

A04



A03 № 3130047381 / 2025.01.21

page 1 of 1

A02 Test report 10204 / 2.2

A01 **HUS LTD**  
1 Industrialna Str.  
3600 Lom, Bulgaria

B01 **Welded cold sized square and rectangular tubes**  
**EN 10305-5**

БДС

A07 Order №  
A06 Customer.....METALICA ZUEV SRL  
A10 Invoice № 3130047381

B09  
B02 E220 B01 S3 B10 6000 mm B04 CR2  
D01

B11

B13 10 665 kg.

|     |           |     |          |     |  |     |          |     |                 |     |         |
|-----|-----------|-----|----------|-----|--|-----|----------|-----|-----------------|-----|---------|
| B09 | 15x15x1,5 | B10 | 6000 mm. | B11 |  | B13 | 1007 kg. | B06 | 000407820998910 | B07 | 194026  |
| B09 | 15x15x1,5 | B10 | 6000 mm. | B11 |  | B13 | 1003 kg. | B06 | 000407766598910 | B07 | 194026  |
| B09 | 15x15x1,5 | B10 | 6000 mm. | B11 |  | B13 | 1008 kg. | B06 | 000407821198910 | B07 | 194026  |
| B09 | 15x15x1,5 | B10 | 6000 mm. | B11 |  | B13 | 1021 kg. | B06 | 000407277098910 | B07 | 194026  |
| B09 | 15x15x1,5 | B10 | 6000 mm. | B11 |  | B13 | 1023 kg. | B06 | 000407276498910 | B07 | 194026  |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 907 kg.  | B06 | 000382698398910 | B07 | Y930269 |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 935 kg.  | B06 | 000382700798910 | B07 | Y930269 |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 925 kg.  | B06 | 000382700298910 | B07 | Y930269 |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 945 kg.  | B06 | 000382693598910 | B07 | Y930269 |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 945 kg.  | B06 | 000382693898910 | B07 | Y930269 |
| B09 | 40x20x1,5 | B10 | 6000 mm. | B11 |  | B13 | 946 kg.  | B06 | 000382694398910 | B07 | Y930269 |

C71 Chemical composition %

| B06             | BC7     | C    | Mn | Si | P     | S  | Al min | Cu   | Cr | Ni | Mo    | Nb | Ti | V | N |
|-----------------|---------|------|----|----|-------|----|--------|------|----|----|-------|----|----|---|---|
| Bundle №        | Heat №  | x100 |    |    | x1000 |    |        | x100 |    |    | x1000 |    |    |   |   |
| 000407820998910 | 194026  | 4    | 21 | 1  | 10    | 9  |        |      |    |    |       |    |    |   |   |
| 000407766598910 | 194026  | 4    | 21 | 1  | 10    | 9  |        |      |    |    |       |    |    |   |   |
| 000407821198910 | 194026  | 4    | 21 | 1  | 10    | 9  |        |      |    |    |       |    |    |   |   |
| 000407277098910 | 194026  | 4    | 21 | 1  | 10    | 9  |        |      |    |    |       |    |    |   |   |
| 000407276498910 | 194026  | 4    | 21 | 1  | 10    | 9  |        |      |    |    |       |    |    |   |   |
| 000382698398910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |
| 000382700798910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |
| 000382700298910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |
| 000382693598910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |
| 000382693898910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |
| 000382694398910 | Y930269 | 5    | 23 | 1  | 12    | 11 |        |      |    |    |       |    |    |   |   |

| B07     | C51 Mechanical properties |          |     |     |     |                    |                        |
|---------|---------------------------|----------|-----|-----|-----|--------------------|------------------------|
| Heat №  | C00                       |          | C11 | C12 | C13 | C53                | C54                    |
|         | Certificate №             | Test №   | ReH | Rm  | A   | Visual examination | Dimensional inspection |
|         |                           |          | MPa | MPa | %   |                    |                        |
| 194026  | 211807443                 | 50266218 | 221 | 320 | 40  | carried out        | carried out            |
| 194026  | 211807443                 | 50266218 | 221 | 320 | 40  | carried out        | carried out            |
| 194026  | 211807443                 | 50266218 | 221 | 320 | 40  | carried out        | carried out            |
| 194026  | 211807443                 | 50266218 | 221 | 320 | 40  | carried out        | carried out            |
| 194026  | 211807443                 | 50266218 | 221 | 320 | 40  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |
| Y930269 | 70115893                  | 59795    | 261 | 331 | 38  | carried out        | carried out            |

Z02 Z03 Director Branch Lom  
N.Dechev  
Date 21..01.2025  
www.husltd.com Seal HUS LTD.



A05 AK

D51 The test has been performed on the products and the results are satisfactory.

Z01 The producer declares that the product is according to the customer's order.

Z05 With shape, size tolerances and regulated surface roughness according to БДС EN 10305-5 or request / drawing of the client. Precise application - automotive and furniture industry, general machine building.

Z06 Claims are allowed within 14 days from product receipt. In order to consider a claim, the customer must provide a quality inspection control document and a marking on the claimed goods. Claims associated with unloading and storage of the goods will not be accepted.

Z07 Declaration on the characteristics of a construction product №3130047381HUS STPA WCSRT CR2

**Declaration on the characteristics of a construction product**  
Annex №1 to art.4 (1) item 2 of Ordinance №ПД-02-20-01 of 05 February 2015  
№3130047381HUS STPA WCSRT CR2 /2025

- 1. Unique Product Type Identification code :** **Welded cold sized square and rectangular tubes HUS STPA WCSRT CR2.**
- 2. National requirements applicable for the construction product:** **БДС EN 10305-5**
- 3. Intended use** or uses of the construction product in accordance with the national requirements as intended by the manufacturer: **For applications requiring precision. For general machine building, automotive and furniture industry.**
- 4. Name, registered trade name or registered trademark,** manufacturer's contact address and place of production: **HUS Ltd.  
4027 Plovdiv, 64A Plovdiv-sever Street.  
HUS Ltd.  
3600 Lom, 1 Industrialna Street.  
[www.husltd.com](http://www.husltd.com)**
- 5. Name and contact address of the Authorized representative** (where applicable): **Not applicable**
- 6. Name of the body assessing the conformity to the national requirements** (where applicable): **Institute of Mechanics-Bulgarian Academy of Sciences, body assessing the conformity of construction products, Permit №02-ПООСП / 06.12.2017 of Ministry of Regional Development and Public Works, Issued Certificate of Conformity 02-НУРВСПРБ-0006-1/3C.**

**7. Declared performance of the construction product characteristics:**

| Characteristics                                                                                                                                                                                                     |            | Performance                                                                                                                            |             |             |             |             |             | Testing/<br>determination<br>method      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|------------------------------------------|
| Geometric dimensions and tolerances *:<br>1) thickness (mm),<br>2) cross-section:<br>2.1) square – side (mm)<br>2.2) rectangular – width, height (mm)<br>3) length (m)<br>* tolerances according to the tube sizes. |            | 1) $\geq 1.0$ ; $\leq 4.0$<br>2)<br>2.1) $\geq 15.0$ ; $\leq 50.0$ ,<br>2.2) $\geq 10.0$ ; $\leq 50.0$<br>3) $\geq 1.20$ ; $\leq 7.00$ |             |             |             |             |             | БДС EN 10305-5<br>item 8.5.<br>table 6;7 |
| Steel Grade For state of delivery +CR2                                                                                                                                                                              |            | <b>E190</b>                                                                                                                            | <b>E220</b> | <b>E260</b> | <b>E320</b> | <b>E370</b> | <b>E420</b> | БДС EN 10305-5<br>table 5                |
| Minimum elongation after destruction <b>A</b> , %                                                                                                                                                                   |            | $\geq 26$                                                                                                                              | $\geq 23$   | $\geq 21$   | $\geq 19$   | $\geq 15$   | $\geq 12$   |                                          |
| Tensile strength <b>Rm</b> , MPa                                                                                                                                                                                    |            | $\geq 270$                                                                                                                             | $\geq 310$  | $\geq 340$  | $\geq 410$  | $\geq 450$  | $\geq 490$  |                                          |
| Yield limit <b>ReH</b> , MPa                                                                                                                                                                                        |            | $\geq 190$                                                                                                                             | $\geq 220$  | $\geq 260$  | $\geq 320$  | $\geq 370$  | $\geq 420$  |                                          |
| Weldability (Chemical composition – max %)                                                                                                                                                                          | C          | 0,10                                                                                                                                   | 0,14        | 0,16        | 0,20        | 0,21        | 0,16        | Spectral analysis                        |
|                                                                                                                                                                                                                     | Si         | 0,35                                                                                                                                   | 0,35        | 0,35        | 0,35        | 0,55        | 0,50        |                                          |
|                                                                                                                                                                                                                     | Mn         | 0,70                                                                                                                                   | 0,70        | 1,20        | 1,40        | 1,60        | 1,70        |                                          |
|                                                                                                                                                                                                                     | P          | 0,025                                                                                                                                  | 0,025       | 0,025       | 0,025       | 0,025       | 0,025       |                                          |
|                                                                                                                                                                                                                     | S          | 0,025                                                                                                                                  | 0,025       | 0,025       | 0,025       | 0,025       | 0,025       |                                          |
|                                                                                                                                                                                                                     | min Al sum | 0,015                                                                                                                                  | 0,015       | 0,015       | 0,015       | 0,020       | 0,020       |                                          |
| CEV                                                                                                                                                                                                                 |            | NPD                                                                                                                                    | NPD         | NPD         | NPD         | NPD         | NPD         |                                          |
| Steel Grade according to БДС EN 10305-5 item 7.                                                                                                                                                                     |            | Declared by the manufacturer of starting material                                                                                      |             |             |             |             |             | БДС EN 10025-2<br>table 2;6              |

**8.** The characteristics of the construction product mentioned in item 1 have performance corresponding to that declared according to item 7.

This declaration on the characteristics of a construction product is issued under the sole responsibility of the manufacturer according to item 4 or of the authorized representative according to item 5.

Signed for and on behalf of the manufacturer by  
Nayden Dechev, Director HUS Ltd. Branch Lom  
In Lom, 21.January.2025 r.

Signature:



A04



A03 № 3130047381 / 2025.01.21

page 1 of 1

A01

**HUS LTD**1 Industrialna Str.  
3600 Lom, Bulgaria

A02 Inspection certificate EN 10204 / 3.1

B01

**Cold formed welded structural hollow sections of non-alloy and fine grain steels БДС EN 10219-2**

A07

Order №

A06

Customer.....METALICA ZUEV SRL

A10

Invoice № 3130047381

B02

**EN 10219-1 S235JRH**

B09

**CFRHS**

option 1.1 ; 1.4

B09

B11

B13

**13 315 kg.**

|     |                 |     |           |     |  |     |          |     |                 |     |           |
|-----|-----------------|-----|-----------|-----|--|-----|----------|-----|-----------------|-----|-----------|
| B09 | CFRHS 100x40x3  | B10 | 6000 mm.  | B11 |  | B13 | 1362 kg. | B06 | 000393771198910 | B07 | 730229403 |
| B09 | CFRHS 100x40x3  | B10 | 6000 mm.  | B11 |  | B13 | 1414 kg. | B06 | 000393700698910 | B07 | 730229403 |
| B09 | CFRHS 100x40x3  | B10 | 6000 mm.  | B11 |  | B13 | 1396 kg. | B06 | 000393772998910 | B07 | 730229403 |
| B09 | CFRHS 120x60x3  | B10 | 12000 mm. | B11 |  | B13 | 2144 kg. | B06 | 000415558498930 | B07 | Y916268   |
| B09 | CFRHS 120x60x3  | B10 | 12000 mm. | B11 |  | B13 | 2154 kg. | B06 | 000415558698930 | B07 | Y916268   |
| B09 | CFRHS 120x120x3 | B10 | 6000 mm.  | B11 |  | B13 | 984 kg.  | B06 | 000392703698910 | B07 | 730220548 |
| B09 | CFRHS 120x120x3 | B10 | 6000 mm.  | B11 |  | B13 | 984 kg.  | B06 | 000392703198910 | B07 | 730220548 |
| B09 | CFRHS 120x120x3 | B10 | 6000 mm.  | B11 |  | B13 | 969 kg.  | B06 | 000392701798910 | B07 | 730220548 |
| B09 | CFRHS 120x120x3 | B10 | 6000 mm.  | B11 |  | B13 | 954 kg.  | B06 | 000402716498910 | B07 | 730220548 |
| B09 | CFRHS 120x120x3 | B10 | 6000 mm.  | B11 |  | B13 | 954 kg.  | B06 | 000402715898910 | B07 | 730220548 |

C71 Chemical composition %

|                 |           | C71 Chemical composition % |      |    |    |   |       |    |    |      |    |    |       |    |   |       |      |
|-----------------|-----------|----------------------------|------|----|----|---|-------|----|----|------|----|----|-------|----|---|-------|------|
| B06             | B07       |                            | C    | Mn | Si | P | S     | Al | Cu | Cr   | Ni | Mo | Ti    | Nb | N | CEV 2 |      |
| Bundle №        | Heat №    |                            | x100 |    |    |   | x1000 |    |    | x100 |    |    | x1000 |    |   |       | x100 |
| 000393771198910 | 730229403 |                            | 16   | 63 | 1  |   | 9     | 6  |    |      |    |    |       |    | 8 | 27    |      |
| 000393700698910 | 730229403 |                            | 16   | 63 | 1  |   | 9     | 6  |    |      |    |    |       |    | 8 | 27    |      |
| 000393772998910 | 730229403 |                            | 16   | 63 | 1  |   | 9     | 6  |    |      |    |    |       |    | 8 | 27    |      |
| 000415558498930 | Y916268   |                            | 5    | 22 | 1  |   | 10    | 13 |    |      |    |    |       |    | 5 | 16    |      |
| 000415558698930 | Y916268   |                            | 5    | 22 | 1  |   | 10    | 13 |    |      |    |    |       |    | 5 | 16    |      |
| 000392703698910 | 730220548 |                            | 6    | 27 | 1  |   | 9     | 7  |    |      |    |    |       |    | 3 | 13    |      |
| 000392703198910 | 730220548 |                            | 6    | 27 | 1  |   | 9     | 7  |    |      |    |    |       |    | 3 | 13    |      |
| 000392701798910 | 730220548 |                            | 6    | 27 | 1  |   | 9     | 7  |    |      |    |    |       |    | 3 | 13    |      |
| 000402716498910 | 730220548 |                            | 6    | 27 | 1  |   | 9     | 7  |    |      |    |    |       |    | 3 | 13    |      |
| 000402715898910 | 730220548 |                            | 6    | 27 | 1  |   | 9     | 7  |    |      |    |    |       |    | 3 | 13    |      |

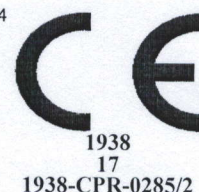
| B07       | C51 Mechanical properties |         |            |           |        |
|-----------|---------------------------|---------|------------|-----------|--------|
| Heat №    | C00                       |         | C11        | C12       | C13    |
|           | Certificate №             | Test №  | ReH<br>MPa | Rm<br>MPa | A<br>% |
| 730229403 | 220350                    | 7702069 | 329        | 462       | 30     |
| 730229403 | 220350                    | 7702069 | 329        | 462       | 30     |
| 730229403 | 220350                    | 7702069 | 329        | 462       | 30     |
| Y916268   | 382050                    | 818391  | 260        | 390       | 33     |
| Y916268   | 382050                    | 818391  | 260        | 390       | 33     |
| 730220548 | 224540                    | 8104003 | 297        | 386       | 40     |
| 730220548 | 224540                    | 8104003 | 297        | 386       | 40     |
| 730220548 | 224540                    | 8104003 | 297        | 386       | 40     |
| 730220548 | 224540                    | 8104003 | 297        | 386       | 40     |
| 730220548 | 224540                    | 8104003 | 297        | 386       | 40     |

D02 Non-destructive testing - passed.

Z02 Z03 Director Branch Lom  
N.Dechev  
Date 21.01.2025  
www.husltd.com Seal HUS LTD.



Z04



A05 AK

D01 The test has been performed on the provided products and the results are satisfactory.

Z01 The producer declares that the product is according to the customer's order.

Z05 Without any post heat treatment; with shape, dimensions and tolerances according БДС EN 10219-2; performance characteristics according appendix ZA.1 of the product standart. Function - for steel structures and combined steel and reinforced concrete structures.

Z06 Claims are allowed within 14 days from product receipt. In order to consider a claim, the customer must provide a quality inspection control document and a marking on the claimed goods. Claims associated with unloading and storage of the goods will not be accepted.

Z07 Declaration of performance №3130047381HUS CFRHS S235JRH /2025

# Declaration of performance

According to art. 4 (1) item 1 of Ordinance №ПД-02-20-01 of 05 February 2015,  
Annex III Regulation ( EU ) № 305/2011  
№3130047381HUS CFRHS S235JRH /2025

1. **Unique identification code of the product type:** CFRHS – S235JRH
2. **Intended use/es:** Cold formed welded structural hollow section of non-alloy and fine grain steel, without subsequent heat treatment, shape dimensions and tolerances in accordance with БДС EN 10219-2.  
Applied for load-bearing structural construction works (construction works covers building and civil engineering works).
3. **Manufacturer:** HUS Ltd  
4027 Plovdiv, Bulgaria, 64A Plovdiv Sever Str.  
HUS Ltd Manufacturing plant  
3600 Lon, Bulgaria, 1 Industrialna Str.  
[www.husltd.com](http://www.husltd.com)
4. **Authorized representative:** Not relevant
5. **System/s or AVCP:** System 2+
- 6 a. **Harmonised standard:** EN 10219-1  
**Notified body** Institute of Mechanics-BAS, A person for assessment of conformity of construction products license № CPR 02-NB 1938/24.02.2014 of Ministry of Regional Development and Public Works .  
Identification number 1938 from EC register.
- 6 b. **European Assessment Document:** Nor relevant ( see 6a )  
**European Technical Assessment (ETA):**

## 7. Declared performances:

| Essential characteristics                                    | Performance                       | Harmonised technical specification                |
|--------------------------------------------------------------|-----------------------------------|---------------------------------------------------|
| Tolerance on dimensions and shape                            | Correspond                        | БДС EN 10219-2 item 6.                            |
| Material grade – Steel <b>S235JRH</b> , number <b>1.0039</b> |                                   |                                                   |
| Elongation <b>A<sub>d</sub></b> , %                          | Specified thickness, mm           | БДС EN 10219-1 item 6.7.1 table A.3               |
|                                                              | ≤3      >3 ≤10                    |                                                   |
|                                                              | >17 <sup>d</sup> >24 <sup>1</sup> |                                                   |
| Tensile strength <b>R<sub>m</sub></b> , MPa                  | Specified thickness, mm           | БДС EN 10219-1 item 6.7.1 table A.3               |
|                                                              | ≤3      >3 ≤10                    |                                                   |
|                                                              | 360 - 510      360 - 510          |                                                   |
| Yield strength <b>R<sub>eH</sub></b> , MPa                   | Specified thickness, mm           | БДС EN 10219-1 item 6.7.1 table A.3               |
|                                                              | ≤3      >3 ≤10                    |                                                   |
|                                                              | ≥ 235      ≥ 235                  |                                                   |
| Weld ability (Chemical composition)                          | CEV ≤0,35                         | БДС EN 10219-1 item 6.6.table A.2 and item 6.8.1. |
| Impact strength, J                                           | Specified thickness, mm           | БДС EN 10219-1 item 6.7.2 table A.3               |
|                                                              | <6      ≥6 ≤10                    |                                                   |
|                                                              | NPD      27                       |                                                   |
| Durability                                                   | NPD                               | БДС EN 10219-1 item 6.8.2, table ZA.1             |

<sup>d</sup> For thicknesses < 3 mm see 9.2.2

<sup>1</sup> For thicknesses > 3 mm and section sizes (B+H)/2T <12,5 the minimum elongation is reduced by 2.

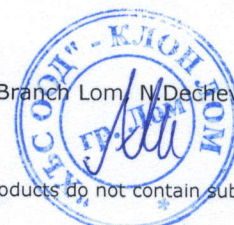
## 8. Appropriate Technical Documentation and/or Specific Technical Documentation: БДС EN 10219-1/2.

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation EU 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Lom 21.January.2025 r.

Director Branch Lom N. Dechev



## Information about the environment and safety (REACH)

Products are article within the meaning of Article 3 of the EU regulation № 1907/2006 REACH. The products do not contain substances which can be released from the device under normal and foreseeable conditions of use.