



REHAU AWADUKT PP SN10 RAUSISTO HEAVY DUTY SEWER PIPE SYSTEMS

AWADUKT PP SN10

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AWADUKT PP SN10 RAUSISTO

The benefits at a glance:

Comprehensive range of fittings:

- Range of pipes and fittings in the dimensions DN 110-DN 630 which are completely matched to each other

Filler-free polypropylene:

- High impact strength even at low temperatures

High static and dynamic loading capacity:

- Use even for high moving loads, both at shallow and also deep top fill heights

High abrasion resistance due to special RAUSISTO formulation

Chemical and thermal loading capacity:

- Suitable for carrying industrial waste water

Safety-Lock sealing system:

- Seals cannot be pushed out accidentally during the push-fit connection
- Can be used in water protection zones II and III

Impermeability to infiltration water:

- Permanent leak-tightness
- Savings in waste water treatment

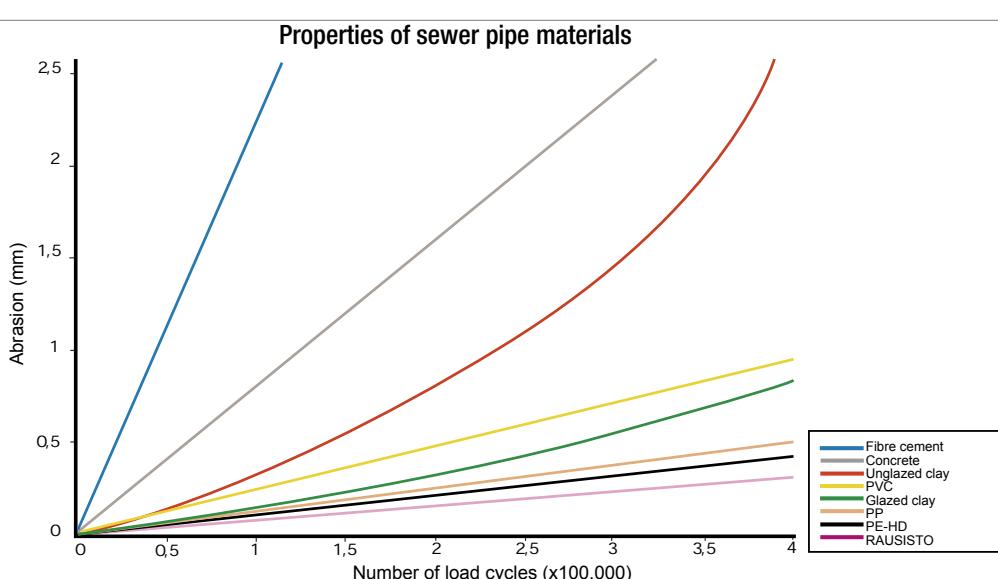
Internal marking:

- Clear identification of the pipe system during camera inspection

Service life of 100 years, certified by LGA Nuremberg:

- Avoiding renovation costs
- Reduced depreciation costs due to long depreciation periods

10 year guarantee



POLYPROPYLENE SEWER SYSTEM SOLUTION

QUALITY TO DIN EN 1852

The meaningfulness of many a standard or regulation is of course open to discussion. However, the benefit of standards is undisputed in the area of technical products. The current revision of the European Standard DIN EN 1852-1 from June 2009 illustrates this.

In the standard it is clear to the user that this exclusively defines filler-free, solid wall polypropylene pipes.

The term "solid wall pipe without filler" is now defined to the effect that the same soft material composition (unfilled polypropylene) must exist across the whole pipe wall.

In addition to this, the trend for particularly high ring stiffness is satisfied and the rigidity class SN16 has been included for the highest static and dynamic loads.



Polypropylene – the basis for products in a class of their own.

Pure polypropylene is a high quality material, which has proven itself over many years in the difficult fields of car manufacture, sensitive medical technology and even in many industrial applications.

High quality, pure polypropylene, without the addition of fillers to DIN EN 1852 is used in the manufacture of REHAU AWADUKT HPP/ AWADUKT PP SN10 heavy duty sewer pipes, fittings and chambers.

Polypropylene is characterised by the following

material properties:

Mechanical



Ideal balance between high rigidity and impact strength

Thermal



Can be used at low temperatures (down to -20 °C) and even at high temperatures (for short periods up to 90 °C)

Chemical



Even resistant to aggressive substances

Ecological



and physiologically completely harmless.

Can be recycled even after many decades

THE REHAU SEWER SYSTEM SOLUTION

AWADUKT HPP/AWADUKT PP SN10 and AWASCHACHT PP DN 1000 - an unbeatable double act:

	AWADUKT HPP/AWADUKT PP SN10	AWASCHACHT PP DN 1000
Material	<ul style="list-style-type: none"> - Polypropylene - Filler-free to pipe standard DIN EN 1852 	<ul style="list-style-type: none"> - Polypropylene - Filler-free
Sealing system	<ul style="list-style-type: none"> - Safety-lock safety sealing system with firmly inserted gaskets - With proven leak-tightness of up to 2,5 bar excess pres., certified by SKZ test certificate - Checked by IKT for impermeability to infiltration water (over 1000 h at 0.8 bar low pressure) 	<ul style="list-style-type: none"> - Safety-lock safety sealing system with firmly inserted gaskets - With stress release sealing rings DN 1000, which sit in a chamber in a protected position - Proven leak-tightness certified by MFPA expert's report - Checked by IKT for impermeability to infiltration water (over 1000 h at 0.8 bar low pressure)
Loading capacity	<ul style="list-style-type: none"> - High ring stiffness - High impact strength due to solid wall construction - Proven high ring stiffness of the fittings, test certificate no. MFPA Weimar test report no. B41.10.201.03 	<ul style="list-style-type: none"> - High ring stiffness - High impact strength due to solid wall construction - Solid arch cone, which can also withstand high moving loads up to SLW 60 (equivalent heavy goods traffic with a weight of 60 tonnes) - Certified by LGA expert's report (FEM calculation)
Resistance	<ul style="list-style-type: none"> - Chemically resistant to pH value 1-13 - Corrosion-resistant - Temperature-resistant (over short periods up to 90 °C, for longer periods up to 60 °C) - Abrasion-proof - Service life of 100 years (certified by LGA expert's report) 	<ul style="list-style-type: none"> - Chemically resistant from pH values 1-13 - Corrosion-resistant - Temperature-resistant (over short periods up to 90 °C, for longer periods up to 60 °C) - Abrasion-proof - Service life of 100 years (certified by LGA expert's report)
Maintenance	<ul style="list-style-type: none"> - Can be subjected to high pressure cleaning up to 340 bar due to RAUSISTO formulation, certified by iro test certificate dated 03.05.2002 - Inspection-friendly colour 	<ul style="list-style-type: none"> - Easy maintenance due to smooth surfaces - Non-slip berm (proof proven by the BGIA) - Inspection-friendly colour
Installation	<ul style="list-style-type: none"> - Can be laid at temp. as low as -20 °C, proven by "ice crystal test", SKZ test certificate no. 36533/99 - Easy to handle 	<ul style="list-style-type: none"> - Can be laid at temp. as low as -20 °C, proven by "ice crystal test", SKZ test certificate no. 36533/99 - Easy to handle (low weight)

AWADUKT PP SN10 RAUSISTO

AN INTERNATIONALLY APPROVED AND PROVEN HEAVY DUTY SEWER PIPE SYSTEM

AWADUKT PP pipes have been produced in Germany to the highest quality standards for more than 10 years.

AWADUKT PP is now delivered far beyond Germany's borders. Owing to the fact that almost every country has their own specific requirements for its sewer systems, they have to be tested and approved according to country-specific standards. AWADUKT HPP/AWADUKT PP SN10 have, amongst others, special approvals for Switzerland, Austria, Belgium and Poland.

REHAU continuously checks the quality of **AWADUKT PP pipes** and fittings. In addition to this, pipes and fittings are regularly quality-controlled by external test institutes.

Special investigations and tests, such as e.g. regarding the life span and impermeability to infiltration water are carried out by the LGA Nuremberg or IKT.



AWADUKT PP SN10 RAUSISTO

MADE IN GERMANY

Modern production processes, such as extrusion and injection moulding:

- High consistent quality
- Many years of experience
- Short delivery times

1A Quality:

- Polypropylene
- Filler-free
- Chemically resistant
- 100 % leak-proof
- Static load-bearing capability
- Durable
- Easy to handle



Plant Viechtach – Production of AWADUKT HPP/AWADUKT PP SN10

THE PRODUCT VARIANTS

The REHAU AWADUKT PP SN10 RAUSISTO heavy duty sewer pipe systems meet the DIN EN 1852 standard, which is valid across the whole of Europe for polypropylene sewer pipe systems.

They are continuously quality-controlled internally and externally to all of the stringent requirements of DIN EN 1852 and possess all of the country-specific approvals and certifications.

With the **proven ring stiffness SN10**, the REHAU products supplied **even go beyond the requirements of the standard** and therefore **offer additional safety**.

With the variety of application areas and requirements in terms of sewer pipe construction, REHAU'S AWADUKT PP SN10 RAUSISTO range of products has grown continuously and has developed into a reasonable selection of designs, which cater for practically every application.



AWADUKT PP SN10

The classic AWADUKT PP SN10 sewer pipe system is suitable for all standard drainage applications on which high demands are made. It can be identified by its orange colour. The double push-fit socket, which is pre-assembled in the factory, is characterised by a white-blue stamp.



AWADUKT PP SN10 blue

Differs from the standard AWADUKT PP SN10 in orange only in colour and is therefore ideally suited for the application as a storm sewer thanks to its azure blue colour which symbolises pure water. It is therefore ideally suited to modern separation systems.



AWADUKT PP SN10 OIL PROTECT

Differs from the standard AWADUKT PP SN10 in the gasket and, to distinguish it visually, it is fitted with black clip-on rings.

It is the NBR seal used which makes the important difference, making the pipe / moulding systems suitable for special applications in the filling station or commercial kitchens sector, such as e.g. feed lines for oil separators.



AWADUKT PP SN10 FUSION

The smooth-ended pipe system is intended especially for longitudinal weld connections. It does not matter here whether the connection is created using heated tool welding or electrofusion jointing.

	AWADUKT PP SN10 AWADUKT PP SN10 FUSION	AWADUKT PP SN10 blue	AWADUKT PP SN10 OIL PROTECT
Field of application	Waste water and storm water	Storm water	Waste water containing oil and petrol*
Area of application	combined or separate system	separate system	separate or combined system
Special features	Faulty connections are avoided through the use of clear colour marking and identification	Faulty connections are avoided through the use of clear colour marking and identification (for the separation system)	Faulty connections are avoided through the use of clear colour marking
Material	Polypropylene	Polypropylene	Polypropylene
Colour	Orange	Azure blue	Orange with black clip-on rings
Standard	DIN EN 1852, filler-free	DIN EN 1852, filler-free	DIN EN 1852, filler-free
Ring stiffness	10 kN/m ² (=SN10)	10 kN/m ² (=SN10)	10 kN/m ² (=SN10)
System stiffness	SN10 to DIN EN ISO 9969	SN10 to DIN EN ISO 9969	SN10 to DIN EN ISO 9969
Loads	High static and dynamic loads up to SLW 60	High static and dynamic loads up to SLW 60	High static and dynamic loads up to SLW 60
Wall structure	Solid wall construction	Solid wall construction	Solid wall construction
Inside	Smooth	Smooth	Smooth
Sealing system	SL (Safety Lock) seal system**	SL (Safety Lock) sealing system	SL (Safety Lock) sealing system
Compatibility	With AWADUKT PP - Pipes - Fittings With AWASCHACHT With AWADOCK	With AWADUKT PP - Pipes - Fittings With AWASCHACHT With AWADOCK	With AWADUKT PP - Pipes - Fittings With AWASCHACHT With AWADOCK
Laying length [m]	1** 3** 6 10***	1 3 6	1 3 6
DN/OD 110	x x x x		x x x
DN/OD 160	x x x x	x x x	x x x
DN/OD 200	x x x x	x x x	x x x
DN/OD 250	x x x x	x x x	x x x
DN/OD 315	x x x x	x x x	x x x
DN/OD 400	x x x	x x	x x
DN/OD 500	x x x	x x	x x
DN/OD 630	x x x	x x	

* Please note the "chemical resistance" in the "planning and installation"

** section does not apply for AWADUKT PP SN10 FUSION

*** only applies for AWADUKT PP SN10 FUSION

THE PRODUCT PROPERTIES AND THE BENEFITS TO YOU SAFETY FOR GENERATIONS

Benefit from the many advantages of AWADUKT PP SN10 RAUSISTO heavy duty sewer pipe systems:



1 The properties for installation

- Large wall thicknesses
- Filler-free polypropylene to DIN EN 1852
- Proven ring stiffness **SN10** (10 kN/m²)

The benefits to you:

- Cost saving:
 - Time-consuming and expensive soil replacement is often not required
 - Use of coarse bedding material to DIN EN 18152
 - High safety buffer against mechanical damage:
 - In harsh building site conditions
 - At low temperatures up to -20 °C



- High impact strength even at low temperatures



2 The properties for operation

- High proven endurance limit
- Use of high quality polypropylene to DIN EN 18152
- Solid wall construction
- **High wall thicknesses**

The benefits to you:

- Universal application:
 - Even under high moving loads and low top fills
 - Increased buckling security at deep installation depths and high groundwater levels



- High abrasion resistance due to special RAUSISTO formulation
- Chemical and thermal loading capacity

Durable function:

- No major abrasion visible, even after decades of operation
- Used for industrial waste water containing chemicals



- Securely fitted gasket with the special SL (Safety-Lock) sealing system
- High leak-tightness is even guaranteed in the case of deformation or bending
- Impermeability to infiltration water of the REHAU sewer system solution was confirmed during a series of tests carried out by IKT

- The gasket cannot be pushed out accidentally even during a push-fit connection
- Can also be used in sensitive areas such as Water Protection Areas II and III

- Durable leak-tightness
- Savings in waste water treatment



3 The properties for maintenance

- Smooth interior surface due to RAUSISTO formulation
- High wall thicknesses

The benefits to you:

- Low maintenance:
- As low solid substance adhesion
 - High safety buffer during sewer cleaning, even at cleaning pressures of up to 340 bar



- Internal identification above DN 160 on the socket lug or the interior surface of the pipe with details about manufacturer, product description and dimension

- Can be clearly identified even after installation during sewer inspection



4 The properties: Durability

Certified service life (LGA Nuremberg) of a minimum of **100 years** on the basis of:

- 1A Raw materials
- Filler-free
- Solid wall design
- Long-term hydrostatic strength
- Endurance limit
- Finite element calculation

The benefits to you:

- Reduced depreciation costs due to long depreciation periods
- Avoiding renovation costs



BACKFILLING MATERIALS

FOR AWADUKT PP SN10

Permitted backfilling materials for AWADUKT PP SN10 (DIN EN 1610)

Load-bearing capacity up to SLW 60, static calculation is recommended

Backfilling material	Grain size (even distribution)	AWADUKT PP SN10	
		DN 110 - DN 200	DN 250 - DN 630
Pipe backfilling sans	0 - 4	●	●
Circular grit	0 - 4	●	●
	0 - 8	●	●
Round gravel/round gravel mixture	2 - 4	●	●
	4 - 8	●	●
	8 - 11	●	●
	11 - 16	●	●
	16 - 32	-	●
	4 - 8	●	●
Gravel mixture (crushed material)	4 - 16	●	●
	8 - 16	●	●
	16 - 32	-	●
	0 - 16	●	●
	0 - 32	-	●
	0 - 40	-	●
	4 - 8	●	●
Gravel mixture (crushed material)	4 - 16	●	●
	8 - 16	●	●
	16 - 32	-	●
	0 - 16	●	●
	0 - 32	-	●
	0 - 40	-	●
	4 - 8	●	●
Graded gravel (crushed material)	0 - 16	●	●
	0 - 32	-	●
	0 - 40	-	●
Recycled gravel (crushed material) such as e.g. recycled concrete and tiles	0 - 16	●	●
	0 - 32	-	●
	0 - 40	-	●
Vitreous sand, vitreous sand chippings and vitreous chippings from recycled glass	0 - 8	●	●
Vitreous sand chippings from recycled glass	0 - 8	●	●
	4 - 8	●	●
Other non-standard backfilling materials can only be used following the approval of REHAU.			
● suitable			

THE AREAS OF APPLICATION

The REHAU AWADUKT PP SN10 RAUSISTO heavy duty sewer pipe systems offer a range of benefits and can therefore be used for a wide range of applications. They are designed for sewage pipes which are subjected to high loads.



Municipal drainage:

- Development of new areas
- Sewer replacement



Industry:

- Very good chemical resistance (ph values 1-13)
- Suitable for heavy goods traffic



Dairy:

- High temperature resistance and cycle stability
- Resistant to cleaning agents



Airports:

- High static and dynamic loading capacity
- Oil and petrol-resistant sealing system



Extreme wheel loads:

- Container terminal
- Special transport vehicles



Water Protection Areas II and III:

- Fulfils all the requirements of ATV-DVWK-A142
- Proven leak-tightness above 2.5 bar
- Firmly inserted gasket
- High wall thicknesses



Liquidised soil:

- High longitudinal rigidity



Special applications:

- Longitudinally stable welding joints
- Steep gradient drainage

TEXT FOR INVITATIONS TO TENDER

THE TEXTS FOR INVITATIONS TO TENDER ARE AVAILABLE FROM A REHAU SALES OFFICE OR AS A DOWNLOAD FROM THE INTERNET AT WWW.REHAU.DE/TIEFBAU

Sample extract:

Heavy duty-solid wall-sewer pipe DN 315 Polypropylene SN10

Supply and installation of heavy duty, solid wall sewer pipe, incl. bedding and backfilling.

Pipes to DIN EN 1852 with push-fit socket and firmly inserted EPDM gasket (standard), ring stiffness min. 10 kN/m² proven, highly abrasion-resistant, without the addition of fillers.

Pipeline marked on the inside with manufacturer, diameter and raw material details.

Colour: Orange

Bottom bedding layer to DIN EN 1610 Type 1, 100 mm, support angle 90 degrees, cover 150 mm, backfilling material for bedding layers, side filling and cover to DIN EN 1610, Proctor density: min. 95 %.

Pipeline, e.g. REHAU AWADUKT PP SN10 RAUSISTO or similar type.

Quoted product/type:

To be completed by bidder

1.00 m



The parameters for the bedding layer, support angle and cover specified in the items for pipe installation are variable and depend on the relevant soil values as well as the installation situation.

PRODUCT RANGE AND PRICE LIST

AWADUKT PP SN10

HEAVY DUTY POLYPROPYLENE SEWER PIPE SYSTEM TO DIN EN 1852

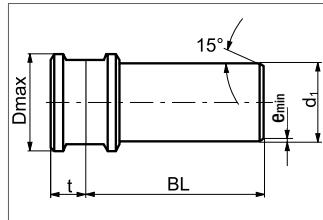
KGEM

AWADUKT PP SN10

Pipe with push-fit socket and EPDM sealing rings
to DIN EN 1852

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	BL [mm]	d ₁ [mm]	Dmax [mm]	t [mm]	e _{min} [mm]	Weight without Socket [kg/m]	Unit/ pal.		
170007-106	110	1000	110	130	61	4.2	1.5	80		
170017-106	110	3000	110	130	61	4.2	1.5	80		
170347-106	110	6000	110	130	61	4.2	1.5	80		
170131-106	160	1000	160	193	87	6.2	3.1	35		
170141-106	160	3000	160	193	87	6.2	3.1	35		
170037-106	160	6000	160	193	87	6.2	3.1	35		
170171-106	200	1000	200	240	101	7.7	4.7	20		
170181-106	200	3000	200	240	101	7.7	4.7	20		
170047-106	200	6000	200	240	101	7.7	4.7	20		
248093-106	250	1000	250	296	135	9.6	7.4	12		
248103-106	250	3000	250	296	135	9.6	7.4	12		
170057-106	250	6000	250	296	135	9.6	7.4	12		
248123-106	315	1000	315	365	145	12.1	10.5	9		
248133-106	315	3000	315	365	145	12.1	10.5	9		
170067-106	315	6000	315	365	145	12.1	10.5	9		
227285-106	400	1000	400	460	170	15.3	17.6	6		
221395-106	400	3000	400	460	170	15.3	17.6	6		
237182-106	400	6000	400	460	170	15.3	17.6	6		
210236-106	500	1000	500	570	195	19.1	27.5	4		
234299-106	500	3000	500	570	195	19.1	27.5	4		
234526-106	500	6000	500	570	195	19.1	27.5	4		
211393-001*	630	1000	630	710	215	24.1	44.0	2		
211403-001	630	3000	630	710	215	24.1	44.0	2		
211413-001	630	6000	630	710	215	24.1	44.0	2		

*Delivery time on request

Make-up for delivery AWADUKT PP SN10 pipes

Description	DN/OD	Laying lengths [mm]			Pipes/pal. [Stck.]	Pal. width approx. [m]	Pal. height approx. [m]	Pal. length [m] per BL		
		1000	3000	6000				1000	3000	6000
KGEM	110	1000	3000	6000	80	1.17	0.99	1.22	3.22	6.22
KGEM	160	1000	3000	6000	35	1.17	0.91	1.28	3.28	6.28
KGEM	200	1000	3000	6000	20	1.05	0.90	1.35	3.35	6.35
KGEM	250	1000	3000	6000	12	1.05	0.86	1.43	3.43	6.43
KGEM	315	1000	3000	6000	9	1.00	1.05	1.47	3.47	6.47
KGEM	400	1000	3000	6000	6	1.25	0.91	1.55	3.55	6.55
KGEM	500	1000	3000	6000	4	1.10	1.10	1.60	3.60	6.60
KGEM	630	1000	3000	6000	2	1.35	0.73	1.75	3.75	6.75

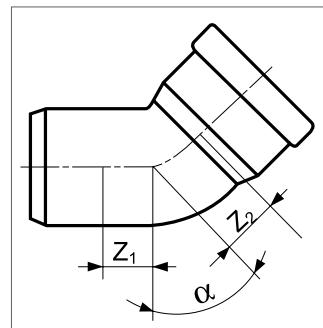
KGB

AWADUKT PP bend

with EPDM sealing ring

Material: RAU-PP 2300

Colour: orange



Art. no.	DN/OD	α	z_1 [mm]	z_2 [mm]	Weight [kg/pc.]	VPE
247411-001	110	15°	8	12	0.26	25
247421-001	110	30°	17	19	0.28	25
247431-001	110	45°	26	29	0.30	40
247441-001	110	88°	60	66	0.38	25
247451-002	160	15°	10	17	0.69	120
247461-002	160	30°	24	28	0.75	95
247471-002	160	45°	37	42	0.86	90
247481-002	160	88°	88	99	1.08	60
247621-002	200	15°	15	32	1.06	60
247631-002	200	30°	30	47	1.19	50
247641-002	200	45°	46	63	1.31	48
247651-002	200	88°	105	122	1.69	32
247661-004	250	15°	19	39	1.70	32
247671-004	250	30°	37	58	1.90	24
247681-004	250	45°	57	78	2.10	21
247691-004	250	88°	132	152	2.90	16
247701-002	315	15°	23	50	2.70	14
247711-002	315	30°	47	73	3.10	12
247721-002	315	45°	72	98	3.40	11
247731-002	315	88°	166	192	4.60	8
239342-003	400	15°	64	237	11.64	5
239352-003	400	30°	93	264	12.35	4
239362-003	400	45°	238	408	17.04	3
237313-003	400	88°	533	702	27.80	1
234536-003	500	15°	101	244	20.16	2
234546-003	500	30°	135	276	23.60	2
234556-003	500	45°	285	428	33.92	2
234566-003	500	88°	604	747	55.72	1
411372-005*	630	15°	125	350	61.82	loose
411382-005*	630	30°	184	382	61.82	loose
411392-005*	630	45°	554	769	72.78	loose
411402-005*	630	88°	1082	1297	107.55	loose

*Delivery time on request

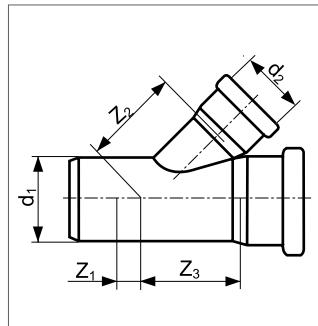
KGEA

AWADUKT PP single branch 45°

with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD [d1/d2]	z_1 [mm]	z_2 [mm]	z_3 [mm]	Weight [kg/pc]	Delivery unit
247491-001	110/110	26	140	140	0.67	16
247501-001	160/110	5	179	164	0.95	8
247511-002	160/160	37	204	204	2.24	32
247741-002	200/160	47	245	255	2.75	18
247751-002	200/200	47	255	255	3.10	16
247761-004	250/160	22	272	276	3.55	12
246457-004	250/200	22	290	276	3.94	12
237674-005	250/250	82	462	463	8.72	4
247771-004	315/160	-10	322	312	5.62	8
247781-004	315/200	-10	339	312	5.85	8
232794-005	315/250	49	508	496	11.74	4
232784-005	315/315	88	545	547	15.04	2
233014-002	400/160	-33	405	354	10.90	5
239382-002	400/200	-33	405	354	11.10	4
239392-005	400/250	16	568	549	17.37	2
239402-005	400/315	61	602	599	20.52	2
237453-005	400/400	123	643	667	23.00	1
236537-005	500/160	37	594	533	20.20	1
234586-005	500/200	2	614	568	21.80	2
234596-005	500/250	240	639	605	23.50	1
234606-005*	500/315	286	673	649	28.60	1
234616-005*	500/400	358	734	717	34.00	1
225215-005*	500/500	509	794	796	36.50	1
411412-005*	630/160	-102	696	602	39.40	loose
411422-005*	630/200	-76	717	636	42.70	loose
411432-005*	630/250	-39	741	669	48.40	loose
411442-005*	630/315	8	788	707	54.70	loose
411452-005*	630/400	69	828	786	67.70	loose
411462-005*	630/500	137	878	849	86.00	loose
411472-005*	630/630	229	951	955	115.50	loose

*Delivery time on request

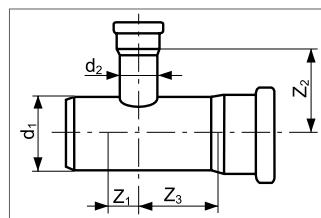
KGEA

AWADUKT PP single branch 90°

with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD [d1/d2]	z_1 [mm]	z_2 [mm]	z_3 [mm]	Weight [kg/pc]	Delivery unit
221783-005*	160/110	85	160	135	1.95	loose
221784-002	160/160	83	88	88	2.12	51
220790-005	200/160	110	180	160	3.73	loose
235089-005*	200/200	130	180	180	3.89	loose
232257-005	250/160	110	205	160	4.25	loose
231507-005*	250/200	130	205	180	4.90	loose
235099-005*	250/250	155	210	210	6.95	loose
222548-005	315/160	110	243	160	9.20	loose
221785-005*	315/200	130	243	180	9.50	loose
229278-005*	315/250	154	243	206	10.20	loose
235109-005*	315/315	197	243	243	12.20	loose
222558-005*	400/160	120	285	160	13.00	loose
227588-005*	400/200	140	285	185	15.30	loose
229288-005*	400/250	165	285	210	15.80	loose
227598-005*	400/315	197	285	243	17.10	loose
227608-005*	400/400	245	290	285	21.70	loose
222568-005*	500/160	410	340	160	15.80	loose
224777-005*	500/200	387	340	183	22.50	loose
221788-005*	500/250	530	350	195	18.00	loose
229298-005*	500/315	557	360	218	30.70	loose
229308-005*	500/400	564	360	261	33.30	loose
229318-005*	500/500	654	360	321	45.60	loose
411482-005*	630/160	180	415	155	30.10	loose
411492-005*	630/200	200	415	175	32.10	loose
411502-005*	630/250	225	420	200	37.80	loose
411512-005*	630/315	258	425	232	43.20	loose
411522-005*	630/400	305	425	275	54.10	loose
411532-005*	630/500	350	425	335	69.70	loose
411542-005*	630/630	416	425	404	97.00	loose

*Delivery time on request

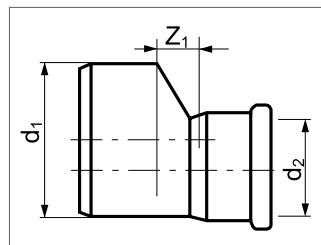
KGR

AWADUKT PP connecting reducer

with EPDM sealing ring

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD [d1/d2]	z_1 [mm]	Weight [kg/pc]	Delivery unit
247521-001	160/110	34	0.53	20
247791-002	200/160	40	0.94	72
247801-002	250/200	50	1.77	48
247811-002	315/250	10	3.38	24
237323-003	400/315	63	5.14	10
234626-003	500/400	82	10.91	4
411552-005*	630/500	115	17.00	loose

*Delivery time on request

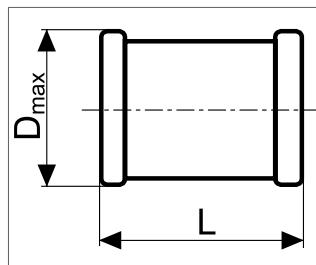
KGU

AWADUKT PP sleeve coupler

with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	L [mm]	D_{max} [mm]	Weight [kg/pc]	Delivery unit
247531-001	110	122	130	0.27	30
247541-002	160	180	193	0.78	96
247821-002	200	206	240	1.00	60
247831-002	250	269	296	2.05	32
247841-002	315	290	365	2.94	16
247891-002	400	350	470	6.60	8
287001-002	500	400	570	10.20	lose
411562-001	630	430	710	13.60	lose

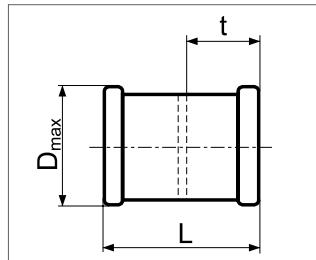
KGMM

AWADUKT PP double socket coupler

with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	L [mm]	D_{max} [mm]	t [mm]	Weight [kg/pc]	Delivery unit
247551-001	110	122	130	61	0.28	30
247561-002	160	180	193	87	0.82	96
247851-002	200	206	240	101	1.05	60
247861-002	250	269	296	135	2.10	32
247871-002	315	290	365	145	3.00	16
247881-002	400	350	470	170	6.80	8
234636-002	500	400	570	195	10.50	lose
411572-001	630	430	710	215	14.00	lose

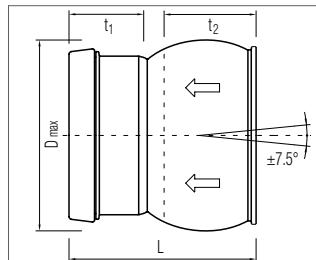
Ball joint

AWADUKT PP ball joint

Adjustable up to +/- 7.5° horizontally or vertically with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	Design	DN/OD	L [mm]	D_{max} [mm]	t_1 [mm]	t_2 [mm]	Weight [kg/pc]	Delivery unit
176045-001	Socket/Socket	160	202	210	82	101	1.31	72
176055-001	Socket/Spigot	160	207	210	—	101	1.21	92

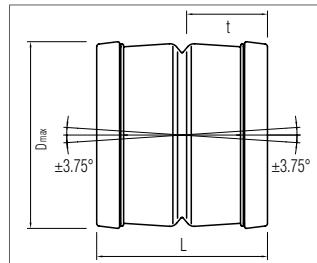
KGMM vario

AWADUKT PP double socket coupler

Adjustable up to +/- 7.5° horizontally or vertically with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	L [mm]	D _{max} [mm]	t [mm]	Weight [kg/pc]	Delivery unit
176065-001	200	212	193	102	1.05	54
176075-001	250	260	296	120	1.85	32
176085-001	315	298	365	136	3.30	16

AWADOCK KG-KG DN 160

Connection of PVC and PP sewer pipes DN/OD 160 to smooth-walled plastic pipes

Adjustable up to ± 7.5° horizontally or vertically

Material: PP/EPDM/Q-TE-C

Colour: Orange/Grey/Black



Art. no.	Main pipe/connecting pipe DN/OD	Weight [kg/pc]	Boxes/Pallet
171551-200	200/160	4.00	48
171561-250	250/160	4.00	48
171571-315	315/160	4.00	48
171581-400	400/160	4.00	48
171591-500	500/160	4.00	48
171601-630	630/160	4.00	48

AWADOCK KG-KG DN 200

Connection of PVC, PP and GRP sewer pipes DN/OD 200 to smooth-walled plastic pipes

Adjustable up to ± 4° horizontally or vertically

Material: PP/EPDM/Q-TE-C

Colour: Orange/Grey/Black



Art. no.	Main pipe/connecting pipe DN/OD	Boxes/Pallet
172121-250	250/200	36
172131-315	315/200	36
172141-400	400/200	36
172151-500	500/200	36
172161-630	630/200	36

Installation wrench set

Specially developed for the assembly of AWADOCK POLYMER CONNECT

Material: Stainless steel

Colour: Silver



Art. no.	Description	Delivery unit
190497-001	Installation wrench set AWADOCK PC (2-piece)	individually

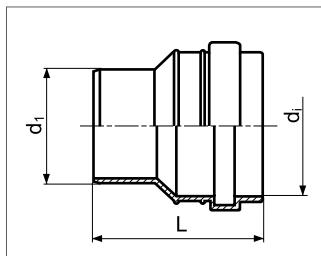
KGUS

AWADUKT-PP connecting piece

clay spigot end to plastic

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	d ₁ [mm]	d ₂ [mm]	L [mm]	Weight [kg/pc]	Delivery unit
212215-002	160	160	194	262	1.45	75

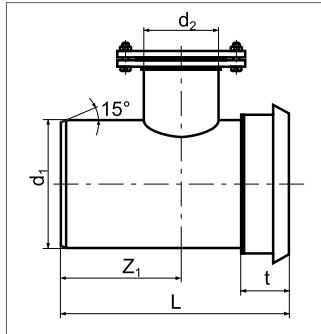
KGRE

AWADUKT PP access pipe

with EPDM sealing rings

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	d1 [mm]	d2 [mm]	L [mm]	t [mm]	Z1 [mm]	Weight [kg/pc]	Delivery unit
220338-005 *	160	160	110	340	82	167	3.35	loose
220340-005 *	200	200	160	430	101	211	5.38	loose
220344-005 *	250	250	200	530	135	265	8.05	loose
220346-005 *	315	315	250	610	145	300	12.80	loose
220348-005 *	400	400	250	630	155	310	19.85	loose
220350-005 *	400	400	315	690	155	343	23.45	loose
220354-005 *	500	500	250	690	185	340	24.80	loose
220356-005 *	500	500	315	750	185	373	28.45	loose

*Delivery time on request

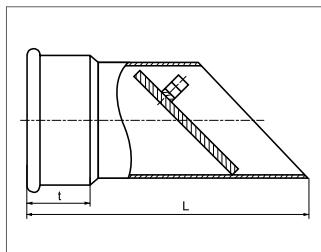
AWADUKT PP outlet

with flap gate

with EPDM sealing ring

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	L [mm]	t [mm]	Weight [kg/pc]	Delivery unit
221790-005	110	345	61	0.43	loose
221800-005	160	410	82	1.11	loose
221810-005	200	565	101	2.42	loose
221820-005	250	675	135	4.18	loose
221830-005	315	755	145	7.50	loose
223860-005 *	400	840	155	19.80	loose
223870-005 *	500	975	190	27.50	loose
212601-005 *	630	1095	205	38.00	loose

*Delivery time on request

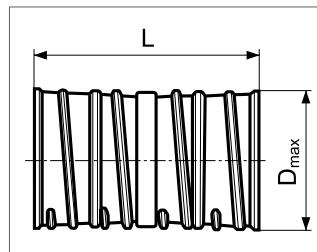
KGF-SB

AWADUKT chamber lining

with lip sealing ring

Material: RAU-SB 100

Colour: Natural



Art. no.	DN/OD	Fitted L [mm]	D _{max} ca. [mm]	Weight [kg/pc]	Delivery unit
172450-050	110	110	131	0.29	378
172470-050	160	110	185	0.46	168
172480-050	200	110	226	0.61	140
177410-001	250	110	279	1.02	77
177420-001	315	110	354	1.50	42
177400-001	400	110	441	1.66	40
177470-003	500	110	547	3.06	28
172260-050	110	240	137	0.57	144
172280-050	160	240	190	0.90	72
172290-050	200	240	232	1.19	60
172330-003	250	240	290	1.78	33
172340-003	315	240	359	2.64	18
172350-002	400	240	448	3.60	15
172490-003	500	240	554	5.17	12
172005-001*	630	120	705	15.50	8

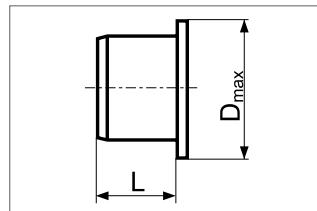
*Material: Fibre cement

KGM

AWADUKT socket plugs

Material: RAU-PUR 100

Colour: Natural



Art. no.	DN/OD	L [mm]	D _{max} [mm]	Weight [kg/pc]	Delivery unit
171380-050	110	38	116	0.10	1380
171400-050	160	49	167	0.16	510
171410-050	200	59	209	0.25	280
174260-004	250	89	262	0.50	130
174270-005	315	89	330	0.63	84
174280-004	400	92	418	1.10	50
212599-005*	500	135	550	10.00	loose
212609-005*	630	165	680	15.00	loose

*Delivery time on request; Material: RAU-PP 2300; Colour Orange

Lubricant for push-fit socket connections



Art. no.	Contents	Delivery unit
176520-003	250 ml	50
172960-003	500 ml	24
178750-001	1000 ml	324

AWADUKT PP disc cutter

for cutting AWADUKT PP pipes



Art. no.	D _a	D _i
298928-001	230	22
210668-001	350	20
210678-001	350	25

By using this disc cutter, fusing or sticking during the separation process is kept to a minimum. In this way even thick-walled PP pipes can be separated quickly and without any problems.

AWADUKT CUT

Cutting device for effortless cutting and chamfering of PP and PVC pipes DN 110-DN 315 in one operation.
Set consisting of:

- 1 Impact resistant case
- 1 Cutting device 1200 W with special disc cutter
- 6 Marking tapes DN 110-DN 315
- 2 Pulley blocks
- 1 Face spanner
- 1 Screw driver



Art. no.
400009-001

Disc cutter for AWADUKT CUT

Disc cutter (only suitable for AWADUKT CUT)



Art. no.	D _a
400019-001	140

PRODUCT RANGE AND PRICE LIST

AWADUKT PP SN10 BLUE

HEAVY DUTY POLYPROPYLENE SEWER PIPE SYSTEM TO DIN EN 1852

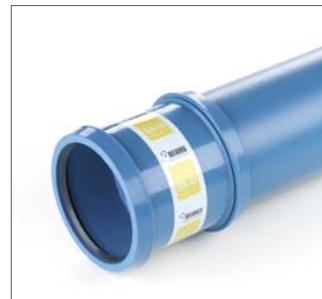
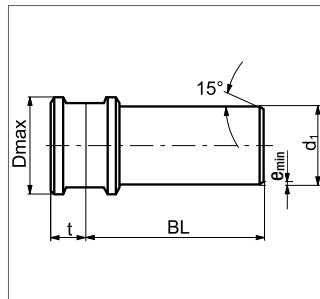
KGEM

AWADUKT PP SN10

Pipe with push-fit socket and EPDM sealing rings
to DIN EN 1852

Material: RAU-PP 2300

Colour: RAL 5009 Azure blue



Art. no.	DN/OD	BL [mm]	d, [mm]	Dmax [mm]	t [mm]	e _{min} [mm]	Weight excl. socket [kg/m]	Unit/ pal.
170131-116	160	1000	160	193	87	6.2	3.1	35
170141-116	160	3000	160	193	87	6.2	3.1	35
170037-116	160	6000	160	193	87	6.2	3.1	35
170171-116	200	1000	200	240	101	7.7	4.7	20
170181-116	200	3000	200	240	101	7.7	4.7	20
170047-116	200	6000	200	240	101	7.7	4.7	20
248093-116	250	1000	250	296	135	9.6	7.4	12
248103-116	250	3000	250	296	135	9.6	7.4	12
170057-116	250	6000	250	296	135	9.6	7.4	12
248123-116	315	1000	315	365	145	12.1	10.5	9
248133-116	315	3000	315	365	145	12.1	10.5	9
170067-116	315	6000	315	365	145	12.1	10.5	9
227285-116	400	1000	400	460	170	15.3	17.6	6
221395-116	400	3000	400	460	170	15.3	17.6	6
237182-116	400	6000	400	460	170	15.3	17.6	6
210236-116	500	1000	500	570	195	19.1	27.5	4
234299-116	500	3000	500	570	195	19.1	27.5	4
234526-116	500	6000	500	570	195	19.1	27.5	4
211403-016*	630	3000	630	690	215	24.1	44.0	2
211413-016*	630	6000	630	690	215	24.1	44.0	2

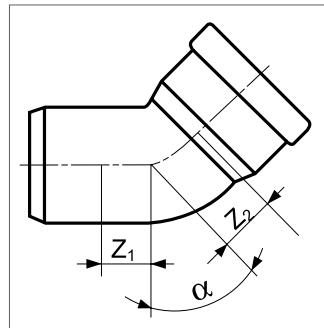
*Delivery time on request

Make-up for delivery AWADUKT PP SN10 blue pipes

Description	DN/OD	Laying lengths [mm]			Pipes/pal. [Pc]	Pal. width approx. [m]	Pal. height approx. [m]	Pal. length [m] per BL		
		1000	3000	6000				1000	3000	6000
KGEM	160	1000	3000	6000	35	1.17	0.91	1.28	3.28	6.28
KGEM	200	1000	3000	6000	20	1.05	0.90	1.35	3.35	6.35
KGEM	250	1000	3000	6000	12	1.05	0.86	1.43	3.43	6.43
KGEM	315	1000	3000	6000	9	1.00	1.05	1.47	3.47	6.47
KGEM	400	1000	3000	6000	6	1.25	0.91	1.55	3.55	6.55
KGEM	500	1000	3000	6000	4	1.10	1.10	1.60	3.60	6.60
KGEM	630	-	3000	6000	2	1.35	0.73	-	3.75	6.75

KGB

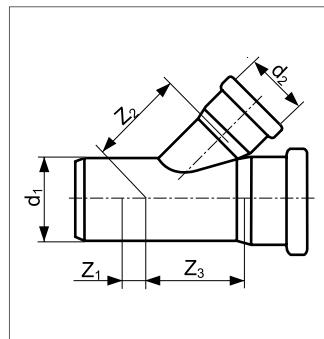
AWADUKT PP bend
with EPDM sealing ring
Material: RAU-PP 2300
Colour: RAL 5009 Azure blue



Art. no.	DN/OD	α	z_1 [mm]	z_2 [mm]	Weight [kg/pc]	Delivery unit
247451-056	160	15°	10	17	0.69	120
247461-056	160	30°	24	28	0.75	95
247471-056	160	45°	37	42	0.86	90
247481-056	160	88°	88	99	1.08	60
247621-056	200	15°	12	21	1.06	60
247631-056	200	30°	28	34	1.19	50
247641-056	200	45°	44	48	1.31	48
247651-056	200	88°	105	110	1.69	32

KGEA

AWADUKT PP single branch 45°
with EPDM sealing rings
Material: RAU-PP 2300
Colour: RAL 5009 Azure blue

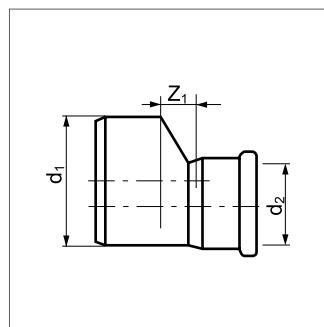


Art. no.	DN/OD [d ₁ /d ₂]	z_1 [mm]	z_2 [mm]	z_3 [mm]	Weight [kg/pc]	Delivery unit
247511-056	160/160	37	204	204	2.24	32
247741-056	200/160	47	245	255	2.75	18
247751-056	200/200	47	255	255	3.10	16
247761-056	250/160	22	272	276	3.55	12
247771-056	315/160	-10	322	312	5.62	8
233014-026	400/160	-33	405	354	10.90	5
236537-016*	500/160	37	594	533	20.20	2

*Delivery time on request

KGR

AWADUKT PP connecting reducer
with EPDM sealing ring
Material: RAU-PP 2300
Colour: RAL 5009 Azure blue



Art. no.	DN/OD [d ₁ /d ₂]	z_1 [mm]	Weight [kg/pc]	Delivery unit
247791-056	200/160	40	0.64	72

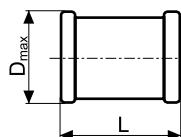
KGU

AWADUKT PP sleeve coupler

with EPDM sealing rings

Material: RAU-PP 2300

Colour: RAL 5009 Azure blue



Art. no.	DN/OD	L [mm]	D _{max} [mm]	Weight [kg/pc]	Delivery unit
247541-056	160	180	193	0.78	96
247821-056	200	206	240	1.00	60
247831-056	250	269	296	2.05	32
247841-056	315	290	365	2.94	16

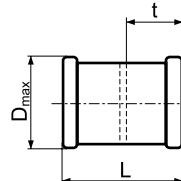
KGMM

AWADUKT PP double socket coupler

with EPDM sealing rings

Material: RAU-PP 2300

Colour: RAL 5009 Azure blue



Art. no.	DN/OD	L [mm]	D _{max} [mm]	t [mm]	Weight [kg/pc]	Delivery unit
247561-056	160	180	193	87	0.82	96
247851-056	200	206	240	101	1.05	60
247861-056	250	269	296	135	2.10	30
247871-056	315	290	365	145	3.00	16
247881-056	400	350	470	170	6.80	8
234636-056	500	400	570	195	10.50	loose
411572-016*	630	430	690	215	14.00	loose

*Delivery time on request

PRODUCT RANGE AND PRICE LIST

AWADUKT PP SN10 OIL PROTECT*

HEAVY DUTY POLYPROPYLENE SEWER PIPE SYSTEM TO DIN EN 1852

* Assembly to order therefore applicable to all articles: Delivery time on request

KGEM

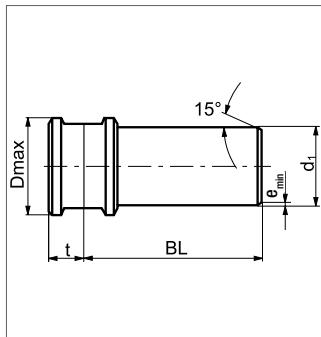
AWADUKT PP SN10 OIL PROTECT

Pipe with push-fit socket and oil/petrol resistant

Sealing rings, to DIN EN 1852

Material: RAU-PP 2300

Colour: Orange (with black clip-on rings)



Article	DN/OD	Laying length [mm]	d ₁ [mm]	D _{max} [mm]	t [mm]	e _{min} [mm]	Weight excl. socket [kg/m]	Unit/ Pal.
170077-106	110	1000	110	130	61	4.2	1.5	80
170087-106	110	3000	110	130	61	4.2	1.5	80
170357-106	110	6000	110	130	61	4.2	1.5	80
170107-106	160	1000	160	193	87	6.2	3.1	35
170117-106	160	3000	160	193	87	6.2	3.1	35
170367-106	160	6000	160	193	87	6.2	3.1	35
170137-106	200	1000	200	240	101	7.7	4.7	20
170147-106	200	3000	200	240	101	7.7	4.7	20
170377-106	200	6000	200	240	101	7.7	4.7	20
170167-106	250	1000	250	296	135	9.6	7.4	12
170177-106	250	3000	250	296	135	9.6	7.4	12
170387-106	250	6000	250	296	135	9.6	7.4	12
170197-106	315	1000	315	365	145	12.1	10.5	9
170207-106	315	3000	315	365	145	12.1	10.5	9
170397-106	315	6000	315	365	145	12.1	10.5	9
170156-106	400	3000	400	460	170	15.3	17.6	6
170166-106	400	6000	400	460	170	15.3	17.6	6
170176-106	500	3000	500	570	195	19.1	27.5	4
170186-106	500	6000	500	570	195	19.1	27.5	4

Make-up for delivery AWADUKT PP SN10 OIL PROTECT

Description	DN/OD	Laying lengths [mm]			Pipes/pal. [Pc]	Pal. width approx. [m]	Pal. height approx. [m]	Pal. length [m] per leng.		
		1000	3000	6000				1000	3000	6000
KGEM	110	1000	3000	6000	80	1.17	0.99	1.22	3.22	6.22
KGEM	160	1000	3000	6000	35	1.17	0.91	1.28	3.28	6.28
KGEM	200	1000	3000	6000	20	1.05	0.90	1.35	3.35	6.35
KGEM	250	1000	3000	6000	12	1.05	0.86	1.43	3.43	6.43
KGEM	315	1000	3000	6000	9	1.00	1.05	1.47	3.47	6.47
KGEM	400	-	3000	6000	6	1.25	0.91	-	3.55	6.55
KGEM	500	-	3000	6000	4	1.10	1.10	-	3.60	6.60

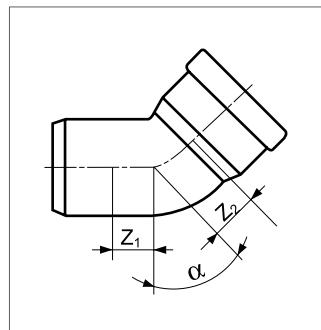
KGB

AWADUKT PP elbow

with oil/petrol resistant sealing ring

Material: RAU-PP 2300

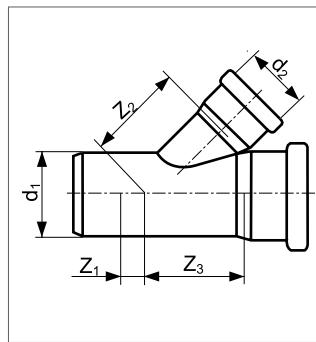
Colour: Orange (with black clip-on ring)



Art. no.	DN/OD	α	z_1 [mm]	z_2 [mm]	Weight [kg/pc]	Delivery unit
278376-001	110	15°	8	12	0.26	loose
278386-001	110	30°	17	19	0.28	loose
278396-001	110	45°	26	29	0.30	loose
278406-001	110	88°	60	66	0.38	loose
278416-001	160	15°	10	17	0.69	loose
278426-001	160	30°	24	28	0.75	loose
278436-001	160	45°	37	42	0.86	loose
278446-001	160	88°	88	99	1.08	loose
278456-001	200	15°	12	21	1.00	loose
278466-001	200	30°	28	34	1.10	loose
278476-001	200	45°	44	48	1.21	loose
278486-001	200	88°	105	110	1.50	loose
278496-001	250	15°	19	39	1.70	loose
278506-001	250	30°	37	58	1.90	loose
278516-001	250	45°	57	78	2.10	loose
278526-001	250	88°	132	152	2.90	loose
278536-001	315	15°	23	50	2.70	loose
278546-001	315	30°	47	73	3.10	loose
278556-001	315	45°	72	98	3.40	loose
278566-001	315	88°	166	192	4.60	loose
288465-001	400	15°	64	237	11.64	loose
288475-001	400	30°	93	264	12.35	loose
288485-001	400	45°	238	408	17.04	loose
288495-001	400	88°	533	702	27.80	loose
201634-001	500	15°	101	244	20.16	loose
201644-001	500	30°	135	276	23.60	loose
201654-001	500	45°	285	428	33.92	loose
201664-001	500	88°	604	747	55.72	loose

KGEA

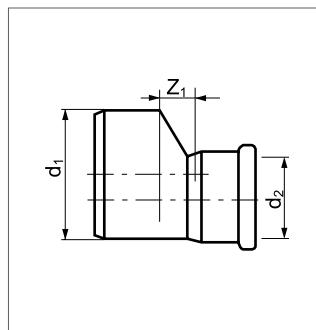
AWADUKT PP single branch 45°
with oil/petrol resistant sealing rings
Material: RAU-PP 2300
Colour: Orange (with black clip-on rings)



Art. no.	DN [d ₁ /d ₂]	Z ₁ [mm]	Z ₂ [mm]	Z ₃ [mm]	Weight [kg/pc]	Delivery unit
278576-001	110/110	26	140	140	0.67	loose
278586-001	160/110	5	179	164	0.95	loose
278596-001	160/160	37	204	204	2.24	loose
278606-001	200/160	47	245	255	2.75	loose
278616-001	200/200	47	255	255	3.10	loose
278626-001	250/160	22	272	276	3.16	loose
278646-001	250/200	22	290	276	5.92	loose
288899-001	250/250	82	462	463	8.72	loose
278656-001	315/160	-10	322	312	5.13	loose
278676-001	315/200	-10	339	312	9.17	loose
278686-001	315/250	49	508	496	11.74	loose
288441-001	315/315	88	545	547	15.04	loose
288505-001	400/160	-33	405	354	10.90	loose
201645-001	400/200	-33	405	354	11.10	loose
201655-001	400/250	16	568	549	17.37	loose
201665-001	400/315	61	602	599	20.52	loose
201675-001	400/400	123	643	667	23.00	loose
288561-001	500/160	37	594	533	20.20	loose
201699-001	500/200	2	614	568	21.80	loose
201709-001	500/250	240	639	605	23.50	loose
201719-001	500/315	286	673	649	28.60	loose
201729-001	500/400	358	734	717	34.00	loose
201739-001	500/500	509	794	796	36.50	loose

KGR

AWADUKT PP connecting reducer
with oil/petrol resistant sealing ring
Material: RAU-PP 2300
Colour: Orange (with black clip-on ring)



Art. no.	DN/OD [d ₁ /d ₂]	Z ₁ [mm]	Weight [kg/pc]	Delivery unit
278696-001	160/110	34	0.53	loose
278706-001	200/160	40	0.94	loose
278716-001	250/200	50	1.77	loose
278726-001	315/250	10	3.38	loose
201071-001	400/315	63	5.14	loose
201061-001	500/400	82	10.91	loose

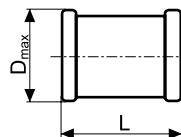
KGU

AWADUKT PP sleeve coupler

with oil/petrol resistant sealing rings

Material: RAU-PP 2300

Colour: Orange (with black clip-on rings)



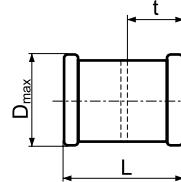
Art. no.	DN/OD	L [mm]	D _{max} [mm]	Weight [kg/pc]	Delivery unit
278736-001	110	122	130	0.27	loose
278746-001	160	180	193	0.78	loose
278756-001	200	206	240	1.00	loose
278766-001	250	269	296	2.05	loose
278776-001	315	290	365	2.94	loose
288293-001	400	350	470	6.60	loose
288571-001	500	400	570	10.20	loose

KGMM

AWADUKT PP double socket coupler
with oil/petrol resistant sealing rings

Material: RAU-PP 2300

Colour: Orange (with black clip-on rings)



Art. no.	DN/OD	L [mm]	D _{max} [mm]	t [mm]	Weight [kg/pc]	Delivery unit
278786-003	110	122	130	61	0.28	loose
278796-001	160	180	193	87	0.82	loose
278816-001	200	206	240	101	1.05	loose
278826-001	250	269	296	135	2.10	loose
278836-001	315	290	365	145	3.00	loose
286554-001	400	350	470	170	6.60	loose
286564-001	500	400	570	195	10.20	loose

PRODUCT RANGE AND PRICE LIST

AWADUKT PP SN10 FUSION*

HEAVY DUTY POLYPROPYLENE SEWER PIPE SYSTEM TO DIN EN 1852

*) Applicable to all articles: Delivery time on request

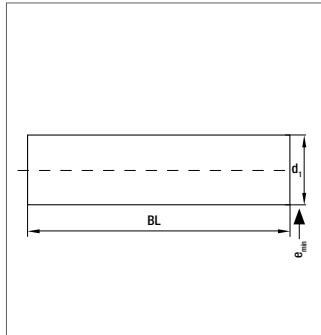
KGGL

AWADUKT PP SN10 FUSION

smooth-ended, to DIN EN 1852

Material: RAU-PP 2300

Colour: Orange



Article	DN/OD	BL [mm]	d ₁ [mm]	e _{min} [mm]	Weight [kg/m]	Unit/ pal.
170637-101	110	6000	110	4.2	1.5	80
171781-101	110	10000	110	4.2	1.5	80
170657-101	160	6000	160	6.2	3.1	35
171801-101	160	10000	160	6.2	3.1	35
170667-101	200	6000	200	7.7	4.7	20
171811-101	200	10000	200	7.7	4.7	20
170677-101	250	6000	250	9.6	7.4	12
171821-101	250	10000	250	9.6	7.4	12
170687-101	315	6000	315	12.1	10.5	9
171831-101	315	10000	315	12.1	10.5	9
231087-101	400	6000	400	15.3	17.6	6
231097-101	500	6000	500	19.1	27.5	4
284750-001	630	6000	630	24.1	44.0	2

Make-up for delivery AWADUKT PP SN10 FUSION

Description	DN/OD	Laying lengths [mm]		Pipes/pal. [Pc.]	Pal. Width approx. [m]	Pal. height approx. [m]	Pal. length [m] per leng.	
		6000	10000				6000	10000
KGEM	110	6000	10000	80	1.17	0.99	6.00	10.00
KGEM	160	6000	10000	35	1.17	0.91	6.00	10.00
KGEM	200	6000	10000	20	1.05	0.90	6.00	10.00
KGEM	250	6000	10000	12	1.05	0.86	6.00	10.00
KGEM	315	6000	10000	9	1.00	1.05	6.00	10.00
KGEM	400	6000	-	6	1.25	0.91	6.00	10.00
KGEM	500	6000	-	4	1.10	1.10	6.00	10.00
KGEM	630	6000	-	2	1.35	0.73	6.00	10.00

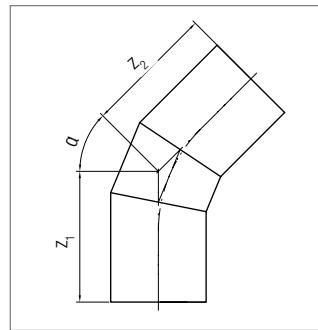
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AWADUKT PP elbow, smooth-ended

Length of the welding ends to DIN 16962-1

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD	α	z ₁ [mm]	z ₂ [mm]	Weight [kg/pc]	Delivery unit
412761-001	110	15°	195	195	0.59	1
412771-001	110	30°	195	195	0.59	1
412781-001	110	45°	220	220	0.66	1
412791-001	110	88°	315	315	0.86	1
412801-001	160	15°	215	215	1.34	1
412811-001	160	30°	215	215	1.34	1
412821-001	160	45°	250	250	1.55	1
412831-001	160	88°	390	390	2.14	1
412841-001	200	15°	230	230	2.16	1
412851-001	200	30°	230	230	2.16	1
412861-001	200	45°	275	275	2.54	1
412871-001	200	88°	450	450	3.67	1
412881-001	250	15°	350	350	5.18	1
412891-001	250	30°	350	350	5.18	1
412901-001	250	45°	410	410	5.92	1
412911-001	250	88°	625	625	8.14	1
412921-001	315	15°	430	430	9.63	1
412931-001	315	30°	430	430	9.63	1
412941-001	315	45°	500	500	16.40	1
412951-001	315	88°	775	775	16.39	1
412961-001	400	15°	465	465	16.39	1
412971-001	400	30°	465	465	16.39	1
412981-001	400	45°	550	550	18.66	1
412991-001	400	88°	900	900	27.64	1
413001-001	500	15°	555	555	30.53	1
413011-001	500	30°	555	555	30.53	1
413021-001	500	45°	660	660	35.75	1
413031-001	500	88°	1100	1100	55.28	1
416681-001	630	15°	605	605	53.07	1
416691-001	630	30°	605	605	53.07	1
416701-001	630	45°	741	741	63.89	1
416711-001	630	88°	1295	1295	97.68	1

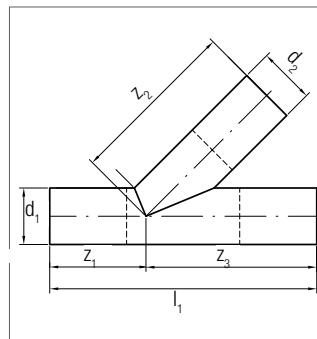
KGEA

AWADUKT PP single branch 45°, smooth-ended

Length of the welding ends to DIN 16962-1

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN [d ₁ /d ₂]	l ₁ [mm]	z ₁	z ₂	z ₃	Weight [kg/pc]	Delivery unit
413041-001	110/110	530	188	333	342	1.26	1
413051-001	160/110	530	163	368	367	2.11	1
413061-001	160/160	600	198	393	402	2.98	1
413071-001	200/160	600	178	421	422	3.94	1
413081-001	200/200	650	206	441	444	4.94	1
413091-001	250/160	800	253	457	547	7.06	1
413101-001	250/200	850	281	477	569	8.17	1
413111-001	250/250	930	317	602	613	10.95	1
413121-001	315/160	900	271	503	629	10.57	1
413131-001	315/200	950	299	523	651	11.86	1
413141-001	315/250	1020	334	648	686	14.78	1
413151-001	315/315	1110	380	735	730	18.69	1
413161-001	400/160	900	228	563	672	16.96	1
413171-001	400/200	950	256	583	694	18.60	1
413181-001	400/250	1020	292	708	728	22.02	1
413191-001	400/315	1120	338	795	772	26.57	1
413201-001	400/400	1240	398	833	842	35.03	1
413211-001	500/160	1000	228	634	772	28.62	1
413221-001	500/200	1050	256	654	794	30.76	1
413231-001	500/250	1120	292	779	828	34.87	1
413241-001	500/315	1210	338	866	872	40.31	1
413251-001	500/400	1330	398	904	932	49.78	1
413261-001	500/500	1470	469	1004	1001	65.18	1
416721-001	630/160	1000	163	725	837	45.12	1
416731-001	630/200	1050	191	745	859	48.08	1
416741-001	630/250	1120	227	870	893	53.35	1
416751-001	630/315	1210	273	958	937	60.26	1
416761-001	630/400	1330	333	995	997	77.72	1
416771-001	630/500	1470	404	1095	1066	89.43	1
416781-001	630/630	1660	495	1160	1165	110.36	1

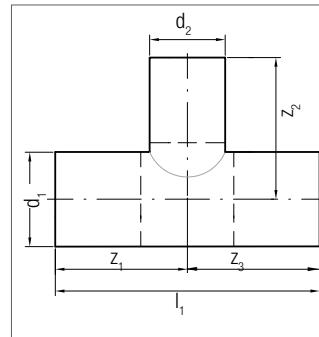
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AWADUKT PP single branch 90°, smooth-ended

Length of the welding end to DIN 16962-1

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN [d ₁ /d ₂]	l ₁ [mm]	z ₁	z ₂	z ₃	Weight [kg/pc]	Delivery unit
413271-001	110/110	430	215	215	215	0.82	1
413281-001	160/110	430	215	240	215	1.63	1
413291-001	160/160	480	240	240	240	2.11	1
413301-001	200/160	480	240	260	240	2.91	1
413311-001	200/200	520	260	260	260	3.43	1
413321-001	250/160	680	340	285	340	5.73	1
413331-001	250/200	720	360	285	360	6.38	1
413341-001	250/250	770	385	385	385	8.09	1
413351-001	315/160	780	390	318	390	8.94	1
413361-001	315/200	820	410	318	410	9.74	1
413371-001	315/250	870	435	418	435	11.65	1
413381-001	315/315	935	470	468	470	13.97	1
413391-001	400/160	780	390	360	390	14.54	1
413401-001	400/200	820	410	360	410	15.66	1
413411-001	400/250	870	435	460	435	17.98	1
413421-001	400/315	935	470	510	470	20.89	1
413431-001	400/400	1020	510	510	510	25.17	1
413441-001	500/160	880	440	410	440	25.84	1
413451-001	500/200	920	460	410	460	26.64	1
413461-001	500/250	970	485	510	485	29.53	1
413471-001	500/315	1040	520	560	420	33.17	1
413481-001	500/400	1120	560	560	560	38.46	1
413491-001	500/500	1220	610	610	610	46.89	1
416791-001	630/160	880	440	475	440	39.71	1
416801-001	630/200	920	460	475	460	41.98	1
416811-001	630/250	970	485	575	485	45.77	1
416831-001	630/315	1040	520	625	520	50.67	1
416841-001	630/400	1120	560	625	560	57.51	1
416851-001	630/500	1220	610	675	610	67.92	1
416861-001	630/630	1350	675	675	675	82.17	1

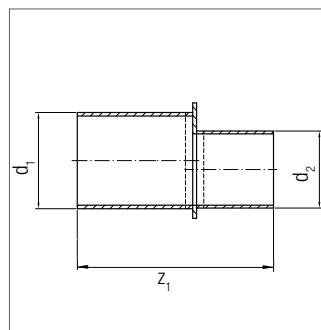
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AWADUKT PP-connecting reducer, smooth-ended

Length of the welding end to DIN 16962-1

Material: RAU-PP 2300

Colour: Orange



Art. no.	DN/OD [d ₁ /d ₂]	z ₁ [mm]	Weight [kg/pc]	Delivery unit
413501-001	160/110	335	1.35	1
413511-001	200/160	335	1.18	1
413521-001	250/200	435	2.55	1
413531-001	315/250	585	5.26	1
413541-001	400/315	635	9.98	1
413551-001	500/400	685	17.97	1
416871-001	630/500	735	15.84	1

ESM

AWADUKT PP electro-fusion coupler

Colour: Orange



Art. no.	DN/OD	L [mm]	D _{max} [mm]	Weight [kg/pc]	Delivery unit
204901-001	110	161	156	0.81	1
204911-001	160	187	214	1.65	1
204921-001	200	212	263	3.00	1
204931-001	250	252	335	7.25	1
204941-001	315	303	420	9.65	1

Weld-on saddle

AWADUKT PP Weld-on saddle

Material: RAU-PP 2300

Colour: Orange



Art. no.	Main pipe/connecting pipe DN/OD	Weight [kg/pc]	Delivery unit
413062-001	200/160	1.1	1
413082-001	250/160	1.4	1
413102-001	315/160	1.7	1
413122-001	400/160	2.0	1