

COMPANIA ESPAÑOLA DE LAMINACION, S.L.
 OFICINAS: c/Ferralla,12 Pol.Ind. "SAN VICENTE"
 08755 Castellbisbal (BARCELONA)
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CELSA
 GROUP

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: 02286514
 (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.
 CIF LO TUXPAN PORT
 Mexico

Delivery number: 201093895
 Order number : 10466160
 Your order : 908277MX

Material (L=Lenght)	Heat Number	CHEMICAL ANALYSIS															MECHANICAL PROPERTIES			
		C	Mn	Si	S	P	Cr	Ni	Cu	Sn	Mo	V	Nb	AL	N	CEV	Yield Str.	Ten- sile Str.	Yield/ Tens. Str.	Elong. 8 in. %
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	MPA	MPA	MPA
GRADO 50 W10X8X33L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	408	526	0.776	30.6
GRADO 50 W10X8X33L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	411	530	0.775	26.6
GRADO 50 W10X10X49L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	414	539	0.768	27.9
GRADO 50 W10X10X49L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	410	535	0.766	29.3
GRADO 50 W4X4X13 L.40fts(12.192m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	402	528	0.761	28.2
GRADO 50 W4X4X13 L.40fts(12.192m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	405	530	0.764	27.9
GRADO 50 W8X6.5X24 L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	400	528	0.758	27.7
GRADO 50 W8X6.5X24 L.40fts(12.2m)	CE578068	0.080	1.120	0.170	0.026	0.019	0.090	0.100	0.340	0.020	0.015	0.027	0.001	0.002	0.0103	0.322	405	533	0.760	26.6
GRADO 50 W14X10X82 L.40fts(12.2m)	CE578168	0.080	1.300	0.160	0.027	0.022	0.120	0.110	0.350	0.021	0.020	0.028	0.003	0.002	0.0135	0.361	392	524	0.748	26.9
GRADO 50 W14X10X82 L.40fts(12.2m)	CE578168	0.080	1.300	0.160	0.027	0.022	0.120	0.110	0.350	0.021	0.020	0.028	0.003	0.002	0.0135	0.361	393	526	0.747	29.0
GRADO 50 W14X10X82 L.40fts(12.2m)	CE578169	0.090	1.190	0.170	0.025	0.018	0.100	0.110	0.360	0.021	0.018	0.029	0.002	0.002	0.0139	0.349	394	527	0.748	29.0
GRADO 50 W14X10X82 L.40fts(12.2m)	CE578169	0.090	1.190	0.170	0.025	0.018	0.100	0.110	0.360	0.021	0.018	0.029	0.002	0.002	0.0139	0.349	396	529	0.749	27.0

- 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, 17.09.2015
 Juan Diego Martínez Gálvez
 Quality Control Manager