DOC. 1349

Ed. 1

Pag.1 di 2

DECLARATION OF PERFORMANCE								
No	0160/013 Hot rolled steel product for Structural Use. Grade S355N as for EN10025-3:2019							
Product Identification Code								
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 for Table 1	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.

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.

Ed. 1

## DOP – DECLARATION OF PERFORMANCE 0160/013

DOC. 1349

Rev. 00

Pag.2 di 2

		Minimu		Tensile strenght Rm <sup>a)</sup> Mpa							
Nominal Thickness (mm)											
grade ≤ 16		≤ 16 > 16 ≤ 40		> 63 ≤ 80	> 80 ≤ 100	> 100 ≤ 150	≥ 3 ≤ 100	> 100 ≤ 150			
S355N	355	345	335	325	315	295	470 to 630	450 to 600			

	Mechar	nical charad	cteristics at	room tempe	ARACTERISTIC erature for steel	Impact s	strenght KV				
	grades with impact strenght values <sup>a</sup> longitudinal for flat produc										
	Min. percentage elongation after break % L0=5,65√S0 temperature ° Minimum ener										
				Nominal	Thickness (mm)						
grade	≤ 16	> 16 ≤ 40	> 40 ≤ 63	> 63 ≤ 80	> 80 ≤ 150	≤ 150					
S355N	22 22 22 21 21 -20										
a). Fo	or plate, strip a	nd wide flats w	/ith widths. ≥60	0 mm the direct	ion transverse (t) to the	rolling direction appl	ies. For all other				
pr	oducts the val	ues apply for tl	ne direction par	rallel (I) to the ro	lling direction.						
b). <b>c)</b>	This value corr	esponds with .	27J at -30°C.								

	Chen	nical c			tion of the ladle analysis for flat products of steel grades I qualities with values for impact strenght						Maximum CEV based on the ladle analysis <sup>c)</sup>						
	C % max	Si % max	Mn %	P % max	S % ma x <sup>a)</sup>	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
b) If	or railwa sufficie he optio	nt other	N-bind	ing elerr	ients a	are pres	ent th	e minin	, num to	otal Al o	ontent	does no	ot apply		er.		

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