

A04



A01 HUS LTD

1 Industrialna Str.
3600 Lom, Bulgaria

A03 № 3130032203/ 04.04.2023

A02 Inspection certificate EN 10204 / 3.1 A05 HUS LTD

B01 Cold formed welded structural hollow sections of non-alloy and fine grain steels according EN 10219-2:2019

A08	Order №
A06	Customer SZATMARI KFT
A07	Invoice № 3130032203

B02	S235JRH	B10	length mm
B09	CFRHS		1.1 ; 1.4
B09	CFCHS		1.1 ; 1.4

TEST VERSION

B07		B08	4,302 m	B12		B13	
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B06 Bundle №	B08	B09	B10	B13	B07	Chemical composition %															B07	Mechanical properties							
					Heat №	C	Mn	Si	P	S	Al	Cu	Cr	Ni	Mo	Ti	V	Nb	N	CEV ₂	C00	C11	C12	C13	C14	C41	C43	C4 ₄	C50
						x 100			x 1000			x 100			x 1000				x 100		Test №	ReH	Rm	A%	ReH	Impact	J		Certificate
																						MPa	MPa		/Rm	J/T-20°C	Average		№
000285593498930	384.00 m	CFRHS 50x50x4.00	6000 mm		122111	6	33	1	18	24									3	13	43644-1	260	360	37					621601
000285581698930	384.00 m	CFRHS 50x50x4.00	6000 mm		122111	6	33	1	18	24									3	13	43644-5	260	360	37					621598
000285458798930	384.00 m	CFRHS 50x50x4.00	6000 mm		122565	14	44	2	17	25									9	22	413278-8	279	402	38					535939
000285490798930	384.00 m	CFRHS 50x50x4.00	6000 mm		122096	9	34	2	14	25									5	15	43637-6	260	360	36					621571
000285491998930	384.00 m	CFRHS 50x50x4.00	6000 mm		122096	9	34	2	14	25									5	15	43637-6	260	360	36					621571
000285511598930	384.00 m	CFRHS 50x50x4.00	6000 mm		122096	9	34	2	14	25									5	15	43637-6	260	360	36					621571
000285426098930	384.00 m	CFRHS 50x50x4.00	6000 mm		122565	14	44	2	17	25									9	22	413310-2	294	402	37					536023
000285423098930	384.00 m	CFRHS 50x50x4.00	6000 mm		122564-9	15	46	2	20	25									8	24	413276-3	265	412	31					535923
000282892298910	120.00 m	CFRHS 100x80x3.00	6000 mm		122514	8	41	1	25	25									7	17	413161-12	265	380	31					535456
100007263898910	144.00 m	CFRHS 120x60x3.00	6000 mm		122500-9	8	37	1	25	25									6	16	413108-7	275	390	31					535288
000279784098910	90.00 m	CFRHS 120x80x3.00	6000 mm		203920	7	24	1	9	11									5	19	C3510214	330	415	25					178365
000279096298920	54.00 m	CFRHS 150x150x5.00	6000 mm		1022138-9	10	41	2	25	21									8	18	44597-13	265	375	37					509518
000272745698910	48.00 m	CFRHS 200x100x5.00	6000 mm		293500	6	35	1	11	9									4	19	C3202033	330	446	27					174877

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B01 Cold formed welded structural hollow sections of non-alloy and fine grain steels according EN 10219-2:2019

000272745498910	48.00 m	CFRHS 200x100x5.00	6000 mm		293500	6	35	1	11	9							4	19	C3202033	330	446	27					174877
000280463698910	576.00 m	CFRHS 40x30x2.00	6000 mm		730220669	8	29	2	11	8							3	14	8214086	330	433	30					0232516
000281036098920	150.00 m	CFRHS 80x80x3.00	6000 mm		203727	10	96	3	9	6							4	22	C3516011	330	438	26					178366

D02 Non-destructive testing - passed.

Z02



Z03 Director Branch Lom

N.Dechev

4/4/2023 12:00:00 AM

Z04


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A05 TT

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 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 № 3130032203 HUS CFRHS S235JRH / 2023

1938

17

1938-CPR-0285/2

INSTRUCTIONS FOR USE

COLD FORMED STRUCTURAL HOLLOW SECTIONS OF NON-ALLOY AND FINE GRAIN STEELS

1. Application

The sections are suited for metal and reinforced concrete constructions.

2. Instructions for design and use

The following should be noted when designing, choosing the properties and the application of the section in any metal or reinforced concrete construction:

- Size of the section
- Steel grade / chemical composition and physical properties/,
- Weight of one linear meter.

3. Packing

The sections are arranged in bundles fully lined with a maximum weight of 4 000 kg. The bundle is covered on 7 places with metal packaging tape.

4. Marking

Each package bears a label with barcode and information about the size and number of sections in the package, the total length of the packet.

5. Transportation and unloading

Recommended way of transportation - covered transportation vehicles with general purpose which prevent direct climate impact.

An inspection is to be made during loading/unloading stage to confirm that packing and packing strips are present and unharmed. When these are torn and missing any loading/unloading and transportation is to be resumed only after repairing the same.

6. Storage

Store in indoor dry storage areas.

7. Operational Safety

The company's instructions and regulations on safety are to be observed when working with hollow sections. Loading and unloading can be carried out by qualified persons with faulty equipment and personal protective equipment.

8. Waste and environmental protection

The non-utilized remains as a result of the intended use of the hollow sections are to be stored and used for auxiliary work or to be submitted for scrap.

The raw material – a metal sheet and the produced cold formed structural hollow sections do not contain any substances harmful to human health, are non-toxic and do not pollute the environment.

04.04.2023

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№ 3130032203 HUS CFCHS S235JRH /2022

1. Unique identification code of the product type: CFCHS – S235JRH
diameter up to 165.1 mm., thickness up to 5.00 mm.
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 10219-2:2006. 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 10219-1:2006
Notified body: Институт по механика-БАН, A person for assessment of conformity of construction products license № CPR 02-NB 1938/24.02.2014 на МРРБ. 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 10219-2:2006 item 6.
Material grade – Steel S235JRH , number 1.0039		
Elongation A ^d , %	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	>17 ^d >24 ¹	
Tensile strength R _m , MPa	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	360 - 510 360 - 510	
Yield strength R _{eH} , MPa	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	≥ 235 ≥ 235	
Weld ability (Chemical composition)	CEV ≤0,35	БДС EN 10219-1:2006 item 6.6.table A.2 and item 6.8.1.
Impact strength, J	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.2 table A.3
	<6 ≥6 ≤10	
	NPD 27	
Durability	NPD	БДС EN 10219-1:2006 item 6.8.2, table ZA.1

d For thicknesses < 3 mm see 9.2.2

1 For thicknesses > 3 mm and section sizes D/T <15 the minimum elongation is reduced by 2.

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

Standart EN 10219-1/2:2006

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:

Director Branch Lom, N.Dechev

Lom, 04.04.2023

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.

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 10219-2:2006. 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.
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- 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 10219-2:2006 item 6.
Material grade – Steel S235JRH , number 1.0039		
Elongation A^d , %	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	>17 ^d >24 ¹	
Tensile strength R_m , MPa	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	360 - 510 360 - 510	
Yield strength R_{eH} , MPa	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.1 table A.3
	≤3 >3 ≤10	
	≥ 235 ≥ 235	
Weld ability (Chemical composition)	CEV ≤0,35	БДС EN 10219-1:2006 item 6.6.table A.2 and item 6.8.1.
Impact strength, J	Specified thickness , mm	БДС EN 10219-1:2006 item 6.7.2 table A.3
	<6 ≥6 ≤10	
	NPD 27	
Durability	NPD	БДС EN 10219-1:2006 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:

Standart EN 10219-1/2:2006

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.

Lom, 04.04.2023

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