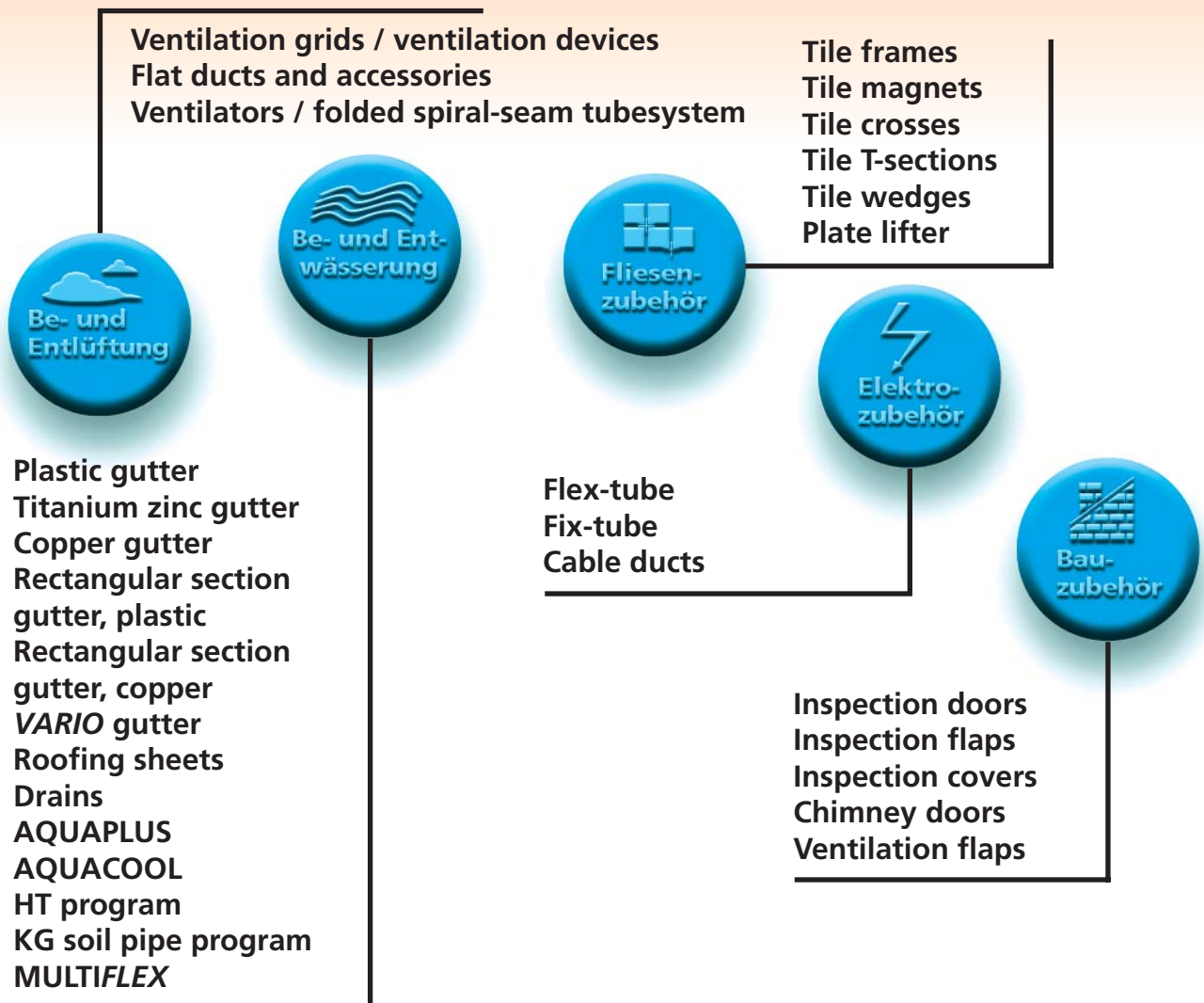
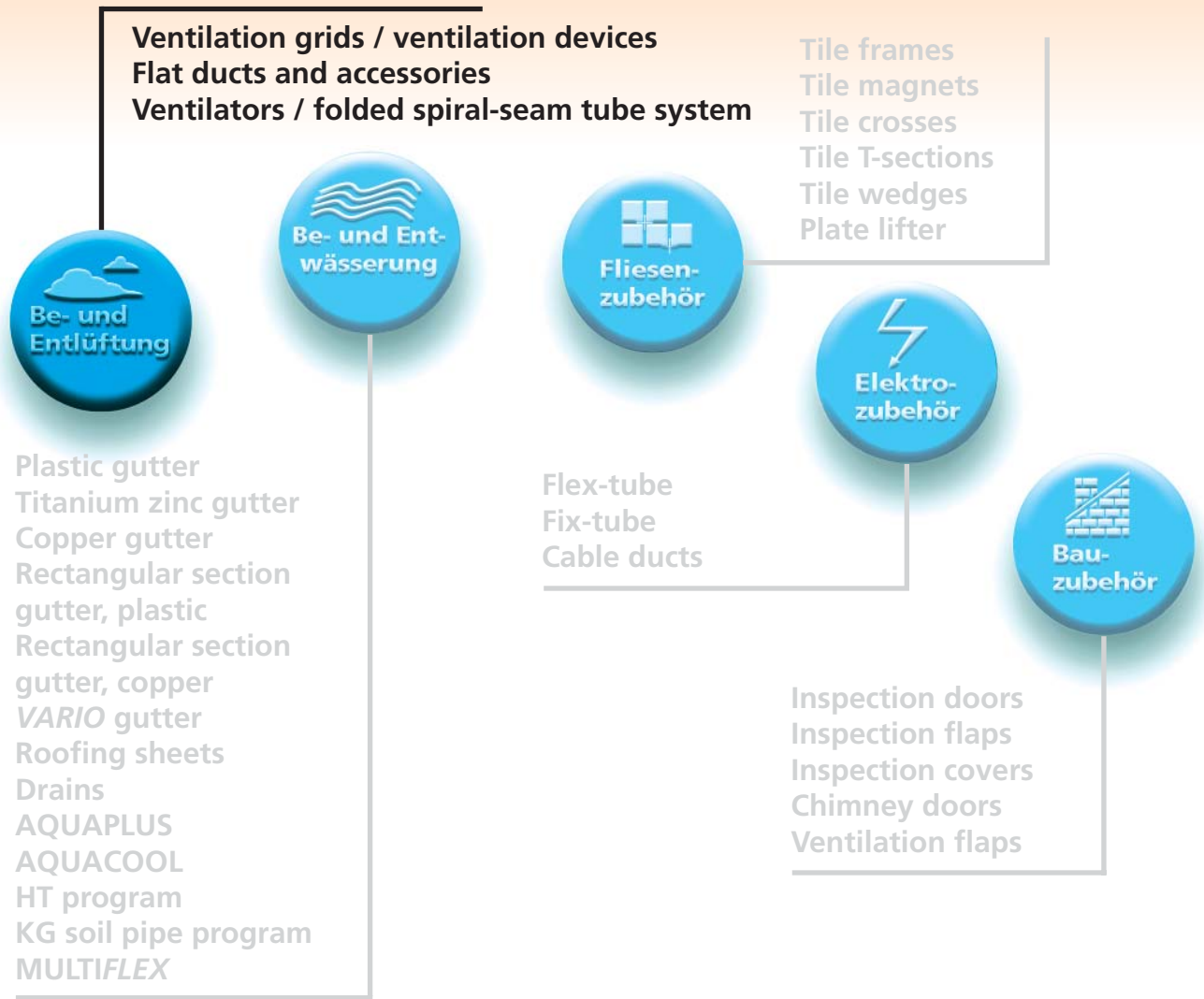


# PRODUCT CATALOGUE





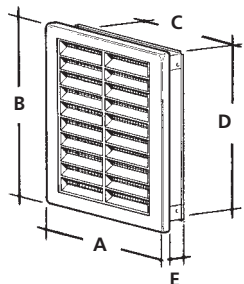






color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Air grid plastic

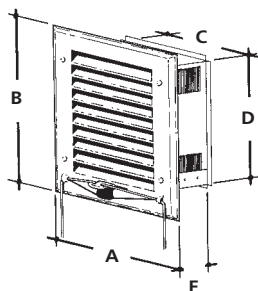


with rain-repelling lamellae and insect screen

Material: Ventilation grids: polystyrene; installation frame: galvanized steel sheet

	cover plate		frame					
white	130	182	116	178	45	55	1 / 1	30-046 (2)
white	130	232	116	228	45	70	1 / 1	30-047 (9)
white	180	173	167	167	45	85	1 / 1	30-048 (6)
white	180	222	167	218	45	110	1 / 1	30-049 (3)
white	231	222	217	217	45	150	1 / 1	30-050 (9)

### Ventilation / Alu

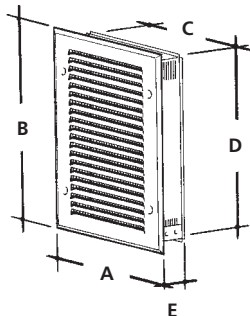


with rain-repelling lamellae and pulling device (Perlon cord 1.50 m and 2 plastic tassels)

Material: Ventilation grids: Aluminium, white paint coat; flaps: white steel sheet; installation frame: galvanized steel sheet

	cover plate		frame					
white	150	150	116	116	44	45	1 / 1	31-101 (7)
white	150	200	116	167	44	65	1 / 1	31-102 (4)
white	150	250	116	217	44	95	1 / 1	31-103 (1)
white	200	200	167	167	44	105	1 / 1	31-104 (8)
white	200	250	167	217	44	145	1 / 1	31-105 (5)
white	250	250	217	217	44	190	1 / 1	31-106 (2)

### Ventilation grid / Alu

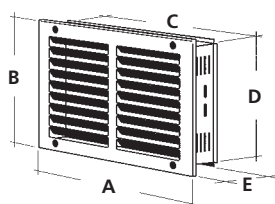


with installation frame, rain-repelling lamellae and insect screen

Material: Ventilation grids: Aluminium, white paint coat; installation frame: galvanized steel sheet

	cover plate		frame					
white	150	150	116	116	44	45	1 / 1	31-201 (4)
white	150	200	116	167	44	65	1 / 1	31-202 (1)
white	150	250	116	217	44	95	1 / 1	31-203 (8)
white	200	200	167	167	44	105	1 / 1	31-204 (5)
white	200	250	167	217	44	145	1 / 1	31-205 (2)
white	250	250	217	217	44	190	1 / 1	31-206 (9)
white	250	300	217	267	44	245	1 / 1	31-207 (6)
white	300	300	267	267	44	310	1 / 1	31-208 (3)
white	350	350	317	317	44	465	1 / 1	31-209 (0)

### Ventilation grid / Alu



with installation frame, rain-repelling lamellae and insect screen

Material: Ventilation grids: Aluminium, white paint coat; installation frame: galvanized steel sheet

	cover plate		frame					
white	255	160	242	145	40	135	1 / 1	31-250 (2)
white	435	160	415	145	40	235	1 / 1	31-251 (9)

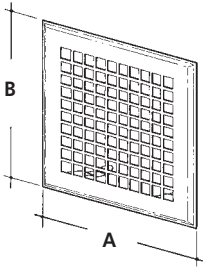
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Air grid / steel sheet

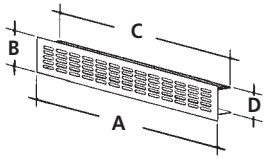
with fixing clamps and punched holes  
Material: steel sheet, galvanized, with white paint coat.



	cover plate					
white	160	160	50	4 / 1	31-260	(1)
white	160	310	130	4 / 1	31-261	(8)
white	185	185	80	4 / 1	31-262	(5)
white	235	235	155	4 / 1	31-263	(2)
white	285	285	260	4 / 1	31-264	(9)

### Light metal grid

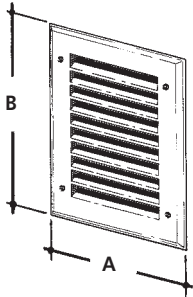
for installation in worktops and as ventilation strip in baseboards, installation depth 15 mm  
Material: sectional aluminium 1.5 mm



	cover plate		frame					
silver	480	80	460	65	93	1 / 1	31-301	(1)
black	480	80	460	65	93	1 / 1	31-302	(8)
white	480	80	460	65	93	1 / 1	31-306	(6)
silver	480	100	460	85	132	1 / 1	31-303	(5)
white	480	100	460	85	132	1 / 1	31-305	(9)

### Cover grid Alu

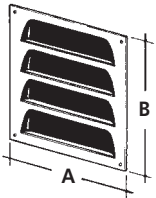
with rain-repelling lamellae and insect screen  
Material: aluminium, white paint coat



white	150	150	45	1 / 1	31-401	(8)
white	150	200	65	1 / 1	31-402	(5)
white	150	250	95	1 / 1	31-403	(2)
white	200	200	105	1 / 1	31-404	(9)
white	200	250	145	1 / 1	31-405	(6)
white	250	250	190	1 / 1	31-406	(3)
white	250	300	245	1 / 1	31-407	(0)
white	300	300	310	1 / 1	31-408	(7)
white	350	350	465	1 / 1	31-409	(4)

### Ventilation sheet

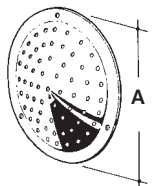
Material: aluminium



copper						
antique	70	70		10 / 1	31-605	(0)
white	70	70		10 / 1	31-610	(4)
anodized	70	70		10 / 1	31-615	(9)
gold						

### Ventilation sheet round

Material: aluminium

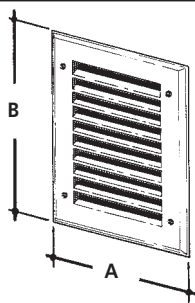


white	50			10 / 1	31-620	(3)
anodized	50			10 / 1	31-625	(8)
gold						

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				



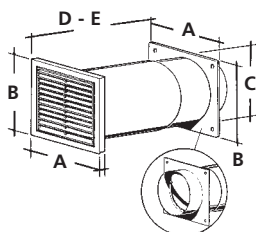
### Cover grid Alu

with rain-repelling lamellae and insect screen  
Material: anodized aluminium

silver	150	150				45	1 / 1	31-801 (6)
silver	150	200				65	1 / 1	31-802 (3)
silver	150	250				95	1 / 1	31-803 (0)
silver	200	200				105	1 / 1	31-804 (7)

### Telescope wall penetration

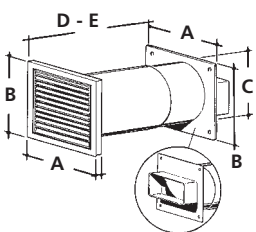
with anti-backdraught flap and pipe connection, extendable  
Material: polystyrene / hard PVC



				Min.	Max.			
brown	140	140	100	270	480	48	1 / 1	32-010 (1)
white	140	140	100	270	480	48	1 / 1	32-015 (6)
brown	165	165	125	270	470	89	1 / 1	32-137 (5)
white	165	165	125	270	470	89	1 / 1	32-138 (2)
white	190	190	150	215	415	104	1 / 1	32-139 (9)

### Telescope wall penetration

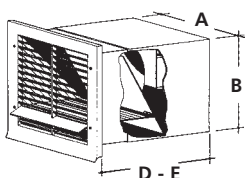
with anti-backdraught flap and flat duct connection, extendable  
Material: polystyrene / hard PVC



				Min.	Max.			
brown	140	140	100	270	480	48	1 / 1	32-020 (0)
white	140	140	100	270	480	48	1 / 1	32-025 (5)

### Telescope wall box

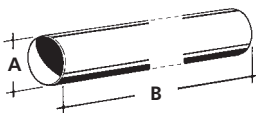
integrated fresh and exhaust air duct, exhaust air: top, fresh air: bottom, extendable from 250 to 440 mm  
with anti-backdraught flap, for pipe connection 100 and 125 mm  
Material: plastic



				Min.	Max.			
white	185	210		250	440	200/50	1 / 1	32-136 (8)

### Ventilation pipe

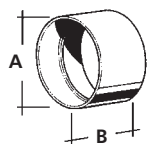
Material: hard PVC



white	103	500				78,5	1 / 1	32-016 (3)
white	103	1000				78,5	1 / 1	32-017 (0)
white	128	500				115	1 / 1	32-040 (8)
white	128	1000				115	1 / 1	32-041 (5)

### Ventilation pipe connector

Material: PS



white	105	50					1 / 1	32-030 (9)
white	130	50					1 / 1	32-042 (2)

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

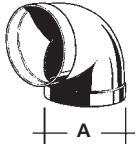
### Ventilation pipe elbow 45°



Material: PS

white	105					1 / 1	32-032	(3)
white	130					1 / 1	32-044	(6)

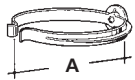
### Ventilation pipe elbow 90°



Material: PS

white	105					1 / 1	32-033	(0)
white	130					1 / 1	32-045	(3)

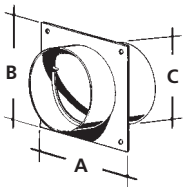
### Ventilation pipe fixture



Material: PS

white	105					1 / 1	32-035	(4)
white	130					1 / 1	32-047	(7)

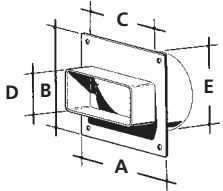
### Wall connection nozzle



with anti-backdraught flap and pipe connection  
Material: PS

white	140	140	100			1 / 1	32-128	(3)
white	165	165	125			1 / 1	32-050	(7)
white	188	180	150			1 / 1	32-052	(1)

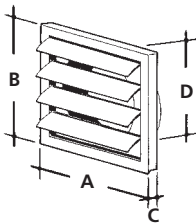
### Wall connection nozzle



with anti-backdraught flap and flat duct connection  
Material: PS

white	140	140	114	58	100	1 / 1	32-124	(5)
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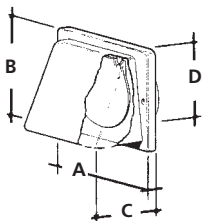
### Ventilation flap



with self-closing lamellae and drip edge  
Material: PS

gray	140	140	15	100		1 / 1	32-111	(5)
brown	140	140	15	100		1 / 1	32-140	(5)
white	140	140	15	100		1 / 1	32-143	(6)
brown	165	165	15	125		1 / 1	32-144	(3)
white	165	165	15	125		1 / 1	32-145	(0)
brown	190	190	15	150		1 / 1	32-146	(7)
white	190	190	15	150		1 / 1	32-147	(4)

### Exhaust air hood



with anti-backdraught flap and pipe connection  
Material: PS

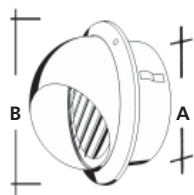
white	150	145	80	100		1 / 1	32-400	(0)
brown	150	145	80	100		1 / 1	32-401	(7)

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

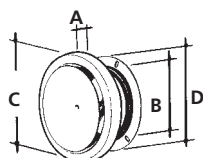
### Exhaust air hood with nozzle



with lamellae arranged on inside, insect screen and pipe connection  
Material: stainless steel or stainless steel with white paint coat

stainless steel	100	150			1 / 1	32-410 (9)
stainless steel	125	150			1 / 1	32-412 (3)
white	100	150			1 / 1	32-420 (8)
white	125	150			1 / 1	32-422 (2)

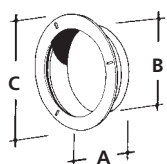
### Disk valve



with fine adjustment  
Material: PS according to DIN 4102 B2

white	12	100	140	131	1 / 1	32-455 (0)
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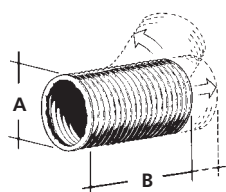
### Connection nozzle



for range hoods and tumblers  
Material: PS

white	27	100	131		1 / 1	32-465 (9)
white	32	125	144		1 / 1	32-476 (5)

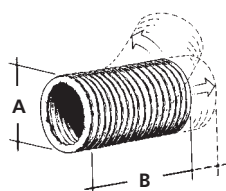
### Air hose plastic



steel spiral, plastic coated, foil thickness 0.3 mm, temperature resistant from -5° to +80° C

white	100	1000			1 / 1	32-090 (3)
white	100	2000			1 / 1	32-100 (9)
white	100	5000			1 / 1	32-114 (6)
white	125	2000			1 / 1	32-253 (2)

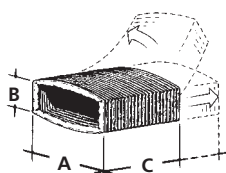
### Air hose plastic



steel spiral, plastic-coated, polyamide tissue coated on both sides, hardly inflammable, temperature resistant from -18° to +120° C

gray	100	2000			1	32-105 (4)
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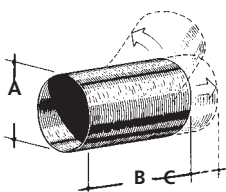
### Rect. air hose, plastic



steel spiral, plastic-coated, polyamide tissue coated on both sides, hardly inflammable, temperature resistant from -18° to +120° C

white	115	70	500		1 / 1	32-157 (3)
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### Alu flex. pipe



compressed, extendable from 220 to 1000 mm, from 420 to 2500 mm, from 685 to 5000 mm  
Material: aluminium, non-combustible according to DIN 4102

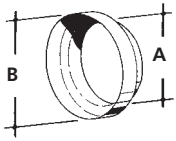
alu		<i>min.</i>	<i>max.</i>			
	80	420	2500		1 / 1	32-168 (9)
	100	220	1000		1 / 1	32-170 (2)
	100	420	2500		1 / 1	32-172 (6)
	100	685	5000		1 / 1	32-191 (7)
	125	220	1000		1 / 1	32-173 (3)
	125	420	2500		1 / 1	32-174 (0)
	150	220	1000		1 / 1	32-175 (7)
	150	420	2500		1 / 1	32-176 (4)

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color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no.	no.)

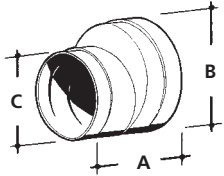
VENTILATION GRIDS / VENTILATION DEVICES / ACCESSORIES



### Transition piece

from HT and KG pipes to hoses / telescopic pipes  
Material: PS

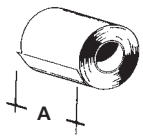
white	100	110				1 / 1	32-107	(8)
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### Reducer

Material: PS

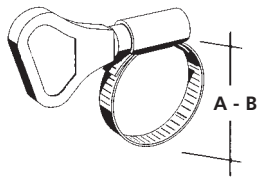
white	90	100	80			1 / 1	32-109	(2)
white	90	125	100			1 / 1	32-110	(8)
white	90	150	125			1 / 1	32-112	(2)



### Adhesive tape

Material: soft PVC, 10 metres

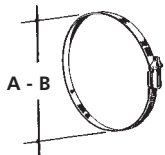
white	50					1	32-225	(9)
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### hose clamp, adjustable with wing screw

Material: galvanized steel sheet

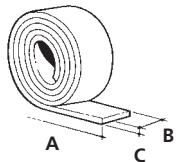
	1/2 inch					1 / 2	32-200	(6)
	1 inch					1 / 1	32-202	(0)



### hose clamp, adjustable

Material: galvanized steel sheet

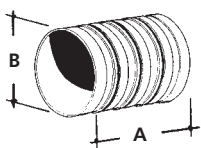
	min.	max.						
	70	90				1 / 1	32-228	(0)
	90	110				1 / 1	32-115	(3)
	120	140				1 / 1	32-230	(3)
	140	160				1 / 1	32-233	(4)



### Sealing tape, self-adhesive

Material: foamed material

white	1000	15	6			1 / 1	32-218	(1)
white	2000	15	6			1 / 1	32-219	(8)



### Hose connector, plastic

for permanent connection of plastic hoses  
Material: PS

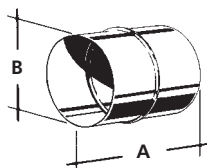
white	90	100				1 / 1	32-241	(9)
white	75	125				1 / 1	32-243	(3)

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

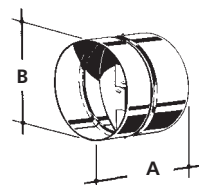
### Hose connector, galvanized



for permanent connection of plastic or aluminium hose  
Material: galvanized steel sheet

	100	80					1 / 1	32-244	(0)
	100	100					1 / 1	32-245	(7)
	100	125					1 / 1	32-246	(4)
	100	150					1 / 1	32-247	(1)

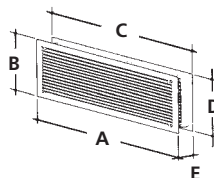
### Return air shut-off valve



Prevents the penetration of cold air and exhaust air from other rooms  
Material: stainless steel

	80	100					1 / 1	32-600	(4)
	100	125					1 / 1	32-601	(1)
	100	150					1 / 1	32-602	(8)

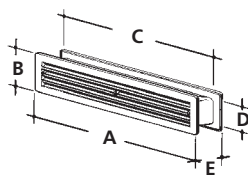
### Door air grid



two-sided, with screws  
Material: PS

white	290	125	272	112	34	164	1 / 1	33-140	(4)
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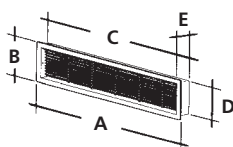
### Door air grid



two-sided, with screws  
Material: PS

white	445	89	417	77	34	120	1 / 1	33-145	(9)
limba	445	89	417	77	34	120	1 / 1	33-146	(8)
brown	445	89	417	77	34	120	1 / 1	33-148	(0)
beech	445	89	417	77	34	120	1 / 1	33-149	(7)

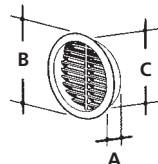
### Furniture ventilation



Material: PS

white	205	55	200	50	6		10 / 1	33-200	(5)
brown	205	55	200	50	6		10 / 1	33-201	(2)
white	245	65	240	60	6		10 / 1	33-202	(9)
brown	245	65	240	60	6		10 / 1	33-203	(6)

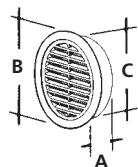
### Furniture ventilation



Material: PS

brown	7	48	43				10 / 4	33-220	(3)
white	7	48	43				10 / 4	33-225	(8)

### Wall ventilator



Material: PS

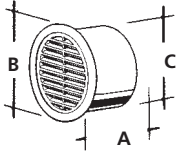
brown	25	124	100			27	1 / 1	34-088	(8)
gray	25	124	100			27	1 / 1	34-188	(5)
white	25	124	100			27	1 / 1	34-288	(2)
white	20	149	125			47	1 / 1	34-516	(6)
white	25	174	150			58	1 / 1	34-517	(3)
white	25	222	200			117	1 / 1	34-519	(7)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

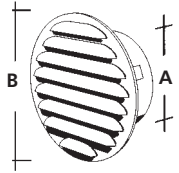
### Wall ventilator with nozzle



Material: PS / PVG

brown	150	124	100	27	1 / 1	34-089	(5)
gray	150	124	100	27	1 / 1	34-189	(2)
white	150	124	100	27	1 / 1	34-289	(9)

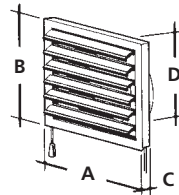
### Wall ventilator with nozzle 45 mm



Material: stainless steel

100	124	27	1 / 1	34-388	(9)
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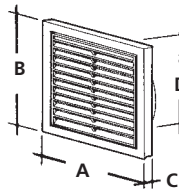
### Ventilator



with pull-cord 1.50 m  
Material: PS / PC

white	140	140	15	100	1 / 1	34-098	(7)
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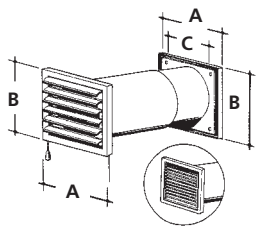
### Ventilation grid



with insect screen  
Material: PS

red brown	165	165	15	125	89	1 / 1	34-190	(8)
gray	140	140	15	100	48	1 / 1	34-195	(3)
brown	140	140	15	100	48	1 / 1	34-196	(0)
red brown	140	140	15	100	48	1 / 1	34-199	(1)
white	140	140	15	100	48	1 / 1	34-204	(2)
brown	165	165	15	125	89	1 / 1	34-191	(5)
white	165	165	15	125	89	1 / 1	34-205	(9)
white	190	190	15	150	104	1 / 1	34-192	(2)
brown	190	190	15	150	104	1 / 1	34-197	(7)

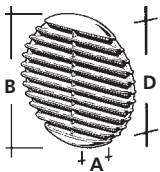
### Sewage ventilator



with telescopic pipe, outer part: air grid, inner part: ventilator, with pull-cord,  
extendable from 270 to 480 mm  
Material: PS / hard PVC / PC

white	140	140	100	1 / 1	34-215	(8)
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### Air grid with clamping spring for pipe sizes 80 to 125 and 125 to 160



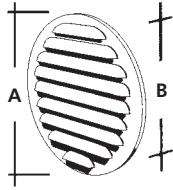
with insect screen  
Material: plastic

bright gray	18	166	80-125	1 / 1	34-207	(3)
bright gray	18	190	125-160	1 / 1	34-208	(0)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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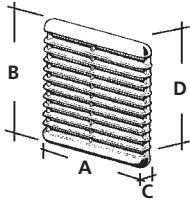
color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				



### Air grid with clamping spring for pipe sizes 80 to 160

with insect screen  
Material: stainless steel

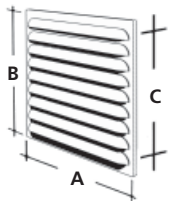
	130	80-120			1 / 1	34-209	(7)
	150	120-140			1 / 1	34-210	(3)
	180	150-170			1 / 1	34-211	(0)



### Air grid with clamping spring for pipe sizes 80 to 125

with insect screen  
Material: plastic

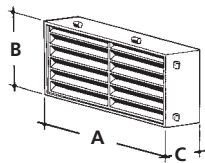
bright gray	160	160	18	80-125		1 / 1	34-212	(7)
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### Air grid with clamping spring for pipe sizes 80 to 125

with insect screen  
Material: stainless steel

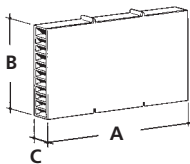
	150	150	80-125		1 / 1	34-216	(5)
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### Clinker ventilator

with insect screen  
Material: PS

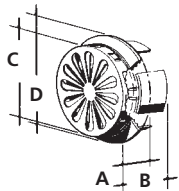
white	110	55	30		5 / 1	34-310	(0)
gray	110	55	30		5 / 1	34-330	(8)
red brown	110	55	30		5 / 1	34-350	(6)



### Joint ventilator

Material: PP

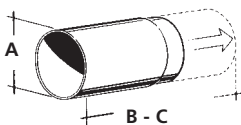
white	116	60	12	3	60 / 1	34-410	(7)
bright gray	116	60	12	3	60 / 1	34-430	(5)
cement gr.	116	60	12	3	60 / 1	34-431	(2)
dark gr.	116	60	12	3	60 / 1	34-435	(0)



### Air grid, lockable

pipe connection adjustable from 100 to 150mm  
Material: PS

white	27	57	126	160	68	1 / 1	34-525	(8)
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### Telescopic pipe

extendable  
Material: hard PVC

		from	to				
	108	270	480	81,7	1 / 1	41-290	(5)
	128	270	470	113,1	1 / 1	41-350	(6)
	164	215	415	176,7	1 / 1	41-450	(3)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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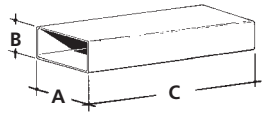


color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no.	no.)

FLAT DUCT

### Flat duct 100 (without sleeve)

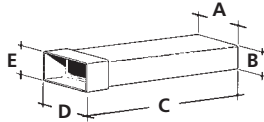
heat resistant to 70°C, not UV resistant, not to be walked on, color white: RAL 9010  
Material: hard PVC



white	110	55	1000			55	1 / 1	71-015 (5)
white	110	55	500			55	1 / 1	71-215 (9)

### Flat duct 100 (with sleeve)

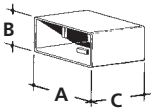
heat resistant to 70°C, not UV resistant, not to be walked on, color white: RAL 9010  
Material: hard PVC / PS



white	110	55	1000	114	58	55	1 / 1	71-205 (0)
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### Flat duct connector 100

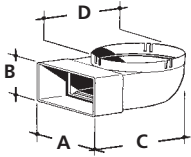
Material: PS



white	114	58	75				1 / 1	71-025 (4)
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### Deflection element 100

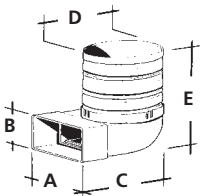
90° transition from Ø 100 to flat duct 100, without nozzle  
Material: PS



white	114	58	157	100			1 / 1	71-035 (3)
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### Deflection element 100

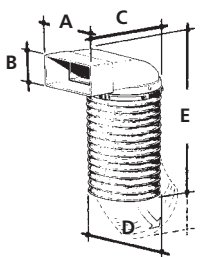
with 80 mm long nozzle for hose connection Ø 100  
Material: PS



white	114	58	157	100	142		1 / 1	71-045 (2)
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### Deflection element 100 with hose

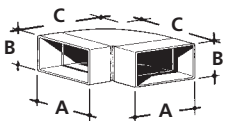
for connection of range hoods with inclined nozzle  
Material: PS



white	114	58	157	100	500		1 / 1	71-095 (7)
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### Flat duct elbow 100 / Elbow 90°

Material: PS



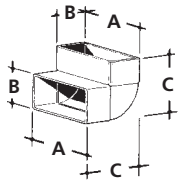
white	114	58	152				1 / 1	71-055 (1)
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VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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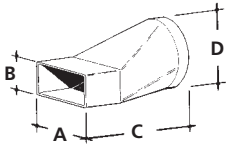
color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

FLAT DUCT

**Flat duct angle 100 / Elbow 90°**

Material: PS

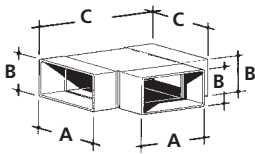
white	114	58	92			1 / 1	71-065 (0)
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**Transition piece 100**

Transition from flat duct to Ø100

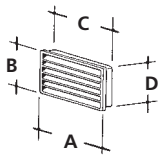
Material: PS

white	110	55	180	100		1 / 1	71-075 (9)
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**Tee 100**

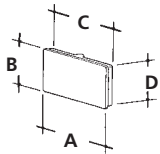
Material: PS

white	114	58	185			1 / 1	71-125 (1)
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**Flat duct grid 100**

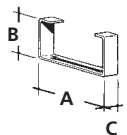
Material: PS

white	114	58	110	54		1 / 1	71-135 (0)
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**Cover cap 100**

Material: PS

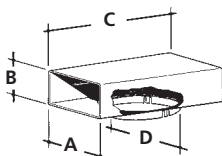
white	114	58	110	54		1 / 1	71-145 (9)
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**Flat duct bracket 100**

for clip fixture

Material: PS

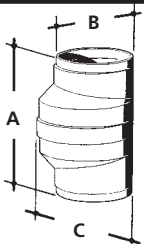
white	115	59	20			1 / 2	71-155 (8)
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**Flat duct connection 100**

for connection of disk valves and air hoses with adapter 32-241

Material: PS

white	114	58	191	100		1 / 1	71-655 (3)
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**Condensation water collector 100**

prevents condensation water from flowing back into the ventilation system

Material: PS

white	180	100	125			1 / 1	71-115 (2)
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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

FLAT DUCT

### Flat duct 125

heat resistant to 70°C, not UV resistant, not to be walked on, color: white, RAL 9010  
Material: hard PVC

white	220	55	1000			110	1 / 1	71-515 (0)
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### Flat duct connector 125

Material: PS

white	224	58	102				1 / 1	71-525 (9)
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### Deflection element 125

90° transition from Ø 125 to flat duct  
Material: PS

white	220	55	230	128	73		1 / 1	71-535 (8)
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### Deflection element 125

90° transition from Ø 125 to flat duct with nozzle  
Material: PS

white	220	55	230	123	88		1 / 1	71-545 (7)
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### Flat duct elbow 125 / Elbow 90°

Material: PS

white	224	58	274	220	55		1 / 1	71-555 (6)
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### Flat duct angle 125 / Elbow 90°

Material: PS

white	224	58	90	220	55		1 / 1	71-565 (5)
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### Transition piece 125

Transition from flat duct to Ø 125, straight  
Material: PS

white	224	58	261	125			1 / 1	71-575 (4)
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### Flat duct bracket 125

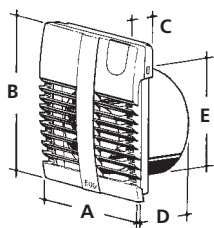
with screws and plugs  
Material: steel sheet, with white paint coat

white	222	58	25				1 / 2	71-580 (8)
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VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no.	no.)

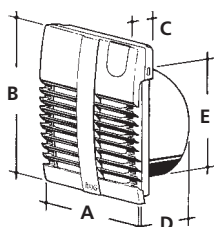
**Shaft-installed ventilator SSE 100**

without seal flap ohne, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, can also be speed-controlled.

Specifications: AC 230 V / 50 Hz / 17 W / 2500 rpm / 98 m<sup>3</sup>/h / 45 dB (A)

Material: ABS

white	143	180	35	60	97	1 / 1	41-510 (4)
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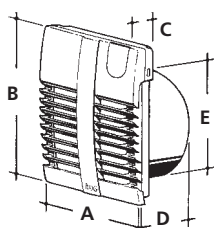
**Shaft-installed ventilator SSE 100 V**

with seal flap ohne, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact

Specifications: AC 230 V / 50 Hz / 17 W / 2500 rpm / 98 m<sup>3</sup>/h / 45 dB (A)

Material: ABS

white	143	180	35	60	97	1 / 1	41-520 (3)
-------	-----	-----	----	----	----	-------	------------

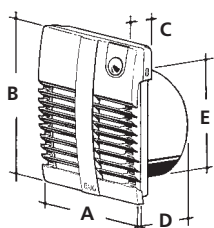
**Shaft-installed ventilator SSE 100 VN**

with el. seal flap, controlled starting and stopping behaviour, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, startup can be delayed continuously by up to 3 minutes after activation, shutdown delay time can be adjusted in a range from 3 to 30 minutes, approx. 100 ms switching time in the case of pushbutton control

Specifications: AC 230 V / 50 Hz / 17 W / 2500 rpm / 98 m<sup>3</sup>/h / 45 dB (A)

Material: ABS

white	143	180	35	60	97	1 / 1	41-530 (2)
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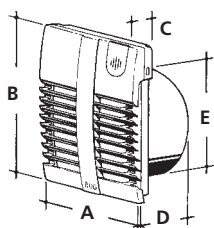
**Shaft-installed ventilator SSE 100 VNB**

with el. sealing flap, delayed shutdown and motion controller, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, shutdown delay time can be adjusted in a range from 3 to 30 minutes

Specifications: AC 230 V / 50 Hz / 17 W / 2500 rpm / 98 m<sup>3</sup>/h / 45 dB (A)

Material: ABS

white	143	180	35	60	97	1 / 1	41-540 (1)
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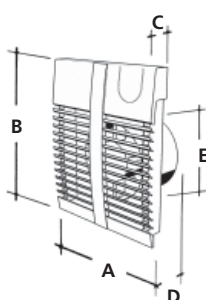
**Shaft-installed ventilator SSE 100 VNF**

with el. seal flap, delayed shutdown and moisture sensor, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, working point adjustable in a rel. moisture range from approx. 40 to 90 %, shutdown delay time can be adjusted in a range from 2 to 30 minutes, „delay time“ for delayed shutdown function 2 minutes, approx. 100 ms switching time in the case of pushbutton control

Specifications: AC 230 V / 50 Hz / 17 W / 2500 rpm / 98 m<sup>3</sup>/h / 45 dB (A)

Material: ABS

white	143	180	35	60	97	1 / 1	41-550 (0)
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**Shaft-installed ventilator 125**

without seal flap, maintenance-free, low-noise, motor protection by thermo-contact, can also be speed controlled

Specifications: AC 230 V / 50 Hz / 20 W / 2200 rpm / 150 m<sup>3</sup>/h / 45 dB (A)

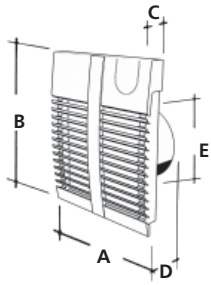
Material: ABS

white	194	240	40	118	118	1 / 1	41-305 (6)
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VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



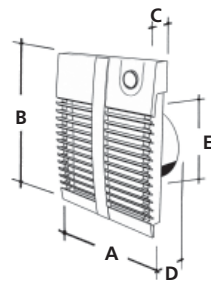
color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

**Shaft-installed ventilator 125 VN**

with el. sealing flap, delayed shutdown and start-up behaviour, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, startup can be delayed continuously by up to 3 minutes after activation, shutdown delay time can be adjusted in a range from 3 to 30 minutes.

Specifications: AC 230 V / 50 Hz / 20 W / 2200 rpm / 150 m<sup>3</sup>/h / 45 dB (A)  
Material: ABS

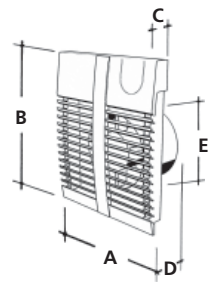
white	194	240	40	118	118	1 / 1	41-315 (5)
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**Shaft-installed ventilator 125 VNB**

with el. sealing flap, delayed shutdown and motion controller, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, shutdown delay time can be adjusted in a range from 3 to 30 minutes, approx. 100 ms switching time in the case of pushbutton control

Specifications: AC 230 V / 50 Hz / 20 W / 2200 rpm / 150 m<sup>3</sup>/h / 45 dB (A)  
Material: ABS

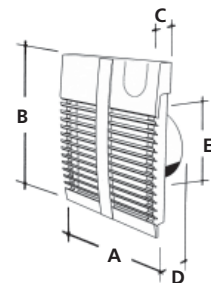
white	194	240	40	118	118	1 / 1	41-330 (8)
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**Shaft-installed ventilator 150**

without seal flap, maintenance-free, low-noise, motor protection by thermo-contact, can also be speed controlled

Specifications: AC 230 V / 50 Hz / 30 W / 1600 rpm / 210 m<sup>3</sup>/h / 38 dB (A)  
Material: ABS

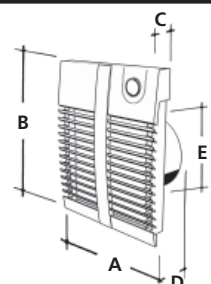
white	194	240	40	118	145	1 / 1	41-405 (3)
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**Shaft-installed ventilator 150 VN**

with el. sealing flap, delayed shutdown and start-up behaviour, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, startup can be delayed continuously by up to 3 minutes after activation, shutdown delay time can be adjusted in a range from 3 to 30 minutes, approx. 100 ms switching time in the case of pushbutton control

Specifications: AC 230 V / 50 Hz / 30 W / 1600 rpm / 210 m<sup>3</sup>/h / 38 dB (A)  
Material: ABS

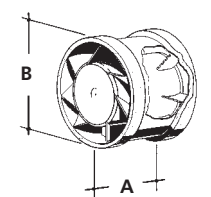
white	194	240	40	118	145	1 / 1	41-415 (2)
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**Shaft-installed ventilator 150 VNB**

with el. sealing flap, delayed shutdown and motion controller, maintenance-free, suitable for continuous operation, low-noise, motor protection by thermo-contact, shutdown delay time can be adjusted in a range from 3 to 30 minutes

Specifications: AC 230 V / 50 Hz / 30 W / 1600 rpm / 210 m<sup>3</sup>/h / 38 dB (A)  
Material: ABS

white	194	240	40	118	145	1 / 1	41-430 (5)
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**Pipe-installed ventilator 100 RE**

suitable for pipes NW 100, can be used for fresh air supply and exhaust air removal by corresponding installation; can also be speed-controlled

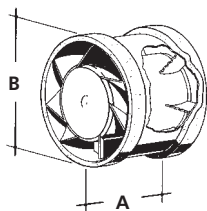
Specifications: AC 230 V / 50 Hz / 20 W / 2300 rpm / 120 m<sup>3</sup>/h / 52 dB (A)  
Material: ABS

white	87	100				1 / 1	41-715 (3)
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VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

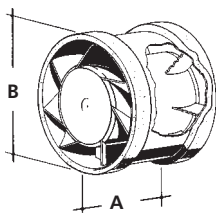
**Pipe-installed ventilator 125 RE**

suitable for pipes NW 125, can be used for fresh air supply and exhaust air removal by corresponding installation; can also be speed-controlled

Specifications: AC 230 V / 50 Hz / 30 W / 2200 rpm / 200 m<sup>3</sup>/h / 54 dB (A)

Material: ABS

white	99	115			1 / 1	41-730 (6)
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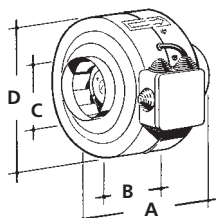
**Pipe-installed ventilator 150 RE**

suitable for pipes NW 150, can be used for fresh air supply and exhaust air removal by corresponding installation; can also be speed-controlled

Specifications: AC 230 V / 50 Hz / 36 W / 1700 rpm / 240 m<sup>3</sup>/h / 56 dB (A)

Material: ABS

white	99	150			1 / 1	41-735 (1)
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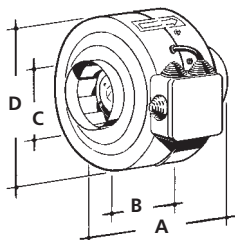
**Radial pipe ventilator 100**

particularly high-performing and robust motor, maintenance-free and suitable for continuous operation, motor protection by thermo-contact, can be installed in any position, low-noise radial blades with high efficiency

Specifications: AC 230 V / 50 Hz / 70 W / 2460 rpm / 240 m<sup>3</sup>/h / 46 dB (A)

Housing material: galvanized steel sheet

	186	146	100	242	1 / 1	41-230 (1)
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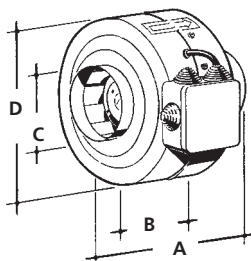
**Radial pipe ventilator 125**

particularly high-performing and robust motor, maintenance-free and suitable for continuous operation, motor protection by thermo-contact, can be installed in any position, low-noise radial blades with high efficiency

Specifications: AC 230 V / 50 Hz / 72 W / 2360 rpm / 350 m<sup>3</sup>/h / 48 dB (A)

Housing material: galvanized steel sheet

	186	146	125	242	1 / 1	41-235 (6)
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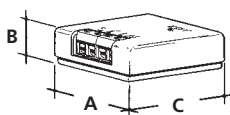
**Radial pipe ventilator 150**

particularly high-performing and robust motor, maintenance-free and suitable for continuous operation, motor protection by thermo-contact, can be installed in any position, low-noise radial blades with high efficiency, with two adapters from Ø 160 to Ø 150

Specifications: AC 230 V / 50 Hz / 100 W / 2450 rpm / 700 m<sup>3</sup>/h / 54 dB (A)

Housing material: galvanized steel sheet

	225	172	160	344	1 / 1	41-240 (0)
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**Time switch, electronic**

Operating time switch ZS 1, shutdown delay time can be adjusted continuously in a range of approx. 1 to 10 minutes, controlled via light switch

Material: PA6 30% GF

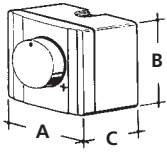
	37	16	43		1 / 1	41-609 (5)
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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

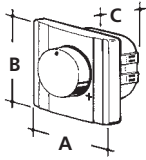
### Speed controller, wall-mounted



suitable for radial pipe ventilators RUG Art. Nos. 41-230, 41-235 and 41-240 and RUG ventilators without seal flap, continuous, electronic control, connection of several ventilators possible, up to a max. rated current of 1 A, wall-mounted  
Material: case, plastic

80	80	53		1 / 1	41-610 (1)
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### Speed controller, flush-mounted



suitable for radial pipe ventilators RUG Art. Nos. 41-230, 41-235 and 41-240 and RUG ventilators without seal flap, continuous, electronic control, connection of several ventilators possible, up to a max. rated current of 1 A, flush-mounted  
Material: case, plastic

80	80	43		1 / 1	41-612 (5)
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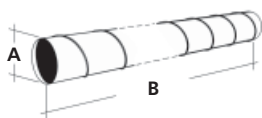
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Folded spiral seamtube

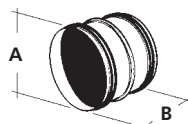
Material: galvanized steel sheet



100	1000	1 / 1	37-000	(7)
125	1000	1 / 1	37-001	(4)
150	1000	1 / 1	37-002	(1)
100	2000	1 / 1	37-010	(6)
125	2000	1 / 1	37-011	(3)
150	2000	1 / 1	37-012	(0)

### Pipe connector

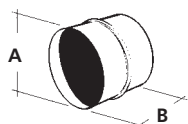
Material: galvanized steel sheet, with lip seal



100	85	1 / 1	37-020	(5)
125	77	1 / 1	37-021	(2)
150	78	1 / 1	37-022	(9)

### Sleeve

Material: galvanized steel sheet



100	90	1 / 1	37-025	(0)
125	90	1 / 1	37-026	(7)
150	90	1 / 1	37-027	(4)

### Pipe end lid

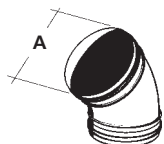
Material: galvanized steel sheet



100	45	1 / 1	37-030	(4)
125	45	1 / 1	37-031	(1)
150	45	1 / 1	37-032	(8)

### Pipe elbow 45°

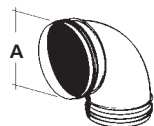
Material: galvanized steel sheet, with lip seal



100		1 / 1	37-040	(3)
125		1 / 1	37-041	(0)
150		1 / 1	37-042	(7)

### Pipe elbow 90°

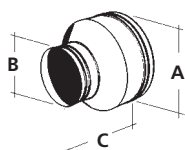
Material: Galvanized steel sheet, with lip seal



100		1 / 1	37-050	(2)
125		1 / 1	37-051	(9)
150		1 / 1	37-052	(6)

### Reducer

Material: Galvanized steel sheet, with lip seal



125	:	100	100	1 / 1	37-060	(1)
150	:	100	106	1 / 1	37-061	(8)
150	:	125	92	1 / 1	37-062	(5)
160	:	150	90	1 / 1	37-063	(2)

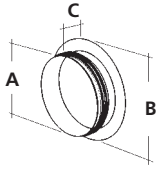
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no.	no.)

FOLDED SPIRAL-SEAM

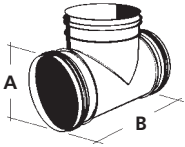
### Collar



Material: Galvanized steel sheet

100	125	54			1 / 1	37-070 (0)
125	150	54			1 / 1	37-071 (7)
150	175	54			1 / 1	37-072 (4)

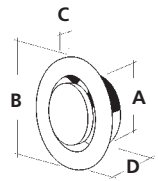
### Branch 90°



Material: Galvanized steel sheet, with lip seal

100					1 / 1	37-080 (9)
125					1 / 1	37-081 (6)
150					1 / 1	37-082 (3)

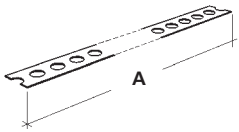
### Disk valve



Material: Galvanized steel sheet, white paint coat

100	135	8	50		1 / 1	37-090 (8)
125	165	10	50		1 / 1	37-091 (5)
150	200	10	50		1 / 1	37-092 (2)

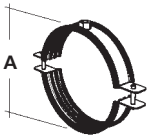
### Punched steel strip



Material: galvanized steel sheet

Reel 10 m					1 / 1	37-100 (4)
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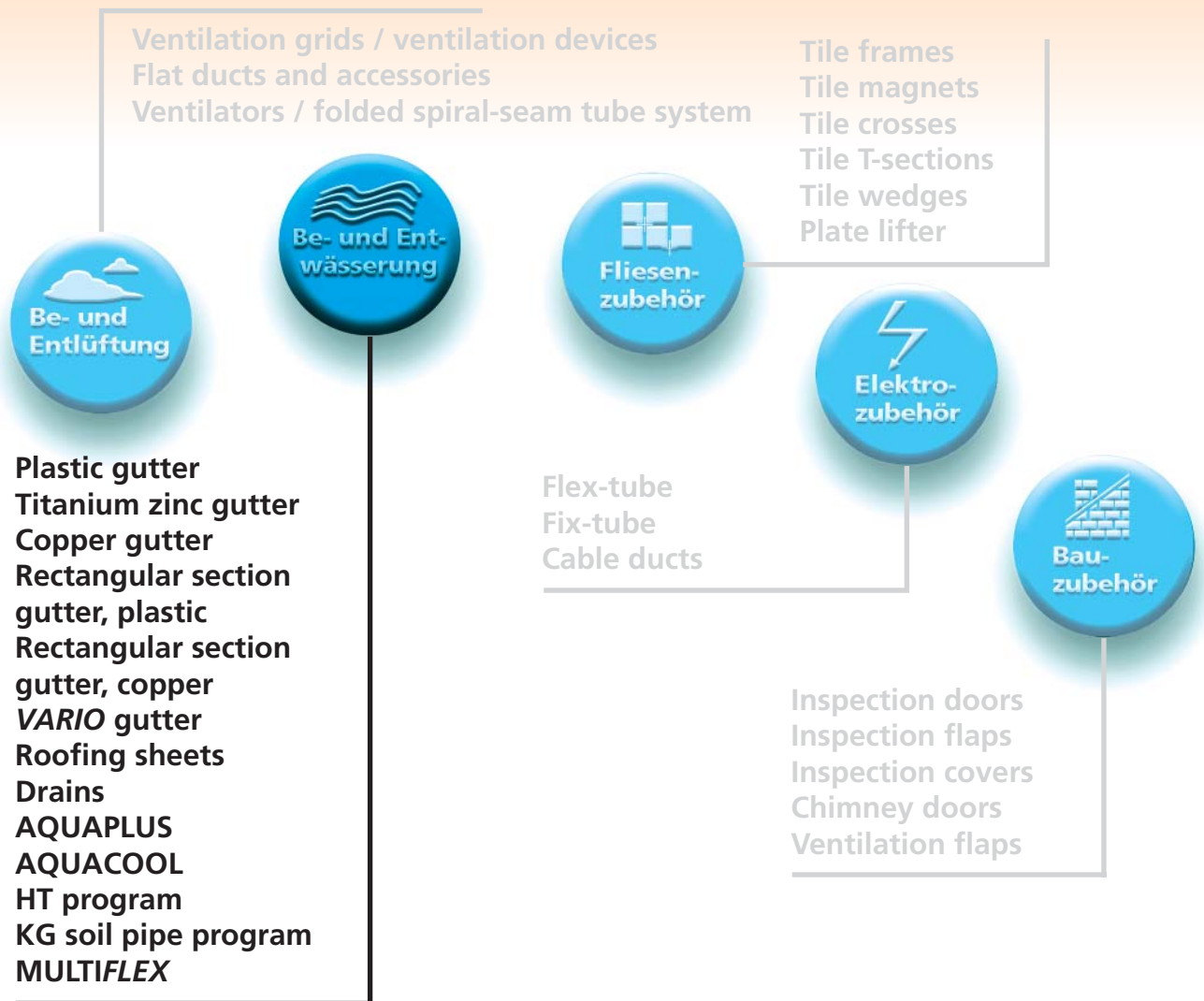
### Sound-insulated clamp



Material: galvanized steel sheet, rubber

100					1 / 1	37-101 (1)
125					1 / 1	37-102 (8)
150					1 / 1	37-103 (5)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

## Plastic gutter / half-round

Material: hard PVC



	NW	length m		
brown	100	1,0	5 / 1	65-000 (0)
brown	125	1,0	5 / 1	65-001 (7)
brown	100	2,0	5 / 1	65-004 (8)
brown	125	2,0	5 / 1	65-005 (5)
brown	100	3,0	5 / 1	65-008 (6)
brown	125	3,0	5 / 1	65-009 (3)
brown	100	4,0	5 / 1	65-012 (3)
brown	125	4,0	5 / 1	65-013 (0)
gray	100	1,0	5 / 1	65-100 (7)
gray	125	1,0	5 / 1	65-101 (4)
gray	100	2,0	5 / 1	65-104 (5)
gray	125	2,0	5 / 1	65-105 (2)
gray	100	3,0	5 / 1	65-108 (3)
gray	125	3,0	5 / 1	65-109 (0)
gray	100	4,0	5 / 1	65-112 (0)
gray	125	4,0	5 / 1	65-113 (7)

## Downpipe

Material: hard PVC



	NW	length m		
brown	75	1,0	4 / 1	65-016 (1)
brown	100	1,0	4 / 1	65-017 (8)
brown	75	2,5	4 / 1	65-019 (2)
brown	100	2,5	4 / 1	65-020 (8)
brown	75	3,2	4 / 1	65-022 (2)
brown	100	3,2	4 / 1	65-023 (9)
gray	75	1,0	4 / 1	65-116 (8)
gray	100	1,0	4 / 1	65-117 (5)
gray	75	2,5	4 / 1	65-119 (9)
gray	100	2,5	4 / 1	65-120 (5)
gray	75	3,2	4 / 1	65-122 (9)
gray	100	3,2	4 / 1	65-123 (6)

## Gutter connector

Material: hard PVC



brown	100	12 / 1	65-024 (6)
brown	125	12 / 1	65-028 (4)
gray	100	12 / 1	65-124 (3)
gray	125	12 / 1	65-128 (1)

## Gutter angle universal inside/outside

Material: hard PVC



brown	100	2 / 1	65-032 (1)
brown	125	2 / 1	65-036 (9)
gray	100	2 / 1	65-132 (8)
gray	125	2 / 1	65-136 (6)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

PLASTIC GUTTER

### Gutter end piece universal left/right

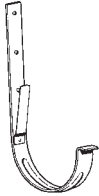
Material: hard PVC



	<i>NW</i>			
brown	100		12 / 1	65-040 (6)
brown	125		12 / 1	65-044 (4)
gray	100		12 / 1	65-140 (3)
gray	125		12 / 1	65-144 (1)

### Gutter bracket, coated

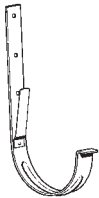
Material: galvanized steel, coated



	<i>NW</i>			
brown	100		20 / 1	65-045 (1)
brown	125		20 / 1	65-046 (8)
gray	100		20 / 1	65-145 (8)
gray	125		20 / 1	65-146 (5)

### Gutter bracket, galvanized

Material: galvanized steel



	<i>NW</i>			
	100		20 / 1	65-345 (2)
	125		20 / 1	65-346 (9)

### Adjustable gutter bracket

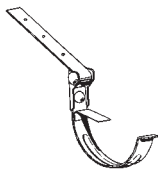
Material: galvanized steel, coated



	<i>NW</i>			
brown	100		30 / 1	65-497 (8)
brown	125		25 / 1	65-498 (5)
gray	100		30 / 1	65-502 (9)
gray	125		25 / 1	65-503 (6)

### Adjustable gutter bracket

Material: galvanized steel



	<i>NW</i>			
	100		30 / 1	65-347 (6)
	125		25 / 1	65-348 (3)

### Fascia board bracket

Material: PVC



	<i>NW</i>			
brown	100		20 / 1	65-494 (7)
brown	125		20 / 1	65-493 (0)
gray	100		20 / 1	65-505 (0)
gray	125		20 / 1	65-504 (3)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

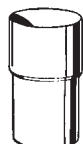
### Gutter drain



Material: hard PVC

	NW		
brown	100/75	6 / 1	65-050 (5)
brown	125/100/75	6 / 1	65-053 (6)
gray	100/75	6 / 1	65-150 (2)
gray	125/100/75	6 / 1	65-153 (3)

### Pipe sleeve



Material: hard PVC

	NW		
brown	75	12 / 1	65-055 (0)
brown	100	12 / 1	65-056 (7)
gray	75	12 / 1	65-155 (7)
gray	100	12 / 1	65-156 (4)

### Pipe elbow 45°



Material: hard PVC

	NW		
brown	75	18 / 1	65-060 (4)
brown	100	8 / 1	65-063 (5)
gray	75	18 / 1	65-160 (1)
gray	100	8 / 1	65-163 (2)

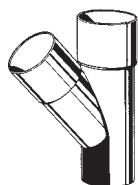
### Pipe elbow 67°



Material: hard PVC

	NW		
brown	75	18 / 1	65-067 (3)
brown	100	8 / 1	65-068 (0)
gray	75	18 / 1	65-167 (0)
gray	100	8 / 1	65-168 (7)

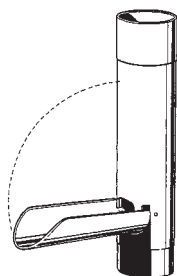
### Downpipe branch 45°



Material: hard PVC

	NW		
brown	75/75	2 / 1	65-064 (2)
brown	100/75	2 / 1	65-065 (9)
brown	100/100	2 / 1	65-066 (6)
gray	75/75	2 / 1	65-164 (9)
gray	100/75	2 / 1	65-165 (6)
gray	100/100	2 / 1	65-166 (3)

### Downpipe flap



Material: hard PVC

	NW		
brown	75	2 / 1	65-069 (7)
brown	100	2 / 1	65-070 (3)
gray	75	2 / 1	65-169 (4)
gray	100	2 / 1	65-170 (0)

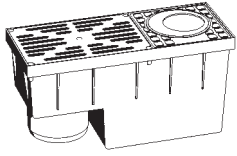
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

PLASTIC GUTTER

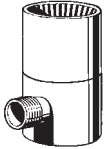
### Gully trap



for downpipes DN 75-110, vertical outlet DN 110, cover plate and grate (for use as floor drain), anti-smell seal, leaf basket  
Material: hard PVC

gray	NW 75-100		1 / 1	65-199 (1)
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### Automatic water barrel filling device



with hose connection 3/4"  
Material: hard PVC

brown	NW 75		2 / 1	65-090 (1)
brown	100		2 / 1	65-091 (8)
gray	75		2 / 1	65-190 (8)
gray	100		2 / 1	65-191 (5)

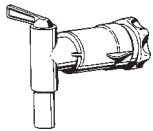
### Water barrel connection



Material: plastic

black	size 3/4"		6 / 2	65-192 (2)
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### Tap for water barrels



Material: plastic

white	size 3/4"		6 / 1	65-194 (6)
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### Water barrel connection kit



consisting of: 1 soft PVC hose 250 mm, 2 plastic connection nozzles with locknuts, 4 gaskets

	size 3/4"		4 / 1	65-195 (3)
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### Leaf basket universal



Material: PP

can be used for gutters NW 70-75 and downpipes NW 50-100  
by shortening the fixing brackets

dark gr.	NW 50 -125		18 / 1	65-074 (1)
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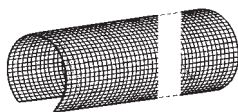
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Leaf screen

for all plastic and metal gutters  
Material: polyethylene



	NW	length m		
black	100/125	3,0	9 / 1	65-095 (6)
black	150	3,0	9 / 1	65-096 (3)

### Downpipe clamp

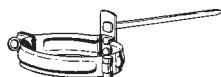
with screws and plugs  
Material: hard PVC



	NW			
brown	75		12 / 2	65-075 (8)
brown	100		12 / 2	65-076 (5)
gray	75		12 / 2	65-175 (5)
gray	100		12 / 2	65-176 (2)

### Downpipe clamp

with blow pin 200 mm  
Material: galvanized steel, coated



	NW			
brown	75		20 / 1	65-083 (3)
brown	100		20 / 1	65-084 (0)
gray	75		20 / 1	65-183 (0)
gray	100		20 / 1	65-184 (7)

### Eaves strip

Material: hard PVC



	length m		
brown	2,0		5 / 1 65-071 (0)
gray	2,0		5 / 1 65-171 (7)

### Rectangular section gutter / plastic

Material: hard PVC



	NW	length m		
brown	70	1,0	8 / 1	65-469 (5)
brown	70	2,0	8 / 1	65-468 (8)
brown	70	3,0	8 / 1	65-467 (1)
gray	70	1,0	8 / 1	65-452 (7)
gray	70	2,0	8 / 1	65-451 (0)
gray	70	3,0	8 / 1	65-450 (3)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Downpipe

Material: hard PVC



	NW	length m		
brown	50	1,0	4 / 1	65-478 (7)
brown	50	2,0	4 / 1	65-477 (0)
brown	50	3,0	4 / 1	65-476 (3)
gray	50	1,0	4 / 1	65-461 (9)
gray	50	2,0	4 / 1	65-460 (2)
gray	50	3,0	4 / 1	65-459 (6)

### Gutter connector

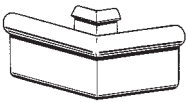
Material: hard PVC



	NW		
brown	70	18 / 1	65-470 (1)
gray	70	18 / 1	65-453 (4)

### Gutter angle, outside

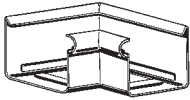
Material: hard PVC



	NW		
brown	70	6 / 1	65-474 (9)
gray	70	6 / 1	65-457 (2)

### Gutter angle, inside

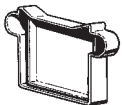
Material: hard PVC



	NW		
brown	70	6 / 1	65-475 (6)
gray	70	6 / 1	65-458 (9)

### Gutter end piece universal left/right

Material: hard PVC



	NW		
brown	70	18 / 1	65-518 (0)
gray	70	18 / 1	65-515 (9)

### Gutter bracket

Material: galvanized steel, coated



	NW		
brown	70	20 / 1	65-485 (5)
gray	70	20 / 1	65-484 (8)

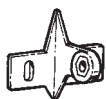
RECTANGULAR SECTION GUTTER / PLASTIC

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

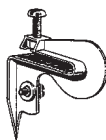
### Inclination adjuster for rect. section and VARIO gutter brackets



with screws  
Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	70		20 / 2	65-441	(1)
gray	70		20 / 2	65-416	(9)

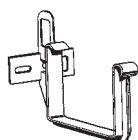
### Corrugated slab bracket for rect. section and VARIO gutter bracket



with screws  
Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	70		20 / 2	65-443	(5)
gray	70		20 / 2	65-418	(3)

### Gutter bracket



Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	70		20 / 2	65-496	(1)
gray	70		20 / 2	65-501	(2)

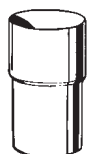
### Gutter drain



Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	70/50		12 / 1	65-473	(2)
gray	70/50		12 / 1	65-456	(5)

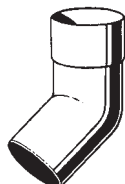
### Pipe sleeve



Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	50		12 / 1	65-481	(7)
gray	50		12 / 1	65-464	(0)

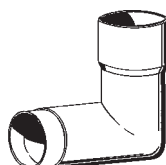
### Pipe elbow 45°



Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	50		18 / 1	65-479	(4)
gray	50		18 / 1	65-462	(6)

### Pipe elbow 87°



Material: hard PVC

color	NW	M	VPE / VE	order no.	(check no.)
brown	50		18 / 1	65-491	(6)
gray	50		18 / 1	65-490	(9)

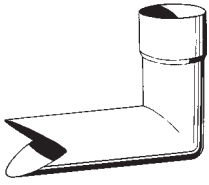
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Water spout

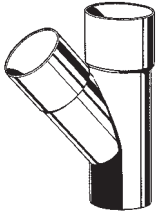
Material: hard PVC



	<i>NW</i>						
brown	50					6 / 1	65-480 (0)
gray	50					6 / 1	65-463 (3)

### Downpipe branch

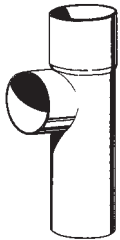
Material: hard PVC



	<i>NW</i>						
brown	50/50					4 / 1	65-437 (4)
gray	50/50					4 / 1	65-412 (1)

### Downpipe branch 87°

Material: hard PVC



	<i>NW</i>						
brown	75/50					3 / 1	65-482 (4)
gray	75/50					3 / 1	65-465 (7)

### Downpipe clamp

with screws and plugs

Material: hard PVC



	<i>NW</i>						
brown	50					12 / 2	65-487 (9)
gray	50					12 / 2	65-486 (2)

### VARIO gutter

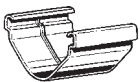
Material: hard PVC



	<i>NW</i>	<i>length m</i>					
brown	70	1,0				8 / 1	65-427 (5)
brown	70	2,0				8 / 1	65-426 (8)
brown	70	3,0				8 / 1	65-425 (1)
gray	70	1,0				8 / 1	65-402 (2)
gray	70	2,0				8 / 1	65-401 (5)
gray	70	3,0				8 / 1	65-400 (8)

### VARIO gutter connector

Material: hard PVC



	<i>NW</i>						
brown	70					18 / 1	65-429 (9)
gray	70					18 / 1	65-404 (6)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

**VARIO gutter end piece left/right**

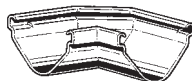
Material: hard PVC



	NW			
brown	70		18 / 1	65-431 (2)
gray	70		18 / 1	65-406 (0)

**VARIO gutter angle inside/outside**

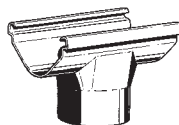
Material: hard PVC



	NW			
brown	70		6 / 1	65-433 (6)
gray	70		6 / 1	65-408 (4)

**VARIO gutter drain**

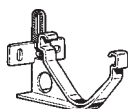
Material: hard PVC



	NW			
brown	70/50		12 / 1	65-435 (0)
gray	70/50		12 / 1	65-410 (7)

**VARIO gutter bracket**

Material: hard PVC



	NW			
brown	70		20 / 2	65-439 (8)
gray	70		20 / 2	65-414 (5)

**Inclination adjuster for rect. section and VARIO gutter brackets**

with screws

Material: hard PVC



	NW			
brown	70		20 / 2	65-441 (1)
gray	70		20 / 2	65-416 (9)

**Corrugated slab bracket for rect. section and VARIO gutter bracket**

with screws

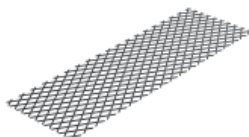
Material: hard PVC



	NW			
brown	70		20 / 2	65-443 (5)
gray	70		20 / 2	65-418 (3)

**VARIO leaf screen**

Material: polyethylene



	NW	length m		
black	70	6,0	8 / 1	65-449 (7)

**Gutter glue**

content: 100 g



			8 / 1	65-488 (6)
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

ZINC GUTTER

**Gutter end piece right/left**

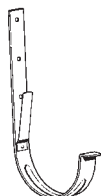
Material: titanium zinc



NW								
100						1 / 1	67-527	(0)
125						1 / 1	67-528	(7)
150						1 / 1	67-529	(4)

**Gutter bracket**

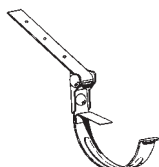
Material: galvanized steel



NW								
100						1 / 1	65-345	(2)
125						1 / 1	65-346	(9)
150						1 / 1	65-349	(0)

**Adjustable gutter bracket**

Material: galvanized steel



NW								
100						30 / 1	65-347	(6)
125						25 / 1	65-348	(3)

**Gutter drain**

Material: titanium zinc



NW								
100/60						1 / 1	67-550	(8)
100/87						1 / 1	67-554	(6)
125/87						1 / 1	67-551	(5)
125/100						1 / 1	67-552	(2)
150/100						1 / 1	67-553	(9)

**Gutter pipe cap**

Material: titanium zinc



NW								
60/116						1 / 1	67-587	(4)
87/116						1 / 1	67-588	(1)
100/116						1 / 1	67-589	(8)

**Pipe elbow 72°**

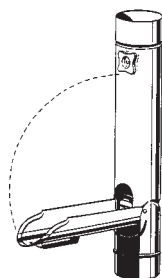
Material: titanium zinc



NW								
60						1 / 1	67-560	(7)
87						1 / 1	67-561	(4)
100						1 / 1	67-562	(1)

**Downpipe flap**

Material: titanium zinc



NW								
60						1 / 1	67-568	(3)
87						1 / 1	67-569	(0)
100						1 / 1	67-570	(6)

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color	size in mm					M	VPE / VE	order no.	(check no.)
	A	B	C	D	E	l/s			

ZINC GUTTER

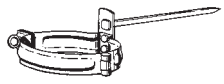
### Leaf basket



Material: galvanized

NW								
87						1 / 1	67-572	(0)
100						1 / 1	67-573	(7)

### Downpipe clamp



with blow pin 200 mm

Material: galvanized

NW								
60						1 / 1	67-577	(5)
87						1 / 1	67-580	(5)
100						1 / 1	67-581	(2)

### Eaves sheet



Material: titanium zinc

length m								
3,0						1 / 1	67-590	(4)

### Cleats for eaves sheet incl. nails



Material: galvanized

						1 / 10	67-594	(2)

### Cleats for eaves sheet



Material: galvanized

						1 / 10	67-595	(9)

### pin



Material: galvanized

thickness mm	length mm							
4,2	60					1 / 1 kg	67-598	(0)

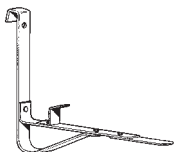
### Snow guard



Material: galvanized

length m								
3,0						1 / 1	67-596	(6)

### Snow guard support



Material: galvanized

						1 / 1	67-597	(3)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				



### Gutter pipe

with inspection opening  
Material: galvanized

NW	length m		
100	1,0	1 / 1	67-521 (8)

### Copper gutter / half-round

Material: copper, thickness 0.6 mm



NW	length m		
125	2,0	1 / 1	67-305 (4)
150	2,0	1 / 1	67-306 (1)
125	3,0	1 / 1	67-309 (2)
150	3,0	1 / 1	67-310 (8)

### Downpipe

Material: copper



NW	length m		
80	1,0	1 / 1	67-316 (0)
100	1,0	1 / 1	67-317 (7)
80	2,0	1 / 1	67-319 (1)
100	2,0	1 / 1	67-321 (4)

### Gutter connector

Material: copper



NW			
125		1 / 1	67-325 (2)
150		1 / 1	67-326 (9)

### Gutter angle, outside

Material: copper



NW			
125		1 / 1	67-330 (6)
150		1 / 1	67-331 (3)

### Gutter angle, inside

Material: copper



NW			
125		1 / 1	67-334 (4)
150		1 / 1	67-335 (1)

### Gutter end piece right/left

Material: copper



NW			
125		1 / 1	67-340 (5)
150		1 / 1	67-344 (3)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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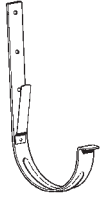


color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

COPPER GUTTER

### Gutter bracket

Material: copper, incl. copper nails



NW			
125		1 / 2	67-346 (7)
150		1 / 2	67-347 (4)

### Gutter drain

Material: copper



NW			
125/80		1 / 1	67-351 (1)
125/100		1 / 1	67-353 (5)
150/100		1 / 1	67-354 (2)

### Gutter pipe cap

Material: copper



NW			
80/116		1 / 1	67-355 (9)
100/116		1 / 1	67-356 (6)

### Pipe elbow 72°

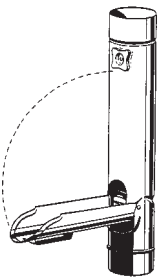
Material: copper



NW			
80		1 / 1	67-361 (0)
100		1 / 1	67-362 (7)

### Downpipe flap

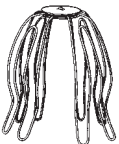
Material: copper



NW			
80		1 / 1	67-369 (6)
100		1 / 1	67-370 (2)

### Leaf basket

Material: copper

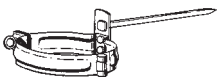


NW			
70-100		1 / 1	67-373 (3)

### Downpipe clamp

with blow pin 200 mm

Material: copper



NW			
80		1 / 2	67-379 (5)
100		1 / 2	67-381 (8)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

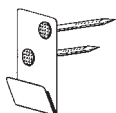
### Eaves sheet



Material: copper

<i>length m</i>								
2,0						1 / 1		67-390 (0)

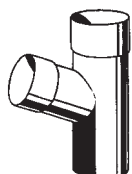
### Cleats for eaves sheet



Material: copper, incl. copper nails

						1 / 4		67-395 (5)

### Downpipe branch 72°



Material: copper

<i>NW</i>								
80						1 / 1		67-364 (1)

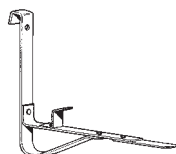
### Snow guard



Material: copper

<i>length m</i>								
3,0						1 / 1		67-396 (2)

### Snow guard support



Material: copper

						1 / 1		67-397 (9)

### Rect. section gutter



Material: copper, thickness 0.6 mm

<i>NW</i>	<i>length m</i>							
70	1,0					1 / 1		67-401 (3)
70	2,0					1 / 1		67-402 (0)

### Downpipe



Material: copper

<i>NW</i>	<i>length m</i>							
60	0,4					1 / 1		67-404 (4)
60	2,0					1 / 1		67-405 (1)

### Gutter angle, outside



Material: copper

<i>NW</i>								
70						1 / 1		67-416 (7)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

RECTANGULAR SECTION GUTTER, COPPER

### Gutter angle, inside



Material: copper

NW						1 / 1	67-418 (1)
70							

### Gutter end piece left



Material: copper

NW						1 / 1	67-425 (9)
70							

### Gutter end piece right



Material: copper

NW						1 / 1	67-427 (3)
70							

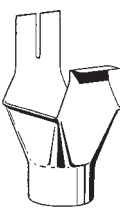
### Gutter bracket



Material: copper, incl. copper nails

NW						1 / 2	67-409 (9)
70							

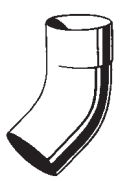
### Gutter drain



Material: copper

NW						1 / 1	67-412 (9)
70/60							

### Pipe elbow 40°



Material: copper

NW						1 / 1	67-440 (2)
60							

### Pipe elbow 72°



Material: copper

NW						1 / 1	67-442 (6)
60							

### Water spout



Material: copper

NW						1 / 1	67-450 (1)
60							

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

RECTANGULAR SECTION  
ROOFING SHEETS



### Leaf basket

Material: copper

NW					1 / 1	67-435 (8)
60						

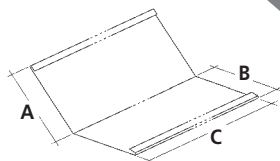


### Downpipe clamp

with blow pin 200 mm

Material: copper

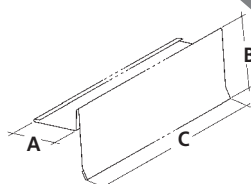
NW					1 / 2	67-430 (3)
60						



### Flashing

Material: aluminium

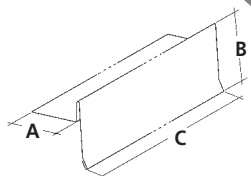
185	185	1000	10 / 1	67-801 (1)
185	185	2000	10 / 1	67-802 (8)



### Verge sheet with water fold

Material: aluminium

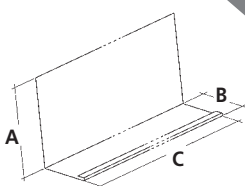
80	80	1000	10 / 1	67-803 (5)
80	80	2000	10 / 1	67-804 (2)



### Verge sheet without water fold

Material: aluminium

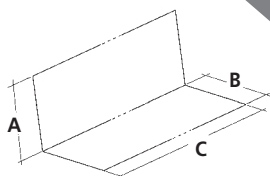
95	105	1000	10 / 1	67-805 (9)
95	105	2000	10 / 1	67-806 (6)



### Angle sheet with water fold

Material: aluminium

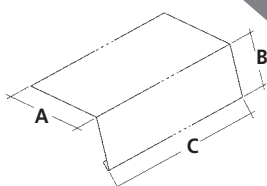
155	80	1000	10 / 1	67-807 (3)
155	80	2000	10 / 1	67-808 (0)



### Angle sheet without water fold

Material: aluminium

125	125	1000	10 / 1	67-809 (7)
125	125	2000	10 / 1	67-810 (3)



### Gutter suspender without water fold

Material: aluminium

145	90	1000	10 / 1	67-813 (4)
145	90	2000	10 / 1	67-814 (1)

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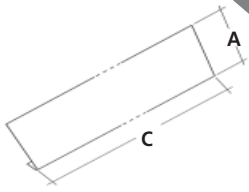




color	size in mm					M	VPE / VE	order (check
	A	B	C	D	E	l/s		no. no.)

ROOFING SHEETS

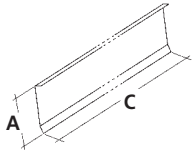
### Eaves strip without water fold



Material: aluminium

235	1000	10 / 1	67-815 (8)
235	2000	10 / 1	67-816 (5)

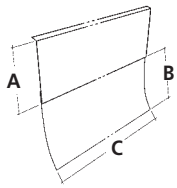
### Dormer strip



Material: aluminium

60	1000	10 / 1	67-819 (6)
60	2000	10 / 1	67-820 (2)

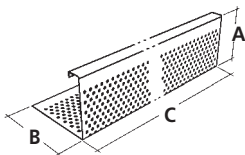
### End strip with bitumen sealing tape



Material: Aluminium

90	105	1000	10 / 1	67-821 (9)
90	105	2000	10 / 1	67-822 (6)

### Gravel catch strip



Material: Aluminium

82	100	1000	10 / 1	67-823 (3)
82	100	2000	10 / 1	67-824 (0)

### Plumber's screw

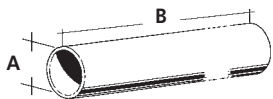


Material: stainless steel

<i>length</i>				
4.5 x 40		5 / 1	67-830 (1)	

### AQUAPLUS pipe

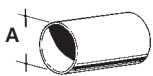
for cold and hot water up to a max. of +85°C / 6 bar  
Material: PVC-C



16	2000	30 / 1	68-301 (5)
20	2000	20 / 1	68-302 (2)
25	2000	15 / 1	68-303 (9)
32	2000	10 / 1	68-304 (6)

### AQUAPLUS sleeve

for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	10 / 2	68-311 (4)
20	10 / 2	68-312 (1)
25	10 / 2	68-313 (8)
32	10 / 2	68-314 (5)

AQUAPLUS

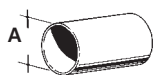
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### AQUAPLUS sleeve big packs

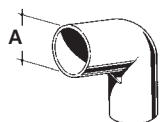
for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	5 / 10	68-611 (5)
20	5 / 10	68-612 (2)

### AQUAPLUS angle 90° inside / inside

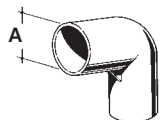
for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	10 / 2	68-321 (3)
20	10 / 2	68-322 (0)
25	10 / 2	68-323 (7)
32	10 / 2	68-324 (4)

### AQUAPLUS angle 90° inside / inside big packs

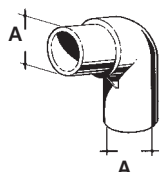
for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	5 / 10	68-621 (4)
20	5 / 10	68-622 (1)

### AQUAPLUS angle 90° inside / outside

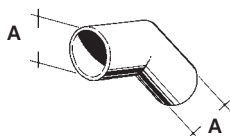
for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	10 / 2	68-341 (1)
20	10 / 2	68-342 (8)
25	10 / 2	68-343 (5)
32	10 / 2	68-344 (2)

### AQUAPLUS angle 45° inside / inside

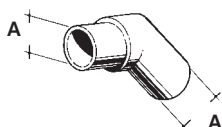
for cold and hot water up to a max. of +85°C  
Material: PVC-C



16	10 / 2	68-331 (2)
20	10 / 2	68-332 (9)
25	10 / 2	68-333 (6)
32	10 / 2	68-334 (3)

### AQUAPLUS angle 45° inside / outside

for cold and hot water up to a max. of +85°C  
Material: PVC-C



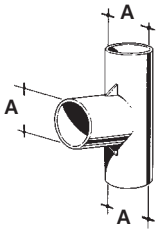
16	10 / 2	68-351 (0)
20	10 / 2	68-352 (7)
25	10 / 2	68-353 (4)
32	10 / 2	68-354 (1)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

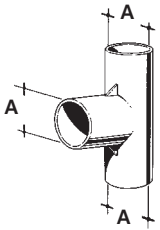
AQUAPLUS



### AQUAPLUS tee

for cold and hot water up to a max. of +85°C  
Material: PVC-C

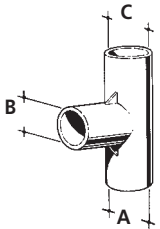
16		10 / 2	68-361 (9)
20		10 / 2	68-362 (6)
25		10 / 2	68-363 (3)
32		10 / 2	68-364 (0)



### AQUAPLUS tee big pack

for cold and hot water up to a max. of +85°C  
Material: PVC-C

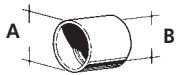
16		5 / 10	68-661 (0)
20		5 / 10	68-662 (7)



### AQUAPLUS tee, reduced

for cold and hot water up to a max. of +85°C  
Material: PVC-C

20	16	16	10 / 2	68-371 (8)
25	16	20	10 / 2	68-372 (5)



### AQUAPLUS reducing nipple

for cold and hot water up to a max. of +85°C  
Material: PVC-C

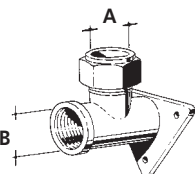
20	16	10 / 2	68-381 (7)
25	16	10 / 2	68-382 (4)
25	20	10 / 2	68-383 (1)
32	25	10 / 2	68-384 (8)



### AQUAPLUS cap

for cold and hot water up to a max. of +85°C  
Material: PVC-C

16		10 / 2	68-391 (6)
20		10 / 2	68-392 (3)
25		10 / 2	68-393 (0)
32		10 / 2	68-394 (7)



### AQUAPLUS wall disk

Material: brass

16	1/2"	10 / 1	68-070 (0)
20	3/4"	10 / 1	68-071 (7)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification

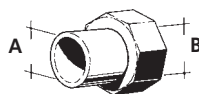




color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### AQUAPLUS valve connection

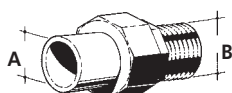
with flat seal, for cold and hot water up to a max. of +85°C  
Material: brass/PVC-C



16	3/4"	10 / 1	68-431 (9)
20	1"	10 / 1	68-432 (6)
25	1 1/4"	5 / 1	68-433 (3)
32	1 1/2"	5 / 1	68-434 (0)

### AQUAPLUS transition screw joint (external thread)

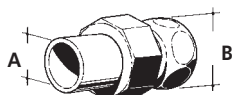
for cold and hot water up to a max. of +85°C  
Material: brass/PVC-C



16	1/2"	10 / 1	68-411 (1)
20	1/2"	10 / 1	68-412 (8)
25	3/4"	5 / 1	68-413 (5)
32	1"	5 / 1	68-414 (2)

### AQUAPLUS transition screw joint (internal thread)

for cold and hot water up to a max. of +85°C  
Material: brass/PVC-C



16	1/2"	10 / 1	68-421 (0)
20	1/2"	10 / 1	68-422 (7)
25	3/4"	5 / 1	68-423 (4)
32	1"	5 / 1	68-424 (1)

### AQUAPLUS transition screw joint (external thread) with clamp screw joint

for cold and hot water up to a max. of +85°C  
Material: brass



16	1/2"	10 / 1	68-441 (8)
20	1/2"	10 / 1	68-442 (5)
25	3/4"	5 / 1	68-443 (2)
32	1"	5 / 1	68-444 (9)

### AQUAPLUS transition screw joint (internal thread) with clamp screw joint

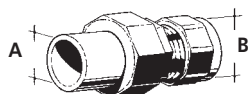
for cold and hot water up to a max. of +85°C  
Material: brass



16	1/2"	10 / 1	68-451 (7)
20	1/2"	10 / 1	68-452 (4)
25	3/4"	5 / 1	68-453 (1)
32	1"	5 / 1	68-454 (8)

### AQUAPLUS transition clamp screw joint for copper pipe

for cold and hot water up to a max. of +85°C  
Material: brass/PVC-C



16	15	15 / 1	68-461 (6)
20	18	10 / 1	68-462 (3)
25	22	5 / 1	68-463 (0)

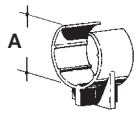
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

AQUAPLUS

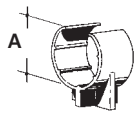
### AQUAPLUS clamp



for clamping  
Material: PVC-C

16	10 / 6	68-401 (2)
20	10 / 6	68-402 (9)
25	10 / 6	68-403 (6)
32	10 / 6	68-404 (3)

### AQUAPLUS clamp, big pack



for clamping  
Material: PVC-C

16	5 / 20	68-600 (9)
20	5 / 20	68-601 (6)
25	5 / 20	68-602 (3)

### AQUAPLUS cleaner



content: 125 ml

	6 / 1	68-095 (3)
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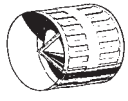
### AQUAPLUS glue (cold welding agent)



incl. applicator in lid, content: 125 ml

	6 / 1	68-096 (0)
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### AQUAPLUS deburrer



Material: plastic/metal

	6 / 1	68-098 (4)
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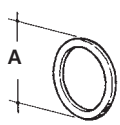
### Pipe cutter



Material: metal

	5 / 1	68-099 (1)
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### AQUAPLUS flat seal



suitable for screw joints  
Material: Centellen

16	10 / 4	68-501 (9)
20	10 / 4	68-502 (6)
25	10 / 4	68-503 (3)

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

**AQUAPLUS clamping ring**

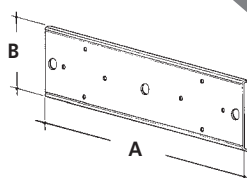

suitable for clamp screw joints  
Material: brass

16	10 / 4	68-511 (8)
20	10 / 4	68-512 (5)
25	10 / 4	68-513 (2)
32	10 / 4	68-514 (9)

**AQUAPLUS clamping ring**

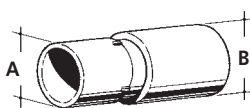

for wall disk 68-070  
Material: brass

16	1 / 5	68-068 (7)
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**AQUAPLUS assembly rail with screws**


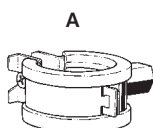
Material: galvanized steel

250	62	10 / 1	68-097 (7)
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**AQUAPLUS adapter**


for transition from inch to metric system, for cold and hot water up to a max. of +85°C  
Material: PVC-C

5/8"	16	10 / 1	68-520 (0)
7/8"	20	10 / 1	68-521 (7)
1"	25	10 / 1	68-522 (4)

**Folding clamp with sound insulation insert**


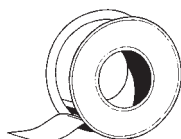
Material: galvanized steel, rubber

16	25 / 1	68-406 (7)
20	25 / 1	68-407 (4)
25	25 / 1	68-408 (1)
32	25 / 1	68-409 (8)

**Hanger bolt for folding clamp**


Material: steel

M8 x 50	25 / 2	68-410 (4)
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**Sealingtape**


Material: PTFE

12 m x 0.1 m	15 / 1	68-799 (0)
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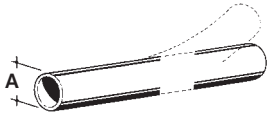


color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

AQUACOOL

### AQUACOOL pipe

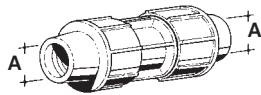
for cold water up to a max. of 20°C / 10.5 bar  
Material: PE



length m			
20	5,0	1 / 1	68-702 (0)
20	12,5	1 / 1	68-700 (6)
20	25,0	1 / 1	68-701 (3)
20	100,0	1 / 1	68-716 (7)
25	5,0	1 / 1	68-705 (1)
25	12,5	1 / 1	68-703 (7)
25	25,0	1 / 1	68-704 (4)
25	100,0	1 / 1	68-717 (4)
32	5,0	1 / 1	68-708 (2)
32	12,5	1 / 1	68-706 (8)
32	25,0	1 / 1	68-707 (5)
32	50,0	1 / 1	68-718 (1)

### AQUACOOL coupling

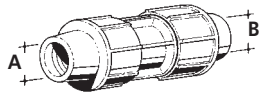
for cold water  
Material: PP



20	8 / 1	68-710 (5)
25	6 / 1	68-711 (2)
32	4 / 1	68-712 (9)

### AQUACOOL coupling, reduced

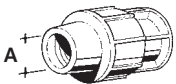
for cold water  
Material: PP



25	20	6 / 1	68-713 (6)
32	25	4 / 1	68-715 (0)

### AQUACOOL end plug

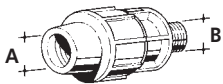
for cold water  
Material: PP



20	10 / 1	68-720 (4)
25	8 / 1	68-721 (1)
32	6 / 1	68-722 (8)

### AQUACOOL connection screw joint, external thread

for cold water  
Material: PP



20	1/2"	10 / 1	68-730 (3)
25	3/4"	8 / 1	68-732 (7)
25	1"	8 / 1	68-733 (4)
32	3/4"	8 / 1	68-734 (1)
32	1"	6 / 1	68-735 (8)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification

color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

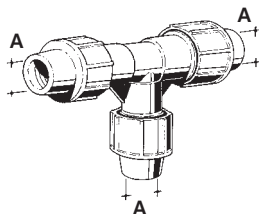
### AQUACOOL connection screw joint, internal thread



for cold water  
Material: PP

20	1/2"	10 / 1	68-740 (2)
25	3/4"	7 / 1	68-742 (6)
25	1"	6 / 1	68-743 (3)
32	1"	5 / 1	68-745 (7)

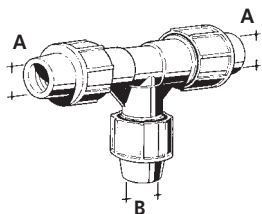
### AQUACOOL tee



for cold water  
Material: PP

20	10 / 1	68-750 (1)
25	6 / 1	68-751 (8)
32	4 / 1	68-752 (5)

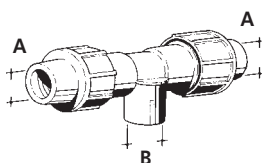
### AQUACOOL tee, reduced



for cold water  
Material: PP

25	20	5 / 1	68-753 (2)
32	25	5 / 1	68-754 (9)

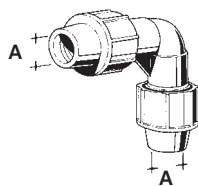
### AQUACOOL tee with internal thread



for cold water  
Material: PP

20	1/2"	10 / 1	68-755 (6)
25	3/4"	10 / 1	68-756 (3)
32	3/4"	6 / 1	68-757 (0)
32	1"	6 / 1	68-758 (7)

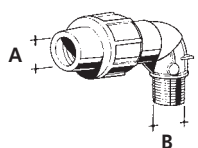
### AQUACOOL angle 90°



for cold water  
Material: PP

20	6 / 1	68-770 (9)
25	4 / 1	68-771 (6)
32	4 / 1	68-772 (3)

### AQUACOOL angle 90° with external thread



for cold water  
Material: PP

20	1/2"	10 / 1	68-773 (0)
25	3/4"	6 / 1	68-776 (1)
32	1"	4 / 1	68-778 (5)

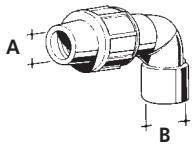
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

AQUACOOL

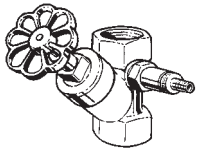
### AQUACOOL angle 90° with internal thread



for cold water  
Material: PP

20	1/2"			10 / 1	68-780 (8)
25	3/4"			6 / 1	68-782 (2)
32	3/4"			4 / 1	68-784 (6)
32	1"			4 / 1	68-785 (3)

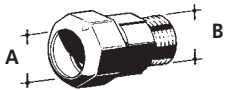
### AQUACOOL slanted seat valve with outflow, internal thread



Material: brass

20				5 / 1	68-790 (7)
25				5 / 1	68-791 (4)
32				5 / 1	68-792 (1)

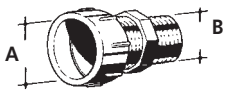
### AQUACOOL transition screw joint PE/Aquaplus pipe



for cold water  
Material: brass

20	1/2"			10 / 1	68-793 (8)
25	3/4"			10 / 1	68-794 (5)
32	1"			6 / 1	68-795 (2)

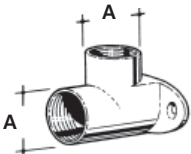
### AQUACOOL transition screw joint PE/copper pipe



for cold water  
Material: brass

20	15			15 / 1	68-796 (9)
20	18			15 / 1	68-797 (6)
25	22			10 / 1	68-798 (3)

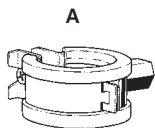
### AQUACOOL wall disk



Material: brass

	1/2"			15 / 1	68-073 (1)
	3/4"			10 / 1	68-075 (5)

### Folding clamp with sound insulation insert



Material: galvanized steel / rubber

20				25 / 1	68-407 (4)
25				25 / 1	68-408 (1)
32				25 / 1	68-409 (8)

### Hanger bolt for folding clamp



Material: steel

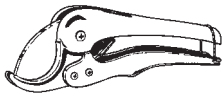
M8 x 50				25 / 2	68-410 (4)
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VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

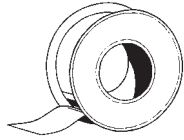
### Pipe cutter



Material: metal

		5 / 1	68-099 (1)
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### Sealing tape

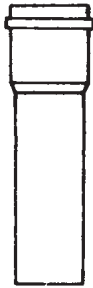


Material: PTFT

12 m x 0.1 m		15 / 1	68-799 (0)
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### HT pipe

with slip-on sleeve, seal installed  
Material: PP



DN	length mm		
32	150	40 / 1	64-000 (1)
40	150	20 / 1	64-001 (8)
50	150	20 / 1	64-002 (5)
75	150	12 / 1	64-003 (2)
110	150	14 / 1	64-004 (9)
32	250	40 / 1	64-010 (0)
40	250	20 / 1	64-011 (7)
50	250	27 / 1	64-012 (4)
75	250	14 / 1	64-013 (1)
110	250	10 / 1	64-014 (8)
32	500	40 / 1	64-020 (9)
40	500	20 / 1	64-021 (6)
50	500	20 / 1	64-022 (3)
75	500	12 / 1	64-023 (0)
110	500	6 / 1	64-024 (7)
32	1000	10 / 1	64-030 (8)
40	1000	10 / 1	64-031 (5)
50	1000	10 / 1	64-032 (2)
75	1000	6 / 1	64-033 (9)
110	1000	4 / 1	64-034 (6)
32	1500	10 / 1	64-040 (7)
40	1500	10 / 1	64-041 (4)
50	1500	10 / 1	64-042 (1)
75	1500	6 / 1	64-043 (8)
110	1500	4 / 1	64-044 (5)
32	2000	10 / 1	64-050 (6)
40	2000	10 / 1	64-051 (3)
50	2000	10 / 1	64-052 (0)
75	2000	6 / 1	64-053 (7)
110	2000	4 / 1	64-054 (4)

### HT flex. pipe



with slip-on sleeve, seal installed  
Material: PP

DN	length mm		
40/50	250	12 / 1	64-462 (7)
40/50	500	8 / 1	64-472 (6)
40/50	1000	10 / 1	64-482 (5)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

HT PROGRAM

### HT elbow 15°

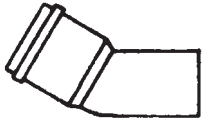
with slip-on sleeve, seal installed  
Material: PP



DN		VPE / VE	order (check no.)
32		20 / 1	64-060 (5)
40		20 / 1	64-061 (2)
50		20 / 1	64-062 (9)
75		20 / 1	64-063 (6)
110		12 / 1	64-064 (3)

### HT elbow 30°

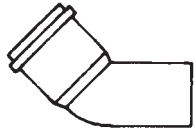
with slip-on sleeve, seal installed  
Material: PP



DN		VPE / VE	order (check no.)
32		20 / 1	64-070 (4)
40		20 / 1	64-071 (1)
50		20 / 1	64-072 (8)
75		12 / 1	64-073 (5)
110		12 / 1	64-074 (2)

### HT elbow 45°

with slip-on sleeve, seal installed  
Material: PP



DN		VPE / VE	order (check no.)
32		20 / 1	64-080 (3)
40		20 / 1	64-081 (0)
50		20 / 1	64-082 (7)
75		20 / 1	64-083 (4)
110		12 / 1	64-084 (1)

### HT elbow 67°

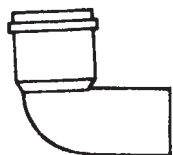
with slip-on sleeve, seal installed  
Material: PP



DN		VPE / VE	order (check no.)
32		20 / 1	64-090 (2)
40		20 / 1	64-091 (9)
50		20 / 1	64-092 (6)
75		12 / 1	64-093 (3)
110		12 / 1	64-094 (0)

### HT elbow 87°

with slip-on sleeve, seal installed  
Material: PP



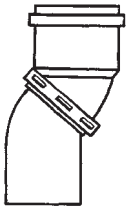
DN		VPE / VE	order (check no.)
32		20 / 1	64-110 (7)
40		20 / 1	64-111 (4)
50		20 / 1	64-112 (1)
75		20 / 1	64-113 (8)
110		12 / 1	64-114 (5)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



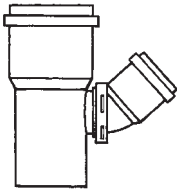


color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

**HT elbow, adjustable**

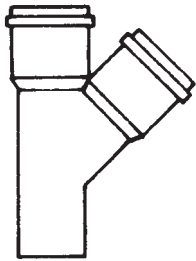
with slip-on sleeve, seal installed  
Material: PP

<i>DN</i>			
50		6 / 1	64-117 (6)
75		3 / 1	64-118 (3)
110		4 / 1	64-119 (0)

**HT branch pipe, adjustable**

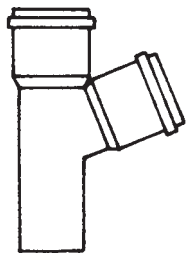
with slip-on sleeve, seal installed  
Material: PP

<i>DN</i>			
50/50		5 / 1	64-166 (4)
110/50		5 / 1	64-168 (8)
110/110		3 / 1	64-170 (1)

**HT branch pipe 45°**

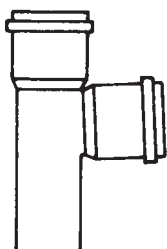
with slip-on sleeve, seal installed  
Material: PP

<i>DN</i>			
32/32		20 / 1	64-120 (6)
40/40		12 / 1	64-121 (3)
50/40		12 / 1	64-122 (0)
50/50		12 / 1	64-123 (7)
75/50		10 / 1	64-125 (1)
75/75		12 / 1	64-126 (8)
110/50		8 / 1	64-127 (5)
110/75		10 / 1	64-128 (2)
110/110		7 / 1	64-129 (9)

**HT branch pipe 67°**

with slip-on sleeve, seal installed  
Material: PP

<i>DN</i>			
32/32		20 / 1	64-130 (5)
40/40		12 / 1	64-131 (2)
50/40		12 / 1	64-132 (9)
50/50		10 / 1	64-133 (6)
75/50		10 / 1	64-135 (0)
75/75		12 / 1	64-136 (7)
110/50		8 / 1	64-137 (4)
110/75		10 / 1	64-138 (1)
110/110		8 / 1	64-139 (8)

**HT branch pipe 87°**

with slip-on sleeve, seal installed  
Material: PP

<i>DN</i>			
32/32		20 / 1	64-140 (4)
40/40		12 / 1	64-141 (1)

further sizes on next page

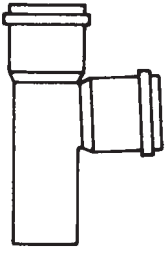
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

HT PROGRAM

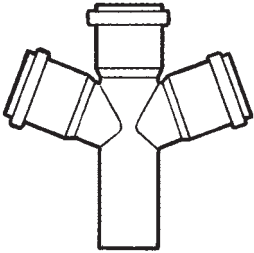
### HT branch pipe 87°



with slip-on sleeve, seal installed  
Material: PP

DN	VPE / VE	order no.	(check no.)
50/40	12 / 1	64-142	(8)
50/50	12 / 1	64-143	(5)
75/50	10 / 1	64-145	(9)
75/75	12 / 1	64-146	(6)
110/50	8 / 1	64-147	(3)
110/75	10 / 1	64-148	(0)
110/110	8 / 1	64-149	(7)

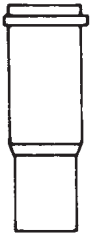
### HT double branch pipe 67°



with slip-on sleeve, seal installed  
Material: PP

DN	VPE / VE	order no.	(check no.)
110/110/110	5 / 1	64-165	(7)

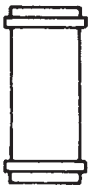
### HT long sleeve



Material: PP

DN	VPE / VE	order no.	(check no.)
40	12 / 1	64-171	(8)
50	14 / 1	64-172	(5)
75	10 / 1	64-173	(2)
110	6 / 1	64-174	(9)

### HT slip-on sleeve



Material: PP

DN	VPE / VE	order no.	(check no.)
32	20 / 1	64-180	(0)
40	20 / 1	64-181	(7)
50	20 / 1	64-182	(4)
75	12 / 1	64-183	(1)
110	12 / 1	64-184	(8)

### HT cleaning pipe



with slip-on sleeve, seal installed  
Material: PP

DN	VPE / VE	order no.	(check no.)
50	10 / 1	64-201	(2)
75	10 / 1	64-202	(9)
110	7 / 1	64-203	(6)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### HT sleeve plug



Material: PP

DN	M	VPE / VE	order (check no.)
32		20 / 1	64-210 (4)
40		20 / 1	64-211 (1)
50		20 / 1	64-212 (8)
75		20 / 1	64-213 (5)
110		14 / 1	64-214 (2)

### HT transition pipe



Material: PP

DN	M	VPE / VE	order (check no.)
40/32		20 / 1	64-220 (3)
50/40		20 / 1	64-221 (0)
75/50		12 / 1	64-223 (4)
110/50		14 / 1	64-224 (1)
110/75		12 / 1	64-225 (8)

### HT transition piece to cast iron pipe



Material: PP

DN	M	VPE / VE	order (check no.)
50		10 / 1	64-231 (9)
75		10 / 1	64-232 (6)
110		9 / 1	64-233 (3)

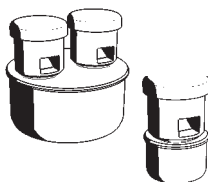
### Double seal



Material: rubber

DN	M	VPE / VE	order (check no.)
50		10 / 1	64-241 (8)
75		10 / 1	64-242 (5)
110		10 / 1	64-243 (2)

### HT pipe ventilator



Material: PP

DN	M	VPE / VE	order (check no.)
110		1 / 1	64-274 (6)
50		1 / 1	64-275 (3)

### HT drain trap elbow 90°



without rubber seal

Material: PP

DN	M	VPE / VE	order (check no.)
40/30		16 / 1	64-281 (4)
40/40		20 / 1	64-282 (1)
50/40		20 / 1	64-283 (8)
50/50		16 / 1	64-284 (5)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

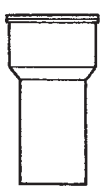
HT PROGRAM

### HT rubber collar



DN	M	VPE / VE	order no.	(check no.)
40/30 A		10 / 1	64-381	(1)
40/30 B		10 / 1	64-384	(2)
40/40 C		10 / 1	64-385	(9)
50/30 D		10 / 1	64-386	(6)
50/40 E		10 / 1	64-387	(3)
50/50 F		10 / 1	64-388	(0)

### HT connection piece to metal pipe



without rubber seal  
Material: PP

DN	M	VPE / VE	order no.	(check no.)
40/40		20 / 1	64-371	(2)
50/40		20 / 1	64-372	(9)
50/50		20 / 1	64-373	(6)

### Seal ring



Material: rubber

DN	M	VPE / VE	order no.	(check no.)
32		20 / 1	64-300	(2)
40		20 / 1	64-301	(9)
50		20 / 1	64-302	(6)
75		20 / 1	64-303	(3)
110		15 / 1	64-304	(0)

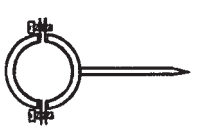
### HT clamp with blow pin



Material: galvanized

DN	M	VPE / VE	order no.	(check no.)
32		25 / 1	64-310	(1)
40		25 / 1	64-311	(8)
50		30 / 1	64-312	(5)
75		15 / 1	64-313	(2)
110		15 / 1	64-314	(9)

### HT clamp with sound insulation insert and blow pin



Material: galvanized steel / rubber

DN	M	VPE / VE	order no.	(check no.)
40		25 / 1	64-321	(7)
50		15 / 1	64-322	(4)
75		10 / 1	64-323	(1)
110		10 / 1	64-324	(8)

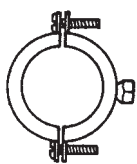
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification





color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

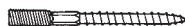
### HT clamp with sound insulation insert and nut



Material: galvanized steel / rubber

DN			
40		25 / 1	64-326 (2)
50		25 / 1	64-327 (9)
75		10 / 1	64-328 (6)
110		10 / 1	64-329 (3)

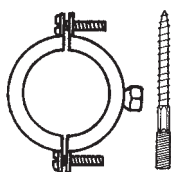
### Hanger bolt, for clamp with sound insulation insert and nut



Material: steel

size			
M 8 x 80		25 / 2	64-408 (5)
M 8 x 140		25 / 2	64-409 (2)
M 10 x 80		25 / 2	64-410 (8)
M 10 x 140		25 / 2	64-411 (5)

### HT clamp with sound insulation insert and nut + hanger bolt



Material: steel

DN			
40		25 / 1	64-526 (6)
50		15 / 1	64-527 (3)
75		10 / 1	64-528 (0)
110		10 / 1	64-529 (7)

### Rubber nipple with bead



DN			
40 x 1 1/4"		15 / 1	64-389 (7)
50 x 1 1/4"		10 / 1	64-390 (3)
50 x 1 1/2"		15 / 1	64-391 (0)

### Lubricant

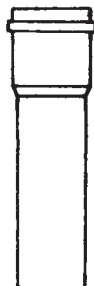


content			
150 g		10 / 1	64-331 (6)
250 g		10 / 1	64-332 (3)

### KG pipe

with slip-on sleeve, seal installed, up to a max. of 60°C

Material: PVC



DN	length mm		
110	500	6 / 1	66-001 (6)
125	500	4 / 1	66-002 (3)
160	500	2 / 1	66-003 (0)
110	1000	4 / 1	66-005 (4)
125	1000	4 / 1	66-006 (1)
160	1000	4 / 1	66-007 (8)
110	2000	4 / 1	66-009 (2)
125	2000	4 / 1	66-010 (8)
160	2000	4 / 1	66-011 (5)
110	5000	4 / 1	66-017 (7)
125	5000	4 / 1	66-018 (4)
160	5000	4 / 1	66-019 (1)

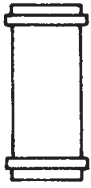
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EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

KG PROGRAM

### KG slip-on sleeve



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-021 (4)
125		5 / 1	66-022 (1)
160		5 / 1	66-023 (8)

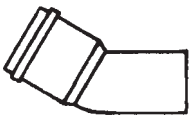
### KG elbow 15°



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-025 (2)
125		5 / 1	66-026 (9)
160		5 / 1	66-027 (6)

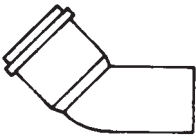
### KG elbow 30°



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-029 (0)
125		5 / 1	66-030 (6)
160		5 / 1	66-031 (3)

### KG elbow 45°



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-033 (7)
125		5 / 1	66-034 (4)
160		5 / 1	66-035 (1)

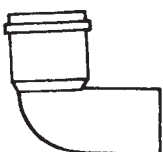
### KG elbow 67.5°



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-037 (5)
125		5 / 1	66-038 (2)
160		5 / 1	66-039 (9)

### KG elbow 87.5°



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		5 / 1	66-041 (2)
125		5 / 1	66-042 (9)
160		5 / 1	66-043 (6)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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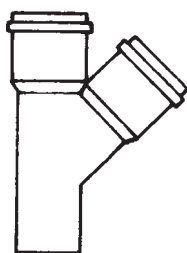




color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### KG single branch 45°

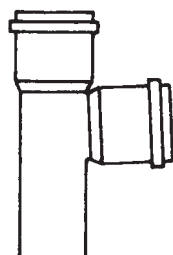
with slip-on sleeve, seal installed  
Material: PVC



DN		
110/110	8 / 1	66-049 (8)
125/110	5 / 1	66-050 (4)
125/125	5 / 1	66-051 (1)
160/110	2 / 1	66-052 (8)
160/125	3 / 1	66-053 (5)
160/160	2 / 1	66-054 (2)

### KG single branch 87.5°

with slip-on sleeve, seal installed  
Material: PVC



DN		
110/110	8 / 1	66-059 (7)
125/110	7 / 1	66-060 (3)
125/125	4 / 1	66-061 (0)
160/110	3 / 1	66-062 (7)
160/125	3 / 1	66-063 (4)
160/160	3 / 1	66-064 (1)

### KG transition pipe

with slip-on sleeve, seal installed  
Material: PVC



DN		
110/125	5 / 1	66-069 (6)
110/160	5 / 1	66-070 (2)
125/160	5 / 1	66-071 (9)

### KG cleaning pipe

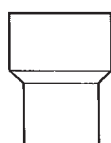
with slip-on sleeve, seal installed  
Material: PVC



DN		
110	4 / 1	66-073 (3)
125	2 / 1	66-074 (0)
160	2 / 1	66-075 (7)

### KG connection piece to pointed end of cast iron pipe

with slip-on sleeve  
Material: PVC



DN		
110	4 / 1	66-077 (1)
125	4 / 1	66-078 (8)
160	2 / 1	66-079 (5)

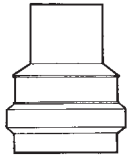
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

KG PROGRAM

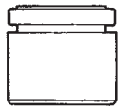
### KG connection piece to pointed end of stoneware



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		4 / 1	66-085 (6)
125		4 / 1	66-086 (3)
160		4 / 1	66-087 (0)

### KG connection sleeve to stoneware sleeve



with slip-on sleeve, seal installed  
Material: PVC

DN			
110		4 / 1	66-081 (8)
125		3 / 1	66-082 (5)
160		2 / 1	66-083 (2)

### KG end cap



Material: PVC

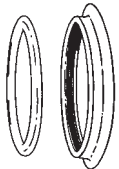
DN			
110		20 / 1	66-045 (0)
125		10 / 1	66-046 (7)
160		8 / 1	66-047 (4)

### Spare rubber ring



DN			
110		15 / 1	66-089 (4)
125		15 / 1	66-090 (0)
160		15 / 1	66-091 (7)

### KG double seal



DN			
110		5 / 1	66-093 (1)
125		5 / 1	66-094 (8)
160		5 / 1	66-095 (5)

### Spare rubber ring



DN			
110		10 / 1	66-099 (3)
125		6 / 1	66-100 (6)
160		8 / 1	66-101 (3)

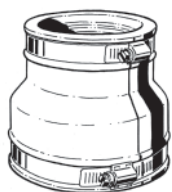
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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### MULTIFLEX transition

Material: vulcanized rubber

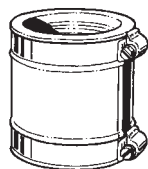


<i>for outer pipe dimension</i>		
from 24-32 to 32-40	10 / 1	69-001 (3)
from 24-32 to 42-50	10 / 1	69-004 (4)
from 32-40 to 42-50	10 / 1	69-007 (5)
from 42-50 to 53-63	8 / 1	69-010 (5)
from 42-50 to 75-89	6 / 1	69-013 (6)
from 42-50 to 100-115	6 / 1	69-016 (7)
from 75-89 to 100-115	4 / 1	69-019 (8)
from 100-115 to 110-125	4 / 1	69-031 (0)
from 100-115 to 121-136	3 / 1	69-034 (1)
from 110-125 to 144-160	3 / 1	69-040 (2)

MULTIFLEX PROGRAM

### MULTIFLEX connector

Material: vulcanized rubber



<i>for outer pipe dimension</i>		
24-32	10 / 1	69-050 (1)
32-40	10 / 1	69-053 (2)
42-50	10 / 1	69-056 (3)
55-65	8 / 1	69-059 (4)
75-89	4 / 1	69-062 (4)
105-120	4 / 1	69-065 (5)

### MULTIFLEX clamp

Material: stainless steel



<i>for outer pipe dimension</i>		
24-32	1 / 1	69-250 (5)
32-40	1 / 1	69-252 (9)
42-50	1 / 1	69-254 (3)
53-63	1 / 1	69-256 (7)
100-115	1 / 1	69-262 (8)
110-125	1 / 1	69-264 (2)
121-136	1 / 1	69-266 (6)
144-160	1 / 1	69-268 (0)

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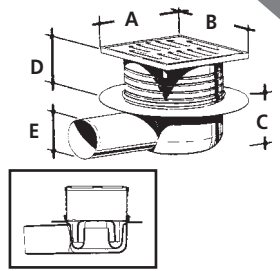


color	size in mm					M	VPE / VE	order no.	(check no.)
	A	B	C	D	E	l/s			

DRAINS

### Balcony and terrace drain, with lateral drain

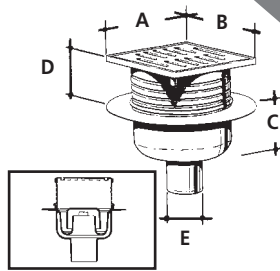
with stainless steel grate, lockable anti-smell seal and adjustable top element.  
Material: ABS, cold-resistant and hot-water resistant



						approx.			
gray	100	100	52	50	DN 50	0.8	1 / 1	61-001	(1)
gray	100	100	78	50	DN 70	1.0	1 / 1	61-002	(8)

### Balcony and terrace drain, with vertical drain

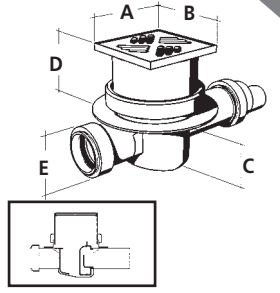
with stainless steel grate, lockable anti-smell seal and adjustable top element  
Material: ABS, cold-resistant and hot-water resistant



						approx.			
gray	100	100	50	50	DN 50	0.8	1 / 1	61-005	(9)
gray	100	100	50	50	DN 70	1.0	1 / 1	61-006	(6)

### Bathroom drain, with lateral supply/drain

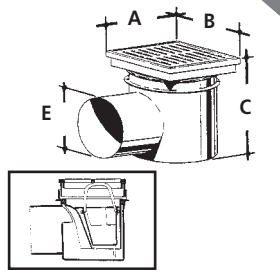
with stainless steel grate, anti-smell seal, supply DN 40 with cap, outlet DN 50/40, rotating and adjustable top element  
Material: plastic, cold-resistant and hot-water resistant



						approx.			
gray	100	100	105	50	DN 40	0.8	1 / 1	61-105	(6)

### House and yard gully, with lateral drain

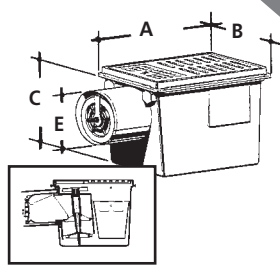
with rotating plastic grate PVC, anti-smell seal and sludge bucket  
Material: polypropylene



						approx.			
gray	150	150	180		DN 100	1.6	1 / 1	61-220	(6)
gray	150	150	180		DN 70	1.4	1 / 1	61-221	(3)

### Basement drain with return water double seal, with lateral drain

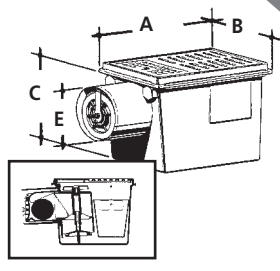
Shut-off valve, return water flap; with plastic grate, anti-smell seal, sludge bucket and cleaning opening, optional supply nozzles for further connections DN 50 / DN 70  
Material: hard PVC, cold-resistant and hot-water resistant, lye- and acid-proof



						approx.			
gray	254	184	210		DN 100	2.1	1 / 1	61-311	(1)

### Basement drain with return water triple seal, with lateral drain

Shut-off valve, return water flap and spherical closure; with plastic grate, anti-smell seal, sludge bucket and cleaning opening, optional supply nozzles for further connections DN 50 / DN 70  
Material: hard PVC, cold-resistant and hot-water resistant, lye- and acid-proof

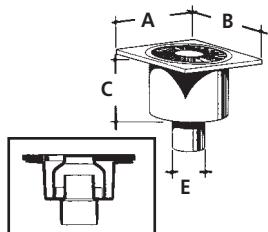


						approx.			
gray	254	184	210		DN 100	1.9	1 / 1	61-316	(6)

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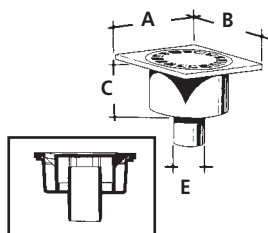


color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

**Bathroom drain, with vertical drain**


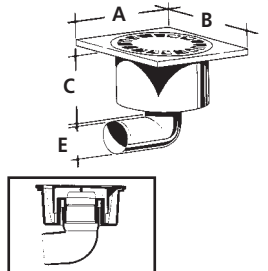
with plastic grate, anti-smell seal  
 surface finish: chrome-plated  
 Material: ABS, cold-resistant and hot-water resistant

					approx.			
	100	100	54	DN 50	0.8	1 / 1	62-095 (9)	
	150	150	54	DN 50	0.8	1 / 1	62-101 (7)	

**House and yard gully, fit for traffic, with vertical drain**


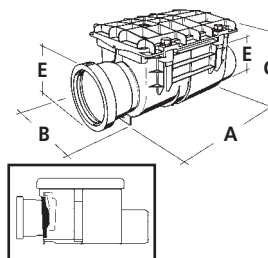
with plastic grate, with triple support, anti-smell seal  
 Material: hard PVC, cold-resistant and hot-water resistant, lye- and acid-proof

					approx.			
gray	100	100	54	DN 50	0.8	1 / 1	62-195 (6)	
gray	150	150	50	DN 50	0.8	1 / 1	62-200 (7)	
gray	200	200	74	DN 70	1.8	1 / 1	62-201 (4)	
gray	200	200	74	DN 100	2.0	1 / 1	62-202 (1)	
gray	250	250	74	DN 100	2.2	1 / 1	62-212 (0)	

**House and yard gully, fit for traffic, with lateral drain**


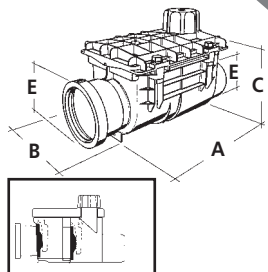
with plastic grate, with triple support, anti-smell seal  
 Material: Hart-PVC, lye- and acid-proof

					approx.			
gray	200	200	100	DN 70	1.8	1 / 1	62-220 (5)	
gray	200	200	100	DN 100	2.0	1 / 1	62-221 (2)	

**STAUFIX with single return-water seal**


not suitable for faeces

					approx.			
orange	280	200	225	DN 100	3.3	1 / 1	61-701 (0)	
orange	280	200	225	DN 125	5.5	1 / 1	61-702 (7)	
orange	280	250	260	DN 150	9.8	1 / 1	61-703 (4)	

**STAUFIX with double return-water seal**


not suitable for faeces

					approx.			
orange	280	200	225	DN 100	3.3	1 / 1	61-611 (2)	
orange	280	200	225	DN 125	5.5	1 / 1	61-612 (9)	
orange	280	250	260	DN 150	9.8	1 / 1	61-613 (6)	

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color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Stainless steel grate

for drains 61-001, 61-002, 61-005, 61-006  
Material: stainless steel V2A



gray		1 / 1	61-226 (8)
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### Top element with frame

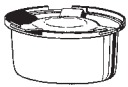
for drains 61-001, 61-002, 61-005, 61-006  
Material: ABS



gray		1 / 1	61-191 (9)
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### Anti-smell seal

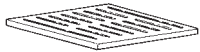
for drains 61-001, 61-002, 61-005, 61-006  
Material: ABS



gray		1 / 1	61-501 (6)
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### plastic grate

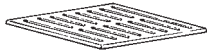
for drains 61-220. 61-221  
Material: hard PVC



gray		1 / 1	61-405 (7)
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### Stainless steel grate

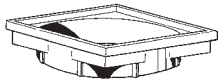
for drains 61-220. 61-221  
Material: stainless steel V2A



gray		1 / 1	61-227 (5)
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### Frame for grates

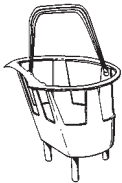
for drains 61-220. 61-221  
Material: PP



gray		1 / 1	61-401 (9)
------	--	-------	------------

### Sludge bucket

for drains 61-220. 61-221  
Material: PP



gray		1 / 1	61-402 (6)
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### Anti-smell seal

with O-ring, for drains 61-220. 61-221  
Material: PP



gray		1 / 1	61-403 (3)
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EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					M l/s	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

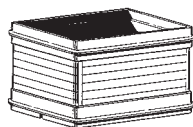
### Top element



for drains 61-220, 61-221; for height adjustment from 20 to 100 mm  
Material: PP

gray			1 / 1	61-225 (1)
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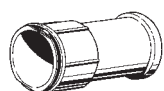
### Top element



for drains 61-311, 61-316; for height adjustment from 65 to 150 mm  
Material: hard PVC

gray			1 / 1	61-320 (3)
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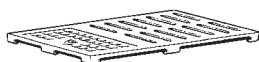
### Supply nozzle for basement drains



for drains 61-311, 61-316

gray		DN 50	1 / 1	61-951 (9)
gray		DN 70	1 / 1	61-952 (6)

### plastic grate



for drains 61-311, 61-316  
Material: hard PVC

gray			1 / 1	61-525 (2)
------	--	--	-------	------------

### Return water flap



for drains 61-311, 61-316  
Material: PA6 -30% GF

gray		DN 100	1 / 1	61-511 (5)
------	--	--------	-------	------------

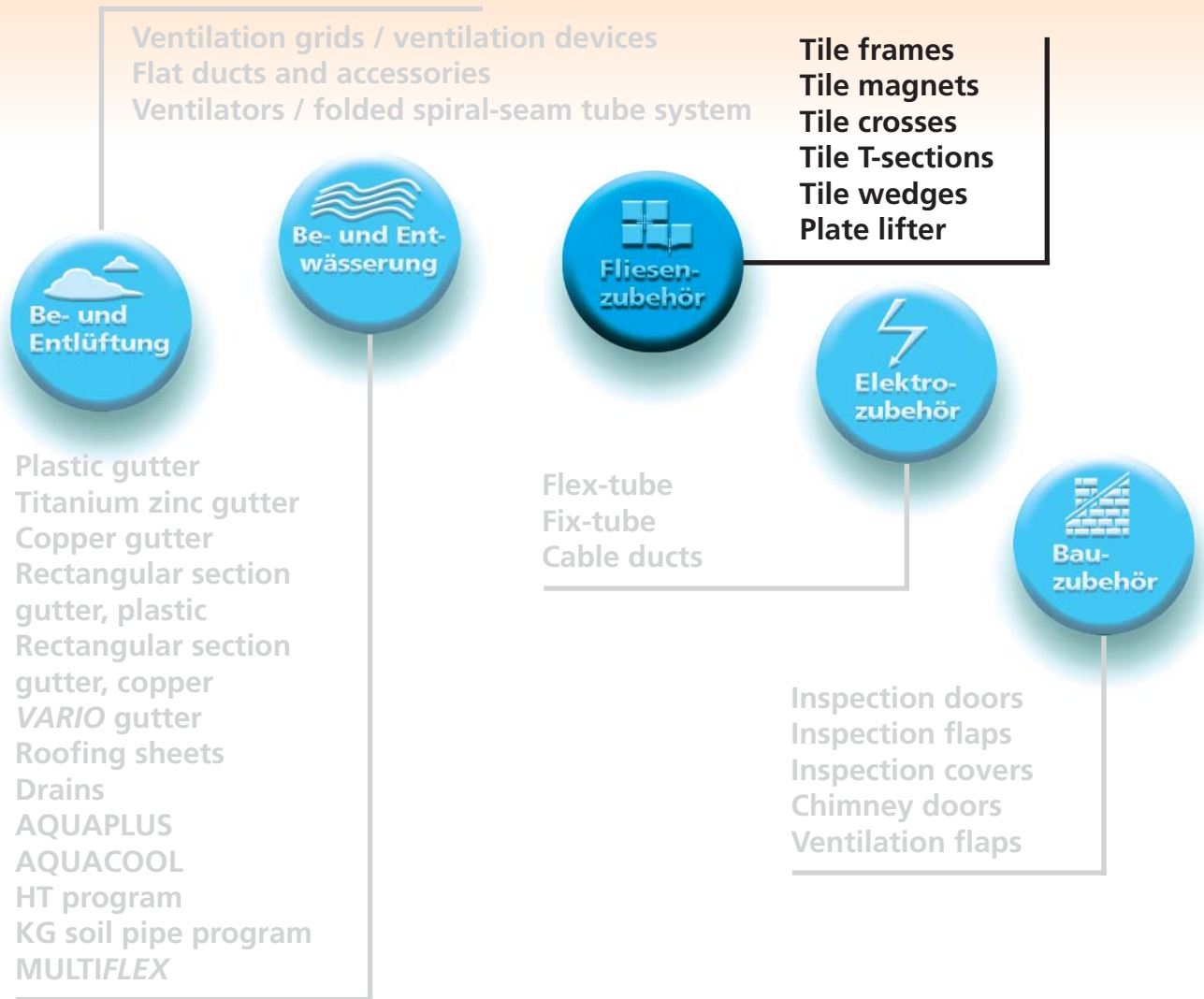
### Upgrade from double to triple closure



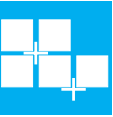
for drain 61-311  
spherical case of PC/Makrolon, with steel weight

		DN 100	1 / 1	61-515 (3)
--	--	--------	-------	------------





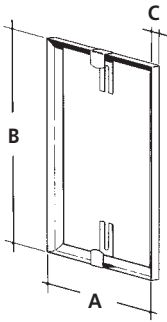




color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Tile frame, stainless steel V2A

Material: stainless steel angle section 8 mm

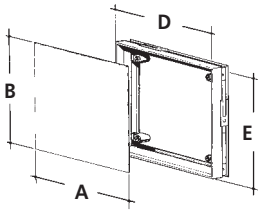


size of tile		no. of tiles	frame size		VPE / VE	order no.	(check no.)
A	B		C	D			
150	150	8	209	206	10 / 1	51-379	(4)
150	200	8	156	156	10 / 1	51-361	(9)
150	300	8	156	309	10 / 1	51-380	(0)
200	200	8	309	309	10 / 1	51-388	(6)
200	250	8	156	206	10 / 1	51-359	(6)
200	300	8	309	409	10 / 1	51-389	(3)
300	300	8	306	156	10 / 1	51-381	(7)

### plastic tile frame with magnets

base plate made of hot-dip galvanized steel sheet, adjustable height of magnets, stable plastic frame also serves as joint.

Material: white plastic frame

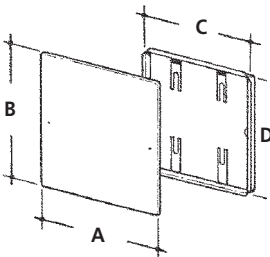


size of tile		no. of tiles	frame size		VPE / VE	order no.	(check no.)
A	B		C	D			
100	200	2	209	206	5 / 1	52-427	(1)
150	150	1	156	156	5 / 1	52-434	(9)
150	150	2	156	309	5 / 1	52-422	(6)
150	150	4	309	309	5 / 1	52-423	(3)
150	200	1	156	206	5 / 1	52-436	(3)
150	200	2	309	206	5 / 1	52-437	(0)
150	200	4	309	409	5 / 1	52-438	(7)
150	300	1	306	156	5 / 1	52-431	(8)
150	300	2	306	309	5 / 1	52-432	(5)
200	200	1	206	206	5 / 1	52-435	(6)
200	200	2	206	409	5 / 1	52-429	(5)
200	200	4	409	409	5 / 1	52-430	(1)
200	250	1	206	256	5 / 1	52-442	(4)
200	250	2	409	256	5 / 1	52-443	(1)
200	300	1	206	306	5 / 1	52-439	(4)
200	300	2	409	306	5 / 1	52-441	(7)
250	250	1	256	256	5 / 1	52-440	(0)
250	330	1	256	336	5 / 1	52-445	(5)

### Stainless cover frame

with frame and screws

Material: V2A

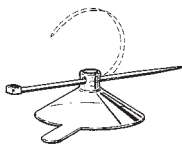


size of tile		no. of tiles	frame size		VPE / VE	order no.	(check no.)
A	B		C	D			
170	170	150	150		1 / 1	51-405	(0)
220	220	200	200		1 / 1	51-410	(4)
270	270	250	250		1 / 1	51-415	(9)
320	320	300	300		1 / 1	51-420	(3)

### Suction bracket

for opening tile frames, etc.

Material: plastic



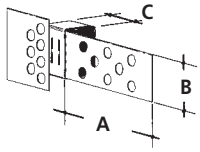
size of tile		no. of tiles	frame size		VPE / VE	order no.	(check no.)
A	B		C	D			
					1 / 1	52-400	(4)

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color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no.	no.)

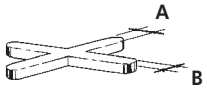
### Tile magnets



content of bag: 4 tile magnets, 4 counter-plates  
Material: counter-plates made of hot-dip galv. steel sheet

				content of bag	bag		
	49	34	14	4	20 / 1	54-020	(2)

### Tile crosses

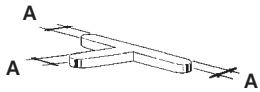


Material: plastic

				content of bag	bag		
white	2,0	2,5		250	20 / 1	54-110	(0)
white	2,5	2,5		250	20 / 1	54-111	(7)
white	3,0	2,5		250	20 / 1	54-112	(4)
white	4,0	3,0		250	20 / 1	54-109	(4)
white	5,0	3,0		250	10 / 1	54-113	(1)
white	8,0	4,5		200	5 / 1	54-114	(8)

### Tile T-sections

Material: plastic



				content of bag	bag		
white	4,0			250	10 / 1	54-103	(2)
white	5,0			250	10 / 1	54-101	(8)
white	8,0			200	5 / 1	54-102	(5)

### Tile wedges

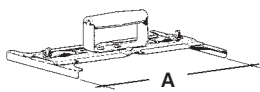
Material: plastic



				content of bag	bag		
red				250	5 / 1	54-115	(5)
red				500	5 / 1	54-116	(2)

### Plate lifter

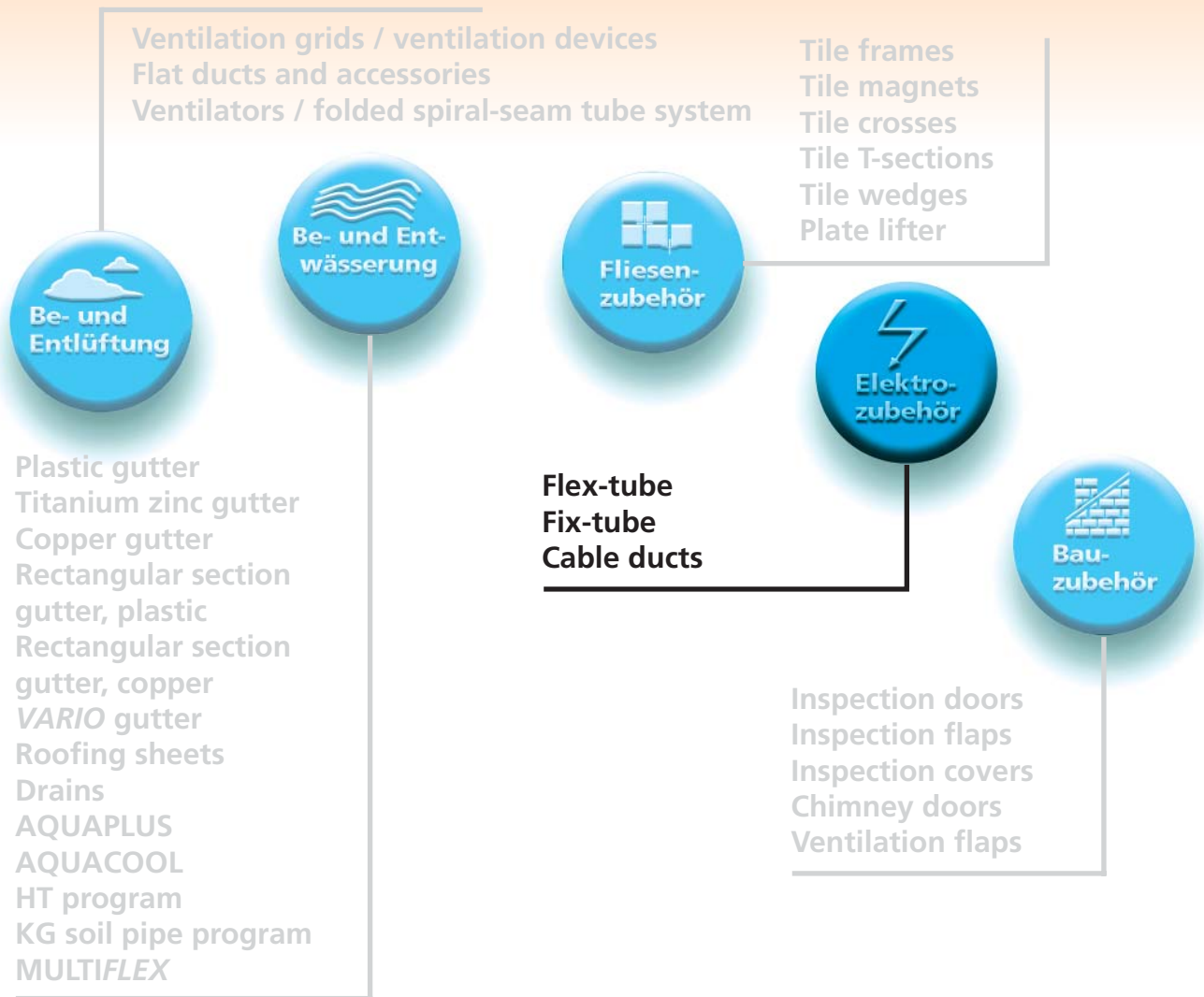
adjustable from 300 to 500mm  
Material: hot-dip galvanized steel sheet with plastic handle



	Min.	Max.					
	300	500			1 / 1	36-510	(2)

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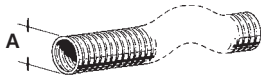




color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Flex-tube

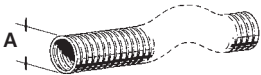
flexible plastic tube for cable installation  
Material: hard PVC



		length of reel		
	16.0	10 m	1 / 1	40-003 (2)
	16.0	25 m	1 / 1	40-004 (9)
	20.0	10 m	1 / 1	40-005 (6)
	20.0	25 m	1 / 1	40-006 (5)
	25.0	10 m	1 / 1	40-007 (0)
	25.0	25 m	1 / 1	40-008 (7)

### Flex. armored conduit, concrete-proof

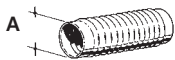
flexible plastic tube for cable installation  
Material: hard PVC



		Length of reel		
	16.0	25 m	1 / 1	40-010 (0)
	20.0	25 m	1 / 1	40-012 (4)
	25.0	25 m	1 / 1	40-014 (8)

### Flex. sleeve

pull-resistant special sleeve for all Flex-Tubes (standard and armored)  
Material: HDPE



		content of bag	bag	
white	16,0	6	10 / 1	40-031 (5)
white	20,0	6	10 / 1	40-032 (2)
white	25,0	6	10 / 1	40-033 (9)

### Flex-tube

flexible plastic tube for cable installation, smooth  
Material: polyethylene



		Length of reel		
orange	16,0	25 m	1 / 1	40-026 (1)
orange	16,0	50 m	1 / 1	40-027 (8)

### Fix-tube

rigid plastic tube for cable installation, for light mechanical stress, with sleeve  
Material: hard PVC



		length of tube		
gray	16,0	2 m	30 / 1	40-102 (2)
gray	20,0	2 m	30 / 1	40-103 (9)
gray	25,0	2 m	30 / 1	40-104 (6)

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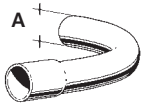


color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

FIX-TUBE

### Fix-elbow

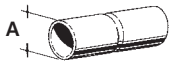
can be used with all Fix-Tubes  
Material: hard PVC



color	size in mm	content of bag	bag	order no.	(check no.)
gray	16,0	2	10 / 1	40-112	(1)
gray	20,0	2	10 / 1	40-113	(8)
gray	25,0	2	10 / 1	40-114	(5)

### Fix-sleeve

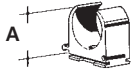
can be used with all Fix-Tubes  
Material: hard PVC



color	size in mm	content of bag	bag	order no.	(check no.)
gray	16,0	6	10 / 1	40-122	(0)
gray	20,0	6	10 / 1	40-123	(7)
gray	25,0	6	10 / 1	40-124	(4)

### Fix-clamp

can be used with all Fix- and Flex-Tubes  
Material: hard PVC



color	size in mm	content of bag	bag	order no.	(check no.)
gray	16,0	6	10 / 1	40-132	(9)
gray	20,0	6	10 / 1	40-133	(6)
gray	25,0	6	5 / 1	40-139	(8)
gray	16,0	30	5 / 1	40-136	(7)
gray	20,0	30	5 / 1	40-137	(4)
gray	25,0	30	5 / 1	40-138	(1)

### Armored Fix-conduit

rigid plastic tube for cable installation, for medium mechanical stress, with sleeve  
Material: hard PVC



color	size in mm	length of tube	bag	order no.	(check no.)
gray	16,0	2 m	30 / 1	40-107	(7)
gray	20,0	2 m	30 / 1	40-108	(4)
gray	25,0	2 m	30 / 1	40-109	(1)

### Cable pull-in tape

with metal eye and round head  
Material: nylon Ø 3 mm



length	bag	order no.	(check no.)
10 m	1 / 1	40-040	(7)

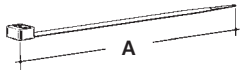
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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Cable ties

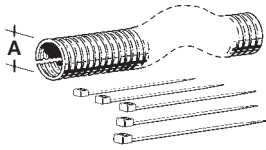
Material: plastic



		content of bag	bag	
	102	40	10 / 1	40-200 (5)
	150	30	10 / 1	40-210 (4)
	204	20	10 / 1	40-220 (3)
	290	20	10 / 1	40-230 (2)
	430	20	10 / 1	40-240 (1)

### Cable collector

incl. 5 cable ties  
Material: plastic



	length		
black	approx. 25 2500		1 / 1 40-293 (7)

### Miniature cable duct, self-adhesive, with folding lid

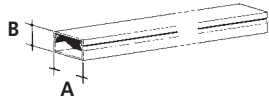
Material: hard PVC



			length of duct	
white	10	10	2 m	30 / 1 40-302 (6)
white	12	7	2 m	30 / 1 40-303 (3)
white	15	10	2 m	30 / 1 40-304 (0)
white	15	15	2 m	30 / 1 40-300 (2)

### Cable duct

Electric installation duct with lid, as from type 40 x 40 mm, with fixing clamps  
Material: hard PVC



			length of duct	
white	20	10	2 m	25 / 1 40-310 (1)
white	15	15	2 m	25 / 1 40-312 (5)
white	30	15	2 m	25 / 1 40-314 (9)
white	20	20	2 m	25 / 1 40-306 (4)
white	30	30	2 m	12 / 1 40-308 (8)
white	40	40	2 m	12 / 1 40-316 (3)
white	60	40	2 m	9 / 1 40-318 (7)
white	90	40	2 m	6 / 1 40-320 (0)
white	110	60	2 m	4 / 1 40-324 (8)
brown	20	10	2 m	25 / 1 40-311 (8)
brown	15	15	2 m	25 / 1 40-313 (2)
brown	30	15	2 m	25 / 1 40-315 (6)
gray	20	10	2 m	25 / 1 40-330 (9)
gray	15	15	2 m	25 / 1 40-331 (6)
gray	30	15	2 m	25 / 1 40-332 (3)
gray	30	30	2 m	12 / 1 40-338 (5)
gray	40	40	2 m	12 / 1 40-333 (0)
gray	60	40	2 m	9 / 1 40-334 (7)
gray	20	20	2 m	25 / 1 40-336 (1)

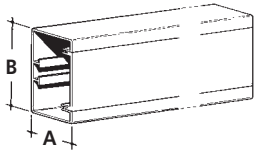
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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no.	(check no.)
	A	B	C	D	E				

### Sill-type trunking

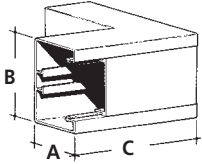
Material: hard PVC



white	65	130				length 2 m	1 / 1	40-328 (6)
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### Outside corner

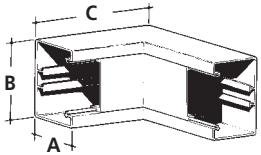
for sill-type trunking  
Material: PVC



white	65	130	215				1 / 1	40-345 (3)
-------	----	-----	-----	--	--	--	-------	------------

### Inside corner

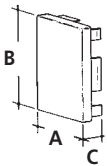
for sill-type trunking  
Material: PVC



white	65	130	215				1 / 1	40-346 (0)
-------	----	-----	-----	--	--	--	-------	------------

### End piece right/left

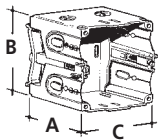
for sill-type trunking  
Material: PVC



white	65	130	23				2 / 1	40-347 (7)
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### Flush-type box, single

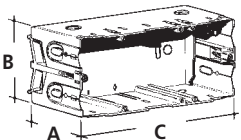
for sill-type trunking  
Material: hard PVC



white	54	70	71				1 / 1	40-350 (7)
-------	----	----	----	--	--	--	-------	------------

### Flush-type box, double

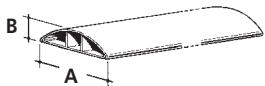
for sill-type trunking  
Material: hard PVC



white	54	70	142				1 / 1	40-352 (1)
-------	----	----	-----	--	--	--	-------	------------

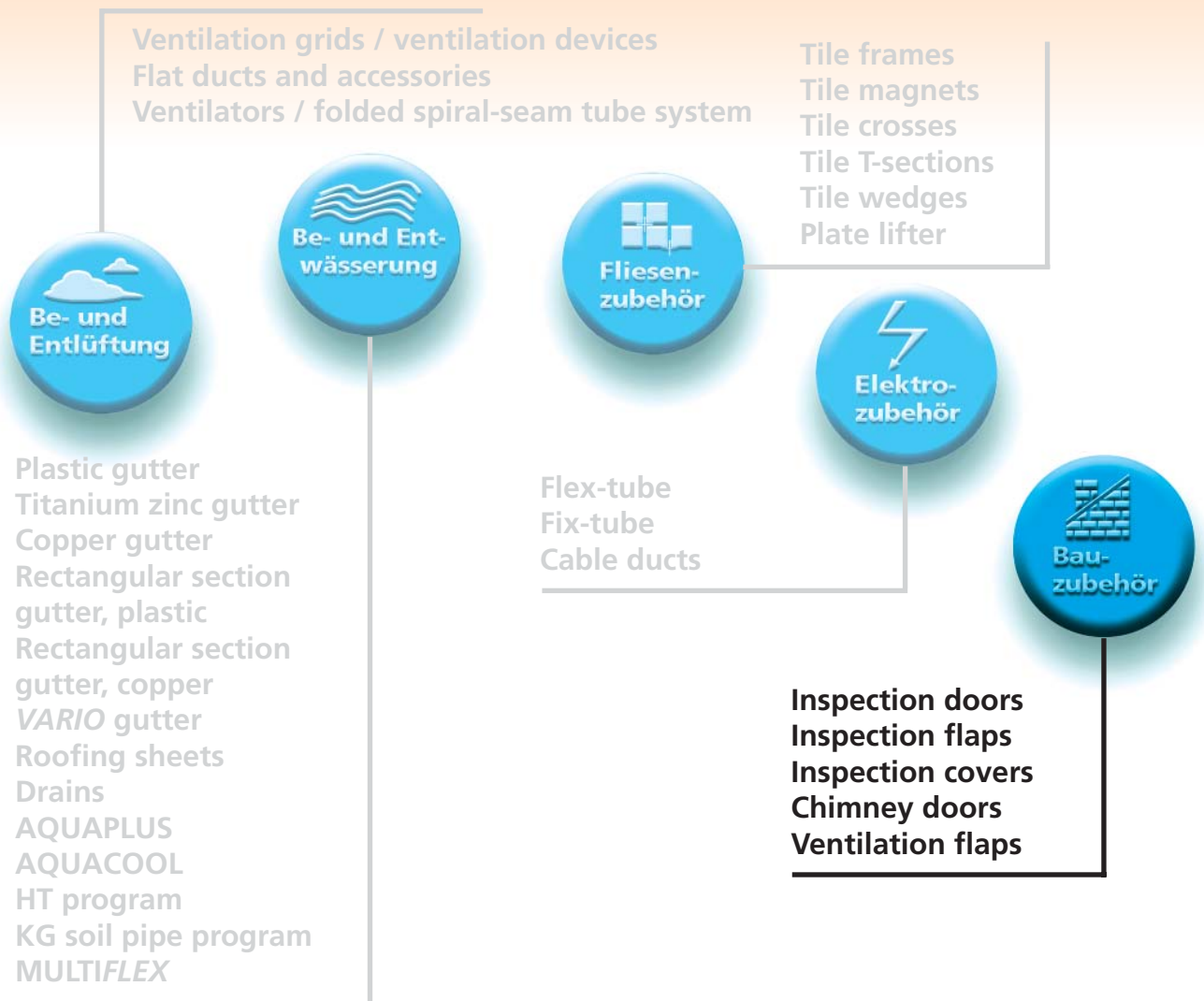
### Floor duct, half-round

Material: PVC



brown	75	18				length of duct 2 m	6 / 1	40-341 (5)
gray	75	18				2 m	6 / 1	40-342 (2)

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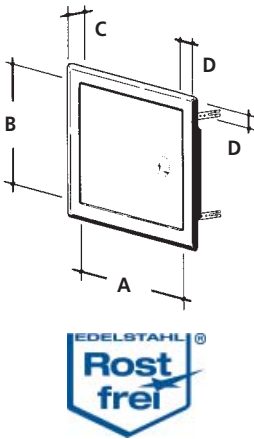






color	size in mm				F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D				

### Inspection Door Softline Stainless Steel

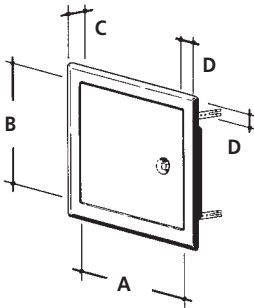


For wall and ceiling installation (not to be walked on), ceiling installation up to 400 x 400 mm, door with cylinder lock, door leaf can be unhinged, can be installed on left and right side, safe fit by wall anchor. Material: Stainless steel.

The frame size is 10 mm smaller than the rated size.

Rated size					
150	150	27	20	1 / 1	22-721 (9)
150	200	27	20	1 / 1	22-720 (2)
200	200	27	20	1 / 1	22-722 (6)
200	250	27	20	1 / 1	22-723 (3)
200	300	27	20	1 / 1	22-724 (0)
250	250	27	20	1 / 1	22-725 (7)
300	300	27	20	1 / 1	22-728 (8)

### Inspection door Softline

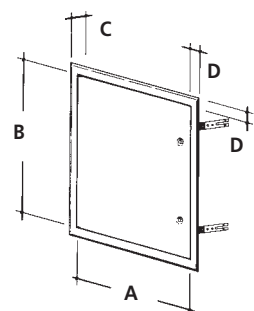


for wall and ceiling installation (not to be walked on), galvanized, ceiling installation up to 400 x 400 mm, door with counter-sunk square lock, door leaf can be unhinged, can be installed on left and right side, safe fit by wall anchor. Material: steel sheet, galvanized.

The frame size is 10 mm smaller than the nominal size, as from a height(B) of 650 mm, the inspection doors are provided with two locks, special designs (sizes; cylinder lock, reinforced design) available upon request, special designs up to 1200 x 1200 mm, size can be varied by 50 mm.

nominal size					
150	150	27	20	1 / 1	22-801 (8)
150	200	27	20	1 / 1	22-800 (1)
200	200	27	20	1 / 1	22-802 (5)
200	250	27	20	1 / 1	22-803 (2)
200	300	27	20	1 / 1	22-804 (9)
250	250	27	20	1 / 1	22-805 (6)
250	300	27	20	1 / 1	22-806 (3)
300	300	27	20	1 / 1	22-807 (0)
350	350	20	25	1 / 1	22-808 (7)
400	400	27	20	1 / 1	22-809 (4)
400	600	20	25	1 / 1	22-810 (0)
450	450	20	25	1 / 1	22-811 (7)
500	500	20	25	1 / 1	22-812 (4)
600	600	20	25	1 / 1	22-813 (1)
600	800	20	25	1 / 1	22-814 (8)
800	800	20	25	1 / 1	22-815 (5)
800	1000	20	25	1 / 1	22-816 (2)
1000	1000	20	25	1 / 1	22-817 (9)

### Inspection door Softline



galvanized, white paint coat, for wall and ceiling installation (not to be walked on), ceiling installation up to 400 x 400 mm, door with counter-sunk square lock, door leaf can be unhinged, can be installed on left and right side, safe fit by wall anchor.

Material: steel sheet, galvanized, with white paint coat.

The frame size is 10 mm smaller than the nominal size, as from a height(B) of 650 mm, the inspection doors are provided with two locks, special designs (sizes; cylinder lock, reinforced design) available upon request, special designs up to 1200 x 1200 mm, size can be varied by 50 mm.

	nominal size					
white	150	150	27	20	1 / 1	22-851 (3)
white	150	200	27	20	1 / 1	22-850 (6)

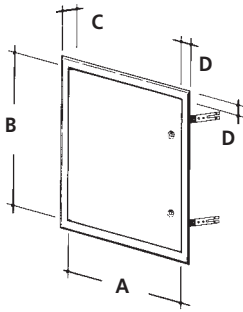
other sizes on next page

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

### Inspection door Softline



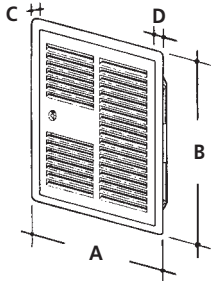
galvanized, white paint coat, for wall and ceiling installation (not to be walked on), ceiling installation up to 400 x 400 mm, door with counter-sunk square lock, door leaf can be unhinged, can be installed on left and right side, safe fit by wall anchor.

Material: steel sheet, galvanized, with white paint coat.

The frame size is 10 mm smaller than the nominal size, as from a height(B) of 650 mm, the inspection doors are provided with two locks, special designs (sizes; cylinder lock, reinforced design) available upon request, special designs up to 1200 x 1200 mm, size can be varied by 50 mm.

	nominal size						
white	200	200	27	20	1 / 1	22-852	(0)
white	200	250	27	20	1 / 1	22-853	(7)
white	200	300	27	20	1 / 1	22-854	(4)
white	200	400	20	25	1 / 1	22-869	(8)
white	250	250	27	20	1 / 1	22-855	(1)
white	250	300	27	20	1 / 1	22-856	(8)
white	300	300	20	25	1 / 1	22-857	(5)
white	300	400	20	25	1 / 1	22-868	(1)
white	300	500	20	25	1 / 1	22-870	(4)
white	300	600	20	25	1 / 1	22-871	(1)
white	350	350	20	25	1 / 1	22-858	(5)
white	400	400	27	20	1 / 1	22-859	(9)
white	400	500	20	25	1 / 1	22-872	(8)
white	400	600	20	25	1 / 1	22-860	(5)
white	450	450	20	25	1 / 1	22-861	(2)
white	500	500	20	25	1 / 1	22-862	(9)
white	600	600	20	25	1 / 1	22-863	(6)
white	600	800	20	25	1 / 1	22-864	(3)
white	800	800	20	25	1 / 1	22-865	(0)

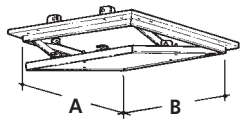
### Inspection door with ventilation lamellae



galvanized, white paint coat, for wall and ceiling installation (not to be walked on), door with counter-sunk square lock, door leaf can be unhinged, can be installed on left and right side, safe fit by wall anchor. Material: steel sheet, galvanized, with white paint coat.

	nominal size						
white	200	300	27	20	1 / 1	22-790	(5)
white	250	300	27	20	1 / 1	22-791	(2)

### Inspection flap AluLite



for wall and ceiling installation (not to be walked on), with hidden snap, gypsum plaster board GKBI 12.5 mm; 15 mm; 25 mm, flap lid can be unhinged, with assembly kit, suitable for moist rooms. Material: flap lid (with all-round seal) and frame of aluminium, anodizing quality.

12,5 mm GKBI insert

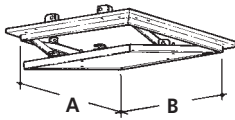
	nominal size		clear size				
	200	200	188	150	1 / 1	22-155	(2)
	200	300	188	250	1 / 1	22-156	(9)
	300	300	288	250	1 / 1	22-157	(6)
	300	400	288	350	1 / 1	22-158	(3)
	400	400	388	350	1 / 1	22-159	(0)
	400	600	388	550	1 / 1	22-160	(6)
	500	500	488	450	1 / 1	22-161	(3)
	600	600	588	550	1 / 1	22-162	(0)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

15.0 mm GKBI insert

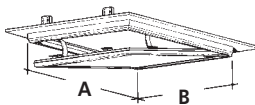


nominal size		clear size		F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
200	200	188	150				
300	300	288	250	1 / 1	22-147	(7)	
400	400	388	350	1 / 1	22-149	(1)	
500	500	488	450	1 / 1	22-151	(4)	
600	600	588	550	1 / 1	22-152	(1)	

2 x 12.5 mm GKBI insert

nominal size		clear size		F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
200	200	188	150				
200	300	188	250	1 / 1	22-166	(8)	
300	300	288	250	1 / 1	22-167	(5)	
300	400	288	350	1 / 1	22-168	(2)	
400	400	388	350	1 / 1	22-169	(9)	
400	600	388	550	1 / 1	22-170	(5)	
500	500	488	450	1 / 1	22-171	(2)	
600	600	588	550	1 / 1	22-172	(9)	

Inspection flap Alumatic



for wall and ceiling installation (not to be walked on), with hidden snap, and catch, special anti-twist frame made of sectional aluminium anodizing quality, gypsum plaster board installed, GKBI 12.5 mm; 15 mm; 25 mm, suitable for moist rooms, door leaf can be unhinged, with assembly kit.  
Material: frame made of sectional aluminium, door leaf of sectional aluminium with lip seal with gap-free GKBI. Special designs (sizes; cylinder lock) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side.

12.5 mm GKBI insert

nominal size		clear size		F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
200	200	188	150				
300	300	288	250	1 / 1	22-258	(0)	
300	600	288	550	1 / 1	22-260	(3)	
400	400	388	350	1 / 1	22-259	(7)	
400	600	388	550	1 / 1	22-263	(4)	
500	500	488	450	1 / 1	22-261	(0)	
600	600	588	550	1 / 1	22-262	(7)	
600	1000	588	950	1 / 1	22-265	(8)	
800	800	788	750	1 / 1	22-264	(1)	
1000	1000	988	950	1 / 1	22-266	(5)	

15.0 mm GKBI insert

nominal size		clear size		F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
300	300	288	250				
400	400	388	350	1 / 1	22-279	(5)	
500	500	488	450	1 / 1	22-281	(8)	
600	600	588	550	1 / 1	22-282	(5)	

2 x 12.5 mm GKBI insert

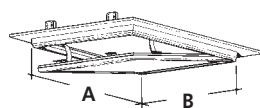
nominal size		clear size		F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
200	200	188	150				
300	300	288	250	1 / 1	22-268	(9)	
400	400	388	350	1 / 1	22-269	(6)	
500	500	488	450	1 / 1	22-271	(9)	
600	600	588	550	1 / 1	22-272	(6)	

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

### Inspection flap Alumatic air-tight and dust-tight



For wall and ceiling installation (not to be exposed to walking/traffic loads), tested according to EN 1026:2000-09 and EN 12207:1999-11, test result window category 4 (top category). Special anti-twist frame, integrated gypsum plaster board GKBI, appropriate for moist rooms.

Flap lid can be removed, with hidden snap, catch and assembly kit.

Material: Frame made of sectional aluminium\*, door leaf of sectional aluminium\*, with lip seal, with gap-free GKBI.

Special designs (sizes, depth) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = eloxal quality

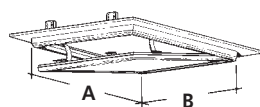
#### 12.5 mm GKBI insert

Rated size		Clear size			
200	200	150	190		
300	300	250	290	1 / 1	22-958 (9)
400	400	350	390	1 / 1	22-959 (6)
500	500	450	490	1 / 1	22-961 (6)
600	600	550	590	1 / 1	22-962 (6)
800	800	750	790	1 / 1	22-964 (0)
800	1000	750	990	1 / 1	22-965 (7)

#### 2 x 12.5 mm GKBI insert

Rated size		Clear size			
300	300	250	290		
400	400	350	390	1 / 1	22-969 (5)
500	500	450	490	1 / 1	22-971 (8)
600	600	550	590	1 / 1	22-972 (5)
800	800	750	790	1 / 1	22-974 (9)
800	1000	750	990	1 / 1	22-975 (6)

### Inspection flap Alumatic – smoke-tight and air-tight



For wall and ceiling installation (not to be exposed to walking/traffic loads), tested in accordance with DIN 18095-2: 1991-09; EN 1026: 2000-09 as well as EN 12207: 1999-11, test result window category 4 (top category).

Special anti-twist frame, integrated gypsum plaster board GKBI, appropriate for moist rooms.

Flap lid can be removed, with hidden snap, catch and assembly kit.

Material: Frame made of sectional aluminium\*, with EPDM hollow chamber seal, with gap-free GKBI.

Special designs (sizes, cylinder lock) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = eloxal quality

#### 12.5 mm GKBI insert

Rated size		Clear size			
300	300	237	237		
400	400	337	337	1 / 1	22-979 (4)
500	500	437	437	1 / 1	22-981 (7)
600	600	537	537	1 / 1	22-982 (4)
600	800	537	737	1 / 1	22-983 (1)

#### 2 x 12.5 mm GKBI insert

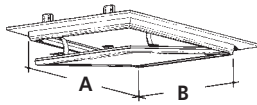
Rated size		Clear size			
300	300	237	237		
400	400	337	337	1 / 1	22-989 (3)
500	500	437	437	1 / 1	22-991 (6)
600	600	537	537	1 / 1	22-992 (3)
600	800	537	737	1 / 1	22-993 (0)

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color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

### Inspection Flap Alumatic - driving rain,-, smoke and air proof



For wall and ceiling installation (not to be exposed to walking/traffic loads), tested according to EN 1027: 2000-09 and EN 12208: 1999-11 as well as in accordance with DIN 18095-2: 1991-03 and in accordance with EN 1026: 2000-09 and EN 12207: 1999-11, test result window category 4 (top category).

Special anti-twist frame, integrated, cement-bound plate, suitable for wet and moist rooms.

Flap lid can be removed, with hidden snap, catch and assembly kit.

Material: Frame made of sectional aluminium\*, door leaf of sectional aluminium\*, with EPDM hollow chamber seal. Special designs (sizes) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = eloxal quality

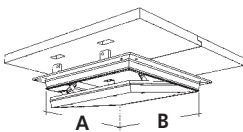
12.5 mm insert

Rated size		Clear size			
300	300	237	237		
400	400	337	337	1 / 1	22-901 (5)
500	500	437	437	1 / 1	22-902 (2)
600	600	537	537	1 / 1	22-903 (9)

2 x 12.5 mm insert

Rated size		Clear size			
300	300	237	237		
400	400	337	337	1 / 1	22-911 (4)
500	500	437	437	1 / 1	22-912 (1)
600	600	537	537	1 / 1	22-913 (8)

### Inspection flap Alumatic smoke-tight and air-tight of fire resistance class F 30



For installation in independent air-exposed suspended fire protection ceilings (not to be exposed to walking/traffic load), fire exposure on the intermediate ceiling area side. Tested in accordance to EN 1364-2: 1999-10 in combination with EN 1363-1: 1999-10, in accordance with DIN 18095-2: 1991-03 and in accordance with EN 1026: 2000-09 and EN 12207: 1999-11, test result window category 4 (top category).

Possible applications: In suspended ceilings with 25 mm boarding.

Door leaf can be unhinged, with hidden snap, catch and assembly kit.

Material: Frame made of sectional aluminium\* with insulation layer forming material, flap made of sectional aluminium\* with lip seal and integrated gypsum plaster fire protection board GKF, fire protection set of mineral fibre plates.

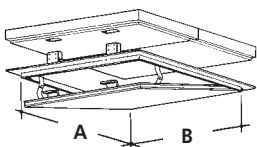
Special designs (sizes) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = eloxal quality



2 x 12.5 mm GKF insert

Rated size		Clear size			
300	300	237	237		
400	400	337	337	1 / 1	22-919 (0)
500	500	437	437	1 / 1	22-921 (3)
600	600	537	537	1 / 1	22-922 (0)

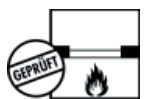
### Inspection flap Alumatic of fire resistance class F 30



for installation in suspended ceilings in combination with raw ceiling of construction type II and III tested according to DIN 4102-02 (not to be walked on), possible fire exposure on underside of ceiling, with hidden snap; door leaf can be unhinged.

Material: frame made of sectional aluminium (anodizing quality) with insulation layer forming material, flap made of sectional aluminium (anodizing quality) with lip seal, gypsumplaster fire protection board GKF 12.5 mm installed, firer protection set of mineral fibre plates, with assembly kit.

Special designs (sizes; cylinder lock) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side.



12.5 mm gypsum plaster insert:

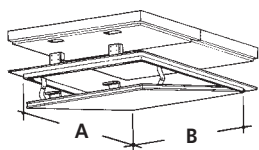
nominal size		clear size			
300	300	250	290		
400	400	350	390	1 / 1	22-359 (4)
500	500	450	490	1 / 1	22-361 (7)
600	600	550	590	1 / 1	22-362 (4)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

### Inspection flap Alumatic, fire resistance class F 30



for installation in independent fire protection ceilings, tested according to DIN 4102-02 (not to be walked on), fire exposure possible from top or bottom.

Applications: in suspended ceilings with 15 or 25 mm boards.

Door leaf can be unhinged, with hidden snap and assembly kit.

Material: frame made of sectional aluminium (anodizing quality with insulation layer forming material, flap made of sectional aluminium (anodizing quality with lip seal and gypsum plaster fire protection board GKF 15 or 2 x 12.5 mm installed, fire protection set of mineral fibre plates.

Special designs (sizes; cylinder lock) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side.

INSPECTION FLAPS

15 mm GKF insert, fire exposure from top.



nominal size		clear size				
300	300	250	290			
400	400	350	390	1 / 1	22-379	(2)
500	500	450	490	1 / 1	22-381	(5)
600	600	550	590	1 / 1	22-382	(2)

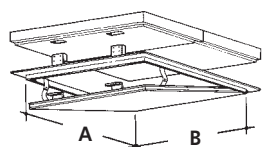
18 mm GKF insert, fire exposure from bottom or top.

nominal size		clear size				
300	300	250	290			
400	400	350	390	1 / 1	22-339	(6)
500	500	450	490	1 / 1	22-341	(9)
600	600	550	590	1 / 1	22-342	(6)

2 x 12.5 mm GKF insert, fire exposure from bottom or top.

nominal size		clear size				
300	300	250	290			
400	400	350	390	1 / 1	22-369	(3)
500	500	450	490	1 / 1	22-371	(6)
600	600	550	590	1 / 1	22-372	(3)

### Inspection flap Alumatic, fire resistance class F 90



for installation in independent fire protection ceilings, tested according to DIN 4102-02 (not to be walked on), fire exposure possible from top or bottom.

Applications: in suspended ceilings with 40 or 43 mm boards.

Door leaf can be unhinged, with hidden snap and assembly kit.

Material: Frame made of sectional aluminium\* with insulation layer forming material, flap made of sectional aluminium\* with lip seal and gypsum plaster fire protection board GKF 15; 20 or 25 mm installed, fire protection set of mineral fibre plates. Special sizes upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side.

\* = anodizing quality

40 mm GKF insert (2 x 20 mm or 15 + 25 mm):



nominal size		clear size				
300	300	250	290			
400	400	350	390	1 / 1	22-349	(5)
500	500	450	490	1 / 1	22-351	(8)
600	600	550	590	1 / 1	22-352	(5)

43 mm GKF insert (18 + 25 mm):

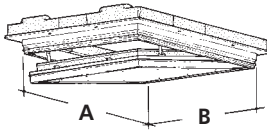
nominal size		clear size				
300	300	250	290			
400	400	350	390	1 / 1	22-389	(1)
500	500	450	490	1 / 1	22-391	(4)
600	600	550	590	1 / 1	22-392	(1)
600	800	550	790	1 / 1	22-393	(8)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

### Inspection flap AluProtect® of fire resistance class F 30



for independent fire protection ceilings, tested according to DIN 4102-02, not to be walked on, with hidden snap.

Fire exposure from above (from intermediate ceiling area).

Applications: in suspended ceilings with 15 mm boarding.

flap lid can be unhinged, with assembly kit.

Material: Installation frame made of extruded aluminium sections\* with insulation layer forming material and Vermiculite reinforcement; flap lid made of extruded aluminium sections\* with lip seal and Vermiculite reinforcement; gypsum plaster fire protection board GKF 15 mm installed.

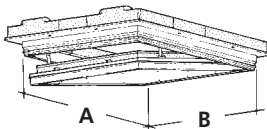
Ceiling tested only from above (from intermediate ceiling area).

Special sizes upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = anodizing quality



nominal size		clear size			
300	300	230	230		
400	400	330	330	1 / 1	22-306 (8)
500	500	430	430	1 / 1	22-307 (5)
600	600	530	530	1 / 1	22-308 (2)

### Inspection flap AluProtect® of fire resistance class F 30



for independent fire protection ceilings, tested according to EN 1364-2 : 1999-10 and EN 1363-1 : 1999-10, not to be walked on, with hidden snap. Fire exposure from bottom or top (from intermediate ceiling area).

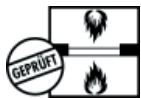
Applications: in suspended ceilings with 25 mm boarding or shaft walls (see below).

flap lid can be unhinged, with assembly kit.

Material: Installation frame made of extruded aluminium sections\* with insulation layer forming material and Vermiculite reinforcement; flap lid made of extruded aluminium sections\* with lip seal and Vermiculite reinforcement; gypsum plaster fire protection board GKFI 2 x 12.5 mm installed.

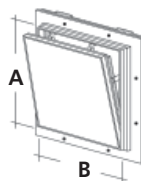
Ceiling tested only from bottom or top (from intermediate ceiling area).

Special sizes upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = anodizing quality



nominal size		clear size			
300	300	230	230		
400	400	330	330	1 / 1	22-316 (7)
500	500	430	430	1 / 1	22-317 (4)
600	600	530	530	1 / 1	22-318 (1)

### Inspection flap AluProtect® of fire resistance class F 30



for wall installation, tested according to EN 1364-2 : 1999-10 and EN 1363-1 : 1999-10, not to be walked on, with hidden snap.

Applications: non-supporting, metal frame room partition walls designed as shaft walls/ attachment shell of fire resistance class F 30 according to DIN 4102-2.

flap lid can be unhinged, with assembly kit.

Material: Installation frame made of extruded aluminium sections\* with insulation layer forming material and Vermiculite reinforcement; flap lid made of extruded aluminium sections\* with lip seal and Vermiculite reinforcement; gypsum plaster fire protection board GKF 2 x 12.5 mm installed.

Special sizes upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side. \* = anodizing quality



nominal size		clear size			
300	300	230	230		
400	400	330	330	1 / 1	22-316 (7)
500	500	430	430	1 / 1	22-317 (4)
600	600	530	530	1 / 1	22-318 (1)
600	800	530	730	1 / 1	22-319 (8)
600	1000	530	930	1 / 1	22-320 (4)

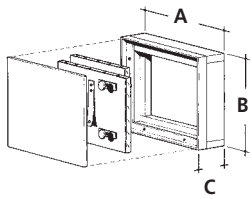
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

INSPECTION FLAPS

### Inspection flap aluminium shaft wall fire resistance class F 30



for wall installation, tested according to DIN 4102-2,

Applications: for installation in non-supporting, metal frame room partition walls designed as shaft walls/ attachment shell of fire resistance class F 30 according to DIN 4102-2 as well as in supporting and non-supporting massive walls according to valid general test certificate issued by the competent construction supervision board.

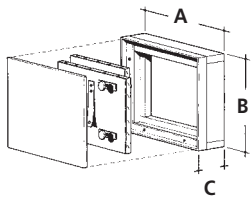
Material: GKF-construction with sectional aluminium (anodizing quality), fire seal made of GKF boards with insulation layer forming material and magnetic holders for front plate, front plate made of galvanized steel sheet.

Special designs (size, white paint coat, stainless steel, with gypsum plaster board insert) upon request.



nominal size		clear size					
300	300	44	200	200			
400	400	44	300	300	1 / 1	22-522	(2)
500	500	44	400	400	1 / 1	22-524	(6)
600	600	44	500	500	1 / 1	22-526	(0)
600	800	44	500	700	1 / 1	22-528	(4)
600	1000	44	500	900	1 / 1	22-530	(7)

### Inspection flap aluminium shaft wall fire resistance class F 90



for wall installation, tested according to DIN 4102-2

Applications: for installation in non-supporting, metal frame room partition walls designed as shaft walls/ attachment shell of fire resistance class F 90 according to DIN 4102-2 and shaft walls according to valid general test certificates issued by the competent construction supervision board.

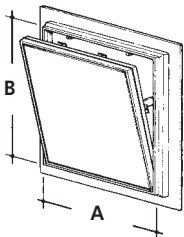
Material: GKF-construction with sectional aluminium (anodizing quality), fire seal made of GKF boards with insulation layer forming material and magnetic holders for front plate, front plate made of galvanized steel sheet

Special designs (size, white paint coat, stainless steel) upon request



nominal size		clear size					
300	300	69	200	200			
400	400	69	300	300	1 / 1	22-542	(0)
500	500	69	400	400	1 / 1	22-544	(4)
600	600	69	500	500	1 / 1	22-546	(8)
600	800	69	500	700	1 / 1	22-548	(2)
600	1000	69	500	900	1 / 1	22-550	(5)

### Inspection flap Alumatic for partition walls, fire resistance class F 30



for wall installation, tested according to DIN 4102-2, with hidden snap

Applications: in non-supporting room assembly walls (boarded on two sides, metal frame walls, partition walls, installation walls of fire resistance class F 30 according to DIN 4102-4-1994-03. Material: Frame made of sectional aluminium\* with insulation layer forming material, flap made of sectional aluminium\* with lip seal, gypsum plaster fire protection board GKF 12.5 mm installed.

Special designs (sizes, cylinder lock) upon request. In the case of special designs, please indicate in any case which measure is to be assigned to the lock side.

\* = anodizing quality



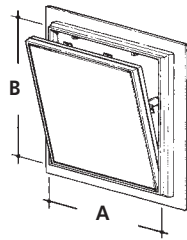
nominal size		clear size				
300	300	290	250			
400	400	390	350	1 / 1	22-602	(1)
500	500	490	450	1 / 1	22-604	(5)
500	600	490	550	1 / 1	22-606	(9)
500	800	490	750	1 / 1	22-608	(3)
500	1000	490	950	1 / 1	22-610	(6)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order (check no. no.)
	A	B	C	D	E			

### Inspection flap Alumatic for partition walls, fire resistance class F 90



for wall installation, tested according to DIN 4102-2, with hidden snap

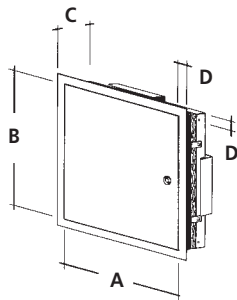
Applications: in non-supporting room assembly walls (boarded on two sides), metal frame walls, partition walls, installation walls of fire resistance class F 90 according to DIN 4102-4-1994-03. Material: Frame made of sectional aluminium\* with insulation layer forming material, flap made of sectional aluminium\* with lip seal, gypsum plaster fire protection board GKF 2 x 12.5 mm installed.

Special sizes upon request. In the case of special designs, please indicate in, any case which measure is to be assigned to the lock side.  
\* = anodizing quality

nominal size		clear size		F	VPE / VE	order (check no. no.)
300	300	290	250			
400	400	390	350	1 / 1	22-652	(6)
500	500	490	450	1 / 1	22-654	(0)
500	600	490	550	1 / 1	22-656	(4)
500	800	490	750	1 / 1	22-658	(8)

INSPECTION FLAPS

### Inspection cover of fire resistance class I 30 and F 30



for wall installation, according to DIN 4102 Part 11 and F 30 according to DIN 4102-2,

Applications: in gypsum plaster boarding GKF according to DIN 18180 (min. thickness: 25 mm) of installation duct walls and shafts, in non-supporting brickwork partition walls, gypsum wall boards of fire resistance class F 30 according to DIN 4102 Part 2, concrete and aerated concrete or lightweight concrete.

Door leaf can be unhinged, door can be fixed on left or right side.

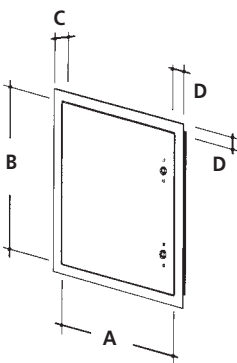
Square sash lock, protected against penetration of mortar by cover plate.

Material: galvanized steel sheet Rockwool insulation board RPB 15.

nominal size		clear size		F	VPE / VE	order (check no. no.)
300	300	65	20			
400	400	65	20	357 x 357	1 / 1	22-409 (6)
500	500	65	20	457 x 457	1 / 1	22-418 (8)
600	600	65	20	557 x 557	1 / 1	22-424 (9)

INSPECTION COVERS

### Inspection cover RV 30, temperature resistant



for installation in massive walls, according to DIN 4102, Part 2 up to 30 Minutes, sealed by sealing rubber, insulation layer forming material, door leaf cannot be unhinged, door can be fixed on left or right side. Square sash lock, protected against penetration of mortar by cover plate. Drilled hole (6 mm) in middle of frame for easier wall installation.

Material: galvanized steel sheet Rockwool insulation board RPB 15, insulation layer forming material.

Special designs upon request.

nominal size		clear size		F	VPE / VE	order (check no. no.)
300	300	45	37			

with two locks:

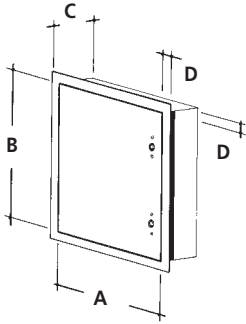
300	400	45	37	246 x 346	1 / 1	22-461 (4)
300	500	45	37	246 x 446	1 / 1	22-462 (1)
400	400	45	37	346 x 346	1 / 1	22-463 (8)
500	500	45	37	446 x 446	1 / 1	22-466 (9)
600	600	45	37	546 x 546	1 / 1	22-468 (3)

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F	VPE / VE	order (check no. no.)
	A	B	C	D	E	in cm <sup>2</sup>		

### Inspection cover RV 90, temperature resistant



for installation in massive walls, according to DIN 4102, Part 2 up to 90 Minutes, sealed by sealing rubber, insulation layer forming material, door leaf cannot be unhinged, door can be fixed on left or right side, square sash lock (protected against penetration of mortar by cover plate), drilled hole (6 mm) in middle of frame for easier wall installation.

Material: galvanized steel sheet, Rockwool insulation board RPB 15, sealing rubber.  
The service width is approx. 40 mm smaller than the clear width.  
Special designs upon request.



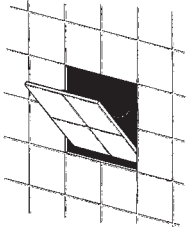
nominal size				clear size		VPE / VE	order (check no. no.)
300	300	106	37	246 x 246	1 / 1		

with two locks:

300	400	106	37	246 x 346	1 / 1	22-507 (9)
300	500	106	37	246 x 446	1 / 1	22-508 (6)
400	400	106	37	346 x 346	1 / 1	22-509 (3)
500	500	106	37	446 x 446	1 / 1	22-510 (9)
600	600	106	37	546 x 546	1 / 1	22-511 (6)

INSPECTION COVERS

### Special design, inspection cover Alumatic, suitable for tiling



for wall installation, with pivot bearing and hidden snap, gypsum plaster board GKBI 12,5 mm or 25 mm installed, suitable for moist rooms, door leaf cannot be unhinged.

Material: aluminium anodizing quality .

size according to tile size and price upon request  
order information: size and number of tiles plus width of joint

### Square piped key



for lock size 7 mm  
Material: cast iron, chromium plated

				1 / 1	22-216 (0)
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### Plastic key

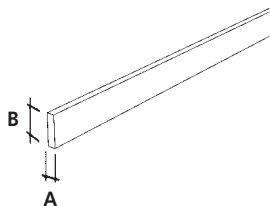


for lock size 7 mm

blue				1 / 1	22-219 (1)
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### Basesection

for reduction of the installation height to 20 mm / 18 mm / 9.5 mm  
Material: aluminium



Length			VPE / VE	order (check no. no.)
3	20	1000		
5	20	1000	1 / 1	22-221 (4)
7	20	1000	1 / 1	22-222 (1)

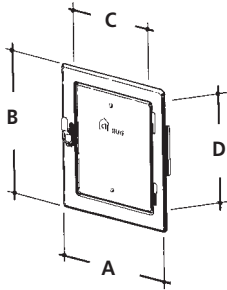
INSPECTION ACCESSORIES

VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F in cm <sup>2</sup>	VPE / VE	order no. no.)	(check
	A	B	C	D	E				

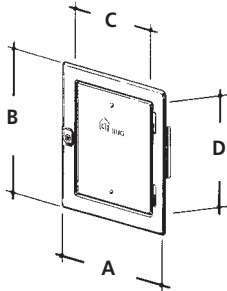
### Chimney door with lever lock



door can fixed on right or left side, door can be unhinged for installation.  
 TEST ID 21-204: P-BWU 02-39 / Test ID 21-206: P-BWU 02-40  
 Generally approved by construction supervision authorities, quality-controlled.

	outer size		clear width			
stainless steel	230	295	140	205	1 / 1	21-204 (8)
galvanized steel sheet	230	295	140	205	1 / 1	21-206 (2)

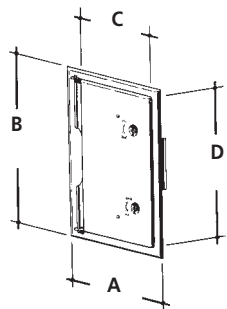
### Chimney door with square lock



door can fixed on right or left side, door can be unhinged for installation.  
 TEST ID 21-203: P-BWU 02-39 / Test ID 21-208: P-BWU 02-40  
 Generally approved by construction supervision authorities, quality-controlled

	outer size		clear width			
stainless steel	230	295	140	205	1 / 1	21-203 (1)
galvanized steel sheet	230	295	140	205	1 / 1	21-208 (6)

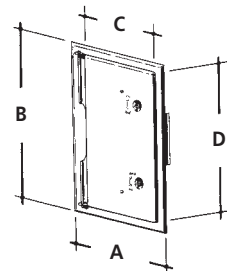
### Chimney door with square lock



door can fixed on right or left side, door can be unhinged for installation.  
 TEST ID 21-251: P-BWU 02-45 / Test ID 21-250: P-BWU 02-31  
 Generally approved by construction supervision authorities, quality-controlled.

	outer size		clear width			
stainless steel	230	380	130	300	1 / 1	21-251 (2)
galvanized steel sheet	230	380	130	300	1 / 1	21-250 (5)

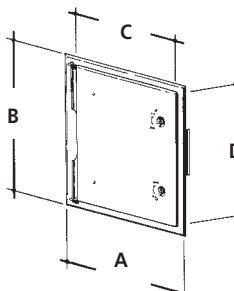
### Chimney door with two square locks



door can fixed on right or left side, door can be unhinged for installation.  
 TEST ID 21-261: P-BWU 02-36 / Test ID 21-260: P-BWU 02-32  
 Generally approved by construction supervision authorities, quality-controlled.

	outer size		clear width			
stainless steel	280	380	185	300	1 / 1	21-261 (1)
galvanized steel sheet	280	380	185	300	1 / 1	21-260 (4)

### Chimney door with two square locks



door can fixed on right or left side, door can be unhinged for installation.  
 TEST ID 21-271: P-BWU 02-48 / Test ID 21-270: P-BWU 02-33  
 Generally approved by construction supervision authorities, quality-controlled.

	outer size		clear width			
stainless steel	350	380	250	300	1 / 1	21-271 (0)
galvanized steel sheet	350	380	250	300	1 / 1	21-270 (3)

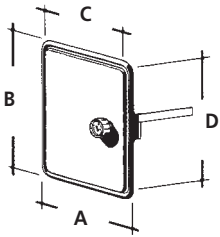
VPE = packing unit (can deviate in the case of CutCase packaging), VE = sales unit, F = air cross-section  
 EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification



color	size in mm					F	VPE / VE	order	(check
	A	B	C	D	E	in cm <sup>2</sup>		no. no.)	

CHIMNEY DOORS

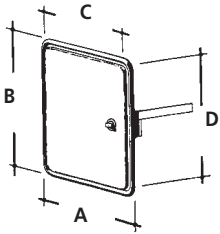
### Chimney door with rotary knob



door can be fixed on right or left side,  
 Test ID P-BWU 02-01, generally approved by construction supervision authorities, quality-controlled.  
 Material: steel sheet, plastic-coated, white.

outer size		clear width		1 / 1	21-209 (3)
190	255	140	205		

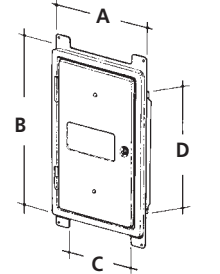
### Chimney door with square lock



door can be fixed on right or left side,  
 Test ID P-BWU 02-01, generally approved by construction supervision authorities, quality-controlled.  
 Material: steel sheet, plastic-coated, white.

outer size		clear width		1 / 1	21-210 (9)
190	255	140	205		

### Chimney door with square lock



door can be fixed on right or left side,  
 Test ID P-BWU 02-06, Ö-Norm B 8250, quality controlled.  
 Material: galvanized steel sheet.

outer size		clear width		1 / 1	21-454 (7)
230	380	150	300		
280	380	200	300	1 / 1	21-459 (2)

### Square wrench



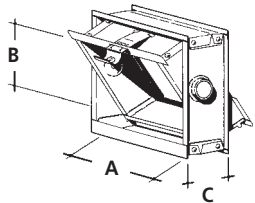
for hole size 6 mm.  
 Material: blank steel.

				1 / 1	22-218 (4)
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VENTILATION FLAPS

### Ventilation flaps for glass blocks

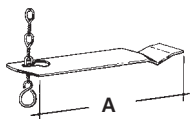
with snap and pulling device.  
 Material: galvanized steel sheet, white paint coat.



inner size			number of blocks	1 / 1	order no.	(check no.)
190	190	80				
190	390	80	2	02-344 (6)		
390	390	80	4	02-345 (3)		
240	240	80	1	02-346 (0)		
240	490	80	2	02-347 (7)		
490	490	80	4	02-348 (4)		
300	300	100	1	02-349 (1)		

### Pulling device for ventilation flap

length of cable 1850 mm



75				1 / 1	01-359 (1)
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 EAN = 4006395 + order no. + check no., prices do not include VAT, subject to technical modification

## General Terms and Conditions

### 1 General terms and conditions

- 1.1 Our deliveries and services are exclusively performed on the basis of these terms and conditions.
- 1.2 All deviating business and purchasing conditions of the customer as well as other arrangements which have not been explicitly approved by us will not be applicable.
- 1.3 Our „General Terms and Conditions“ are deemed to be accepted at latest with the receipt of the delivered goods.

### 2 Conclusion of the contract and contractual contents

- 2.1 All offers are subject to changes. We are entitled at any times to claim a statement of the customer in writing with regard to conclusions and modifications of contracts.
- 2.2 We are entitled to claim higher prices from the customer for additional work and expenses with regard to increased labour costs, material costs and energy costs. The customer will be duly informed in advance. If the customer does not agree with the price increase, he/she can immediately (within one week at latest) cancel the purchase of the goods which are affected by the price increase.
- 2.3 All details, drawings, illustrations and service descriptions contained in the catalogues, price lists or the contractual documents are customary approximate values unless we have specified them explicitly and in writing as binding values.

### 3 Prices

If not otherwise agreed, all prices from an order value of 300 net free domicile include the transportation charges, the postal charges and the customary packaging. If the value of the ordered goods is lower than 300 net, an extra charge for small quantities and for the delivery and packaging costs of 20 will be added to the invoiced amount.

### 4 Payment conditions

- 4.1 If not otherwise agreed, all invoiced amounts have to be paid due net within 30 days from the date of the invoice. When paying the invoiced amount within 14 days from the date of the invoice, we will give a discount of 3% if the customer is not in default with the payment of other claims.
- 4.2 In the case that the customer exceeds the determined date, we are entitled to charge default interests in the amount of the interest rate which is charged on overdrafts by our bank, but at least in the amount of 8 percentage points above the respective basis interest rate.
- 4.3 If it is an undisputable fact that we have delivered partly defective goods, our customer is still obliged to pay for the part which is free of any defects unless the customer does not agree on partial deliveries. Incidentally, the customer can only charge up against legally determined or undisputed counterclaims.
- 4.4 If the customer calls in a central regulatory authority, the discharging effect of the settlement of the invoice comes into force with the receipt of the payment on our account. This also applies if, according to the wording of the central regulatory agreement, the central regulatory authority is working "for us".
- 4.5 If, after the conclusion of the contract, it becomes obvious that our pecuniary claim is endangered by the insolvency of the customer, for example, in the case of the customer filing for insolvency or the opening of extrajudicial insolvency proceedings as well as in the case of repeated massive exceedance of the term of payment due to liquidity problems, we are entitled to refuse our services and to determine an appropriate term in which the customer has to pay the goods delivery versus payment or in which the customer has to provide security. If the customer refuses the payment or after the unsuccessful expiry of the term of payment, we are entitled to cancel the contract and to claim for damages instead of delivering our services. Article 323 BGB [German Civil Code] will be applied respectively.
- 4.6 In this case, we are also entitled to prohibit the resale of the goods delivered subject to reservation of title and claim the return of the goods at the expense of the customer. Additional expenses for the transportation and the delivery of the goods as well as other expenses and a depreciation of the goods have to be compensated by the customer.
- 4.7 Bills of exchange will not be accepted in any case. In the case of reminders, we will charge the customer with all additional dunning costs and other incurred costs like, for example, lawyer fees and court fees.

### 5 Delivery

- 5.1 Even if no delivery date has been agreed upon by calendar, this is not a transaction for delivery by a fixed date as specified in Article 376 paragraph 1 HGB [German Commercial Code]. For this purpose, the contracting parties have to mutually agree in writing that, for example in the case of seasonal goods or sales campaigns, the contract may be withdrawn in the case of a non-compliance with the term of delivery and that the customer is entitled to claim for damages instead of the delivery if we are at fault. All agreements concerning dates or terms of delivery have to be made in writing.
- 5.2 An agreed delivery period is extended by the period for which the customer is in default with regard to his/her obligations concerning this or another contract. Our rights from the default of the customer will fully remain in force.
- 5.3 We are not liable for delays of the delivery and services due to force majeure and similar unforeseeable events that make the delivery substantially more difficult or impossible, including disputes, civil commotions, official measures, undebted delay of delivery of our suppliers, etc., also not with regard to bindingly agreed terms and dates. This entitles us to defer the delivery or the service by the time of the impediment plus an appropriate start-up time or to fully or partially withdraw from the contract due to the not yet fulfilled part without the customer being entitled to claim any damages.
- 5.4 If our company is the reason for the default, the customer has to grant us an appropriate period of grace. After this period of grace has expired, the customer can withdraw from the contract.
- 5.5 If reasonable, partial deliveries and partial services are admissible and will be invoiced separately.
- 5.6 If later modifications of the contract made by the customer have an influence on the delivery period, this period can be extended to a reasonable extent.
- 5.7 In the case of redeliveries (only admissible in exceptional cases and after prior approval in writing by RUG), an administrative fee of 15% of the net value of the goods will be invoiced.

### 6 Reservation of title

- 6.1 Our deliveries will remain our property until all of our claims, even the future claims, for whatever legal ground, have been paid and until we will be released from all contingencies and commitments that we have assumed on behalf of the customer. This applies also if payments will be made for especially identified claims.
- 6.2 In the case that the customer processes, connects and mixes the goods which are subject to reservation of title with other goods which are not our property, we are entitled to the joint ownership of the new goods in the ratio of the invoiced value of the goods subject to reservation of title to the invoiced value of the other goods, including the expenses for the processing at the time of the processing (connection, mixing). Our co-ownership resulting hereafter is correspondingly considered as goods subject to reservation of title in accordance with these conditions. The customer may only sell the goods subject to reservation of title which are part of our property in the normal course of the business and upon the customer's usual conditions and as long as the customer is not in default.
- 6.3 The customer is only authorised and entitled for the resale of the goods subject to reservation of title if the claim from the resale according to the following sections will be passed on to us. The customer is not authorised to make any other decisions concerning the goods subject to reservation of title, especially not with regard to the transfer by way of security or with regard to pledges.

- 6.4 All claims and rights from the sale of the goods which are part of our property will be transferred to us by the customer as security. We hereby accept this transfer. If the goods subject to reservation of title will be processed or sold in an unprocessed condition by the customer after the processing (individually or together with other goods which are not part of our property), the transfer of the claim from the resale does only apply to the amount of the invoiced value of the goods subject to reservation of title. If the goods subject to reservation of title will be used by the customer for fulfilling a contract for work and services or a contract for work and materials, the claim from these contracts will be transferred in advance in the same way as described in the last two sections.

- 6.5 The customer is entitled to collect all claims from the resale until receiving a notification of our cancellation. Upon our request and in the case of our legitimate interest, the customer is obliged (if we do not inform the customer's consumer) to notify the consumer about the transfer to us, to give us proof about this notification and to submit all information and documents required for the collection of the transferred claim together with this notification. If the current value of our securities exceeds our claims by more than 10%, we are obliged to release the security of our choice upon request of the customer.

- 6.6 The customer has to inform us immediately about enforcement measures of third parties concerning the goods subject to reservation of title, concerning the claims transferred to us or concerning other securities by submitting the documents required for an intervention. This also applies to all other kinds of impairment.

### 7 Warranty for material defects

- 7.1 Basically, the rules and regulations of the German Civil Code will be applied. Defects which insubstantially reduce the value or the efficiency of the goods will not be included.
- 7.2 The customer has to take into account the commercial duty to examine and notify non-conformity. According to § 126 of the German Civil Code, each notification must be filed in writing to become effective. Upon request of the vendor, the customer will submit a sample of the rejected goods.
- 7.3 At our choice, we will repair the goods or will deliver parts for replacement. If this finally fails, the customer has all legal rights. No. 11 applies to the compensation for damages and reimbursements of expenses. Prior to the rejection of other exchanges of goods and services (i.e. in the case of cancellations, reductions and compensation for damages and reimbursements of expenses instead of the delivery of the goods and services), no. 8 will be applied in addition.
- 7.4 Basically, the legal warranty periods will be applied. If the customer in the scope of his/her sales relationships has agreed to the German construction contract procedures part B (VOB-B) with shorter warranty periods with his/her clients for the defect product, the warranty periods determined in the VOB-B will also apply to us.
- 7.5 §§ 478 and 479 of the German Civil Code will remain unaffected.

### 8 Contractual obligations

- 8.1 A contracting party can abort the exchange of goods and services for whatever legal ground (e.g. in the case of cancellation, reduction, claims for damages or reimbursements of expenses, dismissal of cause) only under the following prerequisites:
  - a) The violation of the contract has to be notified, and the remedial action has to be taken within an appropriate term. In addition, it must be threatened that no other services will be accepted after the unsuccessful expiry of the term with regard to the notified violation or that the contractual relationship will be terminated.
  - b) The termination of the exchange of goods and services due to the notified violation can only be declared within 14 days after the expiry of this term; after this period, a termination will be excluded. All declarations in this context have to be filed in writing.
- 8.2 A contracting party can only claim the restoration of the contract due to a delay of the services if the other party is responsible for the delay, unless it is unacceptable for the authorised party to adhere to the contract due to the delay.

### 9 Sales support

Sales and presentation support provided by us to the customer are only borrowed; thus, they remain our property and can be reclaimed at any time. The customer has to check them on his/her own responsibility. No. 7.2 will be applied correspondingly. The customer is obliged to equip the sales and presentation supports with our goods only, to use the usual intended hanging methods and to pay damages in the case of losses or damages.

### 10 Applicable law, place of jurisdiction, severability and transferability of the contractual rights

- 10.1 The laws of the Federal Republic of Germany apply to these terms and conditions as well as to the entire legal relationships between the contracting parties. The application of the United Nations convention of 11 April 1980 on contracts for the international sale of goods (CISG - "Vienna Sales Convention") is excluded.
- 10.2 Our place of business is also the place of jurisdiction for all litigations, also in the scope of exchange and/or cheque proceedings, if the customer is a merchant, a legal entity under public law or a special fund under public law. We are also entitled to start proceedings at the customer's place of business.
- 10.3 If any provision of these terms and conditions or any provision in the scope of other agreements should be invalid or become invalid, the validity of the contract as a whole will remain unaffected. In this case, the contracting parties are obliged to replace the invalid provision by a similar provision in terms of its economic and legal success.
- 10.4 The mutually agreed contractual rights may only be transferred after another mutual agreement. § 354a of the German Commercial Code will remain unaffected.

### 11 Liability

- 11.1 We only pay for damages or for wasted expenses, for whatever legal ground, in the following scope:
  - a) Liability for intended negligence is unlimited.
  - b) In the case of gross negligence, we are liable to the amount of the damages as typically foreseeable at the time of the conclusion of the contract. The customer has to prove the gross negligence.
  - c) In the case of a negligent violation of a cardinal obligation or a substantial obligation of which the non-compliance could endanger the fulfillment of the purpose of the contract, we are liable to the amount of the typically foreseeable damage. In this case, our liability is limited to a maximum amount of 100,000 per case of damage.
- 11.2 As far as our liability with regard to foreseeable damages is limited, we are not liable for lost profits or other financial losses.
- 11.3 The defense of contributory negligence remains unresolved.
- 11.4 A period of limitation of one year will apply to our liability (with the exception of intention or gross negligence). This periods commences on the date when the customer became aware of the circumstances that gave rise to the claim or would have become aware had it not been for gross negligence on his or her part. The limitation comes into force at latest upon the expiry of the maximum period determined in § 199 of the German Civil Code.
- 11.5 In the event of injuries to life, body and health and of claims arising from the law on product liability, the legal regulations have to be applied.
- 11.6 As far as our liability is excluded or limited, this also applies to the personal liability of our legal agents and vicarious agents.