

**S.C.TMK - ARTROM S.A.**

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J 28/9/1991; VAT No: RO 1510210/1992;  
Subscribed and Paid Share Capital: 291.587.538, 34 lei

**DECLARATION OF PERFORMANCE****No. 1 / CPR 12-04-13**

1. Unique identification code of the product-type: **hot finished structural hollow sections acc. to EN 10210-1**
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): **S355NH according to EN 10210-1&2:2006**
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Metal structures or in composite metal and concrete structures**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**S.C. TMK-ARTROM S.A.,**



**Draganesti Street, No. 30, 230119  
Slatina, OLT**

**Email: [office.slatina@tmk-artrom.eu](mailto:office.slatina@tmk-artrom.eu)**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

**S.C. TMK-ARTROM S.A.,  
Draganesti Street, No. 30, 230119  
Slatina, OLT**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **2+**
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: **EN 10210-1&2**

Notified factory production control certification body No. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

**0036- CPR-M-08-2011**

## 8. Declared performance

## S355NH, EN 10210-1:2006

| Essential characteristic                                                                                        | Performance            |       |                                                      |          |            |
|-----------------------------------------------------------------------------------------------------------------|------------------------|-------|------------------------------------------------------|----------|------------|
| Tolerances on dimensions and shape                                                                              | Outside dimensions     |       | ±1% with a minimum of ±0.5mm and a maximum of ±10 mm |          |            |
|                                                                                                                 | Thickness              |       | ±10%                                                 |          |            |
| Yield strenght                                                                                                  | Nominal thickness (mm) |       | Values                                               |          |            |
|                                                                                                                 | >                      | ≤     | min. (MPa)                                           |          | max. (MPa) |
|                                                                                                                 |                        | 16    | 355                                                  |          |            |
|                                                                                                                 | 16                     | 40    | 345                                                  |          |            |
|                                                                                                                 | 40                     | 65    | 335                                                  |          |            |
| Tensile strength                                                                                                | Nominal thickness (mm) |       | Values                                               |          |            |
|                                                                                                                 | >                      | ≤     | min. (%)                                             |          | max. (%)   |
|                                                                                                                 |                        | 65    | 470                                                  |          | 630        |
| Elongation                                                                                                      | Nominal thickness (mm) |       | Values                                               |          |            |
|                                                                                                                 | >                      | ≤     | min. (%)                                             |          |            |
|                                                                                                                 |                        |       | Long.                                                | Trans.   |            |
|                                                                                                                 |                        | 65    | 22                                                   | 20       |            |
| Impact strength                                                                                                 | Nominal thickness (mm) |       | Values                                               |          |            |
|                                                                                                                 | ≥                      |       | min. (J)                                             |          |            |
|                                                                                                                 | 6                      |       | 40J at -20° (this value corresponds to 27J at -30°)  |          |            |
| Weldability CEV                                                                                                 | Nominal thickness (mm) |       | Values                                               |          |            |
|                                                                                                                 | >                      | ≤     |                                                      |          | max. (%)   |
|                                                                                                                 |                        | 16    |                                                      |          | 0.43       |
|                                                                                                                 | 16                     | 65    |                                                      |          | 0.45       |
| Durability                                                                                                      |                        |       | Elem.                                                | min. (%) | max. (%)   |
|                                                                                                                 |                        |       | C                                                    |          | 0.2        |
|                                                                                                                 |                        |       | Si                                                   |          | 0.5        |
|                                                                                                                 |                        |       | Mn                                                   | 0.9      | 1.65       |
|                                                                                                                 |                        |       | P                                                    |          | 0.035      |
|                                                                                                                 |                        |       | S                                                    |          | 0.030      |
|                                                                                                                 |                        |       | Nb                                                   |          | 0.05       |
|                                                                                                                 |                        |       | V                                                    |          | 0.12       |
|                                                                                                                 |                        |       | Al tot                                               | 0.02     |            |
|                                                                                                                 |                        |       | Ti                                                   |          | 0.03       |
|                                                                                                                 |                        |       | Cr                                                   |          | 0.3        |
|                                                                                                                 |                        |       | Ni                                                   |          | 0.5        |
|                                                                                                                 |                        |       | Mo                                                   |          | 0.1        |
|                                                                                                                 |                        |       | Cu*                                                  |          | 0.35*      |
| N                                                                                                               |                        | 0.020 |                                                      |          |            |
| *=if the copper content is greater then 0.30% then nickel content shall be at least half of the copper content. |                        |       |                                                      |          |            |

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies: **EN 10210-1&2:2006**

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

**Silviu Barbulescu – Chief of Quality Control & Laboratories**  
**Slatina April 12, 2013**



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**13**

No. 1 / CPR 12-04-13

**EN 10210-1:2006**

S355NH / 1.0539

intended to be used in metal structures or in composite metal and concrete structures

**Tolerances:**

**Elongation:**

**Tensile strength:**

**Yield strength:**

**Impact strength:**

**Weldability:**

**Durability:**

**expressed as indicated in the  
DoP**

**Dangerous substance: No performance determined**