

DOP – DECLARATION OF PERFORMANCE 0160/018

DOC. 1354 Ed. 1 Rev. 00 Pag.1 di 2

DECLARATION OF PERFORMANCE						
No	0160/018					
Product Identification Code	Hot rolled steel product for Structural Use. Grade S355J2W as for EN10025-5:2019					
Identification	According to the information stated on the ID label with barcode and/or Bundle number and in the Inspectin certificate.					
Intended use of the Construction Product	Flat product for use in metal structures or in metal complexes and concrete structures.					
Manufacturer (registered office)	Marcegaglia Plates Via Bresciani, 16 – 46040 Gazoldo degli Ippoliti (MN) – Italia					
Production Plant	San Giorgio di Nogaro Via Fermi, n°33 - 33058 San Giorgio Nogaro (UD) - Italia					
System of assessment and verification of the continuity of performance of the construction product	2+					
Name and ID number of the notified Body	RINA Service S.p.A. – Via Corsica, 12 – 16128 Genova - Italia 0474					
Notified Body and ID No	CARES - Pembroke House, 21 Pembroke Road Sevenoaks, Kent, TN13 1XR					
	1244					

Certificates of Conformity for the control of the plant production have been issued for the following elements:

- Starting inspection of the production plant and of the factory production control.
- Surveillance, evaluation and regular audits of the factory production control.

DECLARED PERFORMANCE

Main Features	Performance	Harmonised specification	
Dimensional tolerances	As for EN 10029: 2011		
Elongation			
Tensile strength	As for Table 1	EN 10025-5: 2019	
Yield strength	AS IOI Table I		
Impact strength		EN 10025-5. 2019	
Chemical analysis	As for Table 3		
Durability (with no request for coating)	N.P.D.		

The performance of the above mentioned product complies with the set of declared performances.

This responsibility statement is issued in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

This responsibility statement is issued in accordance with Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, under the sole responsibility of the manufacturer identified above.

Signed for and behalf of Marcegaglia Plates

Marco Ing. Ferrone

San Giorgio di Nogaro Plant Manager

San Giorgio di Nogaro 12/10/2022

This declaration of performance is valid only in presence of the product identification label and delivery document or of the inspection certificate.



DOP – DECLARATION OF PERFORMANCE 0160/018

DOC. 1354 Ed. 1 Rev. 00 Pag. 2 di 2

TABLE 1 – MECHANICAL CHARACTERISTICS									
	Minimum Yield strenght Reh ^{a)} Mpa Tensile strenght Rm ^{a)} Mpa								
		Nominal Thickness (mm)							
grade	≤ 16	> 16 ≤ 40	> 40 ≤ 63	> 63 ≤ 80	> 80 ≤ 100	> 100 ≤ 120	≥ 3 ≤ 100	> 100 ≤ 120	
S355J2W	355	345	335	325	315	295	470 to 630	450 to 600	

a) For plate, strip and wide flats with widths. ≥600 mm the direction transverse (t) to the rolling direction applies. For all other products the values apply for the direction parallel (I) to the rolling direction..

TABLE 1 – MECHANICAL CHARACTERISTICS (follows)										
		Mechanical characteristics at room temperature for steel grades with impact strenght values				Impact strenght KV longitudinal for flat products				
		Min. percentage elongation after break ^{a)} % L0=5,65√S0				temperature °C	Minimum energy (J)			
		Nominal Thickness (mm)								
grade	Position of test pieces ^{a)}	≥ 3 ≤ 40	> 40 ≤ 63	> 63 ≤ 100	> 100 ≤ 120	≤ 120				
	I	22	21	20	18					
S355J2W						-20	27 ^{b)}			
	t	20	19	18	18					

a) For plate, strip and wide flats with widths. ≥600 mm the direction transverse (t) to the rolling direction applies. For all other products the values apply for the direction parallel (I) to the rolling direction.

TABLE 3 – CHEMICAL ANALYSIS										
Chemical composition of the ladle analysis of steel with improbe atmospheric corrosion resistance d)										
grade	C % max	Si % max	Mn %	P % max	S % max N % max		Aggiunta di elementi che fissano l'azoto ^{c)}	Cr %	Cu %	
S355J2W	0,16	0,50	0,50 - 1,50	0,030	0,030		YES-	0,40 - 0,80	0,25 - 0,55	

a) It is permissible to exceed the specified values provided that for each increase of 0.001% N the P max. content will be reduced by 0.005%; the N contento f the ladle analysis, however, shall not be more than 0.012%

For anything not specified in tables or for exceptions as established in the reference standards

b) The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al contenent of 0.020 % or if sufficient other N binding elements are presents..The binding elements shall be mentioned in the inspection document.

The steels shall contain at least one of the following elements: Al total ≥ 0,020%, Nb: 0,015% - 0,060%, V: 0,02% - 0,12%, Ti: 0,02 – 0,10%. If these elements are used in combination, at least one of them shall be present with the minimum content indicated.

d) The steels may show a Ni content of max.0.65%, 0.30% Mo, 0.15% Zr.