

A04



A03 № 3130047381 / 2025.01.21

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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 |
| 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/ determination method
Geometric dimensions and tolerances *: 1) thickness (mm), 2) cross-section: 2.1) square – side (mm) 2.2) rectangular – width, height (mm) 3) length (m) * tolerances according to the tube sizes.		1) ≥ 1.0 ; ≤ 4.0 2) 2.1) ≥ 15.0 ; ≤ 50.0 , 2.2) ≥ 10.0 ; ≤ 50.0 3) ≥ 1.20 ; ≤ 7.00						БДС EN 10305-5 item 8.5. table 6;7
Steel Grade For state of delivery +CR2		E190	E220	E260	E320	E370	E420	БДС EN 10305-5 table 5
Minimum elongation after destruction A , %		≥ 26	≥ 23	≥ 21	≥ 19	≥ 15	≥ 12	
Tensile strength Rm , MPa		≥ 270	≥ 310	≥ 340	≥ 410	≥ 450	≥ 490	
Yield limit ReH , MPa		≥ 190	≥ 220	≥ 260	≥ 320	≥ 370	≥ 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 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:



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A01

HUS LTD1 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

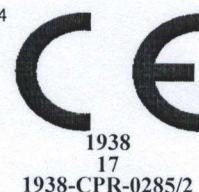
B07	C51 Mechanical properties				
Heat №	C00		C11	C12	C13
	Certificate №	Test №	ReH MPa	Rm MPa	A %
730229403	220350	7702069	329	462	30
730229403	220350	7702069	329	462	30
730229403	220350	7702069	329	462	30
Y916268	382050	818391	260	390	33
Y916268	382050	818391	260	390	33
730220548	224540	8104003	297	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
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 S235JRH , number 1.0039		
Elongation A_d , %	Specified thickness, mm	БДС EN 10219-1 item 6.7.1 table A.3
	≤3 >3 ≤10	
	>17 ^d >24 ¹	
Tensile strength R_m , MPa	Specified thickness, mm	БДС EN 10219-1 item 6.7.1 table A.3
	≤3 >3 ≤10	
	360 - 510 360 - 510	
Yield strength R_{eH} , 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

^d For thicknesses < 3 mm see 9.2.2

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

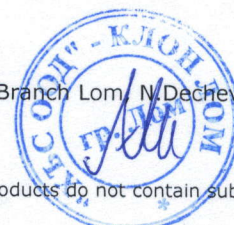
8. Appropriate Technical Documentation and/or Specific Technical Documentation: БДС EN 10219-1/2.

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.