

NR.	0103/009	Rel. 0	
Identification code of the product-type	Welded tube made of non-alloy structural steel S235JRH in accordance with EN10210:2006.		
Identification of the construction product	In accordance with the information included in the identification label with barcode and/or bundle number and in the inspection certificate.		
Intended use of the construction product	Hot finished hollow sections of non-alloy and fine grain for structural uses of circular, square, rectangular or elliptical forms.		
Manufacturer (registered office)	Marcegaglia S.p.A. Via Bresciani, 16 – 46040 Gazoldo degli Ippoliti (MN) – Italia		
Production plant	Casalmaggiore s.s.420 Sabbionetana – 26041 Casalmaggiore (CR) - Italia		
System of assessment and verification of constancy of performance of the construction product	2+		
Name and identification number of the notified body	RINA Service S.p.A. – Via Corsica, 12 – 16128 Genova - Italia 0474		
 starting inspection of the production plant surveillance, evaluation and continuou 			
Essential characteristics	Performance	Harmonised technical specification	
Teleranaca an dimensiona and abana	in compliance with table 2	EN10210-2:2006	
Tolerances on dimensions and shape		EN10210-2.2000	
		EIN10210-2.2000	
Elongation	-	EN10210-2.2006	
Elongation Tensile strength	in compliance with table 1		
Elongation Tensile strength Yield strength Impact strength	in compliance with table 1	EN10210-2.2006 EN10210-1:2006	
Tolerances on dimensions and shape Elongation Tensile strength Yield strength Impact strength Weldability (CEV)	in compliance with table 1		
Elongation Tensile strength Yield strength Impact strength Weldability (CEV) Durability	in compliance with table 1 0.37% max N.P.D.	EN10210-1:2006	
Elongation Tensile strength Yield strength Impact strength Weldability (CEV) Durability This declaration of performance is issued under previous point. Signed for and on behalf of Marcegaglia S.p.A Roberto Ing. Ferrari	in compliance with table 1 0.37% max N.P.D. er the sole responsibility of the n	EN10210-1:2006	
Elongation Tensile strength Yield strength Impact strength	in compliance with table 1 0.37% max N.P.D. er the sole responsibility of the n	EN10210-1:2006	



Table 1 – Mechanical properties							
Steel	grade	Minimum yield strength R _{eH}	Tensile s	trength R _m	Minimum elongation A	Minimum imp	act energy
Steel name Steel number		[MPa]	[MPa]		[%]	KV in J ^(d)	
		Specified thickness in mm			Test	Min. impact	
		≤ 16	≤ 3	> 3 ≤ 100	≤ 40	temperature	energy
S235JRH ^(c)	1.0039	235	360÷510	360÷510	26	20°	27
 a. Longitudinal values. Transverse values are 2% lower. b. For thicknesses < 3 mm, see 9.2.2 of EN10210-1:2006. 							

The impact properties are verified only when Option 1.3 is specified. For impact properties for reduced section test pieces see 6.6.2. c.

d.

Table 2 – Tolerances on shape, straightness and mass				
Outside dimensions (D,	Circular hollow sections	Square and rectangular hollow sections	Elliptical hollow sections	
B e H)	\pm 1% with a minimum of \pm 0,5 mm and a maximum of \pm 10 mm	$\pm 1\%^{1)}$ with a minimum of $\pm 0,5$ mm		
Thickness (T)		-10% ²⁾		
Out of roundness (O)	2% for hollow sections having a diameter to thickness ratio not exceeding 100 ³⁾		-	
Concavity/Convexity (x ₁ , x ₂) ⁽⁴⁾	-	1%	-	
Squareness of side (θ)	-	90° ± 1°	-	
External corner profile $(C_1, C_2 \circ R)^{5)}$	-	3T maximum at each corner	-	
Twist (V)	-	2 mm ¹⁾ plus 0,5 mm/m length ¹⁾	•	
Straightness (e)	0,2 ¹⁾ % of total length and 3 mm over any 1 m length			
Mass (M)	± 6 % on individual delivered lengths			

	Exact longth	2000 mm ≤ L ≤ 6000 mm	⇒ 0; + 10 mm	
Tolerances on length ⁽³⁾	Exact length	> 6000 mm ⁷⁾	⇒ 0; + 15 mm	
	Standard length	4000 mm ≤ L ≤ 16000 mm	\Rightarrow +/- 500 mm ⁶⁾	
1. For elliptical hollow sections of sizes H<250 mm the permitted tolerance is twice the value given in this table.				

2. 3. The positive deviation is limited by the tolerance on mass.

Where the diameter to thickness ratio exceeds 100, the tolerance on out of roundness shall be agreed.

The tolerance on convexity and concavity is independent of the tolerance on outside dimensions. The sides need not to be tangential to the corner arcs. Option 2.1 (EN10210-2:2006) the tolerance on approximate length is 0; +150 mm. 4.

5. 6.

7 Common lengths available are 6m and 12m.