



Ultra dB
UdB System



- **MINERAL-FILLED POLYPROPYLENE**
- **APPLICABLE IN ALL AREAS OF STRUCTURAL ENGINEERING**
- **EXCELLENT MECHANICAL AND ACOUSTIC FEATURES**
- **VIBRATION REDUCTION OF WALLS**
- **LIMITATIONS OF AIR RESONANCE COLUMNS**
- **ABILITY TO EFFECTIVELY MUFFLE THE NOISE**
- **ABILITY TO PREVENT THE SPREAD OF NOISE**
- **THICK WALLS = QUIET**
- **THE 24 dB (A) ACCORDING TO DIN 4109**
- **HIGH DENSITY MATERIAL**
- **STURDY AND ROBUST DESIGN**
- **THERMAL RESISTANCE SHORT 95 ° C, LONG 90 ° C**
- **HIGH QUALITY AND LASTING**
- **MEETS ECONOMIC AND ECOLOGICAL CRITERIA**
- **EVALUATES PROPERTY**
- **INCREASE OF LIVING STANDARDS**

Trust your ears

Unique System silent sewage pipes and fittings dB Ultra System is a quality product of Polypropylene containing a large amount of mineral filler. This material lends waste pipes and fittings dB System Ultra excellent mechanical and acoustic properties, which significantly reduce the intensity of noise penetrating through the pipe wall to the surroundings. Ultra dB System is thus predestined for in all areas of civil engineering (family and apartment houses, industrial, cultural and sports facilities, hospitals, hotels, etc.).

Ultra dB System can prevent noise

Unique System silent sewage pipes and fittings dB Ultra System is able to effectively dampen noise already in place its very beginning - inside the pipe and in addition to prevent the lead pipe wall. The tubes are made of two layers - the inner and outer white blue. On the transition from one phase to another leads to noise reduction. Pipes and fittings comprise a mineral filler, which reduces the transmission of noise.

Do not let the noise chance - learn water whisper

Given the silence – thick walls sewage pipes and fittings dB Ultra System can achieve noise levels approaching the threshold of human hearing perception. When testing was achieved significantly lower values than those required by DIN 4109 - Standard, specifying the noise conditions in areas protected from noise. The measured value of 24 db (A) at standardized assembly lines and speed of the water 4l / s was even lower than the requirement of just 25 dB (A) stricter German VDI 4100.

Strength and durability

Pipes and fittings dB Ultra System are available in dimensions DN 50 - 160. High-quality material processing, surface treatment and packaging quality guarantee that will hold up under extreme conditions with the most demanding customer.

Guarantee of Quality

Laboratory testing of plant and stable in-process control during the manufacturing process guarantee a constant and high quality.

LivingCulture

In connection with the increasing demands on hygiene in the built environment, to which noise protection is undoubtedly one, they are designed and manufactured products that comply with strict ecological and economic criteria. Ultra dB System due to its properties fully meets these criteria and use in the construction or reconstruction leads clearly to raise the standard of living, and thus to evaluate the property.



Ultra dB System

Waste Pipes and shaped Pieces

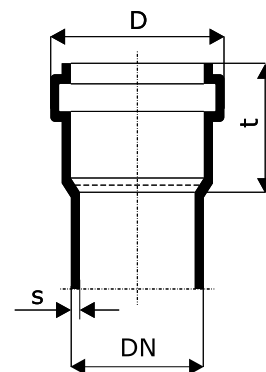
Description

Drains of Polypropylene, high temperature resistant, manufactured by AT ITB AT-15-9406 / 2014 with the properties according to EN 1451-1, if necessary. EN14758-1.

Field of application

System is designed to build the connection, waste, and vent the drain pipes inside buildings (application scope B) in the case of higher thermal or chemical load, but without flame retardant.

DN(OD)	s [mm]	D [mm]	t [mm]
50	2,0	64	56
75	2,3	89	61
110	3,4	128	72
160	4,9	187	95



THE SYMBOLS AND ABBREVIATIONS USED IN THE CATALOG

DN	nominal dimension
D	maximum outer diameter
t	faucet depth (insertion length of free faucet)
s	Pipe wall thickness

As the materials are mostly supplied by multiple manufacturers, the weight and dimension parameters must be understood as for information purposes only.

Our technical consultancy services are based on both experience and calculations. Since we do not know and cannot influence the conditions of use of the products we offer, all information must be regarded as recommendations.

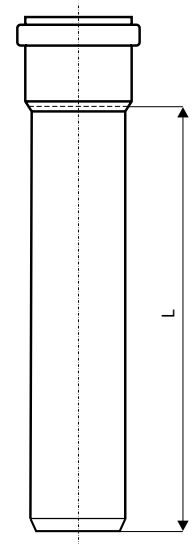
In the event of use other than that as recommended by us, potential risks must be taken into consideration.

Typographic errors reserved.



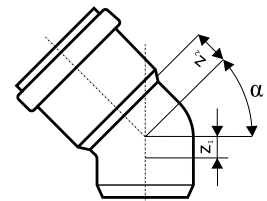
UdBEM – Pipe with Socket

EAN CODE	EAN	DN	s1(mm)	D(mm)	t(mm)	L (mm)	PACKING	PALLETE
4052836460103	146010	50	2,0	64	56	250	20	148
4052836460202	146020	50	2,0	64	56	500	20	320
4052836460400	146040	50	2,0	64	56	1000	10	200
4052836460608	146060	50	2,0	64	56	2000	10	200
4052836461100	146110	75	2,3	89	61	250	20	320
4052836461209	146120	75	2,3	89	61	500	20	160
4052836461407	146140	75	2,3	89	61	1000	6	120
4052836461605	146160	75	2,3	89	61	2000	6	120
4052836462107	146210	110	3,4	128	72	250	15	120
4052836462206	146220	110	3,4	128	72	500	10	80
4052836462404	146240	110	3,4	128	72	1000	1	80
4052836462602	146260	110	3,4	128	72	2000	1	80
4052836462701	146270	160	4,9	187	95	500	1	35
4052836462800	146280	160	4,9	187	95	1000	1	35
4052836462909	146290	160	4,9	187	95	2000	1	35



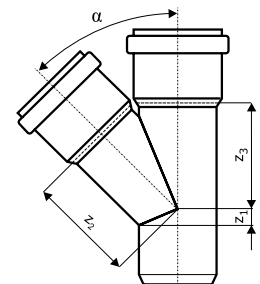
UdBB – Bend

EAN CODE	EAN	degrees	DN	z ₁ (mm)	z ₂ (mm)	PACKING	PALLETE
4052836463005	146300	15°	50	10	70	20	960
4052836463104	146310	30°	50	9	68	20	960
4052836463203	146320	45°	50	17	87	20	960
4052836463302	146330	87°	50	28	84	20	960
4052836463401	146340	15°	75	23	91	20	480
4052836463500	146350	30°	75	11	80	20	480
4052836463609	146360	45°	75	18	92	20	480
4052836463708	146370	87°	75	42	94	20	480
4052836464200	146420	15°	110	9	77	20	240
4052836464309	146430	30°	110	17	85	20	240
4052836464408	146440	45°	110	26	94	20	240
4052836464507	146450	87°	110	59	127	20	160
4052836464538	146453	45°	160	37	126	1	60
4052836464576	146457	87°	160	84	173	1	60



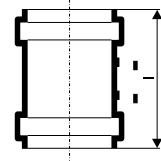
UdB EA – Branch Pipe

EAN CODE	EAN	degrees	DN	z ₁ (mm)	z ₂ (mm)	z ₃ (mm)	PACKING	PALLETE
4052836465603	146560	45°	50/50	133	116	12	20	480
4052836465405	146570	87°	50/50	117	91	28	20	480
4052836465207	146540	45°	75/50	147	145	1	20	400
4052836465009	146550	87°	75/50	119	99	27	20	400
4052836464804	146520	45°	75/75	183	159	18	20	240
4052836464606	146530	87°	75/75	158	115	40	20	240
4052836465702	146500	45°	110/50	150	158	17	20	160
4052836465504	146510	87°	110/50	150	125	23	20	160
4052836465306	146480	45°	110/75	186	186	50	20	160
4052836465108	146490	87°	110/75	186	126	36	20	160
4052836464903	146460	45°	110/110	134	134	26	8	96
4052836464705	146470	87°	110/110	64	62	59	10	120
4052836464859	146485	45°	160/110	162	168	2	1	46
4052836464651	146465	45°	160/160	194	194	37	1	28
4052836464750	146475	87°	160/160	91	91	81	1	32



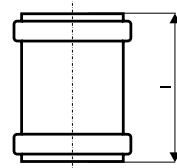
UdBMM – double-Socket Sleeve

EAN CODE	EAN	DN	l (mm)	PACKING	PALLETE
4052836466808	146680	50	112	20	960
4052836466907	146690	75	118	20	480
4052836467003	146700	110	136	20	240
4052836467058	146705	160	136	1	120



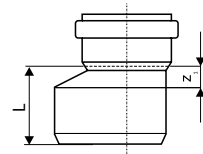
UdBU – Sleeve

EAN CODE	EAN	DN	l (mm)	PACKING	PALLETE
4052836466501	146650	50	103	20	960
4052836466600	146660	75	109	20	480
4052836466709	146670	110	136	20	240
4052836466754	146675	160	185	1	96



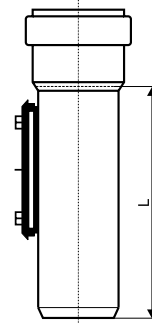
UdBR – abaxial Reduction Pipe, short

EAN CODE	EAN	DN	z ₁ (mm)	L (mm)	PACKING	PALLETE
4052836466006	146600	75/50	19	73	20	480
4052836466105	146610	110/50	37	93	20	480
4052836466204	146620	110/75	22	87	20	480
4052836466259	146625	160/110	34	135	1	192



UdBRE – Purging Fitting

EAN CODE	EAN	DN	L (mm)	PACKING	PALLETE
4052836467508	146750	110	308	8	96
4052836467553	146755	160	380	1	40



UdBM – Socket Stopper

EAN CODE	EAN	DN	l (mm)	PACKING	PALLETE
4052836467102	146710	50	39	20	2400
4082836467201	146720	75	39	20	2560
4082836467300	146730	110	46	20	960



Polypropylene chemical stability

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
acetone	100	+	SDgr	
gaseous ammonia	100	+	+	
ammonium, hydrous sol.	concd. soln.	+	+	
ammonium, hydrous sol.	10	+	+	
amyl alcohol, pure		+	+	
acetanhydride	100	+		
benzenamine	100	+		+
benzaldehyde	100	+		
benzaldehyde, sol. aq.	sat.	+		
benzine	(see "Technical liquids")			
benzole	100	-*	-	
liquid bromide	100	-		
bromide fumes	high	-	-	
bromide fumes	dil.	SDgr	-	
bromide water	sat.	-	-	
liquid butane	100	+		
butane gas	100	+	+	
butyl acetate	100	+	SDgr	
cyclohexane	100	+		
cyclohexanol	100	+	+	
cyclohexanone	100	+	-	
dibutylphthalate	(see "Technical liquids")			
diethyl ether	100	SDgr		
potassium dichromate, sol. aq.	sat.	+	+	+
dimethylformamide	100	+		
1,4-dioxan	100	+	SDgr	-
ammonium nitrate, hydrous	all	+	+	+
potassium nitrate, sol. aq.	sat.	+	+	
sodium nitrate, sol. aq.	sat.	+	+	
calcium nitrate, sol. aq.	sat.	+	+	+
ethyl acetate	100	SDgr	SDgr	
ethyl alcohol	100	+		
ethyl alcohol, sol. aq.	96	+	+	
ethyl alcohol, sol. aq.	50	+	+	
ethyl alcohol, sol. aq.	10	+	+	
ethyl-benzene	100	SDgr	-	
ethylene chloride	100	SDgr	-*	
2-ethoxyethanol	100	+		
ethyl chloride	100	-		
ethyl ether see "diethyl ether"				
phenol	sat.	+	+	
formaldehyde, sol. aq.	40	+	+	
formaldehyde, sol. aq.	30	+	+	
formaldehyde, sol. aq.	10	+	+	
triammonium phosphate, hydrous	all	+	+	+
sodium phosphate, sol. aq.	sat.	+	+	+
glycerine	100	+	+	
glycerine, sol. aq.	high	+	-	-
glycerine, sol. aq.	dil.	+	-	-
glycol	100	+	+	
glycol, sol. aq.	high	+	+	
glycol, sol. aq.	dil.	+	+	+
heptane	100	+	SDgr	
hexane	100	+	SDgr	
aluminium salts	all	+	+	+
hydrogen sulphite sodium, sol. aq.	sat.	+	+	
sodium bicarbonate, sol. aq.	sat.	+	+	+
potassium hydroxide	50	+	+	
potassium hydroxide	25	+	+	
potassium hydroxide	10	+	+	

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
sodium hydroxide	100	+	+	
liquid chlorine	100	-		
chlorine gas, anhydrous	100	-	-	-
chlorine gas, humid	10	SDgr	-	-
chlorobenzene	100			
sodium chlorate, sol. aq.	5	+		
ammonium chloride, sol. aq.	all	+	+	+
tin dichloride	sat.	+	+	
potassium chloride, aq.	sat.	+	+	+
sodium chloride, sol. aq.	sat.	+	+	+
calcium chloride, hydrous	sat.	+	+	+
sodium perchlorate, sol. aq.	5	+	+	
potassium hypochlorite, sol. aq.	sat.	+	+	
sodium hypochlorite, sol. aq.	25	+	+	
chloroform	100	-*	-	
chlorine water	sat.	SDgr	-	
muiriac acid gas	high	+	+	
iso-octane	100	+	SDgr	
isopropyl alcohol	100	+	+	
potassium iodide, hydrous	sat.	+	+	
hydroxytoluene	100	+	SDgr	
hydroxytoluene, sol. aq.	sat.	+	SDgr	
benzenecarboxylic acid	100	+	+	
benzenecarboxylic acid, sol. aq.	sat.	+	+	+
boracic acid	100	+	+	
boracic acid, hydrous	sat.	+	+	
citric acid, sol. aq.	sat.	+	+	+
nitric acid	50	SDgr	-	
nitric acid	25	+	+	
nitric acid	10	+	+	
fluorohydric acid	40	+	+	
orthophosphoric acid	sat.	+	SDgr	
orthophosphoric acid	50	+	+	
orthophosphoric acid	10	+	+	+
hydrochloric acid	sat.	+	+	
chlorosulphonic acid	100	-	-	
chromic acid	sat.	+	-	
chromic acid	20	+	SDgr	
butanedioic acid, sol. aq.	sat.	+	+	
lactacid, sol. aq.	90	+	+	
lactacid, sol. aq.	50	+	+	
lactacid, sol. aq.	10	+	+	+
methanoic acid	98	+	SDgr	
methanoic acid	90	+		
methanoic acid	50	+	+	
methanoic acid	10	+	+	+
glacial acetic acid	100	+	SDgr	-
acetic acid, sol. aq.	50	+	+	
acetic acid, sol. aq.	10	+	+	+
oleic acid	100	+		
sulphuric acid	96	+	SDgr	
sulphuric acid	50	+	+	
sulphuric acid	25	+	+	
sulphuric acid	10	+	+	+
stearic acid	100	+		
ethanedioic acid, sol. aq.	sat.	+	+	+
2,3-dihydroxybutanedioic acid, sol. aq.	sat.	+	+	
permanganate of potassium, sol. aq.	sat.	+	+	*
methanol	100	+	+	
methanol, sol. aq.	50	+	+	

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
methane ethyl ketone	100	+	SDgr	
methyl chloride	100	SDgr		
mineral oils	(see "Technical liquids")			
urea, sol. aq.	sat.	+	+	
naphthalene	100	+		
naphthalene	100	-*	-	-
soda lime	50	+	+	
soda lime	25	+	+	
soda lime	10	+	+	+
n-butanol	100	+	+	
nitrobenzene	100	+	SDgr	
ammonium acetate, sol. aq.	all	+	+	+
octane see "iso-octane"				
diphosphorus pentoxide	100	+		
sulphur dioxide	dil.	+	+	
ozone < 0,5 ppm		+	-*	
hydrogen dioxide, sol. aq.	90			
hydrogen dioxide, sol. aq.	30	+	SDgr	
hydrogen dioxide, sol. aq.	10	+	+	
hydrogen dioxide, sol. aq.	3	+	+	+
potassium persulphate, sol. aq.	sat.	+		
propane, liquid	100	+		
propane gas	100	+	+	
pyridine	100	+	SDgr	
mercury	100	+	+	
sulphur	100	+	+	+
ammonium sulphate, sol. aq.	all	+	+	+
potassium sulphate, sol. aq.	sat.	+	+	+
sulphate of strontium, sol. aq.	sat.	+	+	+
carbon sulphide	100	SDgr		
hydrogen sulphide	dil.	+	+	
sodium sulphite, sol. aq.	sat.	+	+	
barium salts	all	+	+	+
magnesium salts, sol. aq.	sat.	+	+	+
chromium salts 2+, 3+	sat.	+	+	
copper salts	sat.	+	+	+
nickel salts	sat.	+	+	
mercury salts, sol. aq.	sat.	+	+	
argent salts	sat.	+	+	
zinc salts, sol. aq.	sat.	+	+	
ferrous salts, sol. aq.	sat.	+	+	+
sodium sulphide, sol. aq.	sat.	+	+	
trisodium tetraborate, sol. aq.	sat.	+	+	+
tetrahydrofuran	100	SDgr	-	
tetrahydro-naphthalene	100	SDgr	-	
tetrachloroethane	100	SDgr	-	
tetrachloromethane	100	SDgr	-	
thiophene	100	SDgr	-	
sodium thiosulphate, sol. aq.	sat.	+	+	
toluene	100	SDgr	-	
chloral	100	SDgr	-*	
ammonium carbonate, sol. aq.	all	+	+	+
potassium carbonate (potash)	sat.	+	+	
carbonate of soda (soda)	sat.	+	+	
carbonate of soda (soda)	10	+	+	+
water	100	+	+	+
xylene	100	SDgr	-	
Technical liquids				
accumulator acid		+	+	
asphalt		+	SDgr	
petrol, pure		+	SDgr	
unleaded petrol		+	SDgr	

Polypropylene chemical stability

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
leaded petrol		+	SDgr	
super petrol		+*	SDgr	
bleaching liquor (12,5 % Cl)		SDgr	SDgr	
sodium tetraborate, sol. aq.	sat.	+	+	
pine oil		+	+*	
brake fluid		+	+	
tar		+	SDgr	
Formalin*		+	+	
photographic developer	usual	+	+	
Fridex*		+	+	
calcium hypochlorite		+	+	
chromium tanning bath		+	+	
chromium-sulphur mixture		-	-	
alumen, sat.		+	+	
shoe polish		+	SDgr	
Kresolum saponatum*		+		
anti-moth marbles		+		
Lanolin*		+	SDgr	
LITEX*		+	+	
flax-seed oil		+	+	
Lysof*		+	SDgr	
mineral oils (w/o aromates)		+	SDgr	-
engine oils		+	SDgr	-
diesel fuel		+	SDgr	
synthetic degreasers	c. u.	+	+	+
two-cycle engine oil		SDgr	SDgr	
typewriter oil		+	+*	
transformer oil		+	SDgr	
fuming sulphuric acid	all	-	-	
paraffin	100	+	+	-
paraffin oil	100	+	SDgr	-
pectose, sat.		+	+	
pectrol-ether	100	+	SDgr	
furniture polish		+	SDgr	-
laundry agents high		+	+	
Sagrotan*		+	SDgr	
kitchenware detergent		+	+	+
silicone oil		+	+*	
spruce oil		+	+*	
soda	(see "carbonate of soda")			
Solvina		+	+	
turpentine		SDgr	-	
fuel oil		+	SDgr	
graphite		+	+	
fixative bath	10	+	+	
salt water		+	+	+
aqueous glass		+	+	
floor polish		+	SDgr	
softening agent – dibutylphthalate		+	SDgr	
softening agent – dibutyl sebacate		+		
softening agent – dihexylphthalate		+		
softening agent – dinonyl-adipate		+		
softening agent – dioctyl-adipate		+		
softening agent – dioctyl-phthalate		+		
softening agent – tricresyl phosphate		+		
softening agent – trioctyl phosphate		+		
Pharmaceuticals and cosmetics				
Aspirin*		+		
Quinine		+		

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
iodine tincture		+		
bornyl chloride		+		
ingernail polish		+		
menthol		+		
soap and soapflakes		+		
soap solution	sat.	+	+	+
soap solution	10	+	+	+
ingernail polish remover		+	SDgr	
perfumes		+		
hair shampoo		+	+	
paraffin jelly		+	SDgr	
toothpaste		+	+	
Food and eatables				
potato salad		+		
Coca-Cola*		+		
dry sugar		+	+	+
sugar solution		+	+	+*
tea tree leaves		+	+	
tea – drink		+	+	+*
lemon pulp and peel		+		
apple pulp		+	+	+*
orange pulp and peel		+		
essential oils		+	SDgr	
gin	40	+		
mustard		+		
cocoa – drink		+	+	+
cocoa – powder		+		
coffee (beans and ground coffee)		+		
coffee – drink		+	+	+
ketchup		+	+	
cognac		+		
spices		+		
fish in vinegar		+	+	+*
pickled cabbage		+	+	+*
liqueur	all	+		
lemonade		+		
beef tallow		+	+	
mayonnaise		+		
margarine		+	+	
jam		+	+	+*
butter		+	+	
honey		+	+	
milk products		+	+	+*
milk		+	+	+*
flour		+		
vinegar	c. u.	+	+	
lemon oil		+		
coconut oil		+	+*	
peppermint oil		+		
olive oil		+	+	
palm oil		+	SDgr	
orange oil		+		
vegetable oil		+	SDgr	
soya bean oil		+	SDgr	
corn-germ oil		+	SDgr	
peanut oil		+	+*	-*
animal oil		+	SDgr	
fruit salad		+		
baked goods		+	+	+*
beer		+		
butter milk		+		
pudding		+	+	+*

COMPOUND	Concentration [%]	Temperature [°C]		
		20	40	60
rum	40	+	+	
fish oil		+		
lard		+	SDgr	
salami		+	+	
beet syrup	all	+	+	+*
herrings		+		
carbonated water		+		
salt brine		+	+	+
common salt	(see "sodium chloride")			
cheese		+		
fecula – sol. aq.	all	+	+	
whipped cream		+		
pineapple juice		+	+	
lemon juice		+	+	
grapefruit juice		+	+	
apple juice		+	+	
fruit juice		+	+	
orange juice		+	+	
tomato sauce		+	+	
roast-food sauce		+	+	+*
lemon essence		+		
bitter almond essence		+		
vinegar essence	c. u.	+	+	
rum essence		+		
vanilla essence		+	+	
cottage cheese		+		
eggs (raw and cooked)		+	+	+*
wine		+	+	
whisky	40	+		
vegetables		+	+	+*
gelatine		+	+	+*

Legend :	
+	resistance
+*	partial resistance
SDgr	conditional resistance
.*	low resistance
-	instability
no classification	not tested
all	all concentrations
concd. soln.	concentrated solution
low conc.	low concentration
c. u.	commonly used concentration
usual	usual, commercial concentration
dil.	diluted solution
sol. aq.	aqueous solution
sat.	cold-saturated solution
hot sat.	hot-saturated solution
m. a.	minute amounts



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