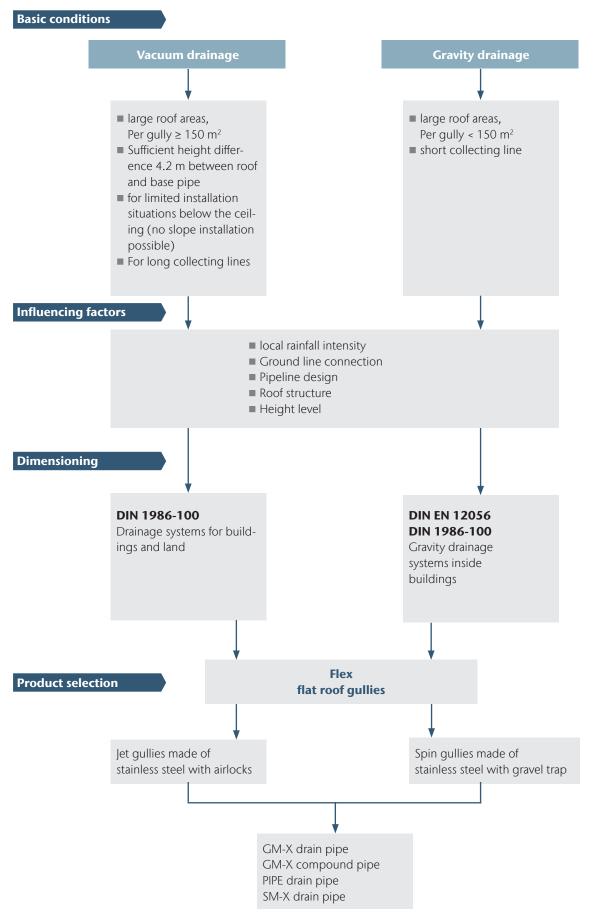


Flexible roof drainage Variant-Flex gullys made of stainless steel

Flat roof range made of stainless steel

Decision tree





Advantages of the Flex version

One gully - two applications

A flat roof gully - suitable for gravity and vacuum drainage. The Variant-Flex flat roof gully is suitable for a wide variety of installation scenarios - whether it's for gravity drainage or vacuum drainage. The Variant-Flex flat roof gully is used in a variety of ways. Depending on the application, the gravel trap is placed on the flat roof gully for gravity drainage and the airlock for negative pressure drainage.

Plug & Play - tool-free assembly

In the case of gravity drainage, the gravel trap is placed and locked onto the aluminium die-cast flange without the need for tools. The gravel trap is locked in place by rotating it, which locks it into the stops of the aluminium die-cast flange.

For vacuum drainage, the airlock is placed on the aluminium die-cast flange of the flat roof gully and locked in place. Locking is also done by rotation, which locks the airlock in the stops of the aluminium die-cast flange.







Standardised flange concept

Reduction of the bolts from 8 pieces to 5 pieces for time-saving assembly

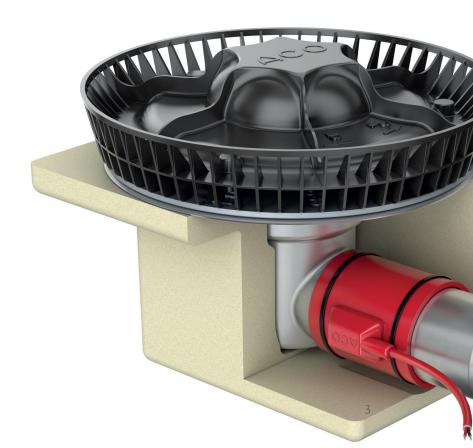
Aluminium die-cast flange is used for:

- Stainless steel flat roof gully
- Balcony drain with compression seal flange

Small recesses

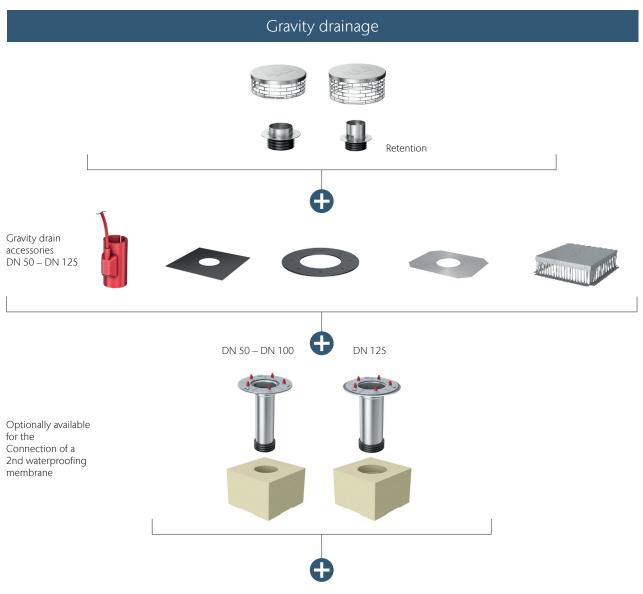
For trapezoidal sheet metal roofs according to D

EN1090-4 no structural verification is required, as the recess is <300 x 300mm.

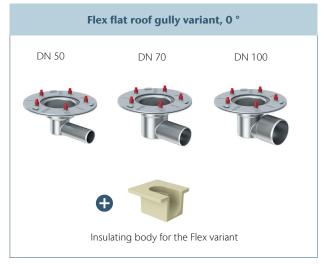




Modular system

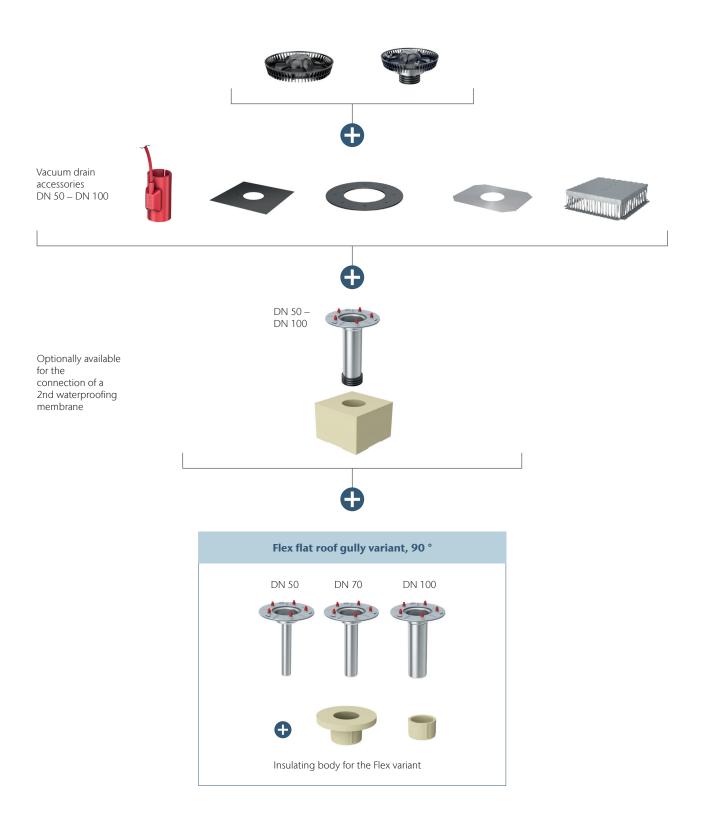








Vacuum drainage





Discharge rates of the Flex flat roof gullies

Gravity drainage

DN 50 - Accumulation height: 35 mm

Diameter	Socket inclination	Version	Stainless steel gravel trap		Article No.
			Main drainage	Emergency drainage	
DN 50	90°	1-piece	6.2 l/s	8.8 l/s	
DN 50	90°	2-piece	6.3 l/s	8.8 l/s	1511 90 00
DN 50	0°	1-piece	6.6 l/s	8.8 l/s	1311.90.00
DN 50	0°	2-piece	6.5 l/s	8.8 l/s	

DN 70 – Accumulation height: 35 mm

Diameter	Socket inclination	Version	Stainless steel gravel trap		Article No.
			Main drainage	Emergency drainage	
DN 70	90°	1-piece	6.7 l/s	11.0 l/s	
DN 70	90°	2-piece	6.8 l/s	11.2 l/s	1531 90 00
DN 70	0°	1-piece	7.1 l/s	12.1 l/s	1331.90.00
DN 70	0°	2-piece	7.1 l/s	12.1 l/s	

DN 100 - Accumulation height: 35 mm

Diameter	Socket inclination	Version	Stainless steel gravel trap		Article No.
			Main drainage	Emergency drainage	
DN 100	90°	1-piece	7.7 l/s	11.0 l/s	
DN 100	90°	2-piece	7.5 l/s	11.8 l/s	1551 90 00
DN 100	0°	1-piece	7.0 l/s	10.8 l/s	1331.90.00
DN 100	0°	2-piece	7.1 l/s	10.1 l/s	

DN 125 – Accumulation height: 35 mm

Diameter	Socket inclination	Version	Stainless steel gravel trap		Article No.
			Main drainage	Emergency drainage	
DN 125	90°	1-piece	11.0 l/s	-	
DN 125	90°	2-piece	10.9 l/s	-	1571.90.00
DN 125	0°	1-piece	16.0 I/s	-	13/1.90.00
DN 125	0°	2-piece	15.9 l/s	-	



Vacuum drainage

DN 50 – Accumulation height: 55 mm

Diameter	Socket inclination	Version	Airlock		Article No.
			Main drainage	Emergency drainage	
DN 50	90°	1-piece	8.8 l/s	8.8 l/s	1511.90.00
DN 50	90°	2-piece	8.8 l/s	8.8 l/s	1311.90.00

DN 70 – Accumulation height: 55 mm

Diameter	Socket inclination	Version	Airlock		Article No.
			Main drainage	Emergency drainage	
DN 70	90°	1-piece	18.9 l/s	18.6 l/s	1531.90.00
DN 70	90°	2-piece 19.1 l/s		18.2 l/s	1331.90.00

DN 100 – Accumulation height: 55 mm

Diameter	Socket inclination	Version	Ai	rlock	Article No.
			Main drainage	Emergency drainage	
DN 100	90°	1-piece	30.3 l/s	31.2 l/s	1551.90.00
DN 100	90°	2-piece	28.4 l/s	30.3 l/s	1331.70.00



ACO Flex flat roof gully

ACO product advantages

- Variable installation
 - ☐ Modular system: Can be used for gravity and vacuum drainage
 - $\hfill\square$ Can be utilised as emergency drainage
- Few components
- Compact design: Small recess dimensions
- Permanent resistance
 - □ 100% UV resistance
- Maintenance-friendly
- Flexible waterproofing

 □ PVC/FPO/Bitumen membranes

- Flat roof gullies according to DIN EN 1253-2
- Nominal width: DN50-DN100
- Application: Gravity or vacuum drainage (depending on the accessories used)
- From stainless steel, material grade 1.4301
 - ☐ Building material class A1 non-flammable
- With protective cover during construction period
- With compression seal flange for sealing with 1 waterproofing membrane
- Can be used for 1 sealing membrane



		Nominal diameter	Recess	Article No.	Price
			[mm]		
Socket inclination	: 90°				
	Ø286 Ø200 88 °C FALS Ø53 Ø120	DN 50	190 x 260	1511.90.00	158.00
	Ø286 Ø200 ### ### ### ### ### ### ###	DN 70	190 x 260	1531.90.00	167.00



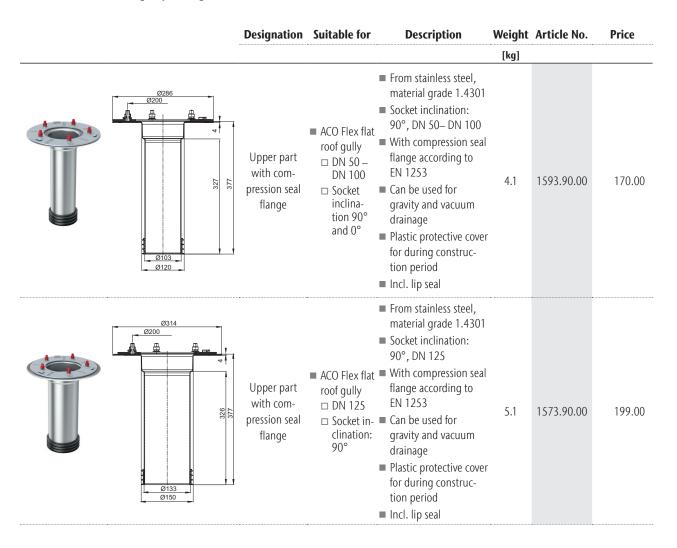
		Nominal diameter	Recess	Article No.	Price
			[mm]		
	Ø200 Ø200 Ø103 Ø120	DN 100	190 x 260	1551.90.00	190.00
	Ø314 Ø200 # # # # # # # # # # # # # # # # # # #	DN 125	210 x 260	1571.90.00	220.00
Socket inclination	n: 0°				
	Ø286 Ø200 Ø200 Ø200 Ø200 Ø200 Ø200 Ø200 Ø20	DN 50	190 x 360	1511.50.00	180.00
	Ø286 Ø200 Ø286 Ø200 Ø286 Ø200 Ø286	DN 70	190 x 360	1531.50.00	199.00
	Ø286 Ø200 Ø120 Ø120	DN 100	190 x 360	1551.50.00	240.00



Upper part for Flex flat roof gully

- From stainless steel, material grade 1.4301

 □ Building material class A1, non-flammable
- With compression seal flange according to EN 1253
- Flexible waterproofing
 - □ PVC/FPO/Bitumen membranes
- Can be utilised as emergency drainage





ACO Spin complete flat roof gullies - 2-piece for gravity drainage

ACO product advantages

- Compact design: Small recess dimensions
- Permanent resistance
 - □ 100% UV resistance
- Maintenance-friendly
- Flexible waterproofing
 □ PVC/FPO/Bitumen membranes
- Can be utilised as emergency drainage

- Flat roof gully according to DIN EN 1253-2
- Application: Gravity drainage
- From stainless steel, material grade 1.4301
 - ☐ Building material class A1 non-flammable
- With compression seal flange for sealing with 1 waterproofing membrane
- Can be used for 2 sealing membranes



		Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price
					[mm]		
Socket inclination:	90°						
	0286 8 8 9120 9103		Uninsulated	DN 50	190 x 260	1619.20.10	399.00
	4	made of stainless steel		DN 70	190 x 260	1639.20.10	410.00
	DN 0120			DN 100	190 x 260	1659.20.10	425.00
	0314 0314 0150 0150 0150	made of stainless steel	Uninsulated	DN 125	210 x 260	1679.20.10	480.00



	Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price	
		······································		[mm]		······································	
0286 0286 0120 0103 0103 0103 0103 0104 0290	made of stainless steel		DN 50	190 x 260 1619.23	1619.23.10	450.00	
		made of stainless steel	PUR-Insulating body	DN 70	190 x 260	1639.23.10	480.00
			DN 100	190 x 260	1659.23.10	495.00	
Ø314 Ø314 Ø150 Ø130 Ø130 Ø150 Ø194 Ø318	made of stainless steel	PUR-Insulating body	DN 125	210 x 260	1679.23.10	550.00	



		Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price
					[mm]		
	Ø286 Ø 120 Ø 103 Ø 103 Ø 103			DN 50	190 x 260	1619.23.30	640.00
made of stainless PUR insulating DN 70 190 x 2 steel body, heated	190 x 260	1639.23.30	650.00				
	DN 0154 0290 0290			DN 100	190 x 260	1659.23.30	670.00
	Ø314 Ø314 Ø318 Ø318 Ø318	made of stainless steel	PUR insulating body, heated	DN 125	210 x 260	1679.23.30	770.00



		Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price
Socket inclination	°				[mm]		
	Ø286			DN 50	190 x 360	1615.20.10	420.00
	Ø120 — Ø103 908 808 808 808 808 808 808 808	made of stainless steel	Uninsulated	DN 70	190 x 360	1635.20.10	435.00
	861.70.NG 861.70.NG			DN 100	190 x 360	1655.20.10	475.00
	0286			DN 50	190 x 360	1615.23.10	520.00
	Ø120 Ø103	made of stainless steel	PUR-Insulating body	DN 70	190 x 360	1635.23.10	520.00
	DN/60370 DN/10078 DN/10078 DN/10078 149			DN 100	190 x 360	1655.23.10	550.00
	9286			DN 50	190 x 360	1615.23.30	665.00
	made of stainless steel	made of stainless steel	PUR insulating body, heated		190 x 360	1635.23.30	665.00
				DN 100	190 x 360	1655.23.30	760.00



ACO Jet complete flat roof gullies - 2-piece for vacuum drainage

ACO product advantages •

- Compact design: Small recess dimensions
- Permanent resistance
 - □ 100% UV resistance
- Maintenance-friendly
- Flexible waterproofing
 - □ PVC/FPO/Bitumen membranes
- Can be utilised as emergency drainage

- Flat roof gully according to DIN EN 1253-2
- Application: vacuum drainage
- From stainless steel, material grade 1.4301
 - ☐ Building material class A1 non-flammable
- With airlock
- With compression seal flange for sealing with 1 waterproofing membrane
- Can be used for 2 sealing membranes



		Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price
Socket inclination	: 90°				[]		
0318 0286 0120 0103 0103 0103 0103			DN 50	190 x 260	1619.20.60	350.00	
	Airlock Unin:	Uninsulated	DN 70	190 x 260	1639.20.60	360.00	
			DN 100	190 x 260	1659.20.60	380.00	



		Gravel trap basket	Insulation	Nominal diameter	Recess	Article No.	Price
	***		-		[mm]	•	
0318 0286 0286 0120 0103 0103 0103 0103	Ø120 Ø103			DN 50	190 x 260	1619.23.60	410.00
	PU Airlock	PUR-Insulating body	DN 70	190 x 260	1639.23.60	420.00	
			DN 100	190 x 260	1659.23.60	440.00	
0318 0286 0286 0103 0103 0103 0104 0154 0154	Ø286 Ø120 Ø103		DN 50	190 x 260	1619.23.90	640.00	
	DN 0154	Airlock	PUR insulating body, heated	DN 70	190 x 260	1639.23.90	650.00
				DN 100	190 x 260	1659.23.90	670.00



Accessories

	Designation	on Suitable for	Description	Article No.	Price
Accessories for Flex	variant for gravity and vacuum	drainage			
			 Power supply: 220 – 240 V AC Degree of protection: IP 67 Connection line □ H05RN-F2x1,0 □ Length: 1 m Overall height: 95 mm 		
	Flat roof hea	■ Flex flat roof gully made of stainless steel □ DN 50 – DN 100 Socket inclination: 90°/0°	□ Nominal power: 25 W , □ Weight: 0.3 kg	7000.85.10	391.00
	Flat roof hear incl. thermo	•	□ Nominal power: 25 W , □ Weight: 0.3 kg	7000.85.20	457.00
	Flat roof hea	■ Flex flat roof gully made of stainless steel □ DN 125, Socket inclination: 90°	□ Nominal power: 40 W □ Weight: 0.4 kg	7000.85.15	391.00
	Flat roof hear incl. thermo	امماء	□ Nominal power: 40 W □ Weight: 0.4 kg	7000.85.25	457.00
	Lip seal rin	■ Upper part made of stainless steel DN 50-100, 90° ■ Spin pilot tube DN 50-DN 100 ■ Jet pilot tube DN 50-DN 100	■ Material: NBR ■ Diameter: 120 mm ■ Weight: 0.1 kg	1590.00.60	19.00
	Lip seal rin	■ Upper part made of stainless steel DN 125, 90° ■ Spin pilot tube DN 125	■ Material: NBR ■ Diameter: 150 mm ■ Weight: 0.1 kg	1570.00.60	21.00



	Designation	Suitable for	Description	Article No.	Price
Ø290 Ø124 Ø154 Ø154	Insulating body	 Flex flat roof gully made of stainless steel DN 50 Socket inclination: 90° 	 Made of PUR Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm Weight: 0.2 kg 	1510.93.00	80.00
Ø154 Ø124 Ø124 Ø56	Insulating body without collar	 Flex flat roof gully made of stainless steel DN 50 Socket inclination: 90° 	 Made of PUR Without circumferential collar Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm 	1510.95.00	70.00
Ø290 Ø124 Ø154 Ø154	Insulating body	 Flex flat roof gully made of stainless steel DN 70 Socket inclination: 90° 	 Made of PUR Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm 	1530.93.00	80.00
Ø154 Ø124 Ø124 Ø76	Insulating body without collar	 Flex flat roof gully made of stainless steel DN 70 Socket inclination: 90° 	 Made of PUR Without circumferential collar Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm 	1530.95.00	70.00
Ø290 Ø124 Ø16 Ø154	Insulating body	 Flex flat roof gully made of stainless steel DN 100 Socket inclination: 90° 	 Made of PUR Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm 	1550.93.00	80.00
Ø154 Ø124 Ø106	Insulating body without collar	 Flex flat roof gully made of stainless steel DN 100 Socket inclination: 90° 	 Made of PUR Without circumferential collar Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 160 mm 	1550.95.00	70.00



	Designation	Suitable for	Description	Article No.	Price
Ø318 Ø154 Ø154 Ø194	Insulating body	 Flex flat roof gully made of stainless steel DN 125 Socket inclination: 90° 	 Made of PUR Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 200 mm 	1570.93.00	80.00
Ø194 Ø154 Ø136	Insulating body without collar	 Flex flat roof gully made of stainless steel DN 125 Socket inclination: 90° 	 Made of PUR Without circumferential collar Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented Core drill: 200 mm 	1570.95.00	70.00
287 Ø124 Ø106 Ø170 Ø121	Insulating body	 Flex flat roof gully made of stainless steel DN 50-DN 100 Socket inclination: 0° 	 Made of PUR Connection port 0° Moulded part for thermal insulation of the flat roof gully Condensation in the area of the gullies is prevented 	1590.53.00	105.00
0105 0200 0270	Insulating body	 Upper part made of stainless steel DN 50, DN 70, DN 100 Socket inclination: 90° 	 ■ Made of PUR ■ Moulded part for thermal insulation of the upper part □ DN 50, DN 70, DN 100 ■ Condensation is prevented around the top part and the gully cover 	1590.91.00	120.00
© 295 Ø 154 Ø 135 Ø 200 Ø 270	Insulating body	 Upper part made of stainless steel DN 125 Socket inclination: 90° 	 Made of PUR Moulded part for thermal insulation of the upper part DN 125 Condensation is prevented around the top part and the gully cover 	1570.91.00	120.00
42		■ Flex flat roof gully made of stainless steel □ DN 50 – DN 125; Socket inclination: 90°/0° ■ Upper part made of stainless steel □ DN 50 – DN 100, DN 125, 90°	= THICKITCSS. THIIII		
	Flange seal set		□ EPDM □ Weight: 0.4 kg □ PVC soft	5169.20.26	22.80
				5169.30.26	37.20 22.60



		Designation	Suitable for	Description	Article No.	Price
	400 	Control shaft	■ Flex flat roof gully made of stainless steel □ DN 50 – DN 125; Socket inclination: 90°	 From stainless steel, material grade 1.4301 Load class: K 3 Weight: 5.3 kg 	0153.73.05	227.00
	620 Ø215 Ø215	Support sheet for trapezoidal sheet roof	■ Flex flat roof gully made of stainless steel □ DN 50 – DN 125; Socket inclination: 90°	 Made of galvanised sheet steel Thickness: 1.5 mm Weight: 3.6 kg 	0174.46.61	31.00
	9295 00295 008	Formwork aid for Flex variant	□ ACO flat roof gully Flex, DN50- DN100 with insulating body	 Formwork aid made of polystyrene(PS) Washer and fixing screws made of galvanised steel Screw lengths M8x200mm M8x260mm M8x300mm Precise positioning and easy fixation Freely adjustable at the marking lines 	1500.06.00	56.00
Accessories for Spi	n variant for gravity (drainage				
	Ø285 Ø285	Gravel trap	■ Flex flat roof gully DN 50 – DN 125; Upper part: DN 50 – DN 125;	 Made of stainless steel Plug & Play For tool-free locking on loose flange Fast installation 	1500.00.10	98.00
	Ø285 Ø285	Gravel trap	■ Spin flat roof retention gully top DN 50 – DN 100; Upper part DN 50 – DN 100; In conjunction with retention gully top	 Made of stainless steel Plug & Play For tool-free locking on loose flange Fast installation 	1590.00.30	120.00
				 Made of stainless steel, 1.4301 With lip seal ring 		
				Accumulation height:85 mmDischarge capacity: 1.0 l/s	1590.00.05	200.00
	Ø285	Retention gully top	■ Flex flat roof gully DN 50-DN 100 ■ Upper part: DN	Accumulation height: 85 mmDischarge capacity: 1.5 l/s	1590.00.07	200.00
	I중 2일		50-DN 100	Accumulation height: 85 mmDischarge capacity: 2.0 l/s	1590.00.08	200.00
				For emergency drainageAccumulation height:50 mm	1590.00.09	220.00



	Designation	Suitable for	Description	Article No.	Price
Ø172 Ø103	Pilot tube for emergency overflow	Flex flat roof gully DN 50-DN 100Upper part: DN 50-DN 100	 Made of stainless steel, 1.4301 Diameter: 103 mm Accumulation height: 35 mm With lip seal ring Weight: 0.6 kg 	1590.00.01	58.00
Ø172 Ø133	Pilot tube for emergency overflow	■ Flex flat roof gully DN 125 ■ Upper part: DN 125	 Made of stainless steel, 1.4301 Diameter: 133 mm Accumulation height: 45 mm With lip seal ring Weight: 0.8 kg 	1570.00.02	62.00
Jet accessory for vacuum drainage					
Ø318 Ø240 8 Ø170	Pilot tube for emergency overflow	Flex flat roof gully DN 50-DN 100Upper part: DN 50-DN 100	 Collection ring made of stainless steel, 1.4301 Polypropylene airlock With lip seal made of NBR 	1590.00.03	140.00
Ø318	Airlock	■ Jet flat roof gully DN 50-DN 100 ■ Upper part: DN 50-DN 100	Airlock made of polypro- pylene material	1590.00.50	43.00



Roof waterproofing membranes for stainless steel flat roof gullies

ACO product advantages

- Factory grouting of the geomembranes is possible
- Roof waterproofing membranes for flat roof gullies made of stainless steel:
 - □ 1-piece Spin/Jet flat roof gully
 - ☐ Two-piece spin/Jet flat roof gully
 - ☐ Spin/Jet attic gullies
 - ☐ Bottom parts for spin/Jet flat roof gullies
- Please order flange seals separately



Designation	Suitable for	Description	Article No.	Price
Roof waterproofing membrane: Sikaplan 15G	 Flex flat roof gully made of stainless steel; DN 50 - DN 125; Socket inclination: 90°/0° Upper part made of stainless steel DN 50- 100, DN 125 	Sikaplan 15GPlease order flange seals separately	1590.00.40	16.00
Roof waterproofing membrane: Bitumen	 Flex flat roof gully made of stainless steel; DN 50 - DN 125; Socket inclination: 90°/0° Upper part made of stainless steel DN 50- 100, DN 125 	BitumenPlease order flange seals separately	1590.00.80	33.00

Installation of the ACO/on-site provided roof sealing membrane

ACO Contact

Contact

Tel.: 036965 819-0Fax: 036965 819-361

email: haustechnik@aco.com

The roof sealing membranes listed in the table can be pre-mounted in the flat roof gully at the factory on request.

If the roof sealing membrane required for your building project is not included in the table, you are welcome to send us your existing roof sealing membrane for factory installation.



Assembly A		Price
Installation of the sealing membrane for 1-piece Spin/Jet flat roof gully	0159.99.81	87.30
Installation of the sealing membrane for 2-piece Spin/Jet flat roof gully	0159.99.82	122.00

Flex installation suggestions

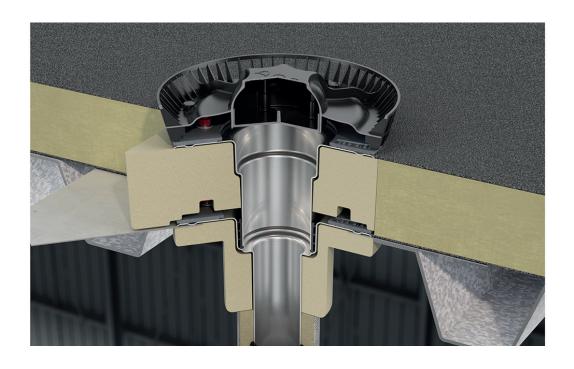
ACO Spin flat roof gully Variant-Spin for gravity drainage

- two-piece,
- Gully with gravel trap and PUR insulation
- In concrete ceiling



ACO Jet flat roof gully for vacuum drainage

- two-piece,
- Gully with airlock and PUR insulation
- In trapezoidal sheet roof





Each ACO Building Material product supports the ACO system chain









- Floor drainage
- Bath drainage
- Roof drainage
- Multi-storey car park drainage
- Balcony and terrace drainage
- Pipe systems
- Grease separator
- Starch separators
- Light liquid separator
- Process engineering
- Backflow systems
- Lifting Plants
- Pump stations

ACO Building Drainage

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