

DECLARATION OF PERFORMANCE NO. AVRF343

1 Unique identification code of the product-type: **Steel 25CrMo4+QT, 42CrMo4, C45, C45E, C45R EN 10343:2009**

2 Intended use of the construction product: Hot rolled steel product for structural purposes in compliance with EN 10343:2009

3 Registered trade name of the manufacturer:



Production Site : Riviera Francia 9/11 I-35127 Padova, Italy

5 System of assessment and verification of consistency of performance of the construction product: **2+**

6a Harmonized standard and notified body:

EN 10343:2009

IGQ – Via Carducci 125, 20099 Sesto San Giovanni (I), Id No. 1608, performed the initial inspection of the manufacturing plant and of the factory production control, and carries out the continuous surveillance, assessment and evaluation of Factory Production Control (FPC) no. **P183**.

7 Declared Performance:

Essential Characteristics (State: +QT)	Performance				Harmonized Technical Specification
Shape and size tolerance	Pass				EN 10060:2003 (round) EN 10059:2003 (square)
Nominal thickness (in mm)	>70 ≤ 100 (round)	>100 ≤ 130 (round)	>60 ≤ 100 (square)	>100 ≤ 130 (square)	EN 10343:2009
Elongation (in %) C45, C45E, C45R	≥ 17	-	-	-	
Elongation (in %) 25CrMo4	≥ 15	≥ 16	≥ 16	-	
Elongation (in %) 42CrMo4	≥ 12	≥ 13	≥ 13	≥ 14	
Reduction of Area (%) C45, C45E, C45R	≥ 45	-	-	-	
Reduction of Area (%) 25CrMo4	≥ 60	≥ 60	≥ 60	-	
Reduction of Area (%) 42CrMo4	≥ 50	≥ 50	≥ 50	≥ 55	
Tensile Strength (MPa) C45, C45E, C45R	from 630 to 780	-	-	-	
Tensile Strength (MPa) 25CrMo4	from 700 to 850	from 650 to 800	from 650 to 800	-	
Tensile Strength (MPa) 42CrMo4	from 900 to 1100	from 800 to 950	from 800 to 950	from 750 to 900	
Yield Strength (MPa) C45, C45E, C45R	≥ 370	-	-	-	
Yield Strength (MPa) 25CrMo4	≥ 450	≥ 400	≥ 400	-	
Yield Strength (MPa) 42CrMo4	≥ 650	≥ 550	≥ 550	≥ 500	
Impact Test at 20°C (J) C45, C45E, C45R	≥ 25	-	-	-	
Impact Test at 20°C (J) 25CrMo4	≥ 50	≥ 45	≥ 45	-	
Impact Test at 20°C (J) 42CrMo4	≥ 35	≥ 35	≥ 35	≥ 35	
Durability	NDP				
The performance of the product identified on points 1 and 2 is in conformity with the performance declared on point 7. This Declaration of Performance is issued under the sole responsibility of the manufacturer, as identified on point 3.					

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

Padova, 15.07.2026

Ing. Stelvio Buoro
Quality Manager

