



MAJOR REFERENCE PROJECT BOOKLET

MEET OUR FAMILY OF CERTIFICATIONS

Our topnotch piping system is developed and manufactured within an ISO 9001 Quality Assurance System and complies with the most recent and relevant international standards for quality control. We are also proud holders of various renowned certifications that allow for both local and global recognition and approval.

Our major certifications are listed below:

QUALITY MANAGEMENT SYSTEM: ISO 9001 (SINCE 1998)

Bureau Veritas is recognized and accredited by major national and international organizations, such as UKAS. The ISO 9001 standard provides a framework to manage our business and ensure a philosophy of continual improvement across all levels of quality, safety, environmental protection, and corporate social responsibility. API is externally assessed on a regular basis to guarantee that these business practices are well-maintained. Related to quality management systems, Bureau Veritas' audits persistently improve our organizational performance, while enhancing principles of our business, such as: customer focus & satisfaction, leadership, involvement of people, process approach, system approach to management, continual improvement, fact based decision-making, and mutually beneficial supplier relationships.

APITHERM

SKZ Mark A 523 (since 2009)

SKZ is a partner to the plastics industry, endorsing quality assurance. According to SKZ standard HR 3.32 and based on DIN EN ISO 15874, this certificate states that PP-RCT pipes from API, our manufacturing process, and our quality control scheme, all comply to the relevant national and international standards. This certification investigates the mechanical characteristics and performance of the pipes, comprising the entire PP-RCT range. Bi-annual audits and tests are performed by the SKZ laboratories in Germany- an accredited laboratory that has granted consent to test on behalf the German Water and Gas Authority (DVGW).

KTW through TZW Laboratories (since 2009)

Certificate indicating the hygienic assessments of organic materials that come in contact with drinking water, in accordance with the KTW guideline that is provided by Germany's renowned environment Agency, UBA. Tests are conducted at the TZW laboratory- an accredited lab that has been granted consent to test on behalf the German Water and Gas Authority (DVGW). The tests include two stages:

1. Pre-certification of the raw material according to DVGW Worksheet W270 for enhancement of biological growth, where the material should not contribute to any biological growth
2. Testing of the finished pipes for chemical leaching, odor, and flavor in both, hot and cold water migrations

These certificates are renewed annually, whereby an inspector on behalf of the lab selects random samples of PP-RCT pipes to test for API's maintenance of the corresponding standards.

DVGW Certificates (since 2014)

Issued from the German Authority of Gas and Water, this certificate not only combines the requirements of SKZ and KTW for the pipe, but also ponders into the specifics of installation and the safety of the product. This certificate is an official approval from German governmental authorities for the use of API's PP-RCT pipes and fittings in domestic water installations. It is an attestation that API's products meet the German codes.

The logo for APITHENE, featuring the word "APITHENE" in green capital letters inside a rounded rectangular border.

KTW through TZW Laboratories (since 2011)

Certificate indicating the hygienic assessments of organic materials that come in contact with drinking water, in accordance with the KTW guideline that is provided by Germany's renowned environment Agency, UBA. Tests are conducted at the TZW laboratory- an accredited lab that has been granted consent to test on behalf the German Water and Gas Authority (DVGW). Following the same guidelines as PP-RCT mentioned above, random samples of HDPE pipes are collected once every 5 years for testing and ultimately, for certificate renewal. As a result, each product line has its own independent KTW certificate.

Libnor Conformity Mark NL EN 12201 (since 2015)

ApiThene HDPE 100 pipes (non-peelable, non co-extruded) are certified according to the national standard NL EN 12201 pertaining to polyethylene pipes. The certification scope spans over API's quality management system, the suitability of raw materials used for production of HDPE 100 pipes, the conformance of the produced pipes to the standard, API's ability to control the quality and conduct the tests that ensure this conformance, in addition to the suitability of both the raw material and the finished product for use with drinking water. Libnor remains by law and practice, as the sole national certification body accredited to issue compliance certificates to this standard.

The logo for APIDRAIN, featuring the word "APIDRAIN" in green capital letters inside a rounded rectangular border.

B1 rated according to DIN 4102 from MPA Laboratories (since 2011)

MPA Berlin Brandenburg is a certified lab for testing, surveillance, inspection, and certification of building materials and building products. As an accredited and recommended laboratory by the German authorities, ApiDrain's pipes and fittings are tested and certified by this reputable organization for their fire characteristics. Due to the advanced halogen-free flame retardant additives, our ApiDrain pipes and fittings are rated B1 according to DIN 4102 -the highest rating a plastic material could attain. This certification drives confidence towards the use of API-Drain system in exposed applications, where polypropylene could not be used before.

*** API is a valued member of *The Lebanese Standards Technical Committee (LIBNOR TC138)* for Plastic Pipes and Fittings for the Transportation of Fluids.**

QUALITY MANAGEMENT SYSTEM: ISO 9001 (SINCE 1998)

BUREAU VERITAS
Certification



Advanced Plastic Industries SAL.
Industrial Zone, Zouk Mosbeh-Lebanon

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standards

ISO 9001:2008

Scope of Certification

Manufacturing of Polypropylene (PP) & Polypropylene Random (PP-RCT & PP-R) Pipes and Fittings & Manufacturing of Polyethylene (PE) Pipes and Fittings

Certification cycle start date: 18th March 2014

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 18th March 2017

Original certification date: 16th December 1998

Certificate No. IND 14.7162 U/Q

Version 1, 10th March 2014


Certification Manager

Certification body address: Brandon House, 180 Borough High Street, London SE1 1LH, United Kingdom
Local office: Bureau Veritas Liban SAL – Dodeyan Center 9th Floor – Dora - Lebanon



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Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.
To check this certificate validity please call: 961 1 240540 / 640

DVGW - GROUP 1

– Zweitschrift – duplicate – Zweitschrift – duplicate – Zweitschrift – duplicate – Zweitschrift – duplicate – Zweitschrift – duplicate –



CERT

DVGW type examination certificate DVGW-Baumusterprüfzertifikat

DW-8318CP0031

Registration Number
Registriernummer

Field of Application <i>Anwendungsbereich</i>	products of water supply <i>Produkte der Wasserversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	Advanced Plastic Industries (API) s.a.l. Old NDU Road, Industrial Zone, RL- Zouk Mosbeh, Lebanon
Distributor <i>Vertreiber</i>	Advanced Plastic Industries (API) s.a.l. Old NDU Road, Industrial Zone, RL- Zouk Mosbeh, Lebanon
Product Category <i>Produktart</i>	plastic pipes for drinking water installations: PP-RCT manufacturing group 1 (8318)
Product Description <i>Produktbezeichnung</i>	PP-RCT manufacturing group 1
Model <i>Modell</i>	Apitherm Class 2, Class 5
Test Reports <i>Prüfberichte</i>	type testing: 105399/13 from 30.01.2014 (SKZ) KTW testing: KR 070/13 from 27.05.2013 (TZW) hygienic testing: MO 025/11 from 08.02.2010 (TZW)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 544 (01.05.2007) UBA KTW (07.10.2008) DVGW W 270 (01.11.2007)

FIGURE 04-A-EE

Date of Expiry / File No. 30.01.2019 / 13-0468-WNE
Ablaufdatum / Aktenzeichen

21.02.2014 GI A-1/2

Date, Issued by, Sheet, Head of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

DVGW CERT GmbH is an accredited body by DAkkS according to EN 45011:1998 for certification of products for energy and water supply industry.

DVGW CERT GmbH ist von der DAkkS nach DIN EN 45011:1998 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.



DVGW CERT GmbH
Zertifizierungsstelle

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Fax +49 228 91 88 - 993

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info@dvgw-cert.com

DVGW - GROUP 2

- Zweitschrift - duplicate - Zweitschrift - duplicate - Zweitschrift - duplicate - Zweitschrift - duplicate - Zweitschrift - duplicate -



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DW-8319CP0032

Registration Number
Registriernummer

Field of Application <i>Anwendungsbereich</i>	products of water supply <i>Produkte der Wasserversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	Advanced Plastic Industries (API) s.a.l. Old NDU Road, Industrial Zone, RL- Zouk Mosbeh, Lebanon
Distributor <i>Vertreiber</i>	Advanced Plastic Industries (API) s.a.l. Old NDU Road, Industrial Zone, RL- Zouk Mosbeh, Lebanon
Product Category <i>Produktart</i>	plastic pipes for drinking water installations: PP-RCT manufacturing group 2 (8319)
Product Description <i>Produktbezeichnung</i>	PP-RCT manufacturing group 2
Model <i>Modell</i>	Apitherm Class 2
Test Reports <i>Prüfberichte</i>	type testing: 105399/13 from 30.01.2014 (SKZ) KTW testing: KR 070/13 from 27.05.2013 (TZW) hygienic testing: MO 025/11 from 08.02.2010 (TZW)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 544 (01.05.2007) UBA KTW (07.10.2008) DVGW W 270 (01.11.2007)

1000304-A-06

Date of Expiry / File No. 30.01.2019 / 13-0468-WNE
Ablaufdatum / Aktenzeichen

21.02.2014 SI A-1/2

Date, Issued by, Sheet, Page of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

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ZERTIFIKAT



Certificate

SKZ-TeConA GmbH awards the following company

**Advanced Plastic Industries (API) s.a.l.
Seascope (Abu Dagher) Bldg, 3rd Floor
Dbayeh Highway, Sea Road
LEBANON**

Production plant: Advanced Plastic Industries (API) s.a.l., LB-KESROUAN

the right to use the **SKZ** testing and inspection mark



A 523

for the following plastic products

**Pressure pipes, group 1 and 2
Pipes made of polypropylene PP-RCT**

Trade name: Apitherm Class 2, Class 5 and Apitherm Class 2

SKZ specification for tests and inspection HR 3.34

Users of the SKZ mark are obliged to observe the required regulations for the production and testing of these products.

Date of initial certification: 14 September 2009

Date of expiry: 12 June 2019



Würzburg, 13 June 2014

i.V. 
Certification body

The original language of this certificate is German. In case of doubt, the German version is obligatory.

KTW FOR PP-RCT FITTINGS



TEST CERTIFICATE

Concerning the examination of tube samples PP-RCT, green (DW-8318CP0031) in accordance with the recommendations of the KTW-Guideline of Umweltbundesamt (UBA)

Period of Inspection: control test 2015
 Manufacturer: Advanced Plastic Industries s.a.l., P.O. Box 2161 Jounieh, Libanon
 Dimension: 32 x 4,4 mm
 Material identification: [RA 7050 – GN]
 Samples received: 08.06.2015
 Sampler: SKZ, Mr. Wissgott on 02.06.2015, SKZ-no. 5865
 TZW-reference-no.: KR 152/15

Test results

1. Material composition was given under KC 399/15 and approved
2. Testing of the material performed due to DVGW-Standard W 270: test report with TZW- no. MO 025/11 of 08.02.2011
3. Basic requirements:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m²d]	0,4	0,6	< 0,2	≤ 2,5

Warm water 60°C	1. extr.	2. extr.	3. extr.	6. extr.	7. extr.	Standard value for 7. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	nsa	nsa	≤ 4
C-migration [mg C/m²d]	2,5	1,7	1,0	1,7	1,2	≤ 2,5

The examined tube samples PP-RCT, green for the contact with drinking water comply with the requirements of KTW-Guideline of Umweltbundesamt (UBA) (Bundesgesundheitsblatt current version) in the range of tubes with DN < 80 mm.

According to the sampling protocol of 02.06.2014, SKZ, Mr. Wissgott, the following DVGW-certification numbers are to be applied: DW-8318CP0031 and DW-8319CP0032.

Remarks:

Reference to the original German text is recommended if necessary.

Karlsruhe, 30.07.2015


 Dr. J. Klingner / i.A. Dr.-Ing. R. Turkovic
 Head of the Test Centre

DVGW
 Technologiezentrum Wasser (TZW)
 Karlsruher Str. 84
 D-76139 Karlsruhe

The publication of this test certificate - completely or in parts - is not permitted except of written approval by the test centre

Das Technologiezentrum Wasser ist eine
 Einrichtung des DVGW Deutscher Verein
 des Gas- und Wasserfaches e. V.
 – Technisch-wissenschaftl. Verein –

Technologiezentrum Wasser
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 Wasserwerkstraße 4
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KTW FOR PP-RCT FITTINGS



TEST CERTIFICATE

Concerning the examination of "Fittings "Aptherm" (Ø 20mm and Ø 25mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green" in accordance with the KTW-Leitlinie des Umweltbundesamtes (UBA)

Manufacturer: Advanced Plastic Industries S.A.L., Dbayyeh, Libanon
 Type of the test material: PP-RCT quality green
 Brand Name of the test material: "Fittings "Aptherm" (Ø 20mm and Ø 25mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green"
 Type of the sample: original samples
 Samples received: 03.06.2015
 Sampler: manufacturer
 TZW-reference-no.: KR 149/15

Test results

1. Material composition: was given under KC 399/15 and approved
2. Migration test:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m ² d]	< 0,4	< 0,4	< 0,4	≤ 12,5

Warm water 60°C	1. extr.	2. extr.	3. extr.	6. extr.	7. extr.	Standard value for 7. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	nsa	nsa	≤ 4
C-migration [mg C/m ² d]	0,9	0,9	1,4	0,9	0,9	≤ 12,5

The examined samples "Fittings "Aptherm" (Ø 20mm and Ø 25mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green" comply with the requirements of KTW-Leitlinie des Umweltbundesamtes (UBA) (Bundesgesundheitsblatt current version) in the range of fittings for pipes of diameter DN < 80 mm (domestic installation).

Remarks:

This certificate expires on 11.08.2020, if not otherwise limited by product standards/certification reasons or by changes in the procedural conditions.

Reference to the original German text is recommended if necessary.

Karlsruhe, 13.08.2015

Dr. J. Klinger / i.A. Dr.-Ing. R. Turković
 Head of the Test Centre

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KTW FOR PP-RCT FITTINGS



TEST CERTIFICATE

Concerning the examination "Fittings "Apitherm" (Ø 90mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green" in accordance with the KTW-Leitlinie des Umweltbundesamtes (UBA)

Manufacturer: Advanced Plastic Industries S.A.L., Dbayyeh, Libanon
Type of the test material: PP-RCT quality green
Brand Name of the test material: "Fittings "Apitherm" (Ø 90mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green"
Type of the sample: original samples
Samples received: 03.06.2015
Sampler: manufacturer
TZW-reference-no.: KR 158/15

Test results

1. Material composition: was given under KC 399/15 and approved
2. Migration test:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m²d]	<0,6	<0,6	<0,6	≤ 25

Warm water 60°C	1. extr.	2. extr.	3. extr.	6. extr.	7. extr.	Standard value for 7. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	nsa	nsa	≤ 4
C-migration [mg C/m²d]	1,7	2,6	1,7	1,7	1,7	≤ 25

The examined samples "Fittings "Apitherm" (Ø 90mm as per list of 14.05.2015) produced with Borealis RA 7050 GN, green" comply with the requirements of KTW-Leitlinie des Umweltbundesamtes (UBA) (Bundesgesundheitsblatt current version) in the range of fittings for pipes of diameter 80 mm ≤ DN < 300 mm (supply pipes).

Remarks:

This certificate expires on 11.08.2020, if not otherwise limited by product standards/certification reasons or by changes in the procedural conditions.

Reference to the original German text is recommended if necessary.

Karlsruhe, 13.08.2015

Dr. J. Klinger / i.A. Dr.-Ing. R. Turković
Head of the Test Centre

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NL CONFORMITY MARK LICENSE

No. 01/2015

LIBNOR hereby grants to:

API (Advanced Plastic Industries) S.A.L
Zouk Mosbeh
LEBANON

In respect of:

Single Layer, Non Coextruded- Non Peelable, HDPE Pipes 100, for Size group 1: $dn < 75mm$ and size group 2: $75 \leq dn < 250$

According to:

NL EN 12201-2:2014*

Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 2: Pipes

The right and License to use the NL Conformity Mark in accordance with LIBNOR general scheme (P6P1-G1) governing the use of the NL conformity mark.

The use of the Conformity mark is authorized in respect of the product, manufactured at, or provided from, the address above and in conformity with the standard detailed above.

For and on behalf of LIBNOR:

GHAZIRI Habib, Chairman, LIBNOR.

رئيس مجلس الإدارة

المهندس حبيب غزيري

Date: 01/03/2015

First granted: 01/03/2015

Valid until: 28/02/2017

** The latest version adopted by LIBNOR is applicable*

The Lebanese standards Institution- LIBNOR

*Sin El Fil/Dekweneh, City Rama Street, LIBNOR BLDG; P.O Box: 55120 Sin El Fil- Lebanon;
Tel: +9611485927- Fax: +9611485929. E-mail: libnor@libnor.org Website: www.libnor.org*

KTW PE 100



KTW CERTIFICATE

Concerning the examination of tube samples PE 100, sSTRbl in accordance with the recommendations of the KTW-Leitlinie des Umweltbundesamtes (UBA)

Period of Inspection: Qualifying test 2014
Manufacturer: Advanced Plastic Industries s.a.l., P.O. Box 2161 Jounieh, Libanon
Dimension: 63 x 5,8 mm
Material identification: [BorSafe HE 3490-LS]
Samples received: 26.09.2014
Sampler: manufacturer
TZW-reference-no.: KR 241/14

Test results

1. Material composition: was given under KC 688/12, approved and confirmed
2. Testing of the material performed due to DVGW-Standard W 270: test report with TZW-no. MO 107/10 of 10.12.2010
3. Basic requirements:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m ² d]	0,9	< 0,4	< 0,4	≤ 2,5
Cl ₂ -consumption [mg Cl ₂ /m ² d]	0,7	0,4	0,2	


The examined tube samples PE 100, sSTRbl for the contact with drinking water comply with the requirements of KTW-Leitlinie des Umweltbundesamtes (UBA) (Bundesgesundheitsblatt current version) in the range of pipes with DN < 80 mm.

Remarks:

This certificate expires 5 years after the date of issue, if not otherwise limited by product standards/certification reasons or by changes in the procedural conditions.

Reference to the original German text is recommended if necessary.

Karlsruhe, 13.11.2014


Dr. J. Klinger / i.A. Dr.-Ing. R. Turkovic
Head of the Test Centre

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KTW PE 100



KTW CERTIFICATE

Concerning the examination of tube samples PE 100, sSTRbl in accordance with the recommendations of the KTW-Leitlinie des Umweltbundesamtes (UBA)

Period of Inspection: Qualifying test 2014
Manufacturer: Advanced Plastic Industries s.a.l., P.O. Box 2161 Jounieh, Libanon
Dimension: 110 x 10 mm
Material identification: [BorSafe HE 3490-LS]
Samples received: 26.09.2014
Sampler: manufacturer
TZW-reference-no.: KR 242/14

Test results

1. Material composition: was given under KC 688/12, approved and confirmed
2. Testing of the material performed due to DVGW-Standard W 270: test report with TZW-no. MO 107/10 of 10.12.2010
3. Basic requirements:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m ² d]	3,7	2,0	1,3	≤ 5
Cl ₂ -consumption [mg Cl ₂ /m ² d]	2,8	1,9	1,4	

The examined tube samples PE 100, sSTRbl for the contact with drinking water comply with the requirements of KTW-Leitlinie des Umweltbundesamtes (UBA) (Bundesgesundheitsblatt current version) in the range of pipes with 80 mm ≤ DN < 300 mm.

Remarks:

This certificate expires 5 years after the date of issue, if not otherwise limited by product standards/certification reasons or by changes in the procedural conditions.

Reference to the original German text is recommended if necessary.

Karlsruhe, 13.11.2014


Dr. J. Klinger / i.A. Dr.-Ing. R. Turkovic
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B1 FLAME RESISTANCE CERTIFICATION - ApiDrain



Prüfzeugnis

Dokumentnummer: (3681/866/12) – GB/Fe vom 21.02.2012

Auftraggeber: Advanced Plastic Industries (API) s.a.l.
Industrial Zone, Zouk Mosbeh
P.O.Box 2161
JOUNIEH, Lebanon
Libanon

Auftrag vom: 23.05.2012

Inhalt des Auftrags: Prüfungen zur Erlangung der Baustoffklasse B 1
(schwerentflammbar) nach DIN 4102-1 : 1998-05,
Abschnitt 6.1

Prüfgegenstand: Graue Kunststoffrohre aus Polypropylen bezeichnet als
"Polypropylen pipes"

Probeneingang: 21.12.2011

Probenahme: durch Auftraggeber

Geltungsdauer bis: 31. Juli 2016

Hinweis: Falls der oben genannte Baustoff nicht als Bauprodukt gemäß MBO § 2, Abs. 9, Ziffer 1 verwendet wird, ist ein allgemeines bauaufsichtliches Prüfzeugnis nicht erforderlich. Dieses Prüfzeugnis gilt nicht, wenn der geprüfte Baustoff als Bauprodukt im Sinne der Landesbauordnungen verwendet wird (MBO § 17, Abs. 3). Dieses Prüfzeugnis ersetzt nicht einen gegebenenfalls notwendigen baurechtlichen/bauaufsichtlichen Nachweis nach Landesbauordnung.

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- bei geregelten Bauprodukten für die vorgeschriebenen Übereinstimmungsnachweise
- bei nicht geregelten Bauprodukten für die erforderlichen Verwendbarkeitsnachweise.

Der Nachweis der Alterungsbeständigkeit nach DIN 4102-16, Ziffer 6.2 ist nicht erbracht.

Die Erläuterungen in DIN 4102-1 : 1998-05, Anhang D insbesondere zur Fremdüberwachung sind besonders zu beachten.

Dieses Prüfzeugnis umfasst 5 Seiten inkl. Deckblatt und 9 Anlagen.



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für das Bauwesen
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USt-ID-Nr. DE183500654
Steuer-Nr.: 14/201/22859
IBAN: DE5825050000106020050

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