

Marsbruchstraße 186 • 44287 Dortmund • Postfach: 44285 Dortmund • Telefon (0231) 4502-0 • Telefax (0231) 45 85 49 • E-Mail: info@mpanrw.de

Test report No.

220011380-15e

Client

NAYLOR DRAINAGE Ltd.

Clough Green Cawthorne,

Barnsley

Date of order:

Receipt of samples: July 02, 2015

July 02, 2015

GB-South Yorkshire S75 4AD

Order

Determination of water tightness at 5.0 bar of clay pipes

Samples

Denlok jacking pipes:

DN 200 x 996 - FN 80 - 700

DN 250 x 996 - FN 100 - 1630

DN 300 x 996 - FN 120 - 1875

DN 400 x 996 - FN 160 - 3150

DN 600 x 996 - FN 120 - 4520

Description of the tests/underlying specifications

DIN EN 295-1 "Vitrified clay pipe systems for drains and sewers -

Part 1: Requirements for pipes, fittings and joints", May 2013

DIN EN 295-2 "Vitrified clay pipe systems for drains and sewers -

Part 2: Evaluation of conformity and sampling", May 2013

DIN EN 295-3 "Vitrified clay pipe systems for drains and sewers -

Part 3: Test methods", March 2012

DIN EN 295-7 "Vitrified clay pipe systems for drains and sewers -

Part 7 Requirements for pipes and joints for pipe jacking, May 2013

DIN CERTCO Certification scheme ZP WN 295 - Glazed vitrified clay pipes and fittings for drains and sewers DIN EN 295, Part 1 through 7, issue September 2013

The results of the tests refer exclusively to the samples named above.

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1 sampling

The manufacture of vitrified clay pipes was carried out in the factory Green Clough, Cawthorne Barnsley. Here were performed the sampling and tests.

2 Results of the tests

2.1 Contents of the tubes

The pipes sounded clear and properly when struck. They had no errors that could affect their function.

2.1.1 Marking

party certification body:

DN 200	(impressed)	(stamped)
DIN EN-Marking: Manufacturer's identification: Date of manufacturing: Nominal size: Dimensional jointing system: Identification symbol of the third party certification body:	BS EN 295-7 NAYLOR - DENLOK 04.06.14 - 04.06.14 DN 200 FN 80 - 700	BS EN 295-7 NAYLOR DENLOK NC DN 200 FN 80 - 700
DN 250 DIN EN-Marking: Manufacturer's identification: Date of manufacturing: Nominal size: Dimensional jointing system: Identification symbol of the third party certification body:	BS EN 295-7 NAYLOR - DENLOK 01.05.15 - 01.05.15 DN 250 FN 100 - 1630 CE	BS EN 295-7 NAYLOR DENLOK NC DN 250 FN 100 - 1630
DN 300 DIN EN-Marking: Manufacturer's identification: Date of manufacturing: Nominal size: Dimensional jointing system: Identification symbol of the third party certification body:	BS EN 295-7 NAYLOR - DENLOK 16.01.15 - 19.01.15 DN 300 FN 120 - 1875 CE	BS EN 295-7 NAYLOR DENLOK NC DN 300 FN 120 - 1875
DN 400 DIN EN-Marking: Manufacturer's identification: Date of manufacturing: Nominal size: Dimensional jointing system: Identification symbol of the third	BS EN 295-7 NAYLOR - DENLOK 23.02.15 - 23.05.15 DN 400 FN 160 - 3150	BS EN 295-7 NAYLOR DENLOK NS DN 400 FN 160 - 3150

CE



DN 600

DIN EN-Marking: BS EN 295-7 BS EN 295-7

Manufacturer's identification: NAYLOR - DENLOK NAYLOR DENLOK NS

Date of manufacturing: 04.12.14 - 05.12.14

DN 600 Nominal size:

DN 600 Dimensional jointing system: FN 120 - 4520 FN 120 - 4520

Identification symbol of the third

party certification body: CE

2.3 Tests in the laboratory of the MPA NRW in Dortmund

2.3.1 Water tightness of the pipe joint at elevated pressure of 5.0 bar in accordance*) with ZP WN 295, clause 4.11

Test carried out according to DIN EN 295-7, clause 5.3.2 on two jointed pipes (without shear load and without deflection) at a test pressure of 5.0 bar for a period of 15 minutes time.

Nominal size	ZP WN 295, clause 4.11	Test pressure [bar]	Test time [min.]	Comments	Requirement fulfilled
DN 200 DN 250 DN 300 DN 400 DN 600	2 pipes with connection	5.0 bar	15	dry	yes

^{*) 5.0} bar instead of 2.4 bar

3 Assessment

Concerning the tested characteristics, the tested vitrified clay pipes meet the requirements of DIN EN 295-7 and the requirements of the DIN CERTCO certification scheme ZP WN 295 -Glazed vitrified clay pipes and fittings for drains and sewers DIN EN 295, Part 1 through 7.

Dortmund, 20.08.2015

By order

Dipl Ing. Tayyar Uysal

Executive officer