

Declaration of Performance

N° 0103/008 rel.2

Identification code of the product-type	Welded tube made of non-alloy structural steel S460MH/1.8849 in accordance with EN10219-1:2006.
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)	Marcegaglia Carbon Steel Via Bresciani, 16 – 46040 Gazoldo degli Ippoliti (MN) – Italy
Production plant	Casalmaggiore s.s.420 Sabbionetana – 26041 Casalmaggiore (CR) – Italy
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 - Italy 0474

The notified body issued the certificate of conformity of the factory production control on the basis of the following elements:

- initial inspection of the production plant and of the factory production control;
- surveillance, evaluation and regular audits of the factory production control.

Declared performance

Essential Characteristic		Performance		Harmonised Technical specification	
Tolerances on dimensions and shape	Round, square and rectangular section	In accordance with EN10219-2:2006		EN10219-1:2006	
Durability (chemical composition)	Nominal thickness (mm)	Values			
	> ≤	min (%)	max (%)		
-	16	Al: 0,020	C: 0,16 Si: 0,60 Mn: 1,70 P: 0,035 S: 0,030 Nb: 0,050		V: 0,12 Ti: 0,050 Ni: 0,30 Mo: 0,20 N: 0,025
Yield strength	Nominal thickness (mm)	Values			
	> ≤	min (MPa)	max (MPa)		
-	16	460	-		
Tensile strength	Nominal thickness (mm)	Values			
	> ≤	min (MPa)	max (MPa)		
-	16	530	720		
Elongation (a,b)	Nominal thickness (mm)	Values			
	> ≤	min (%)	max (%)		
-	16	17	-		
Impact strength (c,d)	Nominal thickness (mm)	Values			
	> ≤	min (J)			
-	16	40 at -20°C	-		
Weldability CEV	Nominal thickness (mm)	Values			
	> ≤		max (%)		
-	16	-	0,46		

a. For section sizes D/T < 15 (round) e (B+H)/2T < 12,5 (square and rectangular) the minimum elongation is reduced by 2.

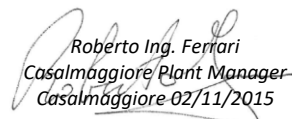
b. For thicknesses < 3,0 mm see 9.2.2. of the EN10219-1:2006

c. For impact properties for reduced section test pieces see 6.7.2. of EN10219-1:2006

d. This value corresponds to 27J at -30°C (see EN1993-1-1).

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.