

DOP – DECLARATION OF PERFORMANCE 0160/021

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DECLARATION OF PERFORMANCE									
No	0160/021								
Product Identification Code	Hot rolled steel product for Structural Use. Grade S460NL 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 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				
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 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.



1,00 -

0,025

0,020

0,05

S460NL

0,20

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TABLE 1 - MECHANICAL CHARACTERISTICS										
	Minimum Yield strenght Reh ^{a)} Mpa Tensile strenght Rm ^{a)} M									
	Nominal Thickness (mm)									
grade	≤ 16	> 16 ≤ 40	≤ 40							
S460NL	460	440	540 - 720							
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										

	Mechanical characteristics grades with impa	Impact strenght KV longitudinal for flat product			
	•	ongation after break % 5,65VSO	temperature °C Minimum energy		
		Nominal Thickness (mm)			
grade	≤16	> 16 ≤ 40	≤ 40		
S460NL	17	17	-50	27	

	TABLE 3 – CHEMICAL ANALYSIS														
	Chemical composition of the ladle analysis for flat products of steel grades and qualities with values for impact strenght												and	Maximum CEV based on the ladle analysis ^{c)}	
	C % max	Si % max	Mn %	P % max	S % max ^{a)}	Nb % max	V % max	Al tot % min	Ti % max	Cr % max	Ni % max	Mo % max	Cu % max	N % max	Nominal thickness (mm)
grade															< 40

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

0,02

0,05

0,30

0,10

0,53

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

0,20

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