

DECLARATION OF PERFORMANCE				
NR.	0103/010 Rel			
Identification code of the product-type	Welded tube made of non-alloy structural steel S275J2H in accordance with EN10210:2006.			
In accordance with the information included in the identification of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction product label with barcode and/or bundle number and in the inspection of the construction of the con				
Intended use of the construction product Hot finished hollow sections of non-alloy and fine grain structural uses of circular, square, rectangular or elliptical form				
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			

Issued the certificate of conformity of the factory production control on the basis of the following elements:

- starting inspection of the production plant and of the factory production control.
- surveillance, evaluation and continuous audits of the factory production control.

DECLARED PERFORMANCE

Essential characteristics	Performance	Harmonised technical specification	
Tolerances on dimensions and shape	in compliance with table 2	EN10210-2:2006	
Elongation			
Tensile strength	in compliance with table 1		
Yield strength	III compliance with table 1	EN10210-1:2006	
Impact strength		EN 102 10-1:2006	
Weldability (CEV)	0,41% max		
Durability	N.P.D.		

This declaration of performance is issued under the sole responsibility of the manufacturer identified in the previous point.

Signed for and on behalf of Marcegaglia S.p.A. by:

Roberto Ing. Ferrari Casalmaggiore Plant Manager

Casalmaggiore 01/07/2013

This declaration of performance is valid only in presence of the material identification label and the waybill or the inspection certificate issued after delivery



Table 1 – Mechanical properties							
Steel	grade	Minimum yield strength R _{eH}	Tensile st	rength R _m	Minimum elongation A	Minimum impa	act energy
Steel name Steel number	[MPa]	[MPa]		[%]	KV in J ^(c)		
Steel name Steel number		Specified thickness in mm			Test	Min. impact	
		≤ 16	≤ 3	> 3 ≤ 100	≤ 40	temperature	energy
S275J2H	1.0138	275	430÷580	410÷560	23	-20°	27

- Longitudinal values. Transverse values are 2% lower.
- b. For thicknesses < 3 mm, see 9.2.2 of EN10210-1:2006.
 - For impact properties for reduced section test pieces see 6.6.2

Table 2 – Tolerances on shape, straightness and mass				
Outside dimensions (D, B e H)	Circular hollow sections Square and rectangular hollow sections		Elliptical hollow sections	
	\pm 1% with a minimum of \pm 0,5 mm and a maximum of \pm 10 mm	± 1% ¹⁾ with a minimum of ± 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 o R) ⁵⁾	-	3T maximum at each corner	-	
Twist (V)	-	2 mm ¹⁾ plus 0,5 mm/m length ¹⁾		
Straightness (e)	0,211% of total length and 3 mm over any 1 m length			
Mass (M)	± 6 % on individual delivered lengths			

Tolerances on length ^(e)	Exact length	2000 mm ≤ L ≤ 6000 mm	⇒ 0; + 10 mm
		> 6000 mm ⁷⁾	⇒ 0; + 15 mm
	Standard length	4000 mm ≤ L ≤ 16000 mm	\Rightarrow +/- 500 mm ⁶⁾

- For elliptical hollow sections of sizes H<250 mm the permitted tolerance is twice the value given in this table.
- 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.
- 5. The sides need not to be tangential to the corner arcs.
- 6. 7. Option 2.1 (EN10210-2:2006) the tolerance on approximate length is 0; +150 mm.
- Common lengths available are 6m and 12m.