

## Declaration of Performance

**N° 0103/001 rel.2**

Identification code of the product-type	Welded tube made of non-alloy structural steel S235JRH/1.0039 in accordance with EN10219:2006.
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	Cold formed welded structural hollow sections of circular, square, or rectangular shape formed cold without subsequent heat treatment.
Manufacturer (registered office)	<b>Marcegaglia Carbon Steel</b> Via Bresciani, 16 – 46040 Gazoldo degli Ippoliti (MN) – Italy
Production plant	<b>Casalmaggiore</b> s.s.420 Sabbionetana – 26041 Casalmaggiore (CR) - Italy
System of assessment and verification of constancy of performance of the construction product	<b>2+</b>
Name and identification number the notified body	RINA Service S.p.A. – Via Corsica, 12 – 16128 Genova - Italy <b>0474</b>

Notified factory production control certification body performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and issued the certificate of conformity of the factory production control.

### Declared performance

Essential Characteristic		Performance		Harmonised Technical specification	
<b>Tolerances on dimensions and shape</b>	Round, square and rectangular section	In accordance with EN10219:2006		EN10219-1:2006	
<b>Durability (chemical composition)</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤	-		max (%)
	-	16	C: 0,17 Si: - Mn: 1,40		P: 0,040 S: 0,040 N: -
<b>Yield strength</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤	min (MPa)		max (MPa)
	-	16	235		-
<b>Tensile strength</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤	min (MPa)		max (MPa)
	-	3	360		510
	3	16	360		510
<b>Elongation (b,c)</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤	min (%)		max (%)
	-	16	24	-	
<b>Impact strength (a,d)</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤	min (J)		
	-	16	27 at 20°C	-	
<b>Weldability CEV</b>	<b>Nominal thickness (mm)</b>		<b>Values</b>		
	>	≤		max (%)	
	-	16	-	0,35	
<p>a. Impact properties are verified only when option 1.3 is specified.</p> <p>b. See derogations here below:  <input type="checkbox"/> For thicknesses &gt; 3 mm and section sizes D/T &lt; 15 (round) e (B+H)/2T &lt; 12,5 (square and rectangular) the minimum elongation is reduced by 2.  <input type="checkbox"/> For thicknesses ≤ 3,0 mm the minimum value for elongation is 17%</p> <p>c. For thicknesses &lt; 3,0 mm the percentage elongation may be reported for a gauge length of 80 mm or 50 mm</p> <p>d. Impact test, when applicable or required, shall be carried out in accordance with EN10219-1. Impact test is not required for specified thicknesses &lt; 6 mm.</p>					

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) n.305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of Marcegaglia Carbon Steel by:

*Roberto Ing. Ferrari*  
Casalmaggiore Plant Manager  
Casalmaggiore 02/11/2015

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

