

DECLARATION OF PERFORMANCE**N°1.0114**

1. Unique identification code of the product-type: **1.0114**
2. Type number: **S235J0**
3. Intended use of the construction product, in accordance with the applicable harmonised technical specification: **EN 10025-1:2004**

**HOT ROLLED STRUCTURAL STEEL PRODUCTS TO BE USED IN METAL STRUCTURES OR IN COMPOSITE
METAL AND CONCRETE STRUCTURES**

4. Name and contact address of the manufacturer:

MARCEGAGLIA PALINI E BERTOLI S.P.A.

Register office - **Via Bresciani, 16 – 46040 Gazoldo degli Ippoliti (MN)**
in the factory

Via E. Fermi, 28 – 33058 San Giorgio di Nogaro (UD)

6. System of assessment and verification of constancy of performance of the construction product: **2+**
7. Name and identification number of the notified body:

RINA Services S.p.A.

N° 0474

It has issued the certificate of conformity of the factory production control based on the following elements:

- i. initial inspection of the factory and of the factory production control;
- ii. continuous surveillance, assessment and approval of the factory production control.

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: **N.A.**

9. Declared performance:

Essential characteristics	Requirement clauses in this (or another) European Standard	Performance	Harmonised technical specification
Tolerances on dimensions and shapes	7.7.1	EN10029-2010	EN 10025-2:2019
Elongation	7.3.1	COMPLIANT TABLE 1	
Tensile strength	7.3.1		
Yield strength	7.3.1		
Impact strength	7.3.1+7.3.2		
Chemical Analysis	7.2.1	COMPLIANT TABLE 2	
Weldability (Chemical composition)	7.2+7.4.1	NPD	
Durability (Chemical composition)	7.2+7.4.3	NPD	

10. performance of the product the identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and behalf of MARCEGAGLIA PALINI E BERTOLI S.P.A.

San Giorgio di Nogaro, 10th March 2021

MARCEGAGLIA
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➤ TABLE 1- ESSENTIAL CHARACTERISTICS IN ACCORDING TO EN 10025-2:2019

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE - table 6												
DESIGNATION ACCORDING TO		MINIMUM YIELD STRENGTH REH IN N/MM ²								TENSILE STRENGTH RM IN N/MM ²		
		Nominal thickness mm								Nominal thickness		
EN 10027-1	EN10027-2	≤16	>16 ≤40	>40 ≤63	>63 ≤80	>80 ≤100	>100 ≤150	>150 ≤200	>200 ≤250	≥3 ≤100	>100 ≤150	>150 ≤250
S235J0	1.0114	235	225	215	215	215	195	185	175	360÷510	350÷500	340÷490

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE – table 6												
DESIGNATION ACCORDING TO		Position of test pieces	MINIMUM PERCENTAGE ELONGATION AFTER FRACTURE A%									
			$L_0=5,65 \cdot \sqrt{S_0}$									
EN 10027-1	EN10027-2		≥3≤40	>40≤63	>63≤100	>100≤150	>150≤250					
S235J0	1.0114	l	26	25	24	22	21					
		t	24	23	22	22	21					

MECHANICAL PROPERTIES – IMPACT STRENGTH KV ₂ LONGITUDINAL FOR FLAT PRODUCTS – table 8					
DESIGNATION ACCORDING TO		TEMPERATURE		MINIMUM ENERGY (J) – THICKNESS mm	
EN 10027-1	EN10027-2	°C		≤150	>150≤250
S235J0	1.0114	0		27	27

➤ TABLE 2 – ESSENTIAL CHARACTERISTICS IN ACCORDING TO EN 10025-2:2019

CHEMICAL COMPOSITION OF THE LADLE ANALYSIS - table 1												
DESIGNATION ACCORDING TO		Method of deoxidation	C in % max for nominal product thickness in mm			Si	Mn	P	S	N	Cu	Other
			≤16	>16≤40	>40	max.	max.	max.	max.	max.	max.	max.
EN 10027-1	EN10027-2											
S235J0	1.0114	FN	0,17	0,17	0,17	-	1,40	0,030	0,030	0,012	0,55	-

MAXIMUM CEV BASED ON LADLE ANALYSIS - table 5							
DESIGNATION ACCORDING TO		Method of deoxidation	maximum CEV in % for nominal product thickness in mm				
EN 10027-1	EN10027-2		≤30	>30≤40	>40≤150	>150≤250	
S235J0	1.0114	FN	0,35	0,35	0,38	0,40	