DOC. 1352

Ed. 0

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DECLAR	RATION OF PERFORMA	NCE					
Ν	o 0160/016						
Product Identification Code		Hot rolled steel product for Structural Use. Grade S420NL 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.					
ended 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 Ga	azoldo degli Ippoliti (MN) – Italia					
Production Plant	San Giorgio di Nogaro Via Fermi, n°33 - 33058 San	San Giorgio di Nogaro Via Fermi, n°33 - 33058 San Giorgio Nogaro (UD) - Italia					
System of assessment and verification of th continuity of performance of the constructio product	ne	2+					
Name and ID number of the notified Body	RINA Service S.p.A. – Via C	RINA Service S.p.A. – Via Corsica, 12 – 16128 Genova - Italia 0474					
<ul> <li>Certificates of Conformity for the control of t</li> <li>Starting inspection of the production</li> <li>Surveillance, evaluation and regula</li> </ul>	n plant and of the factory producti	ion control.					
DEC	LARED PERFORMANCE	E					
Main Features	Performance	Harmonised specification					
Dimensional tolerances	As for EN 10029: 2011						
Elongation							
Tensile strength	As for Table 1						
Yield strength		EN 10025-2: 20019					
Impact strength							
Chemical analysis	As for Table 3						
Durability (with no request for coating)	N.P.D.						

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.

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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										
S420NL	420 400 390 da 520 a 680										
a) Fo	a) For plate, strip and wide flats with widths. ≥600 mm the direction transverse (t) to the rolling direction applies. For all other										
pr	products the values apply for the direction parallel (I) to the rolling direction										

		aracteristics at room des with impact stren	Impact strenght KV longitudinal for flat products							
	N	lin. percentage elongation a L0=5,65√S0	temperature °C	Minimum energy (J)						
	spessore nominale mm									
grade	≤ 16     > 16 ≤ 40     > 40 ≤ 50     ≤ 50									
S420NL	19 19 19 -50									

	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 <sup>b)</sup>	Ti % max	Cr % max	Ni % max	Mo % max	Cu % max	N % max	Nominal thickness (mm)
grade															≤ 50
S420NL	0,20	0,60	1,00 - 1,70	0,025	0,020	0,05	0,20	0,02	0,05	0,30	0,80	0,10	0,55	0,025	0,48
a	a). For railway applications a maximum S content of 0.010% may be agreed at the time of enquiry and order.														
b	b). If sufficient other N-binding elements are present the minimum total Al content does not apply.														

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