

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-18196-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **22.11.2021**

Date of issue: 22.11.2021

Holder of certificate:

**IKT - Institut für Unterirdische Infrastruktur gGmbH
Exterbruch 1, 45886 Gelsenkirchen**

for the locations

**Exterbruch 1, 45886 Gelsenkirchen
Kantoorgebouw „De Enk“, Tivolilaan 205, 6824 BV Arnheim, Niederlande**

Tests in the fields:

selected mechanical-technological and thermoanalytical tests at plastics, polymeric components of pipeline- and liner systems as well as GFK-laminate excerpts

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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The testing methods are marked with the following specified symbols of the locations, at which they are accomplished:

GE = Gelsenkirchen

NL = Niederlande (Arnheim)

DIN EN ISO 178 2019-08	Plastics - Determination of flexural properties	GE NL
ISO 178 2019-04	Plastics - Determination of flexural properties	E NL
DIN EN ISO 527-1 2019-12	Plastics - Determination of tensile properties - Part 1: General principles (here: <i>Section 9</i>)	GE
DIN EN ISO 527-2 2012-06	Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics	GE
DIN EN ISO 527-3 2019-02	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets	GE
DIN EN ISO 527-4 1997-07	Plastics - Determination of tensile properties - Part 4: Test conditions for isotropic and anisotropic fibre-reinforced plastic composites	GE
DIN EN ISO 527-5 2010-01	Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites	GE
DIN EN ISO 899-2 2015-06	Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading	GE NL
ISO 899-2 2003-06	Plastics - Determination of creep behaviour – Part 2: Flexural creep by three-point loading	E NL
DIN EN 1228 1996-08	Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Determination of initial specific ring	GE NL
ISO 7685 2019-07	Glass-reinforced thermosetting plastics (GRP) pipes - Determination of initial ring stiffness	GE NL

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DIN EN 13566-4 2003-04	Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 4: Lining with cured-in-place pipes (here: <i>Annex C, D</i>) (<i>withdrawn standard</i>)	GE NL
DIN 16869-2 1995-12	Centrifugally cast filled glass fibre reinforced unsaturated polyester resin (UP-GF) pipes - Part 2: General quality requirements, testing (here: <i>Chapter 6.10, 6.10.1, 6.10.2</i>) (<i>withdrawn standard</i>)	GE NL
APS-Guideline 15.09.2004	Waterlightness of lining with cured-in-place pipes	GE NL
DWA-A 143-3 2014-05	Rehabilitation of Drainage Systems outside Buildings - Part 3: Lining with cured-in-place pipes (CIPP) (here: <i>Test 7.2.9 Leak test of the material sample of the hose liner</i>)	GE NL
ZTV Materialprüfung Schlauchliner 29.06.2009	Additional conditions of contracts (ZTV) for material testing of samples of lining with cured-in-place pipes by working group of municipalities of southern Germany (here: <i>Chapter 3.1 to 3.3 and 3.8 (GE, NL) and Chapter 3.5 (GE)</i>)	GL NL
DIN EN ISO 11296-4 2018-09	Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 4: Lining with cured-in-place pipes (here: <i>Annex B, C, D</i>)	GE NL
ISO 11296-4 2018-02	Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 4: Lining with cured-in-place pipes	GE NL
DIN EN ISO 1183-1 2019-09	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method	GE
DIN 53765 1994-03	Testing of plastics and elastomeres; thermal analysis - DSC-method (<i>withdrawn standard</i>)	GE

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DIN EN ISO 11357-1 2017-02	Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles (here: <i>Section 9</i>)	GE
DIN EN ISO 11357-2 2014-07	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height	GE
ISO 11357-2 2013-05	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height	GE
DIN EN 17150 2019-11	Plastics piping systems for non-pressure underground conveyance and storage of non-potable water - Test method for determination of short-term compression strength of boxes	GE
DIN EN 17151 2019-11	Plastics piping systems for non-pressure underground conveyance and storage of non-potable water - Test method for determination of long-term compression strength of boxes	GE

Abbreviations used:

DIN	German Institute for Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
APS	Working Group of Institute for Lining
DWA	German Association for Water, Wastewater and Waste r. a.
ZTV	Additional conditions of contracts