

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-IS-13119-01-00 according to DIN EN ISO/IEC 17020:2012

Valid from: 07.06.2019

Date of issue: 07.11.2018

Holder of certificate:

**IMA Materialforschung und Anwendungstechnik GmbH
Wilhelmine-Reichard-Ring 4, 01109 Dresden**

for its inspection body Type A

at the locations:

**Wilhelmine-Reichard-Ring 4, 01109 Dresden
Am Lagerplatz 4, 01099 Dresden**

Inspections in the fields:

Inspection of products, product groups and components in the product areas (containers, profiles as well as pipes, fittings and pipe systems made of plastics, fiber reinforced plastics, plastic metal composites, metal) within the certification programs of building materials and construction products

Inspection of factory production control of products (containers, profiles, pipes, pipe fittings, fittings and pipe systems made of plastics, fiber reinforced plastics, plastic-metal sandwich structures, metal) their product groups and components according to defined regulations and determination of their conformity with the specified requirements and - on the basis of expert assessment - with general requirements

The inspection procedures are marked with the following symbols for the locations at which they are carried out:

Inspektion body BI1 = Wilhelme-Reichard-Ring 4, 01109 Dresden

Inspektion body BI2 = Am Lagerplatz 4, 01099 Dresden

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

Inspections according to the inspection instructions

QBI/1 2016-11	Operation of IMA inspection bodies - Procedural instructions Inspections for the control of the products, factory production control and sampling at the place of production
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Inspections of the following areas are carried out on the respective basis of the listed certification programs, assessment and basic test standards)

1. Inspection of plastic components (BI 1)

1.1 Inspection of plastic components accordance with general building approvals

Containers and collecting devices and drainage-free collecting pits made of thermosets; Reactive resins; textile reinforcing materials	Z-40.11-... Z-40.12-... Z-40.14-... Z-40.15-... Z-40.16-..
Coatings for collecting trays and discharge surfaces	Z-59.11-... Z-59.12-... Z-59.15-... Z-59.16-... Z-59.17-..
Components made of composites and glass-reinforced plastics, components made of thermoplastics; Reaction resin bonded building materials	Z-10.1-... Z-10.5-... Z-10.6-... Z-10.7-... Z-10.9-...
Reinforcement textile	Z-31.10-..

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1.2 Inspections of plastic products, plastic-metal sandwich structures and metal products

DIN EN 13245-2 2010-11	Plastics - Unplasticized poly(vinyl chloride) (PVC-U) profiles for building applications - Part 2: PVC-U profiles and PVC-UE profiles for internal and external wall and ceiling finishes
DIN EN 14509 2013-12	Self-supporting double skin metal faced insulating panels - Factory made products – Specifications
Quality guidelines for sandwich elements and profiles EPAQ 2017-10	Quality guidelines of European Association for Panels and Profiles (PPA-Europe) for self-supporting sandwich elements and cold-formed profiles
DIN EN 14782 2006-03	Self-supporting metal sheet for roofing, external cladding and internal lining - Product specification and requirements
EAD 260001-00-03.03 2016-04	Structural sections and decks made from fibre reinforced polymers (FRP/glass fibre composites); EOTA file No. 13-26-0001-03.03
DIN EN 1090-04 2018-09	Execution of steel structures and aluminium structures - Part 4: Technical requirements for cold-formed structural steel elements and cold-formed structures for roof, ceiling, floor and wall applications
DIN EN 1090-05 2017-07	Execution of steel structures and aluminium structures - Part 5: Technical requirements for cold-formed structural aluminium elements and cold-formed structures for roof, ceiling, floor and wall applications
ETAG 034-1 2012-04	Guideline for European Technical Approval of kits for external wall claddings – Part I : Ventilated cladding kits comprising cladding components and associated fixings
ETAG 034-2 2012-04	Guideline for European Technical Approval of kits for external wall claddings – Part 2 : Cladding kits comprising cladding components, associated fixings, subframe and possible insulation layer

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2. Inspections of piping systems in accordance with the listed certification programs and basic evaluation documents (BI 2)

DIN 8076 2013-09	Pressure pipelines made from thermoplastics materials - Metal and plastics compression fittings for polyethylene (PE) pipes - General quality requirements and testing
DIN EN 253 2015-12	District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Pipe assembly of steel service pipe, polyurethane thermal insulation and outer casing of polyethylene
DIN EN 448 2016-02	District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Fitting assemblies of steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
DIN EN 488 2016-02	District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
DIN EN 489 2009-07	District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Joint assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
DIN EN 1254-3 1998-03	Copper and copper alloys - Plumbing fittings - Part 3: Fittings with compression ends for use with plastics pipes
DIN EN 1254-8 2012-12	Copper and copper alloys - Plumbing fittings - Part 8: Fittings with press ends for use with plastics and multilayer pipes
DIN CEN/TS 12201-7 2014-05	Plastics piping systems for water supply and for drainage and waste water pressure pipes - Polyethylene (PE)
DIN CEN/TS 1555-7 2014-04	Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE)
DIN ISO/TS 15874-7 2004-03	Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 7: Guidance for the assessment of conformity

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DIN CEN/TS 14632 2012-05 DIN SPEC 19939 2012-05	Plastics piping systems for drainage, sewerage and water supply, pressure and non-pressure - Glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP) - Guidance for the assessment of conformity
DIN ISO/TS 15875-7 2004-03	Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) – Part 7: Guidance for the assessment of conformity
DIN ISO/TS 15876-7 2004-03	Plastics piping systems for hot and cold water installations - Polybutylene (PB) – Part 7: Guidance for the assessment of conformity
DIN ISO/TS 15877-7 2010-02	Plastics piping systems for hot and cold water installations – Chlorinated polyvinyl chloride (PVC-C) – Part 7: Guidance for the assessment of conformity
DIN CEN ISO/TS 22391-7 2012-03	Plastics piping systems for hot and cold water installations - Polyethylene of raised temperature resistance (PE-RT) - Part 7: Guidance for the assessment of conformity
DIN CEN ISO/TS 21003-7 2010-12	Multilayer piping systems for hot and cold water installations inside buildings – Part 7: Guidance for the assessment of conformity
DVGW CERT 40014-11-N-DE 01/2017	Rules for the certification of products in the non-harmonized area
DVGW W 534 2015-07	Pipe connectors and pipe joints in drinking water installation
ZP 8500 2017-03	Certification program of DVGW Pipe connectors and pipe joints in drinking water installation
DVGW W 540 2010-08	Intrinsically safe apparatus for connection to the drinking water installation
DVGW W542 2009-08	Multi-layer composite pipes in the drinking water installation - requirements and tests
DVGW ZP 8803 2018-03	Certification program Multilayer Piping Systems for hot and cold drinking water inside buildings

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DVGW W 543 2005-05	Pressure resistant flexible hose lines for drinking water installations - Requirements and tests
DVGW W 544 2007-05	Plastic pipes in the drinking water installation
DVGW W 570-1 2013-03	Valves for drinking water installations - part 1: requirements and testing for building valves
DVGW W 570-2 2008-01	Valves for drinking water installations - part 2: requirements and testing for protective fittings
DVGW W 570-3 2013-12	Valves for drinking water installations - building valves and protective fittings and/or combinations in special designs for use in accordance with DIN EN 806 and DIN EN 1717 in conjunction with DIN 1988
DVGW W 579 2015-09	Sampling Valves in Drinking Water Installations - Requirements and Tests
DVGW GW 335-A1 2003-06	Plastic piping systems in gas and water distribution; Requirements and tests - Part A1: Raw and molded PVC-U molded parts for water distribution
DVGW GW 335-A2 2005-11	Plastic piping systems in gas and water distribution; Requirements and tests - Part A2: Pipes made of PE 80 and PE 100
DVGW GW 335-B2 2004-09	Plastic piping systems in gas and water distribution; Requirements and tests – Part B2: Molded parts made of PE 80 and PE 100
DVGW GW 335-B3 2011-09	Plastic piping systems in gas and water distribution - Part B3: Mechanical connectors made of plastic (POM, PP) for water distribution
DVGW GW 335-B4 2014-04	Plastic Piping Systems in Gas and Water Supply - Metallic Piping Fittings with mechanical or spigotand- socket Joints for Water Distribution
DVGW G 5614 2013-12	Non-detachable Connections for Gas Pipes; Press Fittings
DVGW G 5600-1 2014-02	Material transfer connector made of metal for gas pipelines made of polyethylene

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DVGW W574 2007-04	Sanitary fittings as extraction fittings for drinking water installations - requirements and tests
DVGW VP 615 1996-07	Pressure pipes, molded parts and pipe joints made of glass fiber reinforced polyester resin (UP-GF) for drinking water pipes
DVGW VP 640 2003-08	Plastic piping systems in gas and water distribution; PE-Xb and PE-Xc pipes
DIN Certco Zertifizierungsprogramm (ZP) 2015-01	Plastic pipe and composite pipe systems for hot water radiators and radiator connections <i>- Here: Execution of inspections</i>
DIN Certco Zertifizierungsprogramm (ZP) 2017-05	Plastic pipe systems (pressure pipes and pressure molded parts) <i>- Here: Execution of inspections</i>
DIN Certco Zertifizierungsprogramm (ZP) 2015-03	Plastic pipe systems (sewer ducts and sewer pipes) <i>- Here: Execution of inspections</i>
DB Standard DBS 918 064 2008-12	Technical delivery conditions; Plastic pipes for use in the dewatering of railway systems
SKZ-HR 3.2 2015-04	Heating pipes made of cross-linked polyethylene PE-X
SKZ-HR 3.3 2015-04	Heating pipes made of Polypropylen
SKZ-HR 3.12 2015-06	Plastic-aluminium multi-layer composite pipes
SKZ-HR 3.13 2006-05	Heated pipes of medium density PE-MDX
SKZ-HR 3.16 2015-04	Heating pipes made of polyethylen enhanced temperature resistance PE-RT TYP I and TYP II
SKZ-HR 3.26 2015-02	Geothermal heaters, pipes and piping parts made of polyethylene PE 100 for geothermal products
INSTA-CERT 2017-06	General Rules for the services provided by INSTA-CERT Product certification (GRC)

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INSTA SBC ISO 21003 2017-10	Specific rules for Nordic certification in accordance with ISO 21003 Multilayer piping systems for hot and cold water installations inside buildings
SVGW ZW 101 2018-01	general terms and conditions SVGW Certification Body Water SVGW ZertW <i>- Here: Execution of inspections</i>
SVGW ZW/TPG-TPW 101 d 2007-01	SVGW approval of pipes and pipe parts made of plastic for use in the gas and drinking water sector <i>- Here: Execution of inspections</i>
SVGW ZW 106 2016-07	Apparatus connection and corner shut-off valves
SVGW ZW 110 2017-01	Stop valves
SVGW ZW 125 2018-01	Drinking water distribution systems with PE-X pipes
SVGW ZW 129 2018-01	Drinking water distribution systems with PB pipes
SVGW ZW 142 2018-01	Drinking water distribution systems with multilayer composite pipes
KIWA BRL-K536 part G 2011-12	Evaluation guideline for the Kiwa (technical approval with-) product certificate for plastic piping systems of PE-RT /AI intended for transport of hot and cold drinking water
KIWA BRL-K536 part K 2017-11	Evaluation guideline for the Kiwa (technical approval with-) product certificate for multilayer piping systems PE-X/AI, PE-RT/AI, PP-R/AI and PP-RCT/AT intended for transport of hot and cold drinking water inside buildings
KIWA BRL-K774/06 2012-02	Evaluation guideline for the Kiwa product certificate for Compression fittings to tighten with matching clamping device
KIWA GASTEC QA KE 186 November 2012	Approval Requirements 186 for the GASTEC QA product certificate for press fittings for joining copper pipes
Executive order No. 1007 of 01 July 2016	Danish Ministry of Transport and Building (Issue of approvals for building components that come into contact with drinking water)

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GDV/ Version 3.2 of
13 August 2018

Inspection guidelines for building components approved for drinking
water

EHP 003
2016-04

Euroheat & Power certification guidelines for the quality assessment
of district heating steel valves (EN 488) for pre-insulated valve
assemblies.

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Abbreviations used:

BRL	Beurteilungsrichtlinie <i>(Specification for evaluation)</i>
DBS	Deutsche Bahn Standard
DIBt	Deutsches Institut für Bautechnik <i>(German Institute for Structural Engineering)</i>
DIN	Deutsche Norm <i>(German Standard)</i>
DIN Certco ZP	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH – Zertifizierungsprogramm <i>(DIN CERTCO Society for Conformity Assessment mbH - Certification Program)</i>
DVGW	Deutsche Vereinigung des Gas- und Wasserfaches e.V. <i>(German Technical and Scientific Association on Gas and Water)</i>
EHP	Euroheat and Power certification programm
EN	Europäische Norm <i>(European standard)</i>
GASTEC QA	Zulassungsvorschriften von KIWA <i>(Approval regulations of KIWA)</i>
GDV	Godkent til Drikkevand (Dänemark / <i>Denmark</i>)
GW/TPG-TPW	Prüf- / Zertifizierungsreglement des Schweizerischen Vereins des Gas- und Wasserfaches <i>(Testing / Certification Regulations of Swiss Gas and Water Industry Association)</i>
HR	SKZ Prüf- und Überwachungsbestimmungen <i>(SKZ Test and monitoring regulations)</i>
INSTA SBC	Specific rules for Nordic certification
ISO	International Organisation for Standardisation
KIWA	Niederländisches Test-Institut für Gas- und Trinkwasser-Artikel <i>(Formerly: Keurings instituut voor waterleiding Artikelen)</i>
NDS	Procedural instructions of the inspection body
QBI	Qualitätsmanagementanweisung der IMA – Dresden <i>(Quality management instruction of IMA Dresden)</i>
SKZ	Süddeutsches Kunststoffzentrum <i>(South German plastics center)</i>
SVGW	Schweizerischer Verein des Gas- und Wasserfaches <i>(Swiss Gas and Water Industry Association)</i>
W/TPW	SVGW Prüf- / Zertifizierungsreglement <i>(SVGW Test and Certification regulations)</i>
Z	Zulassungsnummer einer allgemeinen bauaufsichtlichen Zulassung des DIBT <i>(Approval number of a general building inspectorate approval of DIBT)</i>
ZP	Zertifizierungsprogramm (DIN-Certco) <i>(Certification-Program of DIN-Certco)</i>

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