

Declaration of Performance (DOP)

Wieland

Manufacturer: Wieland-Werke AG, Graf-Arco-Straße 36, 89079 Ulm, Germany

Production location: Wielandstraße 26, 89269 Vöhringen, Germany

Unique identification code of the product-type: Seamless, round copper tubes for water and gas in sanitary and heating applications with an outside diameter of 6 – 159 mm.

Type under Article 11(4) of the CPR: Sanco ® - tubes.
For a detailed description refer to www.wieland-plumbing.com

Intended uses of the construction product in accordance with the applicable harmonized standards and as intended by the manufacturer: Distributing networks for hot water and cold water
Hot water heating systems including panel heating systems (under-floor, wall, overhead)
Domestic gas and liquid fuel distribution, also other liquids
Waste water sanitation and other waste liquids and waste gas
Fire fighting systems
Pressure and vacuum systems

Declaration of Performance in conformity with the provisions of the following EU Regulation and EC Directive if the product has been installed in accordance with the national regulations:

EU 305/2011	EU Construction Products Regulation (CPR)
97/23/EC	EU Pressure Equipment Directive (PED)

Compliance with the requirements of the afore-mentioned EU Regulation and EC Directive is demonstrated by the observance of the following standard:

EN 1057:2006 + A1:2010 System 3 Annex ZA	„Copper and copper alloys – seamless round copper tubes for water and gas in sanitary and heating applications
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The initial inspection of the products was carried out by the notified body:


Materials testing institute MPA NRW - Identification No. 0432

Name and address:


Materialprüfungsamt Nordrhein-Westfalen
Marsbruchstraße 186, 44287 Dortmund, Germany

First affixing of the CE marking: 2008

CE



Gerd Ulm – Head of Division
Wieland-Werke AG


i.A.

Walter Kreil – Quality Management
Wieland-Werke AG

This declaration is no guarantee of properties in terms of product liability. The safety information of the product documentation must be observed.

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Declaration of performance according to:

EN 1057:2006 + A1:2010 – Annex ZA – Construction Products

Essential characteristics	Performance	Remarks
Reaction to fire:	Class A.1	Decision of the Commission 96/603/EC, amended 2000/605/EC. Materials for Class A acc. 96/603/EC do not require to be tested for reaction to fire.
Crushing strength:	NPD*	Derives from wall thickness and mechanical properties.
Internal pressure:	NPD*	Derives from wall thickness and mechanical properties.
Dimensional tolerances:	pass	All tubes required to meet the specified dimensional tolerances.
Resistance to high temperature:	suitable for use up to 120 °C	Temperatures found in heating system pipes have no significant influence on the mechanical properties of copper. For example, it is not necessary to adjust the admissible maximal tension for pressure calculations when the room temperature is increased to 120 °C. For applications at temperatures up to 250 °C the required wall thickness of the tube shall be calculated in accordance with the valid design stress.
Weldability:	pass	The suitability for welding is characteristic of the copper grade used for products according to EN 1057:2006 and assured by control of the material composition.
Tightness: gas and liquid:	pass	All tubes subjected to a freedom from defect test.
Durability of crushing strength, internal pressure and tightness:	pass	Tubes required to meet the surface quality requirements.

*Note: NPD - "No performance determined" acc. to EN 1057 / ZA.3

EN 1057:2006 + A1:2010 – Annex ZB - Pressure Equipment

Essential characteristic	Remarks
Material properties – brittle fracture prevention	Material properties must be met in accordance with the required mechanical properties. Copper, having a face-centred cubic crystal structure, does not suffer from brittle fracture.
Conformity of Material and certified documentation	If certification according to EN 10204 Annex ZA is required, this will be provided when requested.

General remarks:

- The performance of the product identified above is in conformance with the declared performance.
- This declaration of performance is issued under the sole responsibility of the manufacturer.
- The CE mark is a passport for free trade across Europe. It does not replace existing national regulations for special applications (e.g. drinking water, gas, sanitary, heating installations, etc.).
- Copper tubes are suitable for drinking water applications under national regulations.

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