600 MEXICO  
 Mexico

Destination: FORTACERO S.A. DE C.V.  
 CFR LO PUERTO TAMPICO  
 Mexico

Delivery number: 200626552  
 Order number : 10377206  
 Your order : 905138MX

Material	Heat Number	CHEMICAL ANALYSIS														MECHANICAL PROPERTIES				
		C	Mn	Si	S	P	Cr	Ni	Cu	Sn	Mo	V	Nb	AL	N	CE	Yield Str.	Ten- sile Str.	Yield/ Tens. Str.	Elong. %
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	MPA	MPA	%	%
GRADO 50 W12X8X50 L.40fts(12.2m)	CE178173	0.090	1.250	0.160	0.024	0.017	0.110	0.130	0.360	0.015	0.023	0.069	0.001	0.002	0.0114	0.371	405	539	0.751	28.2
GRADO 50 W12X8X50 L.40fts(12.2m)	CE178173	0.090	1.250	0.160	0.024	0.017	0.110	0.130	0.360	0.015	0.023	0.069	0.001	0.002	0.0114	0.371	406	540	0.752	28.3
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178228	0.090	1.220	0.180	0.009	0.019	0.050	0.100	0.330	0.014	0.016	0.072	0.002	0.003	0.0120	0.350	406	518	0.784	32.2
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178228	0.090	1.220	0.180	0.009	0.019	0.050	0.100	0.330	0.014	0.016	0.072	0.002	0.003	0.0120	0.350	409	521	0.785	32.6
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178229	0.100	1.230	0.150	0.009	0.019	0.070	0.110	0.380	0.015	0.015	0.073	0.001	0.002	0.0110	0.369	406	518	0.784	32.2
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178229	0.100	1.230	0.150	0.009	0.019	0.070	0.110	0.380	0.015	0.015	0.073	0.001	0.002	0.0110	0.369	409	522	0.784	32.9
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178230	0.080	1.200	0.180	0.022	0.017	0.070	0.110	0.370	0.015	0.016	0.071	0.001	0.003	0.0108	0.343	404	516	0.783	32.6
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178230	0.080	1.200	0.180	0.022	0.017	0.070	0.110	0.370	0.015	0.016	0.071	0.001	0.003	0.0108	0.343	409	521	0.785	32.9
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178231	0.070	1.220	0.170	0.015	0.018	0.090	0.110	0.380	0.015	0.024	0.072	0.002	0.003	0.0114	0.343	405	517	0.783	32.2
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178231	0.070	1.220	0.170	0.015	0.018	0.090	0.110	0.380	0.015	0.024	0.072	0.002	0.003	0.0114	0.343	409	522	0.784	32.6
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178232	0.080	1.190	0.190	0.019	0.028	0.130	0.130	0.390	0.016	0.023	0.068	0.001	0.002	0.0115	0.357	404	516	0.783	32.2
GRADO 50 W8X8X31 L.40fts(12.2m)	CE178232	0.080	1.190	0.190	0.019	0.028	0.130	0.130	0.390	0.016	0.023	0.068	0.001	0.002	0.0115	0.357	409	521	0.785	32.6

- Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.
- Intended use: construction and civil engineering.
- Durability: not determined.
- Regulated substances: not determined

*[Signature]*  
 Castellbisbal, 25.09.2012  
 Juan Diego Martínez Gálvez  
 Quality Control Manager