

## STEEL PLATES FROM HOT ROLLED COILS

**Qualità: S275J2+N**

Structural Steel

Grade **S275J2+N**

Norm **EN10025-2**

W. Nr. **1.0145**

Rolling state **N - Normalized**

Description Non alloyed steel for structural uses. Suitability for cold forming.  
*Also available in 2500mm wide coils*

Applications Civil engineering, metal structures, carpentry, tanks, construction machineries and laser cutting.

Standard coils' stock range

|     | 1000 | 1250 | 1500 | 1800 | 2000 | 2500 |
|-----|------|------|------|------|------|------|
| 2   |      | •    | •    |      |      |      |
| 2,5 | •    | •    | •    |      |      |      |
| 3   | •    |      | •    |      | •    |      |
| 4   |      |      | •    |      | •    |      |
| 5   |      |      | •    | •    | •    | •    |
| 6   |      |      | •    | •    | •    | •    |
| 7   |      |      |      |      | •    |      |
| 8   |      |      | •    | •    | •    |      |
| 10  |      |      | •    | •    | •    |      |
| 12  |      |      | •    |      | •    |      |
| 15  |      |      | •    |      | •    |      |
| 20  |      |      | •    |      | •    |      |

Dimensions other than the ones listed here can be sourced on agreement.

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

### Chemical composition According to UNI EN 10025

| Elemento | Al | B | C    | Ceq | Cr | Cu   | Mo | Mn    | N |
|----------|----|---|------|-----|----|------|----|-------|---|
| Min.     |    |   |      |     |    |      |    |       |   |
| Max      |    |   | 0,18 |     |    | 0,55 |    | 1,500 |   |

  

| Elemento | Ni | Nb | P     | S     | Si | Sn | Ti | V | Zr |
|----------|----|----|-------|-------|----|----|----|---|----|
| Min.     |    |    |       |       |    |    |    |   |    |
| Max      |    |    | 0,025 | 0,025 |    |    |    |   |    |

### Mechanical properties According to UNI EN 10025

|                        |           |           |
|------------------------|-----------|-----------|
| Nominal Thickness (mm) | ≤ 16      | > 16      |
| Yield Strenght (MPa)   | ≥ 275     | ≥ 265     |
| Nominal Thickness (mm) | < 3       | ≥ 3       |
| Tensile Strenght (MPa) | 430 – 580 | 410 - 560 |

|                         |             |             |           |             |            |
|-------------------------|-------------|-------------|-----------|-------------|------------|
| Spessore nominale (mm)  | 1 < t ≤ 1,5 | 1,5 < t ≤ 2 | 2 < ≤ 2,5 | 2,5 < t ≤ 3 | 3 ≤ t ≤ 20 |
| Allungamento A80%       | ≥ 16/14     | ≥ 17/15     | ≥ 18/16   | ≥ 19/17     |            |
| Allungamento A5%        |             |             |           |             | ≥ 23/21    |
| Temperatura (°C)        |             |             |           | -20°C       |            |
| Prova di resilienza (J) |             |             |           | ≥ 27        |            |

### Tolerances

#### Dimensional Tolerances

UNI EN 10051

#### Surface Status

UNI EN 10163-2

### Equivalences

| W. Nr. | ASTM<br>ASME | Spain UNE | China | Germany<br>DIN | Italy UNI | France<br>AFNOR |
|--------|--------------|-----------|-------|----------------|-----------|-----------------|
| 1.0145 | A663GrA      | AE275D    | Q275D | St44-3N        | Fe430D    | E28-2           |

### Certifications

- EN10204-3.1
- CE/Declaration of Performance

**DISCLAIMER:** while great care has been taken to ensure the accuracy of all information contained in this document, Siderurgica Astico S.p.A. hereby disclaims any and all responsibility or liability that may be asserted or claimed arising from, or claimed to have arisen from, reliance upon the use or the interpretation of this document by any person. This document may be subject to change at any time without warning.