

**DECLARATION OF PERFORMANCE**

n. 10219-01072013-4

1. Unique product-type identification code:

| profile             | external dimensions | thicknesses      | Steel grades:  |
|---------------------|---------------------|------------------|--|
| Circular section    | ∅ 19 ÷ 355,6 mm     | from 1,2 ÷ 16 mm | S235JRH-S275J0H-S275J2H-S355J0H-S355J2H-S355K2H-S275NH-S355NH-S460NH-S275NLH-S355NLH-S460NLH-S275MH-S355MH-S420MH-S460MH-S275MLH-S355MLH-S420MLH-S460MLH |
| Square section      | 90x90 ÷ 300x300 mm  | from 3 ÷ 16 mm   |  |
| Rectangular section | 100x80 ÷ 400x200 mm | from 3 ÷ 16 mm   |  |

2. Expected Uses: *Cold profiled tubes of unalloyed steels and fine grain for welded structures*
3. Manufacturer: *Arvedi Tubi Acciaio Spa, via Acquaviva, 3 – 26100 CR - Italy*
4. Authorized representative: *Not applicable*
5. AVCP system: *system 2+*
6. Harmonized standard: *EN 10219-1:2006 – EN 10219-2:2006*  
Notified body: *Istituto Italiano di Garanzia della Qualità, 1608 CPR P064*  
*UK Certification Authority for Reinforcing Steels, 1244-CPR-1087*

7. Declared performance:

|                       | Circular section                         | Square / rectangular section              | Harmonized technical specification |                          |
|-----------------------|--|---|------------------------------------|--------------------------|
| Essential Feature     | Declared performance                     |   | EN 10219-2                         |                          |
| External dimensions   | +/-1% with min: +/-0.5mm                 | H,B<100 mm                                |                                    | +/-1% with min: +/-0.5mm |
|                       |  | 100≤ H,B ≤ 200 mm                         |                                    | +/- 0.8%                 |
|                       |  | H,B>200 mm                                |                                    | +/- 0.6%                 |
| Thickness             | +/- 10% with a maximum di +/- 0,5mm      |   |                                    |                          |
| Ovality               | 2%                                       |   |                                    |                          |
| Concavity / convexity | +/- 0,8%                                 |   |                                    |                          |
| Angle between sides   | 90° +/-1°                                |   |                                    |                          |
| Edge radius           |  | T≤ 6 mm                                   |                                    | 1.6xT<r≤2.4xT            |
|                       |  | 6<T≤10mm                                  |                                    | 2.0xT<r≤3.0xT            |
|                       |  | T>10 mm                                   |                                    | 2.4xT<r≤3.6xT            |
| Twist                 | 2mm + 0.5mm/mt                           |   |                                    |                          |
| Straightness          | 2.0mm/m on total length and loc. ≤ 3mm/m | 1,5 mm/m on total length and loc. ≤ 3mm/m |                                    |                          |
| Mass                  | +/- 6% (on the single tube)              |   |                                    |                          |

| Steel   | Essential Features   |            |                   |                    |                       |       |      | Weldability (CEV) | Durability                       | Harmonized technical specification |
|---------|----------------------|------------|-------------------|--------------------|-----------------------|-------|------|-------------------|----------------------------------|------------------------------------|
|         | Elongation           | Yield load | Breaking load T<3 | Breaking load T>=3 | Resilience KV (10 mm) |       |      |                   |                                  |                                    |
|         |                      |            |                   |                    | -50°C                 | -20°C | 0° C |                   |                                  |                                    |
| %       | MPa                  | MPa        | MPa               | J                  |                       |       | %    |                   |                                  |                                    |
|         | Declared Performance |            |                   |                    |                       |       |      |                   |                                  |                                    |
| S235JRH | 24                   | 235        | 360-510           | 360-510            |                       |       | 27   | 0,35              | If required, galvanized material | EN 10219-1                         |
| S275J0H | 20                   | 275        | 430-580           | 410-560            |                       |       | 27   | 0,4               |                                  |                                    |
| S275J2H | 20                   | 275        | 430-580           | 410-560            |                       |       | 27   | 0,4               |                                  |                                    |
| S355J0H | 20                   | 355        | 510-680           | 470-630            |                       |       | 27   | 0,45              |                                  |                                    |
| S355J2H | 20                   | 355        | 510-680           | 470-630            |                       |       | 27   | 0,45              |                                  |                                    |
| S355K2H | 20                   | 355        | 510-680           | 470-630            |                       |       | 40   | 0,45              |                                  |                                    |
| S275NH  | 24                   | 275        | 370-510           |                    |                       |       | 40   | 0,4               |                                  |                                    |
| S355NH  | 22                   | 355        | 470-630           |                    |                       |       | 40   | 0,43              |                                  |                                    |
| S460NH  | 17                   | 460        | 540-720           |                    |                       |       | 40   | 0,53              |                                  |                                    |
| S275NLH | 24                   | 275        | 370-510           |                    | 27                    |       |      | 0,4               |                                  |                                    |
| S355NLH | 22                   | 355        | 470-630           |                    | 27                    |       |      | 0,43              |                                  |                                    |
| S460NLH | 17                   | 460        | 540-720           |                    | 27                    |       |      | 0,53              |                                  |                                    |
| S275MH  | 24                   | 275        | 360-510           |                    |                       | 40    |      | 0,34              |                                  |                                    |
| S355MH  | 22                   | 355        | 450-610           |                    |                       | 40    |      | 0,39              |                                  |                                    |
| S420MH  | 19                   | 420        | 500-660           |                    |                       | 40    |      | 0,43              |                                  |                                    |
| S460MH  | 17                   | 460        | 530-720           |                    |                       | 40    |      | 0,46              |                                  |                                    |
| S275MLH | 24                   | 275        | 360-510           |                    | 27                    |       |      | 0,34              |                                  |                                    |
| S355MLH | 22                   | 355        | 450-610           |                    | 27                    |       |      | 0,39              |                                  |                                    |
| S420MLH | 19                   | 420        | 500-660           |                    | 27                    |       |      | 0,43              |                                  |                                    |
| S460MLH | 17                   | 460        | 530-720           |                    | 27                    |       |      | 0,46              |                                  |                                    |



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Cap.Soc. 24.000.000 EUR i.v.  
Società interamente controllata  
da Finarvedi S.p.A.  
R.I. CR 00113630198  
R.E.A. CR 90188  
Mecc. Est. CR 000296  
C.F. e Part. IVA IT 00113630198


**Arvedi Tubi Acciaio** 

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

*NOTE: this declaration of performance is valid only if accompanied by the material test certificate.*

Signed for and on behalf of the manufacturer by:

Cremona, 01/01/2024

Noris Battocletti  
Quality Manager  


NOTE: this DoP is available online at the following link: <https://www.arvedi.it/ata/qualita-e-tecnologia/il-prodotto-lambiente-e-le-persone/>

