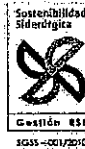


COMPAÑIA ESPAÑOLA DE LAMINACION, S.L.
 OFICINAS: c/Ferralla,12 Pol.Ind. "SAN VICENTE"
 08755 Castellbisbal (BARCELONA)
 NIF: B-59/559351 Sociedad Unipersonal
 Teléfono: +34 93 773 04 00 - Fax: +34 93 772 02 76
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CELSA
 BARCELONA



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: 01981898
 (B49-31801)

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 TUXPAN
 Mexico

Delivery number: 200708320
 Order number : 10391576
 Your order : 905718MX

Material (L=Length)	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. % in.
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	MPA	MPA		%
GRADO 50 W10X10X54L.40fts(12.2m)	CE181465	0.090	1.250	0.230	0.018	0.016	0.090	0.150	0.340	0.021	0.030	0.066	0.001	0.003	0.0110	0.368	421	552	0.751	30.4
GRADO 50 W10X10X54L.40fts(12.2m)	CE181465	0.090	1.250	0.230	0.018	0.016	0.090	0.150	0.340	0.021	0.030	0.066	0.001	0.003	0.0110	0.368	450	562	0.801	27.7
GRADO 50 W10X10X54L.40fts(12.2m)	CE181466	0.090	1.200	0.230	0.017	0.015	0.110	0.130	0.330	0.022	0.024	0.065	0.001	0.003	0.0102	0.361	425	562	0.756	30.3
GRADO 50 W10X10X54L.40fts(12.2m)	CE181465	0.090	1.200	0.230	0.017	0.015	0.110	0.130	0.330	0.022	0.024	0.065	0.001	0.003	0.0102	0.361	443	560	0.791	28.5
GRADO 50 W24X9X76 L.40fts(12.2m)	CE181466	0.090	1.200	0.230	0.017	0.015	0.110	0.130	0.330	0.022	0.024	0.065	0.001	0.003	0.0102	0.361	405	539	0.751	27.3
GRADO 50 W24X9X76 L.40fts(12.2m)	CE181466	0.090	1.200	0.230	0.017	0.015	0.110	0.130	0.330	0.022	0.024	0.065	0.001	0.003	0.0102	0.361	403	537	0.750	27.5
GRADO 50 W24X9X76 L.40fts(12.2m)	CE181467	0.100	1.240	0.230	0.027	0.022	0.120	0.130	0.360	0.026	0.027	0.065	0.001	0.002	0.0102	0.382	404	538	0.751	27.5
GRADO 50 W24X9X76 L.40fts(12.2m)	CE181467	0.100	1.240	0.230	0.027	0.022	0.120	0.130	0.360	0.026	0.027	0.065	0.001	0.002	0.0102	0.382	402	536	0.750	27.5
GRADO 50 W10X10X49L.40fts(12.2m)	CE181468	0.090	1.250	0.230	0.017	0.021	0.140	0.140	0.350	0.027	0.028	0.070	0.001	0.003	0.0109	0.379	410	542	0.756	31.5
GRADO 50 W10X10X49L.40fts(12.2m)	CE181468	0.090	1.250	0.230	0.017	0.021	0.140	0.140	0.350	0.027	0.028	0.070	0.001	0.003	0.0109	0.379	449	572	0.785	26.5
GRADO 50 W10X10X68L.40fts(12.192m)	CE181468	0.090	1.250	0.230	0.017	0.021	0.140	0.140	0.350	0.027	0.028	0.070	0.001	0.003	0.0109	0.379	404	538	0.751	27.8
GRADO 50 W10X10X68L.40fts(12.192m)	CE181468	0.090	1.250	0.230	0.017	0.021	0.140	0.140	0.350	0.027	0.028	0.070	0.001	0.003	0.0109	0.379	406	534	0.749	29.1

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

Castellbisbal, 09.04.2013
 Juan Diego Martínez Gálvez
 Quality Control Manager