

Declaration of Performance
Nº: CELSA01BCN

1. **Name and identification code:**
Hot rolled products of structural steels, types S235/S275/S355 and grades JR/JO/J2.
2. **Name and manufacturer's address:**
Compañía Española de Laminación S.L.
C/ Ferralla nº12,
Polígono Industrial San Vicente S/N
08755 Castellbisbal, Barcelona
(Spain)
3. **Intended use:**
To be used in welded, bolted and riveted structures.
4. **System of assessment and verification of constancy of performance of the product**
System 2+
5. **Notified body:**
AENOR N°0099
Assessment and evaluation of factory production control for the system 2+
Factory production control certificate 0099/CPR/A81/0007, issued on 27th February 2006.

The performances of the product identified in point 1 are in line with the performance declared in point 6.

This declaration of performance is issued in accordance with Regulation (EU) n° 305/2011, under the sole responsibility of the manufacturer indicated in point 2.

Signed for and on behalf of the manufacturer:



Anders Cardona Pallarès
Quality Manager

Castellbisbal, 20.06. 2016

6. Determined performances:

Essential characteristics	Performance	Harmonised technical specifications								
Dimensional and shape tolerances	EN 10056-2	Equal leg angles (L)								
	EN 10058	Merchant Rectangular Bars								
	EN 10059	Merchant Squared Bars								
	EN 10060	Merchant Round Bars								
	EN 10024	IPN								
	EN 10034	IPE/HE/UB/UC								
	EN 10279	LPE/UPN/PFC								
Elongation (%)	Type and grade				Nominal thickness (mm)					
			≥3≤40	>40≤63	>63≤100					
	S235JR / JO / J2	26	25	24						
	S275JR / JO / J2	23	22	21						
S355JR / JO / J2	22	21	20							
Tensile strength (MPa)	Type and grade		Nominal thickness (mm)							
			≥3 ≤100							
	S235JR / JO / J2	360 - 510								
	S275JR / JO / J2	410 - 560								
S355JR / JO / J2	470 - 630									
Yield strength (MPa)	Type and grade		Nominal thickness (mm)							
			≤16	>16≤40	>40≤63	>63≤80	>80≤100			
	S235JR / JO / J2	235	225	215	215	215				
	S275JR / JO / J2	275	265	255	245	235				
	S355JR / JO / J2	355	345	335	325	315				
Impact strength (J)	Type and grade		Temperature (°C)	Nominal thickness ≤150 mm						
	S235/275/355 JR		20	27						
	S235/275/355 JO		0	27						
	S235/275/355 J2		-20	27						
Weldability (Chemical Composition)	Type and grade		CEV% max							
			≥3≤40	>30≤40	>40≤150					
	S235JR / JO / J2	0,35	0,35	0,38						
	S275JR / JO / J2	0,40	0,40	0,42						
S355JR / JO / J2	0,45	0,47	0,47							
Durability (Chemical Composition)	Type and grade		C % max		Si % max	Mn % max	P % max	S % max	N % max	Cu % max
			≤40	>40						
	S235JR	0,19	0,23	---	1,50	0,045	0,045	0,014	0,60	
	S235JO	0,19	0,19	---	1,50	0,040	0,040	0,014	0,60	
	S235J2	0,19	0,19	---	1,50	0,035	0,035	---	0,60	
	S275JR	0,24	0,25	---	1,60	0,045	0,045	0,014	0,60	
	S275JO	0,21	0,21	---	1,60	0,040	0,040	0,014	0,60	
	S275J2	0,21	0,21	---	1,60	0,035	0,035	---	0,60	
	S355JR	0,27	0,27	0,60	1,70	0,045	0,045	0,014	0,60	
	S355JO	0,23	0,24	0,60	1,70	0,040	0,040	0,014	0,60	
S355J2	0,23	0,24	0,60	1,70	0,035	0,035	---	0,60		

EN 10025-1:2004