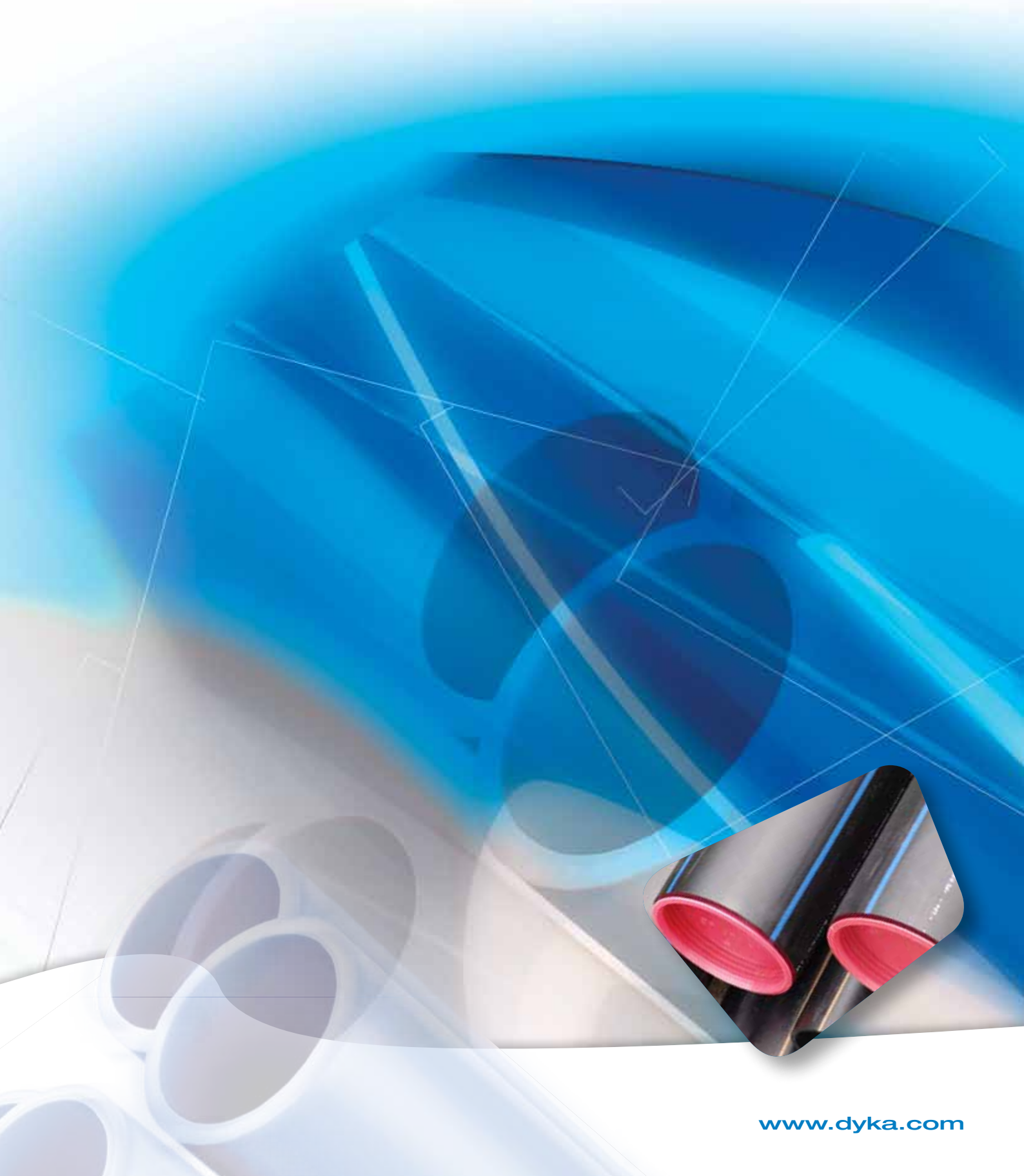


Pressure pipes





STOCK YARD



DYKA PLANT

AT DYKA

We proudly state that we can provide you “just-in-time” with all possible solutions for your specific requirements related to plastic pipe systems. Our “no-nonsense” statement is based on the following impressive figures and facts: The DYKA premises near the town of Steenwijk in the Netherlands, solely occupies some 180.000 m². A full-service plant with automated production lines, special engineering department, quality control, research & development, storage and logistics.

Injection moulding.

Our large number of special moulding machines do produce more than 44 million items per year, in any size and shape.

Thermo forming.

Flexibility and enormous innovative capacity offered by thermo forming have resulted in our company’s impressive range of plastic fittings. A product range that still offers ample potential for expansion, new applications are continually being discovered, and other plastics are being tested for their suitability for this renowned manufacturing technology.

Extrusion.

Excellent tuned extrusion lines do assure the non-stop production of pipes and conduits in every possible colour, diameter and specific technical specifications. Total output: more than 55.000 kilometres of plastic pipes per year!

Storage & Logistics.

Every day, full truck-loads and containers are shipped from our production plants in Europe, by road, air, train and waterway to satisfy the needs of our customers all over the world.

Export Sales.

Our eager export staff is only too willing to serve and assist you with technical advice, customs documents and after-sales service.

Whatever you might need AT DYKA, we can do it for you!

General information about HDPE pressure pipes

PE is classified based on raw materials and pressure grade.

PE for potable water applications:

- HDPE can be used for distribution pipelines and for connection to the watermeter/ manifold. Pipes are produced according to the EN 12201. Within this standard there are metric sizes applicable.

PE Industrial and pressure sewers:

- Pipes are produced according to the EN 13244

HDPE raw material classification:

The classification number used for PE raw material types is dimensionless and is equal to the MRS (Minimum Required Strength) value multiplied by 10. The MRS value is the minimum required tangential wall stress (Sigma value) in N/mm² that the material in pipe form must be able to withstand for 50 years at 20°C.

The permissible tangential wall stress (TS) is found by dividing the MRS value by the safety factor (SF). For PE 80 and PE 100 (water) this factor is 1.25, as applicable in the EN 12201

Classification PE-Type	MRS (N/mm ²) at 20°C	TS (N/mm ²) at 20°C permissible.
PE 80	8.0	6.3
PE 100	10.0	8.0

Pipe identification- Conversion of pressure grades:

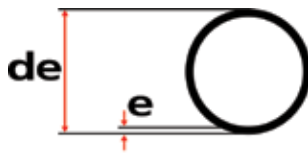
Pipes and fittings are identified by their SDR (Standard Dimension Ratio). This is the exterior diameter divided by the wall thickness. E.g. pipe Ø 110 mm with wall thickness 10 mm = SDR 11, the same pipe but with wall thickness 6.3 mm = SDR 17.6. From the combination of the SDR with material used (e.g. raw material type PE 80 or PE 100) the corresponding pressure grade (PN) can be derived by using table A. E.g. pipe SDR 11 made from raw material PE 80 allows a pressure (PN) of 12.5 bar. If the same pipe were to be manufactured from raw material PE 100 then the pressure resistance (PN) may increase to 16 bar.

Notes on HDPE pressure fittings:

1. HDPE pressure fittings SDR 17/17.6 can be welded to both SDR 17 pipes and to SDR 17.6 pipes (both for mirror- and electro fusion welds)!
2. HDPE pressure fittings PE 100 can be welded to both PE 80 pipes and to PE 100 pipes (both for mirror- and electro fusion welds)!

Important note relating to welding HDPE pressure pipes and pressure fitting:

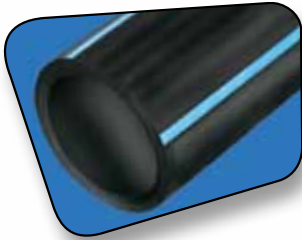
To make a correct mirror weld, the wall thickness of the fitting must be equal to that of the pipe. Therefore the SDR class of the pipe must be in correspondence with the SDR class of the fitting.



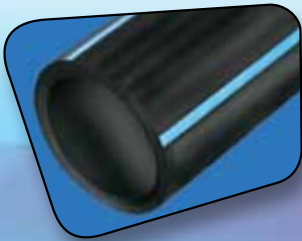
$$SDR = \frac{de}{e}$$

$$ISO-S = \frac{SDR-1}{2}$$

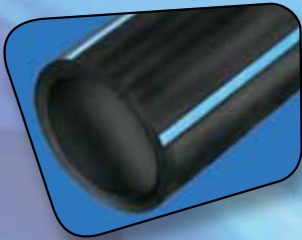
		PE80	PE100
Safety factor (SF)		SF 1.25	SF 1.25
SDR	ISO-S	Nominal pressure (PN)	
		Water 20°C 50 years	
33	16	4	5
17.6	8.3	7.6	9.6
17	8	8	10
13.6	6.3	10	12.5
11	5	12.5	16



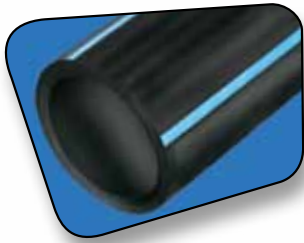
Potable water PE80 SDR17	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE80 32x2,0 SDR 17 KIWA			•	•
Potable water PE80 40x2,4 SDR 17 KIWA			•	•
Potable water PE80 50x3,0 SDR 17 KIWA			•	•
Potable water PE80 63x3,8 SDR 17 KIWA	•	•	•	•
Potable water PE80 75x4,5 SDR 17 KIWA	•	•	•	•
Potable water PE80 90x5,4 SDR 17 KIWA	•	•	•	•



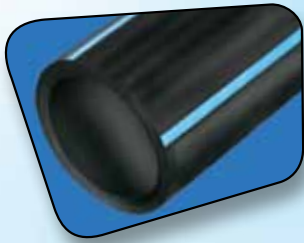
Potable water PE80 SDR13,6	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE80 25x2,0 SDR 13,6 KIWA			•	•
Potable water PE80 32x2,4 SDR 13,6 KIWA			•	•
Potable water PE80 40x3,0 SDR 13,6 KIWA			•	•
Potable water PE80 50x3,7 SDR 13,6 KIWA			•	•
Potable water PE80 63x4,7 SDR 13,6 KIWA	•	•	•	•
Potable water PE80 75x5,6 SDR 13,6 KIWA	•	•	•	•
Potable water PE80 90x6,7 SDR 13,6 KIWA	•	•	•	•



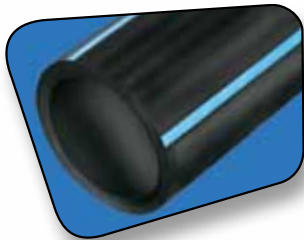
Potable water PE80 SDR11	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE80 20X 2,0 SDR11 KIWA			•	•
Potable water PE80 25X 2,4 SDR11 KIWA			•	•
Potable water PE80 32X 3,0 SDR11 KIWA	•		•	•
Potable water PE80 40X 3,7 SDR11 KIWA	•		•	•
Potable water PE80 50X 4,6 SDR11 KIWA	•		•	•
Potable water PE80 63X 5,8 SDR11 KIWA	•	•	•	•
Potable water PE80 75X 6,8 SDR11 KIWA	•	•	•	•
Potable water PE80 90X 8,2 SDR11 KIWA	•	•	•	•



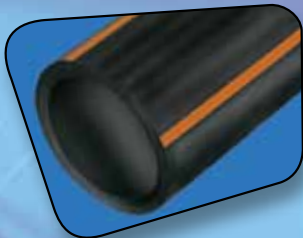
Potable water PE100 SDR17	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X 6,6 SDR17 KIWA	•	•	•	•
Potable water PE100 125X 7,4 SDR17 KIWA	•	•	•	•
Potable water PE100 160X 9,5 SDR17 KIWA	•	•		
Potable water PE100 200X11,9 SDR17 KIWA	•	•		
Potable water PE100 225X13,4 SDR17 KIWA		•		
Potable water PE100 250X14,8 SDR17 KIWA	•	•		
Potable water PE100 280X16,6 SDR17 KIWA		•		
Potable water PE100 315X18,7 SDR17 KIWA	•	•		
Potable water PE100 355X21,1 SDR17 KIWA	•	•		
Potable water PE100 400X23,7 SDR17 KIWA	•	•		
Potable water PE100 450X26,7 SDR17 KIWA	•	•		
Potable water PE100 500X29,7 SDR17 KIWA	•	•		
Potable water PE100 560X33,2 SDR17 KIWA	•	•		
Potable water PE100 630X37,4 SDR17 KIWA	•	•		



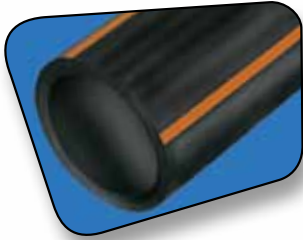
Potable water PE100 SDR13,6	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X8,1 SDR 13,6 KIWA	•	•	•	•
Potable water PE100 125X9,2 SDR 13,6 KIWA	•	•	•	•
Potable water PE100 160X11,8 SDR 13,6 KIWA	•	•		
Potable water PE100 200X14,7 SDR 13,6 KIWA	•	•		
Potable water PE100 250X18,4 SDR 13,6 KIWA	•	•		
Potable water PE100 315X23,2 SDR 13,6 KIWA	•	•		
Potable water PE100 355X26,1 SDR 13,6 KIWA	•	•		
Potable water PE100 400X29,4 SDR 13,6 KIWA	•	•		
Potable water PE100 450X33,1 SDR 13,6 KIWA	•	•		
Potable water PE100 500X36,8 SDR 13,6 KIWA	•	•		
Potable water PE100 560X41,2 SDR 13,6 KIWA	•	•		
Potable water PE100 630X46,3 SDR 13,6 KIWA	•	•		



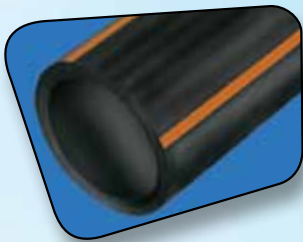
Potable water PE100 SDR11	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X10,0 SDR11 KIWA	•	•	•	•
Potable water PE100 125X11,4 SDR11 KIWA	•	•	•	•
Potable water PE100 160X14,6 SDR11 KIWA	•	•		
Potable water PE100 200X18,2 SDR11 KIWA	•	•		
Potable water PE100 225X20,5 SDR11 KIWA		•		
Potable water PE100 250X22,7 SDR11 KIWA	•	•		
Potable water PE100 280X25,4 SDR11 KIWA		•		
Potable water PE100 315X28,6 SDR11 KIWA	•	•		
Potable water PE100 355X32,3 SDR11 KIWA	•	•		
Potable water PE100 400X36,4 SDR11 KIWA	•	•		
Potable water PE100 450X41,0 SDR11 KIWA	•	•		
Potable water PE100 500X45,5 SDR11 KIWA	•	•		



Pressure sewerage PE100 SDR17	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32X 2,0 SDR17 KOMO			•	•
Pressure sewerage PE100 40X 2,4 SDR17 KOMO			•	•
Pressure sewerage PE100 50X 3,0 SDR17 KOMO			•	•
Pressure sewerage PE100 63X 3,8 SDR17 KOMO	•	•	•	•
Pressure sewerage PE100 75X 4,5 SDR17 KOMO	•	•	•	•
Pressure sewerage PE100 90X 5,4 SDR17 KOMO	•	•	•	•
Pressure sewerage PE100 110X 6,6 SDR17 KOMO	•	•	•	•
Pressure sewerage PE100 125X 7,4 SDR17 KOMO	•	•	•	•
Pressure sewerage PE100 140X8,3 SDR17 KOMO	•	•		
Pressure sewerage PE100 160X 9,5 SDR17 KOMO	•	•		
Pressure sewerage PE100 180X10,7 SDR17 KOMO	•	•		
Pressure sewerage PE100 200X11,9 SDR17 KOMO	•	•		
Pressure sewerage PE100 225X13,4 SDR17 KOMO	•	•		
Pressure sewerage PE100 250X14,8 SDR17 KOMO	•	•		
Pressure sewerage PE100 280X16,6 SDR17 KOMO	•	•		
Pressure sewerage PE100 315X18,7 SDR17 KOMO	•	•		
Pressure sewerage PE100 355X21,1 SDR17 KOMO	•	•		
Pressure sewerage PE100 400X23,7 SDR17 KOMO	•	•		
Pressure sewerage PE100 450X26,7 SDR17 KOMO	•	•		
Pressure sewerage PE100 500X29,7 SDR17 KOMO	•	•		
Pressure sewerage PE100 560X33,2 SDR17 KOMO	•	•		
Pressure sewerage PE100 630X37,4 SDR17 KOMO	•	•		



Pressure sewerage PE100 SDR13,6	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32x2,4 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 40X3,0 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 50X3,7 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 63X4,7 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 75X5,6 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 90X6,7 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 110X8,1 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 125X9,2 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 160X11,8 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 200X14,7 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 250X18,4 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 315X23,2 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 355X26,1 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 400X29,4 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 450X33,1 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 500X36,8 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 560X41,2 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 630X46,3 SDR 13,6 KOMO	•	•		



Pressure sewerage PE100 SDR11	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32X 3,0 SDR11 KOMO			•	•
Pressure sewerage PE100 40X 3,7 SDR11 KOMO			•	•
Pressure sewerage PE100 50X 4,6 SDR11 KOMO			•	•
Pressure sewerage PE100 63X 5,8 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 75X 6,8 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 90X 8,2 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 110X10,0 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 125X11,4 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 140X12,7 SDR11 KOMO	•	•		
Pressure sewerage PE100 160X14,6 SDR11 KOMO	•	•		
Pressure sewerage PE100 180X16,4 SDR11 KOMO	•	•		
Pressure sewerage PE100 200X18,2 SDR11 KOMO	•	•		
Pressure sewerage PE100 225X20,5 SDR11 KOMO	•	•		
Pressure sewerage PE100 250X22,7 SDR11 KOMO	•	•		
Pressure sewerage PE100 280X25,4 SDR11 KOMO	•	•		
Pressure sewerage PE100 315X28,6 SDR11 KOMO	•	•		
Pressure sewerage PE100 355X32,2 SDR11 KOMO	•	•		
Pressure sewerage PE100 400X36,3 SDR11 KOMO	•	•		
Pressure sewerage PE100 450X40,9 SDR11 KOMO	•	•		
Pressure sewerage PE100 500X45,4 SDR11 KOMO	•	•		

certificates

Certificates can contain more than one page.
A full set of our certificates can be obtained from our website

BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION **BENOR**

Aarlenstraat 53, B-1040 BRUSSEL, Tel.: +32 2 238 24 11 Fax.: +32 2 238 24 01

BCCA

CERTIFICAAT VAN OVEREENKOMSTIGHEID

BB - 651 - 202 - 13244 - P. D1 - 202
BB - 651 - 202 - 13244 - P. D2 - 202

BCCA verklaart dat wordt vastgesteld dat de aanvrager:

DYKA PLASTICS n.v.
Nolimpark 4004
3900 Overpelt (B)

de nodige maatregelen heeft om te bewerkstelligen dat de producten:

BUIZEN VAN POLYETHYLEEN (PE) ONDER DRUK
voor de diametergroepen D1 en D2
vervaardigd in de productie-eenheid

Dyka Plastics NV
Nolimpark 4004
3900 Overpelt (B)

beantwoorden aan zijn specificatie, overeenkomstig de regels van de norm: NBN 13244-1 kunststofleidingssystemen van polyethyleen (PE) voor bovengronds en ondergronds afvoer van afvalwater en rioolwater onder druk en de PTV 1002

Het certificaat is toegelicht op basis van het onderzoek en de beoordeling van de relevante technische typeproeven (TT), uitgevoerd op overeenkomstige monsters, genomen in de productie-eenheid, en op basis van de in het kader van de productie en het productieproces (PTC).

BCCA bevestigt dat de productie en productie-eenheid aan een adequate productbeheersingssysteem en dat het regelmatig (proeven) afkomstig te nemen monsters genomen op de productie volgens een vastgesteld toetsregime.

BCCA heeft toezicht op de productie en de productie-eenheid via een passende PTC-systeem, periodieke toezicht van de afwerkingsgegevens en certificeringen in een apart document.

Op basis van het toezicht en het toezicht van het certificaat in de productie gemachtigd gebruik te maken van het BENOR-merk en de vermelding van zijn product in adverteerders.

Overeenkomstig certificaat heeft in rechte vanaf 1603011 en 1603012 om het overeenkomstig toezicht van de relevante specificaties en de ingesloten monsternummers.

Opgemaakt te Brussel op: 1603011



V. De Blaere
Directeur Generaal



BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION **BENOR**

Aarlenstraat 53, B-1040 BRUSSEL, Tel.: +32 2 238 24 11 Fax.: +32 2 238 24 01

BCCA

CERTIFICAAT VAN OVEREENKOMSTIGHEID

BB - 651 - 202 - 12201 - P. D1 - 202
BB - 651 - 202 - 12201 - P. D2 - 202

BCCA verklaart dat wordt vastgesteld dat de aanvrager:

DYKA PLASTICS n.v.
Nolimpark 4004
3900 Overpelt (B)

de nodige maatregelen heeft om te bewerkstelligen dat de producten:

BUIZEN VAN POLYETHYLEEN (PE) ONDER DRUK
voor de diametergroepen D1 en D2
vervaardigd in de productie-eenheid

Dyka Plastics NV
Nolimpark 4004
3900 Overpelt (B)

beantwoorden aan zijn specificatie, overeenkomstig de regels van de norm: NBN 12201-1 kunststofleidingssystemen voor leiding van drinkwater onder druk - polyethyleen (PE) en de PTV 1002

Het certificaat is toegelicht op basis van het onderzoek en de beoordeling van de relevante technische typeproeven (TT), uitgevoerd op overeenkomstige monsters, genomen in de productie-eenheid, en op basis van de in het kader van de productie en het productieproces (PTC).

BCCA bevestigt dat de productie en productie-eenheid aan een adequate productbeheersingssysteem en dat het regelmatig (proeven) afkomstig te nemen monsters genomen op de productie volgens een vastgesteld toetsregime.

BCCA heeft toezicht op de productie en de productie-eenheid via een passende PTC-systeem, periodieke toezicht van de afwerkingsgegevens en certificeringen in een apart document.

Op basis van het toezicht en het toezicht van het certificaat in de productie gemachtigd gebruik te maken van het BENOR-merk en de vermelding van zijn product in adverteerders.

Overeenkomstig certificaat heeft in rechte vanaf 1603011 en 1603012 om het overeenkomstig toezicht van de relevante specificaties en de ingesloten monsternummers.

Opgemaakt te Brussel op: 1603011



V. De Blaere
Directeur Generaal



BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION vzw

BCCA Brussels - WTCA en BECO

BCCA verklaart dat het

KWALITEITSMANAGEMENTSYSTEEM

afgekeurd door

DYKA PLASTICS n.v.
Nolimpark 4004
B-3900 OVERPELT

voor

de ontwikkeling, de productie en de levering van componenten voor kunststofleidingssystemen voor toepassingen af druk niet onder druk

beantwoordt aan de norm

NBN EN ISO 9001 : 2008.

Dit certificaat heeft een steun op 27 juli 2010, is geldig tot 27 april 2013 en is onderworpen aan het reglement voor de certificatie van managementsystemen.

Declaratie nr.: BQ700-0301.
Certificaat nr.: 0116.

Afgeleverd te Brussel, op 27 augustus 2010.



V. DE BLAERE
Directeur generaal



G. KLEPPISCH
Vicevoorzitter



J. VENSTERMANS
Bestuurder

BCCA Aarlenstraat 53, B-1040 Brussel
Tel.: +32 2 238 24 11 Fax: +32 2 238 24 01

De geldigheid van dit certificaat kan geschorst worden op de website www.bcca.be.
Bijkomende informatie beschikbare bij de inspectiepunten van dit certificaat en de organisatie van de controle van de norm waaraan wordt voldaan worden bij de certificatie-afdeling.



KOMO[®]
product certificate

kiwa
Partner for progress

Number: K2017/01
Issue: 2016-07-21
Valid until: indefinite
Revision: --
Date: --
Page: 1 of 3

PE pipes for above ground and underground pressured piping systems for outside sewerage
Dyka Plastics B.V.

STATEMENT BY KIWA
This product certificate is based on the basis of EN 12201 PE pipes for above ground and underground pressured piping systems for outside sewerage issued on 12-06-2011 by Kiwa, in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that inspection conclusions state that the by the producer manufactured PE pipes comply with the technical specifications as laid down in this product certificate, provided that PE pipes have been marked with the EC/UKCA mark in the manner as indicated in this product certificate.

B. Meekens
Bouke Meekens
Director Kiwa N.V.

Additional comment: www.kiwa.nl in order to ensure that this certificate is still valid.

Model B.1
30 W. Oudegracht 17
6525 SG, Nijmegen
The Netherlands
Tel. +31 (0) 251 44 44 00
Fax +31 (0) 251 44 44 20
www.kiwa.nl

Model of Certificate
Dyka Plastics B.V.
Dijkweg 17
3330 GZ, Oegstgeest
The Netherlands
Tel. +31 (0) 251 44 44 00
Fax +31 (0) 251 44 44 20
www.kiwa.nl

Product is certified against periodic inspection

kiwa
Partner for progress

Number: K2017/01
Issue: 2016-07-21
Valid until: i.a.

Revision: --
Date: --
Page: 1 of 3

Drinking water pipes of PE

Product certificate

Based on pre-certification testing as well as periodic inspections by Kiwa, the products referred to in this certificate and marked with the Kiwa-mark as indicated under 'Marking', comply with:

Dyka Plastics N.V.
may, on delivery, be relied upon to comply with the Kiwa evaluation guideline EN 12201 PE (polyethylene) pipes for the transport of drinking water.

B. Meekens
Bouke Meekens
Director Kiwa N.V.

This certificate is issued in accordance with the Kiwa-Regulations for Product Certification.

This certificate consists of 3 pages.
Publication of the certificate is allowed.

Model B.1
30 W. Oudegracht 17
6525 SG, Nijmegen
The Netherlands
Tel. +31 (0) 251 44 44 00
Fax +31 (0) 251 44 44 20
www.kiwa.nl

Model of Certificate
Dyka Plastics B.V.
Dijkweg 17
3330 GZ, Oegstgeest
The Netherlands
Tel. +31 (0) 251 44 44 00
Fax +31 (0) 251 44 44 20
www.kiwa.nl

kiwa
Partner for progress

Number: ISO 14001
Issue: 2016-06-15
Valid until: 2018-06-15

Revision: --
Date: --
Page: 14

Certificaat
ISO 14001

Kiwa heeft vastgesteld dat het door

Dyka B.V.
substantieel overeenstemt met de bepalingen daarvan volgens een ISO 14001:2004 voor het besnoeiingsgebied.

De activiteiten, producten en diensten van besnoeiingsgebied:

B. Meekens
Bouke Meekens
Director Kiwa N.V.

Dit certificaat bestaat uit 3 pagina's.
Openbaarzaking van het certificaat is toegestaan.

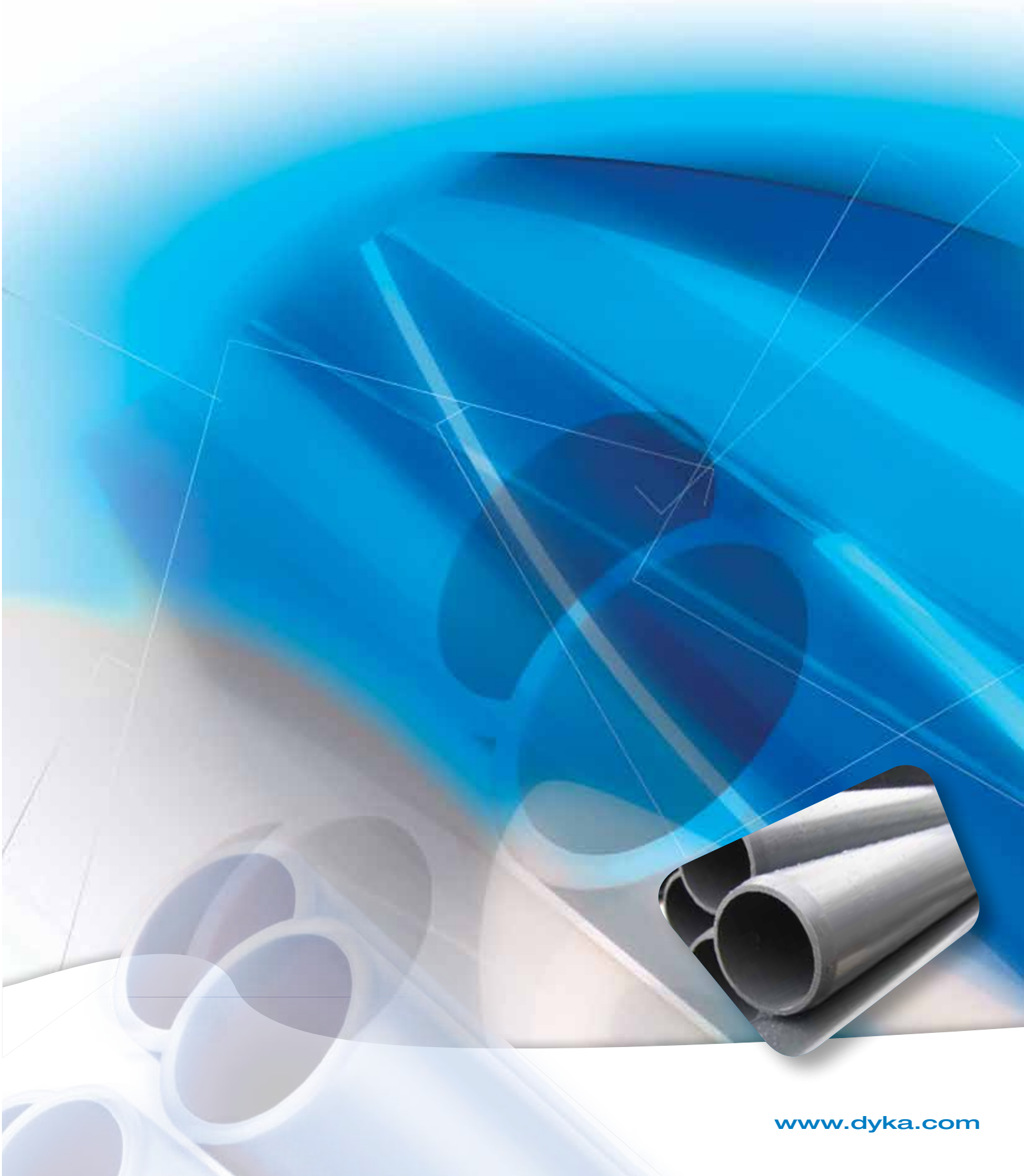
Model B.1
30 W. Oudegracht 17
6525 SG, Nijmegen
The Netherlands
Tel. +31 (0) 251 44 44 00
Fax +31 (0) 251 44 44 20
www.kiwa.nl

Model of Certificate
Dyka B.V. Kiwa in Nederland
Dyka B.V. Almere Overijssel
Dijkweg 17, 3330 GZ, Oegstgeest
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Fax +31 (0) 251 44 44 20
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Overzichtskaart
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SCCM

PVC Pressure pipes



PRODUCT DESCRIPTION

Plastics are synthetic macromolecular materials which, by processing acquire their specific functions. They are produced by chemical processes, the principle raw material being oil. The macromolecular structure of plastics is achieved by polymerisation of individual molecules or monomers into chain molecules that are between 1,000 and 100,000 times larger than those naturally occurring in water or salt. This macro molecular composition forms a spatial net-like structure with numerous internal chemical bonds.

Plastics can be divided into two main groups.

- Thermoplastic materials which, upon heating, soften and melt and can be reheated and reformed.
- Thermosetting materials which soften and melt with the initial heating but then set permanently in their final shape.

Polyvinylchloride or PVC-u is one of the most widely used thermoplastic materials, due to its flexibility of usage and competitive price. It is manufactured by the petrochemical industry who produce a dichloride from ethane and chloride and apply pyrolysis above 400°C to cause splitting into vinylchloride and hydrochloric acid.

The basic polymer is mixed with additives such as colour, filler, lubricants and stabilisers in accordance with a recipe determined by the properties of the finished product. The mix of compound is transported to either extruders or injection moulding machines to be converted into the end product.

Dyka PVC-u pipe is a high quality pipe suitable for pressure pipeline systems for cold water services. It is available in imperial and metric dimensions that are produced in accordance with appropriate national and international standards. Dyka PVC-u pipe is supplied plain ended, with integral solvent weld socket or integral ring seal joint.

Standards of Manufacture and Quality Control

Dyka produce PVC-u pressure pipe in accordance with all the principal European quality standards.

All Dyka manufacturing facilities are accredited to ISO 9001. This defines the quality management system under which the manufacturing and support departments operate. It provides the overall framework within which production of pipes to a particular specification can take place.

Dyka manufactured PVC-u products are specifically certified against the requirements of:

KIWA	the Netherlands
DVGW	Germany
DIN	Germany
SECO	France

Unless otherwise specified, all Dyka, standard metric pipework is manufactured to the Dutch water industry standard KIWA K17301 and EN1452. Dykapipe is certified to this standard by the KIWA quality organisation. Dyka have the capability to manufacture to a number of the European standards and in many cases hold quality approvals against these. Details of these and copies of all certificates are available on request.

Quality Control

All quality control testing for conformity with the various production standards is carried out by the Dyka in house laboratory. All laboratory operations are monitored by the Dutch Standards Institute, The Dutch KIWA Quality Organisation and others.

A grey metric pipe system is available from Dyka, which is produced in accordance with the Dutch Water Authority Standard KIWA BRL K17301. This standard is derived from the specifications issued by the International standards Organisation (ISO) references ISO 161/1, ISO 4065 and EN1452.

The Dyka production facility for this pipe system is registered by the Dutch Water Authority and the Dutch quality assurance body KIWA/NEN. All Dyka PVC-u pipe is approved by the World Health Organisation (WHO) for use with potable water.

Other Pipe Standards

In addition to the above Dyka will manufacture pipe to most European national standards on specific request. Please refer to the technical department of Dyka for details.

Copies of all the applicable quality standards, e.g. EN1452, are available on request.

Pipe Length

Special lengths e.g. 5,7 meter (container lengths) or 6+ meter can be supplied to specific order providing the quantity constitutes a reasonable production run. Contact your distributor or the technical department of Dyka for further information.

Pipe Colour

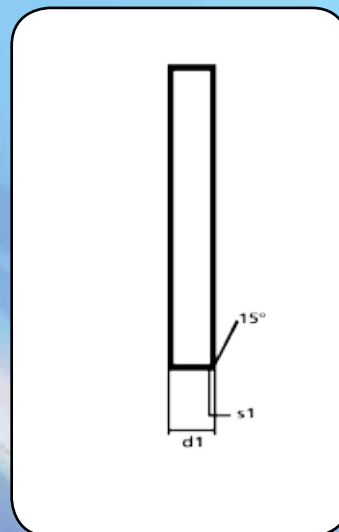
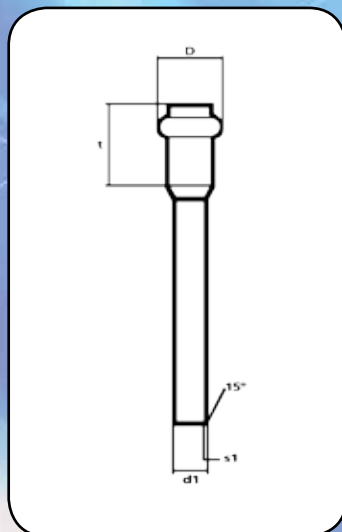
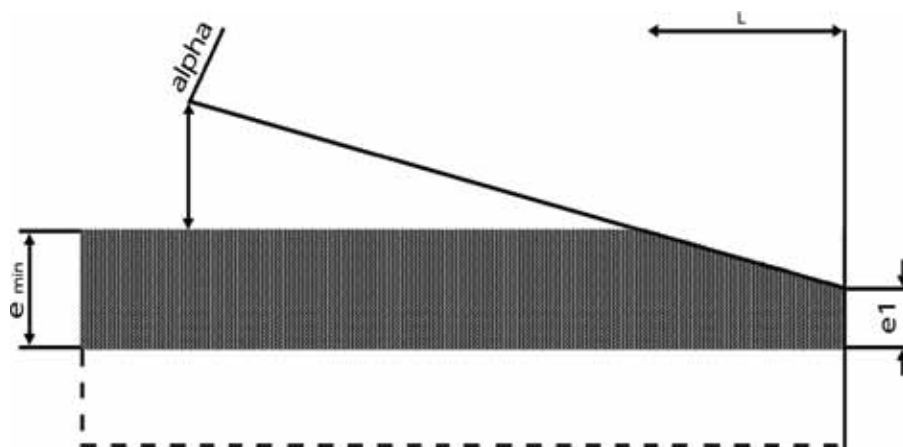
Metric pipes to KIWA K17301 can be supplied in standard PVC-u, cream colour RAL 1014 and grey RAL 7011. Pipework in other colours can be produced against specific requirements providing the quantity constitutes a reasonable production run. Contact your distributor or the technical department of Dyka for further information.

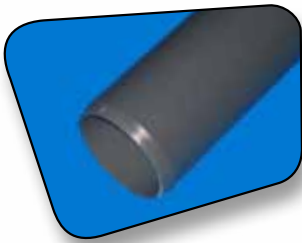
Chamfering of the pipes

The chamfers on the pipes should be smooth and regular and comply to table 4. The assessment is done visually and the parameters are taken from EN-ISO-3126.

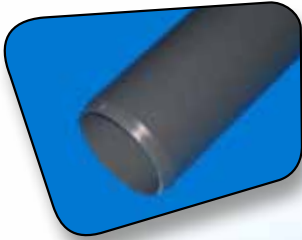
Measurements for chamfering (dimensions in mm)

Nominal outside diameter		e1	l	alpha	
>	≤	min	min	min	max
-	90	0,50 x e min	4	5°	15°
90	110		6		
110	125		7		
125	400		8		
400	-		10		

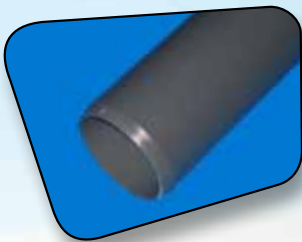




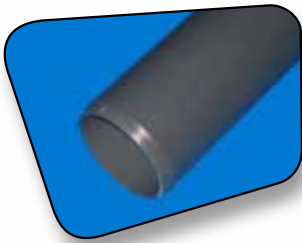
PVC PRESSUREPIPES PLAIN ENDED 0,63MPa KIWA	
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 250x 6,2mm 0,63MPa KIWA	7,247
PVC PRESSUREPIPES PLAIN ENDED 315x 7,7mm 0,63MPa KIWA	11,266
PVC PRESSUREPIPES PLAIN ENDED 400x 9,8mm 0,63MPa KIWA	18,143
PVC PRESSUREPIPES PLAIN ENDED 500x 12,3mm 0,63MPa KIWA	28,455



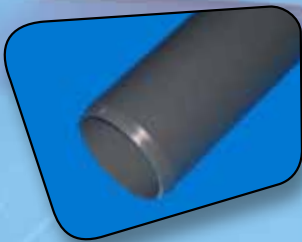
PVC PRESSUREPIPES PLAIN ENDED 0,75MPa KIWA	
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 63x 2,0mm 0,75MPa KIWA	0,599
PVC PRESSUREPIPES PLAIN ENDED 75x 2,2mm 0,75MPa KIWA	0,797
PVC PRESSUREPIPES PLAIN ENDED 90x 2,7mm 0,75MPa KIWA	1,151
PVC PRESSUREPIPES PLAIN ENDED 110x 3,3mm 0,75MPa KIWA	1,716
PVC PRESSUREPIPES PLAIN ENDED 125x 3,7mm 0,75MPa KIWA	2,168
PVC PRESSUREPIPES PLAIN ENDED 160x 4,7mm 0,75MPa KIWA	3,505
PVC PRESSUREPIPES PLAIN ENDED 200x 5,9mm 0,75MPa KIWA	5,464
PVC PRESSUREPIPES PLAIN ENDED 250x 7,3mm 0,75MPa KIWA	8,460
PVC PRESSUREPIPES PLAIN ENDED 315x 9,2mm 0,75MPa KIWA	13,393
PVC PRESSUREPIPES PLAIN ENDED 400x 11,7mm 0,75MPa KIWA	21,519
PVC PRESSUREPIPES PLAIN ENDED 500x 14,6mm 0,75MPa KIWA	33,520
PVC PRESSUREPIPES PLAIN ENDED 630x 18,4mm 0,75MPa KIWA	53,169



PVC PRESSUREPIPES PLAIN ENDED 1,0MPa KIWA	
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 32x 1,6mm 1,0MPa KIWA	0,244
PVC PRESSUREPIPES PLAIN ENDED 40x 1,9mm 1,0MPa KIWA	0,357
PVC PRESSUREPIPES PLAIN ENDED 50x 2,4mm 1,0MPa KIWA	0,562
PVC PRESSUREPIPES PLAIN ENDED 63x 2,4mm 1,0MPa KIWA	0,717
PVC PRESSUREPIPES PLAIN ENDED 75x 2,9mm 1,0MPa KIWA	1,015
PVC PRESSUREPIPES PLAIN ENDED 90x 3,5mm 1,0MPa KIWA	1,468
PVC PRESSUREPIPES PLAIN ENDED 110x 4,2mm 1,0MPa KIWA	2,149
PVC PRESSUREPIPES PLAIN ENDED 125x 4,8mm 1,0MPa KIWA	2,765
PVC PRESSUREPIPES PLAIN ENDED 160x 6,2mm 1,0MPa KIWA	4,568
PVC PRESSUREPIPES PLAIN ENDED 200x 7,7mm 1,0MPa KIWA	7,043
PVC PRESSUREPIPES PLAIN ENDED 250x 9,6mm 1,0MPa KIWA	10,953



PVC PRESSUREPIPES PLAIN ENDED 1,25MPa KIWA	
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 25x 1,5mm 1,25MPa KIWA	0,178
PVC PRESSUREPIPES PLAIN ENDED 32x 1,9mm 1,25MPa KIWA	0,282
PVC PRESSUREPIPES PLAIN ENDED 40x 2,4mm 1,25MPa KIWA	0,444
PVC PRESSUREPIPES PLAIN ENDED 50x 3,0mm 1,25MPa KIWA	0,681
PVC PRESSUREPIPES PLAIN ENDED 63x 3,0mm 1,25MPa KIWA	0,870
PVC PRESSUREPIPES PLAIN ENDED 75x 3,6mm 1,25MPa KIWA	1,243
PVC PRESSUREPIPES PLAIN ENDED 90x 4,3mm 1,25MPa KIWA	1,778
PVC PRESSUREPIPES PLAIN ENDED 110x 5,3mm 1,25MPa KIWA	2,663
PVC PRESSUREPIPES PLAIN ENDED 125x 6,0mm 1,25MPa KIWA	3,400
PVC PRESSUREPIPES PLAIN ENDED 160x 7,7mm 1,25MPa KIWA	5,576



PVC PRESSUREPIPES PLAIN ENDED 1,6MPa KIWA	
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 12x 1,0mm 1,6MPa KIWA	0,056
PVC PRESSUREPIPES PLAIN ENDED 16x 1,5mm 1,6MPa KIWA	0,110
PVC PRESSUREPIPES PLAIN ENDED 20x 1,5mm 1,6MPa KIWA	0,140
PVC PRESSUREPIPES PLAIN ENDED 25x 1,9mm 1,6MPa KIWA	0,216
PVC PRESSUREPIPES PLAIN ENDED 32x 2,4mm 1,6MPa KIWA	0,349
PVC PRESSUREPIPES PLAIN ENDED 40x 3,0mm 1,6MPa KIWA	0,536
PVC PRESSUREPIPES PLAIN ENDED 50x 3,7mm 1,6MPa KIWA	0,825
PVC PRESSUREPIPES PLAIN ENDED 63x 3,8mm 1,6MPa KIWA	1,082
PVC PRESSUREPIPES PLAIN ENDED 75x 4,5mm 1,6MPa KIWA	1,525
PVC PRESSUREPIPES PLAIN ENDED 90x 5,4mm 1,6MPa KIWA	2,188
PVC PRESSUREPIPES PLAIN ENDED 110x 6,6mm 1,6MPa KIWA	3,251



PVC PRESSUREPIPES WITH RUBBERING SOCKET PN6,3 / 20° C (EN1452)

DN	d1	s1	t	D	Kg/m *
50	63	2,0	101	84	0,599
65	75	2,3	106	98	0,828
80	90	2,8	112	116	1,180
100	110	2,7	120	139	1,415
125	125	3,1	131	172	1,852
150	160	4,0	140	196	2,999
200	200	4,9	163	268	4,578
250	250	6,2	185	331	7,246
300	315	7,7	197	370	11,265
400	400	9,8	245	527	18,141

*) Pipe weight per meter without socket
Size details on page 15



PVC PRESSUREPIPES WITH RUBBERING SOCKET PN10 / 20° C (EN1452)

DN	d1	s1	t	D	Kg/m *
50	63	3,0	101	84	0,870
65	75	3,6	106	98	1,243
80	90	4,3	112	116	1,778
100	110	4,2	120	139	2,149
125	125	4,8	131	172	2,765
150	160	6,2	140	196	4,568
200	200	7,7	163	268	7,043
250	250	9,6	185	331	10,953
300	315	12,1	197	370	17,385
400	400	15,3	245	527	27,838

*) Pipe weight per meter without socket
Size details on page 15

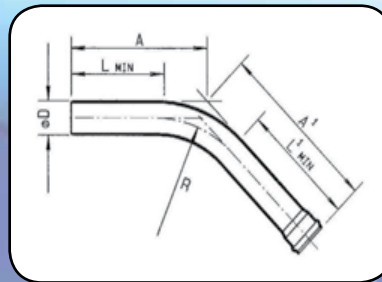


PVC PRESSUREPIPES WITH RUBBERING SOCKET PN16 / 20° C (EN1452)

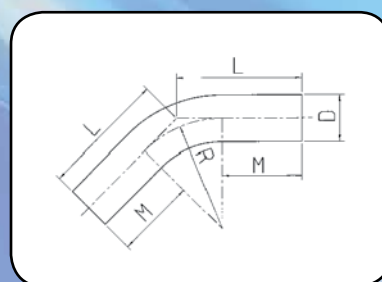
DN	d1	s1	t	D	Kg/m *
50	63	4,7	101	84	1,311
65	75	5,6	106	98	1,856
80	90	6,7	112	116	2,655
100	110	6,6	120	139	3,251
125	125	7,4	131	172	4,144
150	160	9,5	140	196	6,782
200	200	11,9	163	268	10,574
250	250	14,8	185	331	16,424
300	315	18,7	197	370	26,111

*) Pipe weight per meter without socket
Size details on page 15

PRESSURE BENDS SINGLE SOCKET				11,25°		22,5°		30°		45°		90°	
OD	R	L	L1	A	A1	A	A1	A	A1	A	A1	A	A1
63	220	95	191	178	299	211	332	233	354	278	399	457	578
75	262	113	214	219	345	258	384	280	406	336	462	548	674
90	315	135	241	220	351	259	309	282	413	339	470	555	686
110	385	165	279	230	369	291	430	320	459	378	517	665	804
125	438	188	307	286	430	327	471	367	511	446	590	778	992
160	560	240	374	358	517	416	575	471	630	583	742	1040	1199
200	700	300	449	530	704	590	764	647	821	761	935	1230	1404
250	875	313	481	528	721	610	803	689	882	852	1045	1510	1703
315	1103	394	585	651	867	776	982	882	1098	1120	1336	2093	2309
400	1400	500	718	845	1088	1000	1243	1149	1392	1468	1711	2825	3068



PRESSURE BENDS PLAIN ENDS				11,25°		22,5°		30°		45°		90°	
OD	R	M		L		L		L		L		L	
63	220	95		178		211		233		278		457	
75	262	113		219		258		280		336		548	
90	315	135		220		259		282		339		555	
110	385	175		230		291		320		378		665	
125	438	188		286		327		367		446		778	
160	560	240		358		416		471		583		1040	
200	700	300		530		590		647		761		1230	
250	875	313		528		610		689		852		1510	
315	1103	394		651		766		882		1120		2093	
400	1400	500		845		1000		1149		1468		2435	
500	1750	625		1105		1300		1487		1889			



Nominal (minimum) wallthickness

Nominal Outside Diameter	Nominal (minimum) Wallthickness						
	S 20 SDR 41	S 16 SDR 33	S 12,5 SDR 26	S 10 SDR 21	S 8 SDR 17	S 6,3 SDR 13,6	S 5 SDR 11
	Nominal pressure PN based on service (design) coefficient C=2,5						
	PN 6	PN 8	PN 10	PN 12,5	PN 16	PN 20	
12	-	-	-	-	-	-	1,5
16	-	-	-	-	-	-	1,5
20	-	-	-	-	-	1,5	1,9
25	-	-	-	1,5	1,9	2,3	
32	-	1,5	1,5	1,9	2,4	2,9	
40	1,5	1,6	1,9	2,4	3,0	3,7	
50	1,6	2,0	2,4	3,0	3,7	4,6	
63	2,0	2,5	3,0	3,8	4,7	5,8	
75	2,3	2,9	3,6	4,5	5,6	6,8	
90	2,8	3,5	4,3	5,4	6,7	8,2	
Nominal pressure PN based on service (design) coefficient C=2,0							
	PN 6	PN 8	PN 10	PN 12,5	PN 16	PN 20	PN 25
110	2,7	3,4	4,2	5,3	6,6	8,1	10,0
125	3,1	3,9	4,8	6,0	7,4	9,2	11,4
140	3,5	4,3	5,4	6,7	8,3	10,3	12,7
160	4,0	4,9	6,2	7,7	9,5	11,8	14,6
200	4,9	6,2	7,7	9,6	11,9	14,7	18,2
225	5,5	6,9	8,6	10,8	13,4	16,6	-
250	6,2	7,7	9,6	11,9	14,8	18,4	-
280	6,9	8,6	10,7	13,4	16,6	20,6	-
315	7,7	9,7	12,1	15,0	18,7	23,2	-
400	9,8	12,3	15,3	19,1	23,7	29,4	-
450	11,0	13,8	17,2	21,5	26,7	33,1	-
500	12,3	15,3	19,1	23,9	29,7	36,8	-
630	15,4	19,3	24,1	30,0	-	-	-

NOTE 1: The nominal wallthickness conform to ISO 4065:1996.
 NOTE 2: To apply an overall service (design) coefficient of 2,5 (instead of 2,0) for pipes with nominal diameters above 90mm, the next higher pressure rating, PN, shall be chosen.
 NOTE 3: The PN 6 value for S 20 and S 16 are calculated with the preferred number 6,3

Packing information

	No.length per packages		L= 5 meter		Meter per packages	3 x wood packing Package size in cm (L x W x H) *
20	2500	x	5	=	12500	500x122x95
25	1250	x	5	=	6250	500x122x55
32	1139	x	5	=	5695	500x122x95
40	715	x	5	=	3575	500x122x95
50	462	x	5	=	2310	500x122x95
63	272	x	5	=	1360	500x122x96
75	203	x	5	=	1015	500x122x95
90	144	x	5	=	720	500x122x95
110	86	x	5	=	430	500x122x95
125	77	x	5	=	385	500x122x95
140	53	x	5	=	265	500x122x95
160	46	x	5	=	230	500x122x95
200	25	x	5	=	125	500x122x95
225	25	x	5	=	125	500x122x95
250	16	x	5	=	80	500x122x95
315	9	x	5	=	45	500x122x95
400	4	x	5	=	20	500x122x100
500	4	x	5	=	20	500x122x110

* If the length of the pipe differs from 5 meter, the L size will change.
 e.g. 1 package of pipe Ø110mm with a pipe length of 6 meter will result in a package size of 600x 122x 95cm.
 In case of socketed pipe the L size will increase with twice the length of the socket.

certificates

Certificates can contain more than one page.
A full set of our certificates can be obtained from our website

kiwa
Future for progress

Number: K2042/01 Revision: —
Issue: 2010-06-15 Issue date: —
Valid until: 2015-06-15 Issue: 14

**Certificaat
ISO 14001**

Uitsluitend vastgesteld dat het door
Dyka B.V.
geleverde en geïmplementeerde en de implementatie daarvan voldoende aan ISO-
EN-ISO 14001:2004 voor het toepassinggebied:

De activiteiten, productieproces en/of een bestaand bestuursstelsel

B. Meijneke
Boudie Meijneke
Director Kiwa NCV

Dit certificaat bestaat uit 3 pagina's.
Openbaarmaking van het certificaat is toegestaan.

Company
Dyka B.V.
Klaas van der
Meijneke
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Company
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kiwa
Future for progress

Number: K2042/01 Revision: K2042/01
Issue: 2005-11-01 Issue date: 2005-07-01
Valid until: 2010-11-01 Issue: 14

**Quality System Certificate
ISO 9001**

Kiwa has determined that the quality system employed by
DYKA B.V.
and its implementation comply with ISO 9001:2000 for the scope:
The design, production and sale of plastic pipes.

B. Meijneke
Ing. B. Meijneke
Lid van de Raad van Toezicht
Kiwa NCV

This certificate consists of 1 page.
Publication of the certificate is allowed.

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kiwa
Future for progress

Number: K3021/01 Revision: K3021/01
Issue: 2007-12-01 Issue: 1995-05-01

**Product certificate
Drinking water pipes of unplasticized PVC**

Based on pre-certification tests as well as periodic inspections by Kiwa, the products referred to in this certificate and marked with the Kiwa-mark as indicated under 'marking', manufactured by
Dyka B.V.
may, on delivery, be relied upon to comply with the Kiwa Evaluation Condition B01, K12781 "Piping systems of PVC for the transport of drinking water and rain water".

B. Meijneke
Boudie Meijneke
Director Kiwa Nederland B.V.

This certificate is issued in accordance with the Kiwa Regulations for Product Certification and consists of 3 pages.
Publication of the certificate is allowed.

Company
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E-mail: info@dyka.nl
www.dyka.nl

GL

Type Approval Certificate

This is to certify that the underlined product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 11 702 - 02 00
Company Dyka B.V.
Productiegebouw 7
Kil 11, Grootmunnikhuizen, NETHERLANDS

Product Description THERMOPLASTIC PIPES
Type PVC-U
Environmental Category None

Technical Data:
Range of Application Size range (DN) 10 up to 200 mm
Pressure range (PN) 10 to 16
Temperature range: 0°C up to +40°C, 0°C (short-term)
Bearing according to EN 14221

SCOPE OF APPLICATION
The Type PVC-U pipes in combination with EN 14221 fittings are type approved for secondary piping systems installed in domestic, service and industrial systems and installed in accordance with the requirements laid in our approval. Refer to GL Rules 1-2 Machinery Installation, Tables 11.1.3 and 11.2.3 and 11.2.4 (short-term).
Limitation
The installation details of tests in test approval.
Continuation on page 2

Test Standard V214 Test Requirements for Components and Systems of Mechanical Engineering (2005), including relevant safety provisions and the production test, EN 14221.

Documents Dyka test report no. 1428, Dyka production test report dated 16-0-2010
- GL test report no. 1428, 1428/011 dated 07/10/07
- GL Audit Report dated 01/08/10

Remarks For application on pressure vessels regulations of the state authority may have to be observed.

Valid until 2015-05-31
Page 1 of 2
File No. 0.234
Hamburg, 2011-05-16

Type Approval System **GL**

B. Meijneke
Boudie Meijneke
Director Kiwa Nederland B.V.

Germanischer Lloyd

This certificate is based on the basis of 'Approval for the Production of Type Approval for 1' Pressure



DVGW-Baumusterprüfzertifikat
DVGW type examination certificate

DW-8121AN2357
 Registrierungsnummer
 registration number

Anwendungsbereich field of application	Produkte der Wasserversorgung products of water supply
Zertifizierhaber owner of certificate	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Vertreiber distributor	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Produktart product category	Kunststoff-Druckrohre für Versorgungsleitungen: PVC-U für die Wasserversorgung, Fert.-Gr. 11 (8121)
Produktbezeichnung product description	Kunststoffrohr für die Wasserverteilung
Modell model	PVC-Rohr "Dyka"
Prüfberichte test reports	Mechanikprüfung: K 08 0523.1 vom 17.07.2009 (MPD) Machtkrümmung: K 04 1459.1 vom 08.12.2004 (MPD) KTW-Prüfung: K91 048/09 vom 25.05.2009 (TZW) Mikrobiologische Prüfung: MD 004/08 vom 05.06.2008 (TZW)
Prüfgrundlagen basis of type examination	DVGW GW 335-A1 (01.06.2003) UBA KTW (16.05.2007) DVGW W 270 (01.11.2007)

Ablaufdatum / AZ
date of expiry / file no. 17.11.2014 / 09-0536-WW

23.10.2009 (DIA-12)

DVGW (DIN EN 12201) - vom der Deutschen Institut für Normung (DIN) ist ein
 in der TGA (Technische Anleitung für die Baubeherrschung) von Produkten der
 TGA und Baubeherrschung



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 eMail: info@dvgw.de

047 25 09996-01



DVGW-Baumusterprüfzertifikat
DVGW type examination certificate

DW-8126AN2358
 Registrierungsnummer
 registration number

Anwendungsbereich field of application	Produkte der Wasserversorgung products of water supply
Zertifizierhaber owner of certificate	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Vertreiber distributor	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Produktart product category	Kunststoff-Druckrohre für Versorgungsleitungen: PVC-U für die Wasserversorgung, Fert.-Gr. 13 (8126)
Produktbezeichnung product description	Kunststoffrohr aus PVC-hart für die Trinkwasserverteilung
Modell model	PVC-Rohr "Dyka"
Prüfberichte test reports	Mechanikprüfung: K 09 0523.2 vom 17.07.2009 (MPD) Machtkrümmung: K 04 1459.2 vom 08.12.2004 (MPD) KTW-Prüfung: K91 048/09 vom 25.05.2009 (TZW) Mikrobiologische Prüfung: MD 004/08 vom 05.06.2008 (TZW)
Prüfgrundlagen basis of type examination	DVGW GW 335-A1 (01.06.2003) UBA KTW (16.05.2007) DVGW W 270 (01.11.2007)

Ablaufdatum / AZ
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DVGW-Baumusterprüfzertifikat
DVGW type examination certificate

DW-8131AN2358
 Registrierungsnummer
 registration number

Anwendungsbereich field of application	Produkte der Wasserversorgung products of water supply
Zertifizierhaber owner of certificate	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Vertreiber distributor	Dyka B.V. Produktweg 7, NL-8331 LJ Steenwijk
Produktart product category	Kunststoff-Druckrohre für Versorgungsleitungen: PVC-U für die Wasserversorgung, Fert.-Gr. 13 (8131)
Produktbezeichnung product description	Kunststoffrohr aus PVC-hart für die Trinkwasserverteilung
Modell model	PVC-Rohr "Dyka"
Prüfberichte test reports	Mechanikprüfung: K 08 0523.3 vom 17.07.2009 (MPD) Machtkrümmung: K 04 1459.3 vom 08.12.2004 (MPD) KTW-Prüfung: K91 048/09 vom 25.05.2009 (TZW) Mikrobiologische Prüfung: MD 004/08 vom 05.06.2008 (TZW)
Prüfgrundlagen basis of type examination	DVGW GW 335-A1 (01.06.2003) UBA KTW (16.05.2007) DVGW W 270 (01.11.2007)

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Kitemark Licence



No KM B0510

BSI hereby grants to:
Dyka BV
 Produktweg 7
 Steenwijk
 8331 AA
 Netherlands

In respect of
BS EN 1452-2
Plastic Piping Systems for Water Supply -
Unplasticized Poly (Vinyl Chloride) (PVC-U)
Part 2: Pipes

The right and Licence to use the Kitemark in accordance with the Kitemark Licence Conditions of Contract governing the use of the Kitemark, as may be updated from time to time by BSI, and as approved by the Registrar under the Trade Marks Act 1994 (the "Conditions"). All defined terms in this Licence shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s), manufactured at, or provided from, the address above and in conformity with the standard(s) detailed on the following page.

For and on behalf of BSI:

Anne Blyth, Managing Director, BSI Product Services

For granted 8 Jun 2006

Until 8 Jun 2016

Page 1 of 2



BSI Product Services
 Dynamic Avenue, Weymouth, Dorset, DT9 8LF, United Kingdom
 Tel: +44 (0)1302 359343 Website: www.bsi.com



Our Ref: AWAS01ST

10 June 2006

Dyka Plastics BV
 Postbus 33
 8330 AA Steenwijk
 Netherlands

Dear Sir

WATER REGULATIONS ADVISORY SCHEME "ITEMS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY - BS 6920"

We refer to your application for the material(s) described below to be approved among the results of the tests of effect on water quality that have been carried out on the product(s) so described. It has been decided that there is no objection to further use provided the source, nature and manufacturing processes of the ingredients and products are not changed. (See notes overhead).

POLYVINYLCHLORIDE (PVC, PVC-U & CPVC) - COMPONENTS **8300**

Dyka Grey PVC-U Pipe NGS. For cold water use only

Test Report: MA3004Z

8992683

DIYKA PLASTICS BV

An entry, as above, will accordingly be included in the Water Filtrage Directory on-line, Part Two, under the section headed, "Materials which have passed full tests of effect on water quality".

Your attention is drawn to the statement overhead. Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that the product as listed, having passed the tests of effect on water quality, is suitable for use in contact with potable water and that a reference to the product will be included in the Materials section, Part Two, of the Water Filtrage Directory on-line. This may be abbreviated to "Water Regulations Advisory Scheme - Approved Material" or "WRAS - Approved Material". Approval of this product does not signify the approval of its mechanical or physical properties for any use.

The Technical Committee of the Scheme reserves the right to review approval. This product automatically becomes due for full re-assessment in June 2016.

Yours faithfully,

Anthony Williams,
 WRAS Approval Administrator,
 Water Regulations Advisory Scheme.

WRAS Approval Administrator
 10 Park Road, Park View, Weymouth, Dorset DT9 8LF
 Telephone: 01302 359343
 Fax: 01302 359344
 E-mail: awilliams@wrasscheme.co.uk



DRINKING WATER INSPECTORATE

Room 301, 20 Avenue
 London E17A 2BT

Direct Line: 020 7060 8020

Freephone: 0800 7060 8020

Facsimile: 020 7060 8020

E-mail: enquiries@dwinspectorate.gov.uk

2007 Reference: http://www.dwi.gov.uk

Guarantors of drinking water quality

My Freddie Bosma
 Manager Quality Control and Laboratory
 Dyka BV
 post 33 AA Steenwijk
 The Netherlands

Thursday 23 November 2006
 Ref DWI 56-4A37

Dear Mr Bosma

APPROVAL GIVEN UNDER REGULATION 31 (6) (a) OF THE WATER SUPPLY (WATER QUALITY) REGULATIONS 2000 NO. 3181 AND OF THE WATER SUPPLY (WATER QUALITY) REGULATIONS 2001 (WALES) NO. 1911

Product: Dyka Grey PVC-U Pipe NGS

1. The Secretary of State for Environment, Food and Rural Affairs and the National Assembly for Wales (collectively referred to as "the Authorities") have powers under Regulation 31 of the Water Supply (Water Quality) Regulations¹ to approve substances and products used in the provision of water which is to be supplied for drinking, washing, cooking or food production. The Authorities are advised on approval issues by the Committee on Products and Processes for Use in Public Water Supply (the Committee).
2. I am enclosing the Authorities' approval for Dyka Grey PVC-U Pipe NGS (the approved product). This approval is given, on the basis that the Committee is satisfied that there is no objection on health grounds to the use of the approved product in the provision of public water supply. The Committee does not assess fitness for purpose and approval by the Authorities can not be taken as a favourable assessment of the performance or technical merits of any product.
3. Please note that this approval relates only to Dyka Grey PVC-U Pipe NGS as notified to the Committee in your application DWI 56-4A37. I draw your attention to conditions of approval in (A) (B) (C) (D) relating to Instructions for Use, the need for approval of any change relating to the Instructions for Use or the product itself, and audit requirements. Failure to comply with these or any other condition of approval will lead to revocation of approval.
4. This approval does not authorize you to use the Inspectorate's logo (in advertisements) or any other literature relating to the approved product. This approval is given by the Authorities

¹ The Water Supply (Water Quality) Regulations 2000 apply to water supplies other than in Wales or in Northern Ireland. The Water Supply (Water Quality) Regulations 2001 apply to water supplies other than in Wales or in Northern Ireland.

Department for Environment, Food and Rural Affairs

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 Fax: 020 7060 8020

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DYKA
EXPORT

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