MARCEGAGLIA
CARBON STEEL

Declaration of Performance

N° 0103/019 rel.0

Identification code of the product-type	Welded tube made of non-alloy structural steel S355MH/1.8845 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**
Name and identification number of the notified body (UKCA mark)	CARES - Pembroke House, 21 Pembroke Road Sevenoaks, Kent, TN13 1XR **1244**

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
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**			
	>	≤	-	max (%)		
	-	16		C: 0,14 Si: 0,50 Mn: 1,50 P: 0,035 S: 0,030 Nb:0,050	V: 0,010 Al: 0,020 Ti: 0,050 Ni: 0,30 Mo: 0,20 N: 0,020	
Yield strength	**Nominal thickness (mm)**		**Values**			
	>	≤	min (MPa)	max (MPa)		
	-	16	355	-		
Tensile strength	**Nominal thickness (mm)**		**Values**			
	>	≤	min (MPa)	max (MPa)		
	-	16	450	610		
Elongation (a,b)	**Nominal thickness (mm)**		**Values**			
	>	≤	min (%)	max (%)		
	-	16	22	-		
Impact strength (c,d)	**Nominal thickness (mm)**		**Values**			
	>	≤	min (J)			
	-	16	40 at -20°C	-		
Weldability CEV	**Nominal thickness (mm)**		**Values**			
	>	≤		max (%)		
	-	16	-	0,39		

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 EN10219:2006
c. For impact properties for reduced section test pieces see 6.7.2. of EN10219:2006
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 performance/s. This declaration of performance is issued, in accordance with Regulation (EU) n.305/2011, under the sole responsibility of the manufacturer identified above.
This responsibility statement is issued in accordance with Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, 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 20/12/2024

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