



First Choice

WARRANTY

For Kalde Water Installation Systems with
PPR Pipes and Fittings (collectively 'Product' or 'Products')

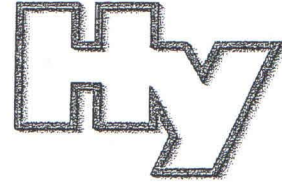
Kalde Klima Orta Basinc ve Valf Sanayii A.S.'s ("Kalde") Products are manufactured according to international standards and they particularly conform to the DIN norms. This Limited Warranty provides that, subject to the following limitations, each Kalde Product will be free from defects in material and workmanship and will conform to Kalde's specification for the particular Product. Your exclusive remedy for any defective Product is limited to the repair or replacement of the defective Product within fifty (50) years from the date of purchase. If Kalde is unable to repair or replace, as applicable, a defective Product which is covered by this Limited Warranty, Kalde shall, within a reasonable time refund the purchase price of the Product.

This Limited Warranty covers only those defects that arise as a result of normal use, Kalde shall not be liable for any defects that are caused by the neglect, abuse, misuse or mistreatment by anyone or any entity other than Kalde, including but not limited to, improper installation or testing, user's flawed designs or specifications, unsatisfactory applications, use in conjunction with incompatible materials, contact with aggressive chemical agents, freezing or overheating of liquids in the product and any other neglect or misuse. This Limited Warranty shall be void if the Product fails to function properly as a result of any force majeure (i.e. earthquakes, flood, fire etc.) This Limited Warranty also specifically excludes failure or damage caused by fire stopping materials, tread sealants, plasticized vinyl products or damage caused by the fault or negligence of anyone other than Kalde, or defects that are caused by any Products that have been altered or modified in any way by a person or entity other than Kalde. Products must be used in accordance with standards, regulations and the applicable standards, failure to adhere to these standards shall void this Limited Warranty. Kalde shall have sole and absolute authority to decide whether the Product is covered under the Limited Warranty.

Kalde shall have a reasonable time to repair or replace a defective Product, after determining that a defective Product exists. Kalde's replacement Product under its Limited Warranty will be manufactured from new and serviceable used parts. Kalde's warranty applies to repaired or replaced Products for the balance of the applicable period of the original warranty or ninety days from the date of shipment of a repaired or replaced Product, whichever is longer. For warranty application the end-user must present the purchase invoice.

Kalde's entire liability for any defective Product shall in no event exceed the purchase price for the defective Product. There are no warranties which extend beyond the face of Kalde's Limited Warranty. Kalde specifically disclaims all other warranties, express or implied, regarding the Products, including any implied warranties of merchantability, fitness for a particular purpose or satisfactory quality. In no event shall Kade or its third party suppliers be liable for direct, indirect, special, collateral, punitive, incidental or consequential damages. No claim or suit or action shall be brought against Kalde more than one year after the related cause of action has occurred. The foregoing liability limitations are essential elements of this Limited Warranty. No course of dealing or trade usage or course of performance shall be relevant to explain or supplement any term in this Limited Warranty. No addition to or modification of any provision of This Limited Warranty shall be binding upon Kalde unless made in writing and signed by Kalde Klima Orta Basinc ve Valf Sanayii A.Ş. This Limited Warranty shall be governed by and construed under the law of Republic of Turkey, without regard to the conflict of law principles thereof. All disputes arising out of or relating to this Limited Warranty shall be adjudicated at Istanbul Merkez Mahkemeleri, Turkey. Kalde doesn't provide any warranty to Products sold to U.S. and Canada.

NOTE: Kalde carries a Products Liability Insurance Policy from ERGO AŞ. that provides for EURO 2,000,000 per year to cover any third-party legal liability. For insurance application the internationally approved procedures are required. This Products Liability Insurance Policy does not include the damage claims made in connection with the (direct or indirect) sales made to countries that have been placed an embargo by USA or EU countries (including the OFAC countries). Kalde keeps the right to ask for any supplementary document necessary to approve damage indemnity.



TEST CERTIFICATE

on the propagation of microorganisms
on the surface of materials used in the area of drinking water
pursuant to the statutory provision DVGW Technische Regeln (technical directions),
work sheet W 270 as of November 1999

Client: SABIC Polypropylenes B.V.
Technical Marketing PP Moulding &
Extrusion
P.O Box 319
The Netherlands
Oude Postbaan 1
Geleen
NL

Test material: Sabic Vestolen P 9421-66408 (grün)

Test method: material test

According to test report Dir.Tgb.-Nr. W-124495-04-SI from 30/12/2004, the material **Sabic Vestolen P 9421-66408 (grün)** referred to above is conform to the requirements for the use in the area of drinking water pursuant to work sheet W 270 of the statutory provision DVGW.

Gelsenkirchen, 30/12/2004

Der Direktor des Instituts
(Director of the Institute)
on behalf

(Priv.-Doz. Dr. G.-J. Tuschewitzki)

Durch die DAP Deutsches Akkreditierungssystem Prüfwesen
GmbH akkreditiertes Prüflaboratorium
Die Akkreditierung gilt für die in der Urkunde
aufgeführten Prüfverfahren.

Deutscher Akkreditierungsrat

DAR

DAP-PL-2548.00

This test certificate shall become valid upon date of issue and shall expire on 30/12/2009, provided that conditions and requirements remain unaltered. The validity of the test report may be extended on application up to a maximum term of 10 years.

The present test certificate may only be published without prior written consent of the *Hygiene-Institut* if it remains unabridged and unaltered. Any reference to the test report for publicity purposes (product descriptions) must include the specifications regarding the conditions of application and storing of the analysed specimens. The present test report is valid on condition that the composition of the material as well as the conditions of application remain unaltered. This test certificate is no DVGW-certification.



TÜRK STANDARDI
TURKISH STANDARD

TS 275-2 ENV 1329-2

Nisan 2003

ICS 23.040.01;91.140.80

**PLÂSTİK BORU SİSTEMLERİ – BİNA İÇİ ATIK SULARIN
(SICAK VE SOĞUK) ATILMASINDA KULLANILAN –
PLÂSTİKLEŞTİRİCİ KATILMAMIŞ POLİVİNİL KLORÜRDEN
(PVC-U) YAPILAN – BÖLÜM 2: UYGUNLUK
DEĞERLENDİRMESİ KILAVUZU**

Plastics piping systems for soil and waste discharge (low and high temperature) within building structure – Unplasticized poly (vinyl chloride) (PVC-U) – Part 2 : Guidance for the assessment of conformity

TÜRK STANDARDLARI ENSTİTÜSÜ
Necatibey Caddesi No.112 Bakanlıklar/ANKARA

1

- Bugünkü teknik ve uygulamaya dayanılarak hazırlanmış olan bu standardın, zamanla ortaya çıkacak gelişme ve değişikliklere uydurulması mümkün olduğundan ilgililerin yayınları izlemelerini ve standardın uygulanmasında karşılaştıkları aksaklıkları Enstitümüze iletmelerini rica ederiz.
- Bu standardı oluşturan Hazırlık Grubu üyesi değerli uzmanların emeklerini; tasarılar üzerinde görüşlerini bildirmek suretiyle yardımcı olan bilim, kamu ve özel sektör kuruluşları ile kişilerin değerli katkılarını şükranla anarız.



Kalite Sistem Belgesi

İmalât ve hizmet sektörlerinde faaliyet gösteren kuruluşların sistemlerini TS EN ISO 9000 Kalite Standardlarına uygun olarak kurmaları durumunda TSE tarafından verilen belgedir.



Türk Standardlarına Uygunluk Markası (TSE Markası)

TSE Markası, üzerine veya ambalajına konulduğu malların veya hizmetin ilgili Türk Standardına uygun olduğunu ve mamulle veya hizmetle ilgili bir problem ortaya çıktığında Türk Standardları Enstitüsü'nün garantisi altında olduğunu ifade eder.



Kalite Uygunluk Markası (TSEK Markası)

TSEK Markası, üzerine veya ambalajına konulduğu malların veya hizmetin henüz Türk Standardı olmadığından ilgili milletlerarası veya diğer ülkelerin standardlarına veya Enstitü tarafından kabul edilen teknik özelliklere uygun olduğunu ve mamulle veya hizmetle ilgili bir problem ortaya çıktığında Türk Standardları Enstitüsü'nün garantisi altında olduğunu ifade eder.

DİKKAT!

TS işareti ve yanında yer alan sayı tek başına iken (TS 4600 gibi), mamulün Türk Standardına uygun üretildiğine dair üreticinin beyanını ifade eder. **Türk Standardları Enstitüsü tarafından herhangi bir garanti söz konusu değildir.**

Standardlar ve standardizasyon konusunda daha geniş bilgi Enstitümüzden sağlanabilir.

TÜRK STANDARDLARININ YAYIN HAKLARI SAKLIDIR.



DVGW-Baumusterprüfzertifikat

DVGW type examination certificate

DW-8317CM0039

Registriernummer
registration number

Anwendungsbereich <i>field of application</i>	Produkte der Wasserversorgung <i>products of water supply</i>
Zertifikatinhaber <i>owner of certificate</i>	Kalde Klima Orta Basınç Fittings ve Valf Sanayi A.S. Mermerciler San. Sitesi 8 Cad no 7, TR-34524 Beylikdüzü Istanbul
Vertreiber <i>distributor</i>	Kalde Klima Orta Basınç Fittings ve Valf Sanayi A.S. Mermerciler San. Sitesi 8 Cad no 7, TR-34524 Beylikdüzü Istanbul
Produktart <i>product category</i>	Kunststoffrohre für die Trinkwasserinstallation: PP-R, SDR 6 (8317)
Produktbezeichnung <i>product description</i>	Kunststoffrohr aus PP-R für die Trinkwasserinstallation
Modell <i>model</i>	kalde PP-R
Prüfberichte <i>test reports</i>	Baumusterprüfung: 88265/10 vom 08.02.2011 (SKZ) KTW-Prüfung: KR 106/10 vom 17.08.2010 (TZW) Mikrobiologische Prüfung: MO 120/10 vom 25.11.2010 (TZW)
Prüfgrundlagen <i>test basis</i>	DVGW W 544 (01.05.2007) UBA KTW (16.05.2007) DVGW W 270 (01.11.2007)

Ablaufdatum / AZ
date of expiry / file no.

08.02.2016 / 10-0135-WNE

28.02.2011 GI A-1/2

Datum, Belegnr. Blatt, Seite der Zertifizierungsstelle
date, issued by, sheet, head of certification body

DVGW CERT GmbH - von der Deutschen Akkreditierungsstelle Technik (DATech) in der TGA GmbH akkreditiert für die Konformitätsbewertung von Produkten der Gas- und Wasserversorgung

DVGW CERT GmbH - accredited by Deutsche Akkreditierungsstelle Technik (DATech) in the TGA GmbH for conformity assessment of products of gas and water supply



DVGW CERT GmbH
Josef-Wirmer-Straße 1-3
53129 Bonn

Telefon: +49 228 91 88-886
Telefax: +49 228 91 88-993
eMail: info@dvgw-cert.com

Typ <i>type</i>	Technische Daten <i>technical data</i>	Bemerkungen <i>remarks</i>
kalde PP-R	Fertigungsgruppe: 1	Abmessungen: 10 bis 63 mm.



DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DW-8317CM0039

Registration Number
Registriernummer

Field of Application <i>Anwendungsbereich</i>	products of water supply <i>Produkte der Wasserversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	Kalde Klima Orta Basınc Fittings ve Valf Sanayi A.S. Mermerciler San. Sitesi 8 Cad no 7, TR-34524 Beylikdüzü Istanbul
Distributor <i>Vertreiber</i>	Kalde Klima Orta Basınc Fittings ve Valf Sanayi A.S. Mermerciler San. Sitesi 8 Cad no 7, TR-34524 Beylikdüzü Istanbul
Product Category <i>Produktart</i>	plastic pipes for drinking water installations: PP-R, SDR 6 (PN 20) (8317)
Product Description <i>Produktbezeichnung</i>	plastic pipe made of PP-R for the drinking water installation
Model <i>Modell</i>	kalde PP-R
Test Reports <i>Prüfberichte</i>	type testing: 88265/10 from 08.02.2011 (SKZ) KTW testing: KR 106/10 from 17.08.2010 (TZW) hygienic testing: MO 120/10 from 25.11.2010 (TZW)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 544 (01.05.2007) UBA KTW (16.05.2007) DVGW W 270 (01.11.2007)

Date of Expiry / File No. 08.02.2016 / 10-0135-WNE
Ablaufdatum / Aktenzeichen

28.02.2011 G/A12

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

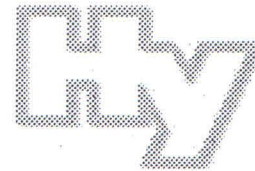
DVGW CERT GmbH - accredited by Deutsche Akkreditierungsstelle Technik (DA Tech) in the TGA GmbH for conformity assessment of products of gas and water supply

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Josef-Wirmer-Straße 1-3
53123 Bonn
Telefon: +49 228 91 88-888
Telefax: +49 228 91 88-993
eMail: info@dvw-cert.com

Type	Technical Data	Remarks
Typ	Technische Daten	Bemerkungen
kalde PP-R	manufacturing group: 1	diamters: 10 up to 63 mm



Hygiene-Institut des Ruhrgebiets

SABIC EuroPetrochemicals BV
PO Box 604

6160 AP Geleen (Holland)

Dir. Tgb. Nr. W 2574e/02/Tu
Tel.: 0208/9242.800
Fax: 0208/9242.822

August 16th, 2002

TEST REPORT
according to the DVGW-Recommendation

On the growth of microorganisms on materials
intended for use in drinking water systems

Examination and assessment following the regulations of the DVGW*,
Technical Rules, Method W 270, November 1999

-English Version of our test report, dated 16.08.2002, W 2392a/2002/Tu-

Applicant: SABIC EuroPetrochemicals BV
PO Box 604
6160 AP Geleen (Holland)

Product: Vestolen P9421/60130 weiß

Manufacturing
of test sample: at applicant

Receipt of test sample: February 5th 2002

* DVGW: German Association of Gas and Water

The test samples were exposed to flowing potable water for 20 hours, subsequently they were disinfected during ½ an hour immersion into a chlorine bleaching bath (1% sodium hypochlorite solution) and then rinsed with tap water.

Time of Exposure:

First Test period: from February 11th 2002 to May 13th 2002

Second Test period: from May 13th 2002 to August 14th 2002

Test Conditions:

The test followed the recommendations given in the method W 270 of the DVGW. The sample surfaces examined were 918 cm² in each period.

The exposure lasted six months and was carried out in a 60 liter reservoir. Groundwater of potable quality flowed through continuously. Within 24 hours a complete change of water took place between 4 and 6 times. The temperature of the water was between 9,0 and 12,0°C.

After three and six months the surface growth of microorganisms (slime) on both test plates, as well as on the negative control (stainless steel) and on the positive control (paraffin), was scraped off and examined. Contact cultures with nutrient agar and Sabouraud agar were also taken from all samples, incubated for two and five days respectively at 20 °C and examined for growth of bacterial colonies or fungi respectively.

Results:

After both test periods, the exposed paraffin samples used as positive control showed distinct microbial slime formation (limit ≥ 6 ml /800 cm²).

Neither the stainless steel samples used as negative control nor the test samples with a total surface area of 91 800 mm² showed visible surface growth of microorganisms after scraping.

The tested samples showed a definite firmly adhering surface colonization of bacteria and fungi as was evident by contact cultures, but neither showed excessive microbial growth (slime formation).

There were no signs of bactericidal or fungicidal properties detected.

Assessment:

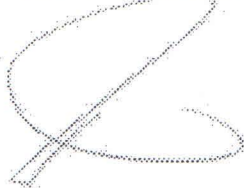
The test about the microbiological behaviour prove that the tested

Vestolen P9421/60130 weiß

is suitable for use in potable water systems according to the DVGW Working sheet W 270.

The Director of the Institut

L.A.



(Priv.-Doz. Dr. G.-J. Tuschewitzki)



This test certificate is valid as long as the quality of the manufactured product corresponds to that of the material tested, with regard to the raw materials, composition and processing.



TÜRK STANDARDI
TURKISH STANDARD

TS 275-1 EN
1329-1
Nisan 1999

ICS 23.040.20;23.040.45,91.140.80

1. Baskı

**PLASTİK BORU SİSTEMLERİ- BİNA İÇİ ATIK SULARIN
(PVC-U) YAPILMIŞ- BÖLÜM 1: BORULAR EKLEME
PARÇALARI VE SİSTEMİN ÖZELLİKLERİ**

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure unplasticized poly (vinyl chloride) (PVC-U) Part 1: Requirements for pipes fittings and the systems

TÜRK STANDARDLARI ENSTİTÜSÜ
Necatibey Caddesi No.112 Bakanlıklar/ANKARA

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Standardlar ve standardizasyon konusunda daha geniş bilgi Enstitümüzden sağlanabilir.

TÜRK STANDARDLARININ YAYIN HAKLARI SAKLIDIR.



ΕΥΡΩΠΑΪΚΗ ΕΤΑΙΡΙΑ ΕΛΕΓΧΩΝ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΕΩΝ Α.Ε.
EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.

CERTIFICATE OF QUALITY MANAGEMENT SYSTEM

CERTIFICATE No.: 1347/007/09

THIS IS TO CERTIFY THAT THE MANAGEMENT SYSTEM OF

«KALDE KLİMA ORTA BASINÇ FITTINGS VE VALF SAN. A.Ş.»
BEYMER SAN MERKEZLERİ SAN. GİTESİ B. CAD. NO:9 BEYLİKDÖZÜ-İSTANBUL / TÜRKİYE

HAS BEEN FOUND TO CONFORM TO THE STANDARD

ISO 9001:2000

THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE:

**GENEL AMAÇLI FITTINGLERİN TASARIMI, ÜRETİMİ, SATIŞI VE PAZARLANMASI
(EUROKONİK SİSTEM FITTINGLERİ, ALPE-X VİDALI SİSTEM FITTINGLERİ,
PE-X SİSTEM FITTINGLERİ, PRES SİSTEM FITTINGLERİ,
POLİPROPİLEN BORU VE FITTINGLERİ, CAM-ELYAF TAKVİYELİ POLİPROPİLEN
BORU, BAKIR BORU FITTINGLERİ, METAL VE POLİPROPİLEN KÜRESEL VANALAR,
KOLLEKTÖRLER, PANEL RADYATÖR, HAVLUPAN RADYATÖR PVC-U ATIK SU BORU
VE BAĞLANTI PARÇALARI).**

THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE:

**GENERAL PURPOSE FITTINGS DESIGN, MANUFACTURING, SALES AND MARKETING
(EUROCONIC SYSTEM FITTINGS, ALPE-X SCREW SYSTEM FITTINGS,
PE-X SYSTEM FITTINGS, PRESS SYSTEM FITTINGS, POLYPROPYLENE PIPE AND
FITTINGS, PP MULTILAYER PIPE (PPR/FIBERGLAS/PPR), COPPER PIPE FITTINGS,
METAL AND POLYPROPYLENE BALL VALVE, MANIFOLDS, STEEL PANEL
RADIATOR, TOWEL RADIATOR, PVC-U WASTE WATER PIPE AND FITTINGS).**

Date of 1st Issue: Athens, 2004-07-08

Date of 2nd Issue: Athens, 2007-07-06

Revision Date: Athens, 2008-08-14

Date of 3rd Issue: Athens, 2009-07-07

This Certificate is valid till: 2013-07-06

For the Certification Body



GEORGE N. SIFONTAS
DIRECTOR OF DEVELOPMENT

Lack of fulfillment of the conditions set out in the contract No. 20.04/2007 may render this certificate invalid



Certification of MS
Cert. No. 32

ISO 9001:2000 / ISO 14001:2004 / ISO 22000:2005 / ISO 26000:2010
Tel: +30 210 62.02.495 / Fax: +30 210 62.02.927 / E-mail: +30 210 62.02.619
www.esyd.com.gr / www.certification.gr



ATTA 1621014/09/2009