DAP Deutsches Akkreditierungssystem Prüfwesen GmbH

Signatory to the Multilateral Agreement of EA for Mutual Recognition
and to the Mutual Recognition Arrangement of ILAC

represented in the

Deutscher AkkreditierungsRat

Accreditation

The DAP Deutsches Akkreditierungssystem Prüfwesen GmbH herewith confirms that the

MPA Dresden GmbH

Fuchsmühlenweg 6F
09599 Freiberg

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the fields of

tests of portable fire extinguishers, fire extinguishers without mobile own power and propulsion motor vehicles permanently installed fire extinguishers foam extinguishing agent, extinguishing and fire-fighting equipment to combat smouldering fire of lignite powder; testing protection against fire of construction materials, components and construction products, insulated cables and wires and safety cabinets, the fire performance tests under actual fire conditions

in accordance with the test methods listed in the annex. The annex forms part of the certificate and comprises 9 pages.

The accreditation is valid from 2009-07-15 to 2014-07-14.

DAR registration number: **DAP-PL-1137.00**

Berlin, 2009-07-15

Univ.-Prof. Dr.-Ing. habil. K. Ziegler
Managing Director
DAP Deutsches Akkreditierungssystem
Prüfwesen GmbH

Translation for information purposes only. The German certificate is authoritative.
See notes overleaf.

1st issue

DAP Deutsches Akkreditierungssystem Prüfwesen GmbH (hereinafter referred to as DAP), is signatory to the Multilateral Agreement for Testing Laboratories (MLA) of European co-operation for Accreditation (EA) and to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Co-operation (ILAC). For testing laboratories, EA concluded further bilateral agreements for mutual recognition.
The signatories to these agreements of the following countries mutually recognise their accreditations of testing laboratories:

Argentina – Australia – Austria – Belgium – Brazil – Canada – People's Republic of China – Costa Rica – Cuba – Czech Republic – Denmark – Egypt – Estonia – Finland – France – Germany – Greece – Guatemala – Hong Kong, China – India – Indonesia – Ireland – Israel – Italy – Japan – Republic of Korea – Latvia – Lithuania – Malaysia – Malta – Mexico – The Netherlands – New Zealand – Norway – Philippines – Poland – Portugal – Romania – Singapore – Slovakia – Slovenia – South Africa – Spain – Sweden – Switzerland – Chinese Taipei – Thailand – Turkey – Tunisia – United Kingdom – USA – Vietnam.

The up-to-date status of membership can be retrieved from the respective website:
EA - http://www.european-accreditation.org
ILAC - http://www.ilac.org

This accreditation has been awarded on the basis of an assessment and pursuant to the contract concluded with DAP with respect to the accreditation of a testing laboratory in accordance with the rules and procedures of the German Accreditation System in conformity with the Standards DIN EN ISO/IEC 17025 and DIN EN ISO/IEC 17011.

The requirements in terms of materials and personnel as specified in DIN EN ISO/IEC 17025 for the specific testing fields indicated in the accreditation certificate, as well as for the procedures described in the annex to the accreditation certificate, have been met.

Details of the scope of the accreditation (testing fields, procedures and specifications) are given in the annex to this accreditation certificate.

The annex and the documents submitted in connection with the accreditation are deemed to form an integral part of it. Any amendments are to be made in writing.

The accreditation is awarded subject to revocation at any time due to the fundamental change or lapse of any conditions defined in the agreement and in the annex to this accreditation certificate.

Accreditation certificates and annexes are not to be disseminated in any form other than the present one. The publication of extracts is subject to approval by DAP.

This document is the property of DAP.

DAP Deutsches Akkreditierungssystem Prüfwesen GmbH

Annex to the Accreditation Certificate DAP-PL-1137.00
Accreditation based on DIN EN ISO/IEC 17025:2005

Period to validity: 2009-07-15 to 2014-07-14

Holder of certificate: **MPA Dresden GmbH**

Fuchsmühlenweg 6F
09599 Freiberg

Tests in the areas: **tests of portable fire extinguishers, fire extinguishers without mobile own power and propulsion motor vehicles permanently installed fire extinguishers Foam extinguishing agent, extinguishing and fire-fighting equipment to combat smouldering fire of lignite powder; testing protection against fire of construction materials, components and construction products, insulated cables and wires and safety cabinets, the fire performance tests under actual fire conditions**

abbreviations used: see last page

1 Fire extinguishers

1.1 Portable fire extinguishers

DIN EN 3-7 2007-10	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods
DIN EN 3-8 2007-02	Portable fire extinguishers - Part 8: Additional requirements to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar
DIN EN 3-9 2007-02	Portable fire extinguishers - Part 9: Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers
DIN EN 3-3 1994-06	Potable fire extinguishers; Construction, resistance to pressure, mechanical tests
NF S61-804 1988-10	Générateurs d'aérosol à fonction extinctrice

BS 6165 2002-02	Specification for small disposable fire extinguishers of the aerosol type

in connection with:

DIN EN 3 Bleiblatt 3 2005-04	*Portable fire extinguishers - Model laboratory - Report in compliance with EN 3-7 German version CEN/TR 14922:2004*
DIN EN 3-6 1999-07	*Portable fire extinguishers - Part 6: Provisions for the attestation of conformity of portable fire extinguishers in accordance with EN 3 Part 1 to Part 5 (includes Amendment A1:1999);*
FprEN 3-10 2009-07	*Portable fire extinguishers - Part 10: Provisions for evaluating the conformity of a portable fire extinguisher to EN 3 part 7*
DIN-Fachbericht CEN/TR 15642 2008-03	*Unified tests procedures for the tests of EN 3-7*

1.2 Fire extinguishers without mobile own power

DIN EN 1866 2006-03	Mobile fire extinguishers
DIN EN 1866-1 2007-10	Mobile fire extinguishers - Part 1: Characteristics, performance and test methods
E DIN EN 1866-2 2007-02	Mobile fire extinguishers - Part 2: Additional requirements to EN 1866-1 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar
E DIN EN 1866-3 2007-02	Mobile fire extinguishers - Part 3: Additional requirements to EN 1866-1 for pressure resistance of CO2 extinguishers

1.3 Other fire extinguishers

DIN 14475 1978-05	Dry powder systems for fire fighting vehicles
DIN 14497 1990-02	Small fire extinguishing systems; requirements, testing
LG-01 1996-11	Qualification testing of fire extinguishers to fight smouldering fire of lignite dust

2 Fire extinguishing media

E DIN 14275 1988-09	Extinguishing powder requirements, tests
DIN EN 615 2009-08	Fire protection - Fire extinguishing media - Specifications for powders (other than class D powders)
E DIN 14272-1 1990-04	Foam-protein foam and fluorine-protein foam means of production of heavy foam for extinguishing
E DIN 14272-2 1990-04	Foam Medium-range multi-foaming agent for the production of heavy, medium and light foam for extinguishing
E DIN 14272-3 1990-04	Foam-Water Film Fine foaming agent for the production of heavy foam for extinguishing
DIN EN 1568-1 2008-06	Fire extinguishing media - Foam concentrates - Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids
DIN EN 1568-2 2008-06	Fire extinguishing media - Foam concentrates - Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids
DIN EN 1568-3 2008-06	Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids
DIN EN 1568-4 2008-06	Fire extinguishing media - Foam concentrates - Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids
prEN 1568-5 2001-02	Fire extinguishing media - foam concentrates - specification for foam concentrates for non-aspirated application to water-immiscible liquids
DIN EN 1869 2001-01	Fire blankets
ICAO Airport Service Manual part1 appendix 8 E 2004-05	Availability of Extinguishing Agents; Specification, Procedures and Performance Levels
IMO MSC/Circ. 582 1992-04	Guidelines for the performance and testing criteria and surveys of low - expansion foam concentrates for fixed fire - extinguishing systems
IMO MSC/Circ. 582/Corr. 1 2000-07	Modifications to the guidelines for the performance and surveys of low-expansion foam concentrates for fixed fire - extinguishing systems (MSC/CIRC. 582)

IMO MSC/Circ. 798 1997-06	Guidelines for the performance and testing criteria and surveys of medium - expansion foam concentrates for fixed fire - extinguishing systems
IMO MSC/Circ. 670 1995-01	Guidelines for the performance and testing criteria and surveys of high - expansion foam concentrates for fixed fire - extinguishing systems
IMO MSC/Circ. 799 1997-06	Guidelines for performance and testing criteria and surveys of expansion foam concentrates for fire-extinguishing systems of chemical tankers
ISO 7203-1 1995-12	Fire extinguishing media - Foam concentrates - Part 1: Specification for low expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-2 1995-12	Fire extinguishing media - Foam concentrates - Part 2: Specification for medium and high expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-3 1999-03	Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for top application to water-miscible liquids
UL 162 1994-03	Standard for Foam Equipment and Liquid Concentrates

3 Testing protection against fire of construction materials, components and construction products, insulated cables and wires and safety cabinets, the fire performance tests under actual fire conditions

3.1 Construction materials, components and construction products

DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests
DIN 4102-2 1977-09	Fire behaviour of building materials and building components - Part 2: Building components; definitions, requirements and tests
DIN 4102-3 1977-09	Fire behaviour of building materials and building components - Part 3: Fire walls and non-load-bearing external walls; definitions, requirements and tests
DIN 4102-5 1977-09	Fire behaviour of building materials and building components - Part 5: Fire barriers, barriers in lift wells and glazings resistant against fire; definitions, requirements and tests
DIN 4102-7 1998-07	Fire behaviour of building materials and building components - Part 7: Roofing; definitions, requirements and testing
DIN 4102-8 2003-10	Fire behaviour of building materials and components - Part 8: Small scale test furnace

DIN 4102-9 1990-05	Fire behaviour of building materials and elements; Seals for cable penetrations; concepts, requirements and testing
DIN 4102-11 1985-12	Fire behaviour of building materials and building components; Pipe encasements, pipe bushings, service shafts and ducts, and barriers across inspection openings; Terminology, requirements and testing
DIN 4102-12 1998-11	Fire behaviour of building materials and building components - Part 12: Circuit integrity maintenance of electric cable systems - Requirements and testing
DIN 4102-13 1990-05	Fire behaviour of building materials and elements; Fire resistant glazing; Concepts, requirements and testing
DIN 4102-15 1990-05	Fire behaviour of building materials and elements "Brandschacht"
DIN 4102-16 1998-05	Fire behaviour of building materials and building components - Part 16: "Brandschacht" tests
DIN 4102-17 1990-12	Fire behaviour of building materials and elements; determination of melting point of mineral fibre insulating materials; concepts, requirements and testing
DIN 18089-1 1984-01	Fire barriers; fillers for fire-doors; mineral fibre boards (felts); Definition, designation, requirements, tests
DIN EN 1363-1 1999-10	Fire resistance tests - Part 1: General requirements
DIN EN 1363-2 1999-10	Fire resistance tests - Part 2: Alternative and additional procedures
DIN EN 1364-1 199910	Fire resistance tests on non-loadbearing elements - Part 1: Walls
DIN EN 1364-2 1999-10	Fire resistance tests on non-loadbearing elements - Part 2: Ceilings
DIN EN 1634-1 2009-01	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 1: Fire resistance tests for doors, shutters and openable windows

in connection with:

DIN EN 13501-2 *2008-01*	*Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services*

DIN EN 13823 2002-06	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
DIN EN ISO 1716 2002-07	Reaction to fire tests for building products - Determination of the heat of combustion
DIN EN ISO 1182 2002-07	Reaction to fire tests for building products - Non-combustibility tests
DIN EN ISO 9239-1 2002-06	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
DIN EN ISO 11925-2 2002-07	Reaction to fire tests for building products - Part 2: Ignitability when subjected to direct impingement of flame
	in connection with:
DIN EN 13501-1 *2007-05*	*Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*
DIN V ENV 1187 2006-10	Test methods for external fire exposure to roofs
	in connection with:
DIN EN 13501-5 *2006-03*	*Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests*
IMO FTP Code Part 1	Non-combustibility Test (ISO 1182)
IMO FTP Code Part 2	Smoke and toxicity; in accordance with ISO 5659-2 + Resolution A.653(16), A.687(17), A.753(18)
IMO FTP Code Part 3	Tests for „A", „B" and „F" class division in accordance with A.754(18)
IMO FTP Code Part 4	Test for fire door control systems
IMO FTP Code Part 5	Test for surface flammability; in accordance with A.653(16) + ISO 1716
IMO FTP Code Part 6	Test for primary deck coverings; in accordance with A.687(17)
IMO FTP Code Part 7	Test for vertically supported textiles and films; in accordance with A.471(XII) und A.563(14)
IMO FTP Code Part 8	Test of upholstered furniture; in accordance with A.652(16)
IMO FTP Code Part 9	Test for bedding components; in accordance with A.688 (17)

3.2 Insulated cables and wires

DIN EN 50266-2-1 2001-09	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables - Part 2-1: Procedures; Category A F/R
DIN EN 50266-2-2 2001-09	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables - Part 2-2: Procedures; Category A
DIN EN 50266-2-3 2001-09	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables - Part 2-3: Procedures; Category B
DIN EN 50266-2-4 2001-09	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables - Part 2-4: Procedures; Category C
DIN EN 50266-2-5 2001-09	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables - Part 2-5: Procedures; Small cables; Category D
DIN EN 50305; Punkt 9.1 (VDE 260-305:2003-03) 2003-03	Railway applications - Railway rolling stock cables having special fire performance - Test methods
DIN EN 60332-1-1 (VDE 0482-332-1-1) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus (IEC 60332-1-1:2004)
DIN EN 60332-1-2 (VDE 0482-332-1-2) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame (IEC 60332-1-2:2004)
DIN EN 60332-1-3 (VDE 0482-332-1-3) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles (IEC 60332-1-3:2004)
DIN EN 60332-2-1 (VDE 0482-332-2-1) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 2-1: Test for vertical flame propagation for a single small insulated wire or cable - Apparatus (IEC 60332-2-1:2004)
DIN EN 60332-2-2 (VDE 0482-332-2-2) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame (IEC 60332-2-2:2004);
DIN EN 61034-2 (VDE 0482-1034-2) 2006-03	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements

IEC 60331-11 1999-04	Tests for electric cables under fire conditions - Circuit integrity - Part 11: Apparatus - Fire alone at a flame temperature of at least 750 °C
IEC 60331-21 1999-04	Tests for electric cables under fire conditions - Circuit integrity - Part 21: Procedures and requirements - Cables of rated voltage up to and including 0,6/1,0 kV
IEC 60332-3-21 2000-10	Tests on electric cables under fire conditions - Part 3-21: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A F/R
IEC 60332-3-22 2009-02	Tests on electric cables and optical fibre cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A
IEC 60332-3-23 2009-02	Tests on electric cables and optical fibre cables under fire conditions - Part 3-23: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category B
IEC 60332-3-24 2009-02	Tests on electric cables and optical fibre cables under fire conditions - Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C
IEC 60332-3-25 2009-02	Tests on electric cables and optical fibre cables under fire conditions - Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category D
UIC 564-2, Appendix 9 1991-01	Method to determine the reaction to fire of electric cable **in connection with:** *UIC 895, Appendix 6: 1976-07* — *Test procedure*
BS 6853 Table 13+14 1999-01	Test on electric cables under fire conditions
BS 6853 Table 13+14 and Appendix D.8.7 1999-01	Methods for measurement of smoke density

3.3 Safety cabinets

DIN EN 14470-1 2004-07	Fire safety storage cabinets - Part 1: Safety storage cabinets for flammable liquids
DIN EN 14470-2 2006-11	Fire safety storage cabinets - Part 2: Safety cabinets for pressurised gas cylinders

DIN EN 1047-1 2006-01	Secure storage units - Classification and methods of test for resistance to fire - Part 1: Data cabinets and diskette inserts
DIN EN 1047-2 2000-02	Secure storage units - Classification and methods of tests for resistance to fire - Part 2: Data rooms and data containers
prEN 15659 2007-07	Secure storage units - Classification and methods of tests for resistance to fire - Light fire storage units
DIN EN 14727 2006-03	Laboratory furniture - Storage units for laboratories - Requirements and test methods

abbreviations used:

BS	British Standard
DIN	Deutsches Institut für Normung e.V.
EN	Europäische Norm
FTP	Fire Test Procedures
ICAO	International Civil Aviation Organisation
IEC	International Electrotechnical Commission
IMO	International Maritime Organisation
ISO	International Organization for Standardization
LG	Hausverfahren der Amtlich anerkannten Prüfstelle für Feuerlöschmittel und Feuerlöschgeräte
MSC	Marine Safety Committee
NF	Norme Française
UIC	Union internationale des chemins de fer
UL	Underwriters Laboratories
VDE	VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V.