

Declaration of Performance BIS Mengerling® Rapid



According Annex III of the CPR 305/2011
No. N – DoP 01

Other countries

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NORMA DoP 01 performance declaration

In compliance with Appendix III of Regulation (EU) No. 305/2011
(Construction Products Regulation)

For the “RAPID” product connector DN 40 to DN 300

1. Unique product type identification code:

RAPID connector DN 40 to DN 300

2. Type, batch or serial numbers or another code for identifying the construction product in accordance with Article 11, Paragraph 4:

See packaging for connector type and batch-No.

3. Intended use or uses of the construction product as foreseen by the manufacturer in accordance with the harmonised technical specification that was used:

Connecting cast iron pipes and/or cast parts with DN 40, 50, 70, 75S, 80, 100, 125, 150, 200, 250 and 300 nominal widths.

4. Name, registered trading name or registered trade mark and manufacturer's contact address in accordance with Article 11, Paragraph 5:

NORMA Germany GmbH, Edisonstrasse 4, 63477 Maintal, Germany

5. If necessary, state name and contact address of an authorised representative who has been appointed for the task in accordance with Article 12, Paragraph 2:

Not applicable

NORMA DoP 01 performance declaration

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6. System or systems used for evaluating and auditing the constancy of performance of the construction product in accordance with Appendix V:

System 4

7. In the case of a performance declaration that pertains to a construction product that is covered by a harmonised standard:

The manufacturer must implement on-site production checks in his factory

8. In the case of a performance declaration that pertains to a construction product for which an European Technical Evaluation has been issued:

Not applicable

9. Declared performance

Important characteristics	Performance	Harmonised standard
Fire behaviour Cast iron System NOTE 1	npd	EN 877
Internal pressure rupture strength Watertightness NOTE 3	npd	EN 877
Tolerances Outer diameter Wall thickness Out-of-roundness	npd	EN 877

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Important characteristics	Performance	Harmonised standard
Impact resistance Mechanical properties NOTE 2	npd	EN 877
Sealing tightness: Air and liquids Watertightness Airtightness NOTE 4	Conforms	EN 877
Durability Pipe's outer coating Pipe's inner coating	npd	EN 877

npd = no performance determined (no verification needed)

NOTE 1: In accordance with Decision 96/603/EU issued by the Commission on the 4th October 1996, the material belongs to Class A1 and it did not need to be subjected to fire behaviour testing.

NOTE 2: Determined using the specially selected properties.

NOTE 3: Connection tests to determine the weakest point was adequate for defining the internal pressure rupture strength; in addition to this it was also used for testing the pipe connection. The high usability rating of the pipes and the moulded parts can be determined using the following equation, which will be incorporated in the normative section of the standard during the next revision:

$$P = \frac{20 \times e \times R_m}{D \times S_F}$$

Whereby:

e Pipe's minimum wall thickness in mm;

D Average pipe diameter (DE - e) in mm

DE Pipe's nominal outer diameter value (see Table 14) in mm

R_m The minimum tensile strength of cast iron in megapascals. (R_m = 420 MPa for cast iron with nodular graphite and 200 MPa for cast iron with lamellar graphite);

S_F A safety factor of 3

The internal pressure rupture strength of a pipe with a nominal width of DN 100 amounts to more than 100-bar.

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NOTE 4: The sealing tightness test using air is considerably stricter, as air molecules are usually smaller than the gas molecules normally found in drainage systems.

NOTE 5: The durability of the cast iron is determined by the usability rating of the coating that is being used. Cast iron products have unlimited durability providing that the coating remains in a good state

10. The product performance given in Sections 1 and 2 corresponds to the declared performance listed in Section 9.

Signed on behalf of the manufacturer and in the name of the manufacturer of:

A handwritten signature in blue ink, appearing to read 'M. L.' with a stylized flourish.

i.V. Markus Krämer
(Innovation Manager / Project Manager)

A handwritten signature in blue ink, appearing to read 'M. Hielscher' with a large, sweeping flourish.

i.V. Martin Hielscher
(Head of Quality Department)

Maintal, Germany on the 10.09.2013.

