

**DECLARATION OF PERFORMANCE****No 0160/011**

| | | |
|--|---|---|
| Product Identification Code | Hot rolled steel product for Structural Use. Grade S275N 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: <ul style="list-style-type: none"> 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 | EN 10025-2: 2019 |
| Elongation | As for Table 1 | |
| Tensile strength | | |
| Yield strength | | |
| 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. | | |
| Signed for and behalf of Marcegaglia Plates <i>Marco Ing. Ferrone</i> San Giorgio di Nogaro Plant Manager | | |
| | | <i>San Giorgio di Nogaro 01/06/2020</i> |
| This declaration of performance is valid only in presence of the product identification label and delivery document or of the inspection certificate. | | |

TABLE 1 – MECHANICAL CHARACTERISTICS

| grade | Minimum Yield strenght $ReH^{a)}$ Mpa | | | | Tensile strenght $Rm^{a)}$ Mpa | | | |
|--------------|---------------------------------------|-----------|-----------|--|--------------------------------|--|--|------------|
| | Nominal Thickness (mm) | | | | | | | |
| | ≤ 16 | > 16 ≤ 40 | > 40 ≤ 60 | | | | | ≥ 3 ≤ 100 |
| S275N | 275 | 265 | 255 | | | | | 370 to 510 |

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..

TABLE 1 – MECHANICAL CHARACTERISTICS (follows)

| grade | Mechanical characteristics at room temperature for steel grades with impact strenght values ^{a)} | | | Impact strenght KV longitudinal for flat products | |
|--------------|---|-----------|-----------|---|--------------------|
| | Min. percentage elongation after break % LO=5,65VS0 | | | temperature °C | Minimum energy (J) |
| | Nominal Thickness (mm) | | | | |
| | ≤ 16 | > 16 ≤ 40 | > 40 ≤ 60 | ≤ 60 | |
| S275N | 24 | 24 | 24 | -20 | 40 ^{b)} |

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

TABLE 3 – CHEMICAL ANALYSIS

| grade | 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 % max ^{a)} | Nb % max | V % max | Al tot % max ^{b)} | Ti % max | Cr % max | Ni % max | Mo % max | Cu % max | N % max | Nominal thickness (mm) |
| S275N | 0,18 | 0,40 | 0,50 - 1,50 | 0,030 | 0,025 | 0,05 | 0,05 | 0,02 | 0,05 | 0,30 | 0,30 | 0,10 | 0,55 | 0,015 | 0,400 |

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