

## DOP – DECLARATION OF PERFORMANCE 0160/015

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DECLARATION OF PERFORMANCE								
No	0160/015							
Product Identification Code	Hot rolled steel product for Structural Use. Grade S420N as for EN10025-3:2019							
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 <b>0474</b>							
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			
Yield strength	AS IOI Table I	EN 10025-2: 2019		
Impact strength				
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

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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.



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TABLE 1 – MECHANICAL CHARACTERISTICS												
	Minimum Yield strenght Reh <sup>a)</sup> Mpa  Tensile strenght Rm <sup>a)</sup> Mpa											
	Nominal Thickness (mm)											
grade	≤ 16	> 16 ≤ 40	> 40 ≤ 50	≤ 50								
S420N	<b>N</b> 420 400 390 da 5											
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												

		aracteristics at room des with impact stren	Impact strenght KV longitudinal for flat products					
	N	lin. percentage elongation af L0=5,65√S0	temperature °C Minimum ene					
	spessore nominale mm							
grade	≤ 16 > 16 ≤ 40 > 40 ≤ 50 ≤ 50							
S420N	19	19	-20	40 b)				

ш).	to place, our place and make make make an outer an outer transverse (c) to the round appropriate an outer
	products the values apply for the direction parallel (I) to the rolling direction.
b).	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 <sup>c)</sup>					
	C % max	Si % max	Mn %	P % max	S % max <sup>a)</sup>	Nb % max	V % max	Al tot % min	Ti % max	Cr % max	Ni % max	Mo % max	Cu % max	N % max	Nominal thickness (mm)
grade															≤ 50
S420N	0,20	0,60	1,00 - 1,70	0,030	0,025	0,05	0,20	0,02	0,05	0,30	0,80	0,10	0,55	0,025	0,48

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

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