

DECLARATION OF PERFORMANCE	
NR C3019	
Rev. 2	
Unique identification code of the product type	S420MH
Intended use/es	Metal structures or composite metal and concrete structures
Manufacturer (registered office)	Marcegaglia Poland Sp.zo.o. Ul. Kaliska 72, 46-320 Praszka – Poland
Production Plant	Ligota Dolna Ul. Przemysłowa 1, 46-200 Kluczbork - Poland
System (-s) of assessment and verification of the constancy of performance	2+
Harmonised standard	EN 10219-1:2006
Notified Body (-ies)	RINA Service S.p.A. – Via Corsica, 12 – 16128 Genova - Italia 0474
UK Approved body and ID No	CARES - Pembroke House, 21 Pembroke Road Sevenoaks, Kent, TN13 1XR 1244

Certificates of Conformity for the control of the plant production have been issued for 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		
Principal features	Performance	Harmonised specification
Dimensional Tolerances	As per EN 10219-2:2019	EN 10219-1:2006
Elongation	As per Table 1	
Tensile strength		
Yield strength		
Impact strength		
Durability (depending on the protection method and/or thickness of the protective coating)	Possibility for hot-dip galvanizing by specifying option 1.4 at the ordering time	
Weldability (CEV)	0.43% max	

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) No 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.

Table 1 – Mechanical properties

Steel grade		Minimum yield strength R_{eH}	Tensile strength R_m	Minimum elongation %	Minimum impact energy	
Steel name	Steel number	[MPa]	[MPa]	$Lo=5.65\sqrt{So}$ ^{(a)(b)}	KV in J ^{(c)(d)}	
		Nominal thickness in mm			Test temperature	impact energy
		≤ 16	≤ 40	≤ 40		
S420MH	1.8847	420	500+660	19	-20°	40

- For proportion $D/T < 15$ (round) and $(B+H)/2T < 12,5$ (square, rectangular) minimum is decreased by 2
- For thickness $< 3,0$ mm the percentage elongation may be reported for a length of 80 mm or 50 mm
- Impact test, when applicable or required, shall be carried out in accordance with EN10219-1. Impact test are not required for nominal thickness < 6 mm.
- Value is suitable for 27J in temperature $-30^{\circ}C$

Signed for and on behalf of Marcegaglia Poland Sp. z o.o.:



Filippo Nicoli
 Marcegaglia Poland Sp. z o.o. Director

Ligota Dolna, 18.01.2023

This declaration of performance is valid only in presence of the product identification label and delivery document or of the inspection certificate issued at the delivery.