

DOP – DECLARATION OF PERFORMANCE N° 1.8959

DECLARATION OF PERFORMANCE N°1.8959

1. Unique identification code of the product-type: **1.8959**

2. Type number: **\$355J0W**

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.

Registered 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		
Elongation	7.3.1		19	
Tensile strength	7.3.1	COMPLIANT TABLE 1	5-5:2019	
Yield strength	7.3.1	COMPLIANT TABLE I		
Impact strength	7.3.1+7.3.2		10025	
Chemical Analysis	7.2.1	COMPLIANT TABLE 2		
Weldability (Chemical composition)	7.2+7.4.1	NPD	ES	
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





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> TABLE 1- ESSENTIAL CHARACTERISTICS IN ACCORDING TO EN 10025-5:2019

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE - table 4									
DESIGNATION			MINIM	IUM YIELD STR	TENSILE STRENGHT RM IN N/MM ²				
ACCOR	ACCORDING TO Nominal thickness mm					Nominal thickness			
EN 10027-1	EN10027-2	≤16	≤16					≥3 ≤100	>100 ≤150
S355J0W	1.8959	355	345	335	325	315	295	470÷630	450÷600

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE – table 4									
DESIGNATION	Position	MINIMUM PERCENTAGE ELONGATION AFTER FRACTURE A%							
ACCOR	DING TO	of test pieces	$L_0 = 5,65*\sqrt{S_0}$						
EN 10027-1	EN10027-2		≥3≤40 >40≤63 >63≤100 >100≤						
SZEETOVA	1 0050		22	21	20	18			
S355J0W 1.8959	t	20	19	18	18				

MECHANICAL PROPERTIES – IMPACT STRENGTH KV₂ LONGITUDINAL FOR FLAT PRODUCTS – table 5								
DESIGNATION	ACCORDING TO	TEMPERATURE	MINIMUN ENERGY (J) – THICKNESS mm					
EN 10027-1	EN10027-2	°C	≤ 150					
S355J0W	1.8959	0	27					

> TABLE 2 - ESSENTIAL CHARACTERISTICS IN ACCORDING TO EN 10025-5:2019

CHEMICAL COMPOSITION OF THE LADLE ANALYSIS - table 2											
DESIGN ACCORD		Method of	С	Si	Mn	Р	S	N	Cr	Cu	Other
EN 10027-1	EN10027-2	deoxidation	max.	max.		max.	max.	max.			max
S355J0W	1.8959	FN	0,16	0,50	0,50-1,50	0,035	0,035	0,009	0,40-0,80	0,25-0,55	-

MAXIMUM CEV BASED ON LADLE ANALYSIS - 7.2.3								
DESIGNATION ACCORDING TO Method of maximum CEV in % for nominal product thickness in mm								
EN 10027-1	EN10027-2	deoxidation	≤30	>30≤40	>40≤150			
S355J0W	1.8959	FN	0,52	0,52	0,52			