

DOP – DECLARATION OF PERFORMANCE 0160/013

DOC. 1349 Ed. 0 Rev. 04 Pag. 1 di 2

DECLARATION OF PERFORMANCE							
No	0160/013						
Product Identification Code	Hot rolled steel product for Structural Use. Grade S355N as for EN10025-3:2005						
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						

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	
Yield strength	AS IOI Table I	EN 10025-2: 2019
Impact strength		EN 10025-2. 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.

Signed for and behalf of Marcegaglia Plates

Marco Ing. Ferrone

San Giorgio di Nogaro Plant Manager

San Giorgio di Nogaro 01/06/2020

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 0160/013

DOC. 1349 Ed. 0 Rev. 04 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 > 16 ≤ 40 > 40 ≤ 60			> 80 ≤ 100	> 100 ≤ 150	≥ 3 ≤ 100	> 100 ≤ 150					
S355N	355 345 335 325		325	315 295		470 to 630 450 to 600							

⁾ 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 Impact strenght KV grades with impact strenght values a longitudinal for flat prod											
	Min. percentage elongation after break % L0=5,65√S0 Min. percentage elongation after break % temperature ° Minimum energy											
	Nominal Thickness (mm)											
grade	≤ 16 > 16 ≤ 40 > 40 ≤ 63 > 63 ≤ 80 > 80 ≤ 150 ≤ 150											
S355N	22	22	22	21	21	-20	40					

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 (l) to the rolling direction.

b). c)This value corresponds with .27J at -30°C.

	TABLE 3 – CHEMICAL ANALYSIS																
	Chemical composition of the ladle analysis for flat products of steel grades and qualities with values for impact strenght									_	Maximum CEV based on the ladle analysis ^{c)}						
	C % max	Si % max	Mn %	P % max	S % ma x ^{a)}	Nb % max	V % ma x	Al tot % min	Ti % ma x	Cr % max	Ni % max	Mo % max	Cu % max	N % max	Nominal thickness (mm		
grade															≤ 63	> 63 ≤ 100	> 100 ≤ 150
S355N	0,20	0,50	0,90 - 1,65	0,030	0,0 25	0,05	0,1 2	0,02	0,0 5	0,30	0,50	0,10	0,55	0,015	0,43	0,45	0,45

a) For railway applications a maximum S content of 0.010% may be agreed at the time of enquiry and order.

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

b) If sufficient other N-binding elements are present the minimum total Al content does not apply.

c) The optional increase of elements capable of influencing the CEV shall be determined by the norm.