

DECLARATION OF PERFORMANCE

No. DoP/EN10219/19

1. Identification code of the product-type:

Steel hollow sections, cold formed.

CFSHS – EN 10219

2. Type, batch or serial number:

Section shape	Dimensions	Steel name
Circular – CHS (RE)	Diameter 20 to 508 mm Thickness 1,5 to 12,5 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H
Square – RHS (CU)	From 15x15 to 300x300 mm Thickness 1,5 to 12,5 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H
Rectangular – RHS (RC)	From 20x10 to 400x200 mm Thickness 1,5 to 12,5 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H

3. Intended use:

To be used in metal structures or in composite metal and concrete structures.

4. Name and contact address of the manufacturer:

ALESSIO TUBI S.p.A.
S.S. 20 Km. 4
10040 La Loggia (TO)
Tel. 39 011 9659111
Fax 39 011 9628875

5. Name and contact address of the authorized representative:

Not applicable

6. System of assessment and verification of constancy of performance:

System 2+

7. Notified body:

Italian Institute of Quality Assurance (IGQ) No. 1608, certified the factory production control on the basis of initial inspection of factory and factory production control system and of continuous surveillance, assessment and approval of factory production control system, in accordance with the attestation of conformity system 2+, and issued the certificate of conformity (FPC) No. 1608 CPD P062 on 16/04/2008.

8. Technical assessment body:

Not applicable

9. Declared performance:

Essential characteristics	Performance				Harmonized technical specification
Tolerances on dimensions and shapes	Meet EN 10219-2:2006, clause 6				EN 10219-1:2006
Elongation	Steel	Minimum elongation (A)			
	S235JRH	24 % (a)			
	S275J0H	20 % (b)			
	S275J2H				
	S355J0H				
	S355J2H				
(a) For thicknesses > 3mm and section sizes D/T < 15 (circular) and (B+H)/2T < 12,5 (square and rectangular), the minimum elongation is reduced by 2. For thicknesses ≤ 3mm, the minimum value for elongation is 17%. (b) For section sizes D/T < 15 (circular) and (B+H)/2T < 12,5 (square and rectangular), the minimum elongation is reduced by 2.					
Tensile strength and yield strength	Steel	Minimum yield strength (R _{eH})	Tensile strength (R _m)		
		Thickness ≤ 16mm	Thickness < 3mm	Thickness ≥ 3mm	
	S235JRH	235 MPa	360-510 MPa	360-510 MPa	
	S275J0H	275 MPa	430-580 MPa	410-560 MPa	
	S275J2H				
	S355J0H	355 MPa	510-680 MPa	470-630 MPa	
S355J2H					
Impact strength	Steel	Minimum impact energy KV			
		Test temperature			
		-20 °C	0 °C	20 °C	
	S235JRH (a)	-	-	27 J	
	S275J0H (a)	-	27 J	-	
	S275J2H	27 J	-	-	
	S355J0H (a)	-	27 J	-	
	S355J2H	27 J	-	-	
Impact tests are not required for specified thicknesses < 6mm. (a) The impact properties are verified only when Option 1.3 is specified.					
Weldability	Meet clause 6.6, 6.8.1 and table A.2.				
Durability	Meet clause 6.8.2				

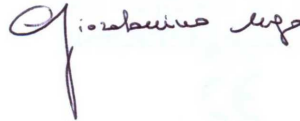
10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

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:

Name and function

Ugo Giordanino (Quality Manager)



La Loggia (To) 01/07/2013