

Declaration of performance №001/2017

1. **Unique identification code of the product type:** CFCHS – S235JRH
diameter up to 219 mm., thickness up to 8.00 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 (see 3)
5. **System/s or AVCP:** System 2+
- 6 a. **Harmonised standard:** EN 10219-1/2:2006
- Notified body** Институт по механика-БАН, A person for assessment of conformity of construction products license № CPR 02-NB 1938/24.02.2014 на МППБ. Identification number 1938 from EC register.
- 6 b. **European Assessment Document: European Technical Assessment (ETA):** Nor relevant (see 6a)
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 1.0038			
Elongation A ^d , %	Specified thickness, mm	БДС EN 10219-1:2006 Item 6.7.1 table A.3	
	≤3		>3 ≤8
	>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 ≤8
	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 ≤8
	≥ 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 tem 6.7.2 table A.3	
	<6		≥6 ≤8
	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.

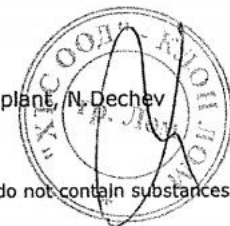
8. Appropriate Technical Documentation and/or Specific Technical Documentation: Standart EN 10219-1/2:2006

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 Manufacturing plant, N. Dechev

Lom, December 28, 2017


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.

* Only Институт по механика-БАН can provide a copy of the Certificate of conformity of the factory production control 1938-CPR-0128.

Declaration of performance №002/2017

- 1. Unique identification code of the product type:** CFRHS – S235JRH
size up to 150x150 / 100 x 200 mm.,
Thickness up to 8.00 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 (see 3)
- 5. System/s or AVCP:** System 2+
- 6 a. Harmonised standard:** EN 10219-1/2:2006
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: European Technical Assessment (ETA):** Not relevant (see 6a)
- 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 1.0038		
Elongation A ^d , %	Specified thickness , mm	
	≤3	>3 ≤8
	>17 ^d	>24 ¹
Tensile strength R _m , MPa	Specified thickness , mm	
	≤3	>3 ≤8
	360 - 510	360 - 510
Yield strength R _{eH} , MPa	Specified thickness , mm	
	≤3	>3 ≤8
	≥ 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	
	<6	≥6 ≤8
	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.

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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.
