

That's how it's done.

KALA[®]

Catalogue 2025

flat roofs + terraces.



Because your time is valuable.

Dear readers,

Welcome! Work should also be fun. This means using the right products. The new KALA catalogue is a great resource for your projects. KALA's solutions and products enable fast, easy work – for rapid advances on the construction site.

What makes our flat roof drainage systems, fans, terrace support systems, grommets and many other products ideal? The fact that we are also experienced users and know the various on-site requirements. We care about continuously improving our products based on practical experience and implementing new ideas in ways that satisfy our users' requirements. Our aim is to be THE benchmark for what you consider useful – from the communication around consulting, ordering and delivery to the suitability and long-term durability of our products under the harshest conditions.

This is important to us for several reasons. We know that your time is very precious. That is why our products must be quick, simple and safe to install, sparing valuable time during assembly and removing the need for laborious modifications and re-works. A proper, durable function of the roof accessories matters. Our products are subjected to the hardest test imaginable: your experiences. And our roof and service teams are also extremely critical, providing us with suggestions and ideas for improvement, to which we quickly react with product adaptations and improvements.

Finally, sustainability is increasingly important to you and your customers. And here's the thing: a product that is made from single materials rather than hard-to-recycle combinations, produced in clever plastic formulations and production processes that preserve resources and protect the environment, and then optimally packaged, is very sustainable. Selecting a product that needs replacement after a few years is the wrong answer to today's problems.

So when we confidently say „That's how it's done“ when presenting our product range, we have good reasons for this. We believe in the quality of what we are offering. And we are happy to discuss any customisations your projects may require regarding the materials, the dimensions or even your own variants. Because we know how it's done. As do you.

Get in touch!

+49 7423 8687 600
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Or visit our website at www.kala.de.





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KALA systems for terraces: That's how it's done.

Professional terrace laying - durable and safe

KALA terrace support systems

- Underlayable terrace support system
- Height-adjustable terrace support system H1
- Height-adjustable terrace support system H2
- KALA terrace support system H-MAX MultiLevel

Accessories for KALA terrace support systems

- Clever accessories for KALA terrace support systems

Cross/tile spacers

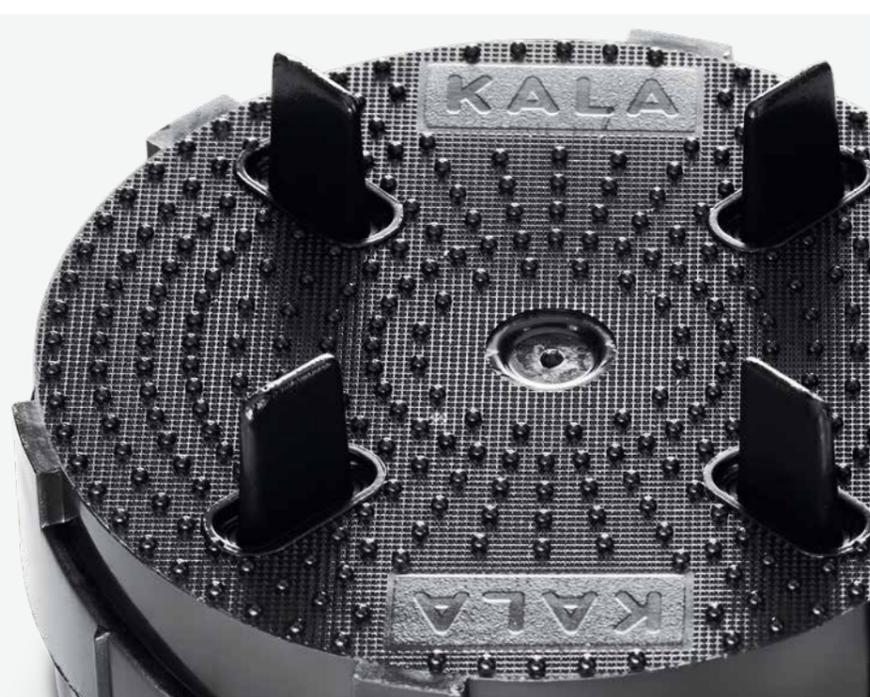
- Cross spacers - height: 18 mm
- Tile spacers for ceramic tiles - height: 11 mm

Roof systems: That's how it's done.

- The original red flexible tube
- Ventilators for bitumen shingle roofs
- Bird deterrent "bird spikes"

Customer service: That's how it's done.

Data sheets



Flat roof systems: That's how it's done.



Smart solutions for flat roofs

KALA roof systems: That's how it's done.

Smart products and Suitable accessories for flat roofs:
Learn more about our systems for drainage, ventilation,
detailing and lightning protection.

Reliable flat roof drainage

8

Drains, round and rectangular emergency overflows and scuppers as well as
matching vapor barrier sheets and drain grates

Aeration and ventilation systems for flat roofs

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Cold roof fans, Flat roof fans, Forced ventilation for aerating and ventilating
interiors and roof structures

Flat roof accessories

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Inspection fittings, Universal grommets, Gravel baskets, lightning protection
wire holders and many more products

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Flat roof drainage you can rely on.
Even when it's pouring down.



Renovation drain

Get a price advantage in a **set!**

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Renovation drain BIT					
Item No.	Material	Technical information		Length	PU
980008	BIT sandet	with gravel basket and lip seal	D 50 mm (DN 50)	320 mm	1
980015				600 mm	
980022			D 75 mm (DN 70)	320 mm	
980039				600 mm	
980046			D 95 mm	320 mm	
980053				600 mm	
980060			D 110 mm (DN 100)	320 mm	
980077				600 mm	
980084			D 125 mm (DN 125)	320 mm	
980091				600 mm	
980107			D 160 mm (DN 150)	320 mm	
980114				600 mm	



Renovation drain PVC					
Item No.	Material	Technical information		Length	PU
983009	PVC similar to RAL 7035, Light grey	with gravel basket and lip seal	D 50 mm (DN 50)	320 mm	1
983016				600 mm	
983023			D 75 mm (DN 70)	320 mm	
983030				600 mm	
983047			D 95 mm	320 mm	
983054				600 mm	
983061			D 110 mm (DN 100)	320 mm	
983078				600 mm	
983085			D 125 mm (DN 125)	320 mm	
983092				600 mm	
983108			D 160 mm (DN 150)	320 mm	
983115				600 mm	



Renovation drain FPO/PP					
Item No.	Material	Technical information		Length	PU
982002	FPO/PP ¹ similar to RAL 7044, Silk grey	with gravel basket and lip seal	D 50 mm (DN 50)	320 mm	1
982019				600 mm	
982026			D 75 mm (DN 70)	320 mm	
982033				600 mm	
982040			D 95 mm	320 mm	
982057				600 mm	
982064			D 110 mm (DN 100)	320 mm	
982071				600 mm	
982088			D 125 mm (DN 125)	320 mm	
982095				600 mm	
982101			D 160 mm (DN 150)	320 mm	
982118				600 mm	

Reliable drainage for all structures – from balconies to industrial properties

Permanent and emergency drainage solutions to meet all requirements: KALA offers smart, quick and easy-to-install products for all conventional roof membranes.

 Relevant datasheets starting from page 68.

¹ Alternatively available in PE (roof membranes based on PE)

Drain

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Drain ⁴				
Item No.	Material	Technical information	PU	
100741	BIT sandet	With bitumen sleeve, Basket D 300 mm, Pipe length 320 mm ^{1,3}	D 50 mm (DN 50)	1
100802			D 75 mm (DN 70)	
100833	With bitumen sleeve, Basket D 380 mm, Pipe length 320 mm ^{1,3}	D 90 mm		
100857		D 95 mm		
100864		D 110 mm (DN 100)		
100925		D 125 mm (DN 125)		
100987		D 160 mm (DN 150)		



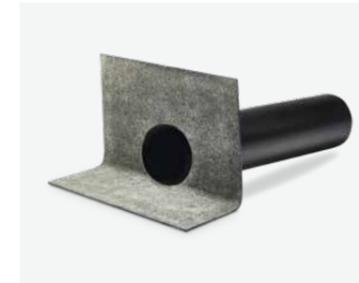
Drain ⁴				
Item No.	Material	Technical information	PU	
102998	PVC similar to RAL 7035, Light grey	Basket D 300 mm, Pipe length 320 mm ^{1,3}	D 50 mm (DN 50)	1
103087			D 75 mm (DN 70)	
103124	Basket D 380 mm, Pipe length 320 mm ^{1,3}	D 90 mm		
103162		D 95 mm		
103209		D 110 mm (DN 100)		
103247		D 125 mm (DN 125)		
103322		D 160 mm (DN 150)		



Drain ⁴				
Item No.	Material	Technical information	PU	
100901	FPO/PP ² similar to RAL 7044, Silk grey	Basket D 300 mm, Pipe length 320 mm ^{1,3}	D 50 mm (DN 50)	1
101205			D 75 mm (DN 70)	
101304	Basket D 380 mm, Pipe length 320 mm ^{1,3}	D 90 mm		
101403		D 95 mm		
101502		D 110 mm (DN 100)		
101601		D 125 mm (DN 125)		
101809		D 160 mm (DN 150)		

Scupper, round

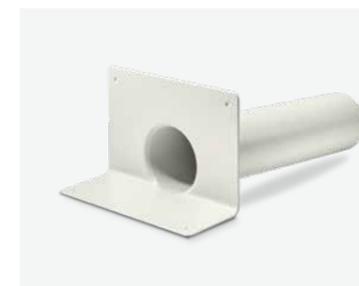
Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper, round ⁴				
Item No.	Material	Technical information	PU	
101113	BIT sandet	With bitumen sleeve, Pipe length 480 mm ¹	D 50 mm (DN 50)	1
100994			D 63 mm	
101083			D 75 mm (DN 70)	
101120			D 90 mm	
101144			D 110 mm (DN 100)	
101168			D 125 mm (DN 125) ³	



Scupper, round ⁴				
Item No.	Material	Technical information	PU	
103346	PVC similar to RAL 7035, Light grey	Pipe length 480 mm ¹	D 50 mm (DN 50)	1
103360			D 63 mm	
103407			D 75 mm (DN 70)	
103445			D 90 mm	
103483			D 110 mm (DN 100)	
103520			D 125 mm (DN 125) ³	



Scupper, round ⁴				
Item No.	Material	Technical information	PU	
101861	FPO/PP ² similar to RAL 7044, Silk grey	Pipe length 480 mm ¹	D 50 mm (DN 50)	1
101908			D 63 mm	
102004			D 75 mm (DN 70)	
102103			D 90 mm	
102134			D 110 mm (DN 100)	
102165			D 125 mm (DN 125) ³	

Suitable accessories

- Gravel basket: p. 23
- Lip seal: p. 23

All flat roof accessories
can be found from page 22.

- ¹ Special lengths available on request
- ² Alternatively available in PE (roof membranes based on PE)
- ³ Other diameter sizes available on request
- ⁴ Alternatively also available with accumulation ring

- ¹ Special lengths available on request
- ² Alternatively available in PE (roof membranes based on PE)
- ³ **Attention:** Please note that the technical dimensions and visual representation may differ from the illustration
- ⁴ Alternatively also available with accumulation ring

Suitable accessories

- Gravel basket: p. 23
- Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.



Scupper BIT XL, round

Variant with a **large bitumen sleeve** - for easier connection to the roofing membrane.

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper BIT XL, round ³				
Item No.	Material	Diameter	Technical information	PU
101212	BIT sandet	D 50 mm (DN 50)	With bitumen sleeve (470 x 500 mm), Pipe length 480 mm ¹	1
101229		D 63 mm		1
101236		D 75 mm (DN 70)		1
101243		D 90 mm		1
101250		D 110 mm (DN 100)		1
101267		D 125 mm (DN 125) ²		1

Scupper, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper, rectangular ³			
Item No.	Material	Duct = W x H x L ¹	PU
106002	PVC	120 x 60 x L 300 mm	1
106057	similar to RAL 7047, Telegrey 4	120 x 60 x L 600 mm	
106200		180 x 80 x L 300 mm	
106255		180 x 80 x L 600 mm	
106309		300 x 80 x L 300 mm	
106354		300 x 80 x L 600 mm	
106408		300 x 100 x L 300 mm	
106453		300 x 100 x L 600 mm	
106606		500 x 100 x L 300 mm	
106651		500 x 100 x L 600 mm	
106675		600 x 100 x L 300 mm	
106682		600 x 100 x L 600 mm	
106705		750 x 100 x L 300 mm	
106750		750 x 100 x L 600 mm	
106804		1000 x 100 x L 300 mm	
106859	1000 x 100 x L 600 mm		

Scupper, rectangular ³			
Item No.	Material	Duct = W x H x L ¹	PU
107009	FPO/PP ²	120 x 60 x L 300 mm	1
107054	similar to RAL 7044, Silk grey	120 x 60 x L 600 mm	
107207		180 x 80 x L 300 mm	
107252		180 x 80 x L 600 mm	
107306		300 x 80 x L 300 mm	
107351		300 x 80 x L 600 mm	
107405		300 x 100 x L 300 mm	
107450		300 x 100 x L 600 mm	
107603		500 x 100 x L 300 mm	
107658		500 x 100 x L 600 mm	
107672		600 x 100 x L 300 mm	
107689		600 x 100 x L 600 mm	
107702		750 x 100 x L 300 mm	
107757		750 x 100 x L 600 mm	
107801		1000 x 100 x L 300 mm	
107856	1000 x 100 x L 600 mm		

Suitable accessories

- Gravel basket: p. 23
- Vapour barrier sheet: p. 26

All flat roof accessories can be found from page 22.

¹ Special lengths available on request

² **Attention:** Please note that the technical dimensions and visual representation may differ from the illustration

³ Alternatively also available with accumulation ring

¹ Special sizes available on request

² Alternatively also available in PE (roofing membranes based on PE)

³ Alternatively also available with accumulation ring

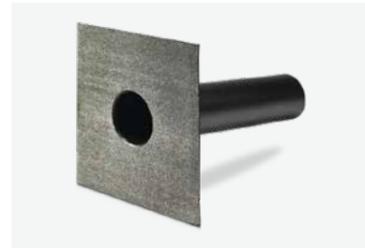
Suitable accessories

- Vapour barrier sheet: p. 26

All flat roof accessories can be found from page 22.

Emergency overflow, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Emergency overflow, round				
Item No.	Material	Technical information	PU	
101137	BIT sandet	With bitumen sleeve, Pipe length 490 mm ¹	D 50 mm (DN 50)	1
101182			D 63 mm	
101151			D 75 mm (DN 70)	
101199			D 110 mm (DN 100)	
101175			D 125 mm (DN 125)	



Emergency overflow, round				
Item No.	Material	Technical information	PU	
103537	PVC similar to RAL 7035, Light grey	Pipe length 490 mm ¹	D 50 mm (DN 50)	1
103544			D 63 mm	
103551			D 75 mm (DN 70)	
103575			D 110 mm (DN 100)	
103582			D 125 mm (DN 125)	



Emergency overflow, round				
Item No.	Material	Technical information	PU	
102141	FPO/PP ² similar to RAL 7044, Silk grey	Pipe length 490 mm ¹	D 50 mm (DN 50)	1
102202			D 63 mm	
102158			D 75 mm (DN 70)	
102127			D 110 mm (DN 100)	
102226			D 125 mm (DN 125)	

Emergency overflow, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Emergency overflow, rectangular			
Item No.	Material	Duct = W x H x L ¹	PU
104008	PVC similar to RAL 7047, Telegrey 4	120 x 60 x L 300 mm	1
104053		120 x 60 x L 600 mm	
104206		180 x 80 x L 300 mm	
104251		180 x 80 x L 600 mm	
104305		300 x 80 x L 300 mm	
104350		300 x 80 x L 600 mm	
104404		300 x 100 x L 300 mm	
104459		300 x 100 x L 600 mm	
104602		500 x 100 x L 300 mm	
104657		500 x 100 x L 600 mm	
104671		600 x 100 x L 300 mm	
104688		600 x 100 x L 600 mm	
104701		750 x 100 x L 300 mm	
104756		750 x 100 x L 600 mm	
104800		1000 x 100 x L 300 mm	
104855	1000 x 100 x L 600 mm		



Emergency overflow, rectangular			
Item No.	Material	Duct = W x H x L mm ¹	PU
105005	FPO/PP ² similar to RAL 7044, Silk grey	120 x 60 x L 300 mm	1
105050		120 x 60 x L 600 mm	
105203		180 x 80 x L 300 mm	
105258		180 x 80 x L 600 mm	
105302		300 x 80 x L 300 mm	
105357		300 x 80 x L 600 mm	
105401		300 x 100 x L 300 mm	
105456		300 x 100 x L 600 mm	
105609		500 x 100 x L 300 mm	
105654		500 x 100 x L 600 mm	
105678		600 x 100 x L 300 mm	
105685		600 x 100 x L 600 mm	
105746		750 x 100 x L 300 mm	
105753		750 x 100 x L 600 mm	
105807		1000 x 100 x L 300 mm	
105852	1000 x 100 x L 600 mm		



Aeration and ventilation systems for flat roofs



Flat roof fans for ventilation lines with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof fans for ventilation lines with weather cap				
Item No.	Material	Technical information	Height	PU
900013	PVC	D 75 mm (DN 70)	654 mm	1
900020	similar to RAL 7035, Light grey	D 110 mm (DN 100)	Pipe length above / below tray	
900037		D 125 mm (DN 125)	300 / 320 mm ¹	
900044		D 160 mm (DN 150)		



Flat roof fans for ventilation lines with weather cap				
Item No.	Material	Technical information	Height	PU
900105	FPO/PP ²	D 75 mm (DN 70)	654 mm	1
900112	similar to RAL 7044, Silk grey	D 110 mm (DN 100)	Pipe length above / below tray	
900129		D 125 mm (DN 125)	300 / 320 mm ¹	
900136		D 160 mm (DN 150)		

Flat roof fans for new builds and refurbishments

Reliable and durable accessories for your house provided by our systems for ventilating interiors and roof structures.

i Relevant datasheets starting from page 68.

¹ Special lengths available on request
² Alternatively available in PE (roof membranes based on PE)

Flat roof fans for cold roofs with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof fans for cold roofs with weather cap				
Item No.	Material	Technical information	Height	PU
901003	BIT sandet	D 75 mm (DN 70)	354 mm ¹	1
901010		D 110 mm (DN 100)		
901027		D 125 mm (DN 125)		
901034		D 160 mm (DN 150)		



Flat roof fans for cold roofs with weather cap				
Item No.	Material	Technical information	Height	PU
900709	PVC similar to RAL 7035, Light grey	D 75 mm (DN 70)	354 mm ¹	1
900716		D 110 mm (DN 100)		
900723		D 125 mm (DN 125)		
900730		D 160 mm (DN 150)		



Flat roof fans for cold roofs with weather cap				
Item No.	Material	Technical information	Height	PU
900808	FPO/PP ² similar to RAL 7044, Silk grey	D 75 mm (DN 70)	354 mm ¹	1
900815		D 110 mm (DN 100)		
900822		D 125 mm (DN 125)		
900839		D 160 mm (DN 150)		

¹ Special lengths available on request
² Alternatively available in PE (roof membranes based on PE)

Flat roof refurbishment fans with forced ventilation

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof refurbishment fans with forced ventilation				
Item No.	Material	Technical information	Height	PU
111969	BIT sandet	D 125 mm (DN 125)	518 mm ¹	1
111976		D 160 mm (DN 150)		



Flat roof refurbishment fans with forced ventilation				
Item No.	Material	Technical information	Height	PU
111921	PVC similar to RAL 7035, Light grey	D 125 mm (DN 125)	518 mm ¹	1
111938		D 160 mm (DN 150)		



Flat roof refurbishment fans with forced ventilation				
Item No.	Material	Technical information	Height	PU
111945	FPO/PP ² similar to RAL 7044, Silk grey	D 125 mm (DN 125)	518 mm ¹	1
111952		D 160 mm (DN 150)		

¹ Special lengths available on request
² Alternatively available in PE (roof membranes based on PE)

That's how it's done.

Ventalu forced ventilation DR-S



Ventalu forced ventilation DR-S			
Item No.	Accessory suitable for	Technical information	PU
112201	Refurbishment fans	D 125 mm (DN 125)	1
112218		D 160 mm (DN 150)	

Universal weather cap for flat roof fans



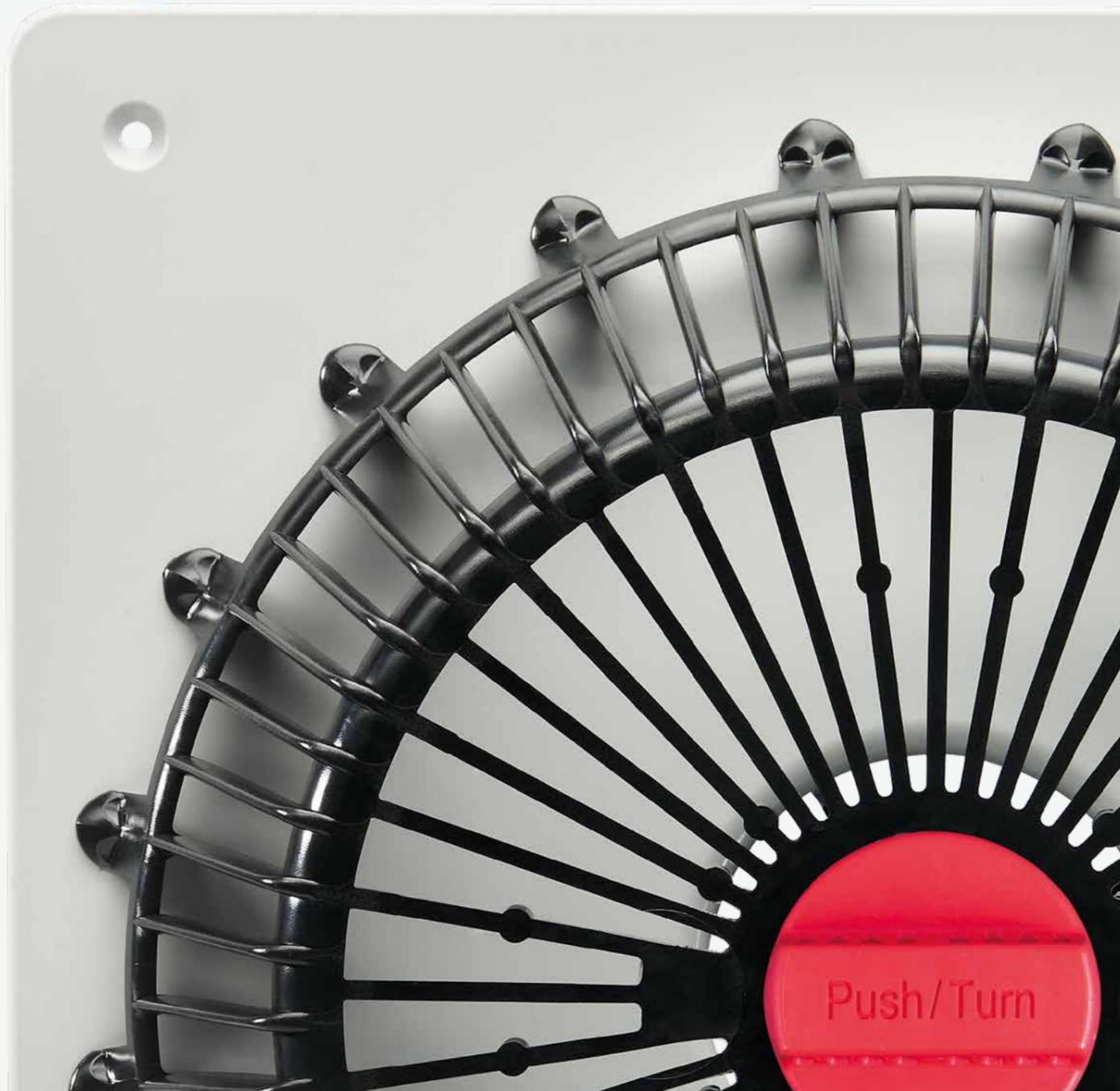
Universal weather cap for flat roof fans				
Item No.	Accessory suitable for	Color	Diameter	PU
111358	Cold roof fans, Flat roof fans	Gray	D 75 mm (DN 70) ¹	1
111693		Black	D 110 mm (DN 100) D 125 mm (DN 125)	
111389		Gray	D 160 mm (DN 150) ¹	

¹ Attention: Please note that the technical dimensions and visual representation may differ from the illustration



Flat roof accessories from seals to lightning protection

Smart accessories for durable flat roofs



Practical accessories for all your flat roof needs, whether you require detailing and drainage, or safety and lightning protection. From the right vapour barrier for emergency spillovers and spouts to grommets and inner and outer corners for simple detailing in PP, PVC and bitumen: clever flat roof accessories!

i Relevant datasheets starting from page 68.



Gravel basket Vario Fix - infinitely adjustable			
Item No.	Accessory suitable for	Dimensions	PU
109553	Drain D 50 mm (DN 50) - D 160 mm (DN 150)	Basket height 77,5 mm Diameter 262 mm infinitely adjustable	10
109492	Scupper D 50 mm (DN 50) - D 90 mm	Basket height 77,5 mm Size: 75 mm (DN 70)	10
109508	Scupper D 110 mm (DN 100) - D 125 mm (DN 125)	Basket height 77,5 mm Size: 110 mm (DN 100)	10



Gravel basket Classic - with centering cross			
Item No.	Accessory suitable for	Dimensions	PU
109515	Drain D 50 mm (DN 50) - D 160 mm (DN 150)	Basket height 77,5 mm Diameter 262 mm with centering cross	10
109539	Scupper D 50 mm (DN 50) - D 90 mm	Basket height 77,5 mm Size: 75 mm (DN 70)	10
109546	Scupper D 110 mm (DN 100) - D 125 mm (DN 125)	Basket height 77,5 mm Size: 110 mm (DN 100)	10



Lip seal as a backflow-proof pipe connection			
Item No.	Lip seal	Material	PU
103865	Lip seal Ø D 50 mm (DN 50)	EPDM, Black	1
103872	Lip seal Ø D 75 mm (DN 70)		
103889	Lip seal Ø D 95 mm small		
103919	Lip seal Ø D 95 mm large		
103926	Lip seal Ø D 110 mm (DN 100)		
103933	Lip seal Ø D 125 mm (DN 125)		
103940	Lip seal Ø D 160 mm (DN 150)		



Gravel guard frame			
Item No.	Material	Dimensions	PU
120114	PVC similar to RAL 7047, Telegrey 4	Length: 380 mm Width: 380 mm Height: 84 mm	1



Inspection chamber			
Item No.	Material	Dimensions	PU
120213	PVC similar to RAL 7047, Telegrey 4	Length: 380 mm Width: 380 mm Height: 160 mm	1

Smart accessories for durable flat roofs

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Universal grommets					
Item No.	Material	Height	Length	Inner diameter	PU
303906	BIT ¹ sandet	300 mm, with heat-shrink tube	80 mm	D 10 mm	10
304903				D 20 mm	
305900				D 30 mm	
306907				D 42 mm	
307904				D 50 mm	
309601		320 mm, with heat-shrink tube	100 mm	D 68 mm	5
309700				D 82 mm	
309809				D 100 mm	
309908				D 115 mm	
309526				D 150 mm	



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303807	PVC Light grey similar to RAL 7035	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304804				D 20 mm		35
305801				D 30 mm		30
306808				D 42 mm		25
307805				D 50 mm		20



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303814	PVC Anthracite gray similar to RAL 7016	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304811				D 20 mm		35
305818				D 30 mm		30
306815				D 42 mm		25
307812				D 50 mm		20



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303302	FPO/PP ¹ Gray similar to RAL 7004	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304309				D 20 mm		35
305306				D 30 mm		30
306303				D 42 mm		25
307300				D 50 mm		20



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303203	FPO/PP ¹ Beige gray similar to RAL 7044	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304200				D 20 mm		35
305207				D 30 mm		30
306204				D 42 mm		25
307201				D 50 mm		20



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303500	FPO/PP ¹ Anthracite gray similar to RAL 7016	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304507				D 20 mm		35
305504				D 30 mm		30
306501				D 42 mm		25
307508				D 50 mm		20



Universal grommets						
Item No.	Material	Height	Length	Inner diameter	PU	
303104	FPO/PP ¹ White similar to RAL 7016	300 mm, with heat-shrink tube	80 mm	D 10 mm	40	
304101				D 20 mm		35
305108				D 30 mm		30
306105				D 42 mm		25
307102				D 50 mm		20

i Suitable accessories
• Hose clamps: p. 28

All flat roof accessories can be found from page 22.

¹ Alternatively, also available as a custom-made version with slate

¹ Alternatively available in PE (roof membranes based on PE)

i Suitable accessories
• Hose clamps: p. 28

All flat roof accessories can be found from page 22.

Smart accessories for durable flat roofs

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



One-piece inspection fitting for flat roof systems				
Item No.	Material	Height	Diameter	PU
120305	BIT sandet	605 mm	D 125 mm (DN 125)	1



One-piece inspection fitting for flat roof systems				
Item No.	Material	Height	Diameter	PU
120817	PVC similar to RAL 7035, Light grey	605 mm	D 125 mm (DN 125)	1



One-piece inspection fitting for flat roof systems				
Item No.	Material	Height	Diameter	PU
120824	FPO/PP ¹ similar to RAL 7044, Silk grey	605 mm	D 125 mm (DN 125)	1



Gooseneck/cable conduit ^{2,3}				
Item No.	Material	Diameter	PU	
111402	FPO/PP	D 75 mm (DN 70)	1	
111563	Black	D 110 mm (DN 100)		
111570		D 125 mm (DN 125)		
111587		D 160 mm (DN 150)		



Vapour barrier sheet for Scupper and Emergency overflow, round				
Item No.	Material	for Diameter	PU	
108501	Basket PVC sheet	D 50 mm (DN 50)	1	
108556	300 x 300 mm	D 75 mm (DN 70)		
108600	similar to RAL 7047, Telegrey 4	D 95 mm		
108655		D 110 mm (DN 100)		
108709		D 125 mm (DN 125)		



Vapour barrier sheet for Scupper and Emergency overflow, rectangular				
Item No.	Material	Duct = W x H x L	PU	
108006	Basket PVC sheet	for 120 x 60 mm	1	
108051	similar to RAL 7047, Telegrey 4	for 180 x 80 mm		
108105		for 300 x 80 mm		
108150		for 300 x 100 mm		
108204		for 500 x 100 mm		
108259		for 600 x 100 mm		
108303		for 750 x 100 mm		
108358		for 1000 x 100 mm		



Internal corners for roof membranes			
Item No.	Material	Technical information	PU
300806	PVC Light grey ¹ similar to RAL 7035	Prefab corners, weldable to roof membrane	25
300813	PVC Anthracite gray ¹ similar to RAL 7016		
300301	FPO/PP Gray ¹ similar to RAL 7004		
300202	FPO/PP Beige gray ¹ similar to RAL 7044		
300509	FPO/PP Anthracite gray ¹ similar to RAL 7016		
300103	FPO/PP White ¹ similar to RAL 7016		



External corners for roof membranes			
Item No.	Material	Technical information	PU
301803	PVC Light grey ¹ similar to RAL 7035	Prefab corners, weldable to roof membrane	25
301810	PVC Anthracite gray ¹ similar to RAL 7016		
301308	FPO/PP Gray ¹ similar to RAL 7004		
301209	FPO/PP Beige gray ¹ similar to RAL 7044		
301605	FPO/PP Anthracite gray ¹ similar to RAL 7016		
301100	FPO/PP White ¹ similar to RAL 7016		



Heat-shrink tube ²				
Item No.	Material	Diameter ranges	Length	PU
111419	Polyolefine, weatherproof modified	22/6 mm (D 10 mm)	8 cm	10
111426		28/6 mm (D 20 mm)		
111433		40/12 mm (D 30 mm)		
111440		55/16 mm (D 42 mm)		
111457		65/19 mm (D 50 mm)		



¹ Alternatively also available in FPO/PE

² Available as a cold or warm roof version. Price refers only to the sheet unit.

³ Attention: Please note that the technical dimensions and visual representation may differ from the illustration

¹ Alternatively available in PE (roof membranes based on PE)

² Alternatively, other sizes and lengths are also available

Smart accessories for durable flat roofs

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



W4 hose clamps (in place of heat-shrink tube)			
Item No.	Diameter ranges	Metal strip width	PU
111518	10/16 mm (D 10 mm)	4 mm	10
111525	16/27 mm (D 20 mm)		
111686	25/40 mm (D 30 mm)		
111532	32/50 mm (D 42 mm)		
111549	40/60 mm (D 50 mm)		



Lightning protection wire holders			
Item No.	Material	For lightning protection wires	PU
109102	Polyamide (PA)	D 8 - 10 mm	50



Discus membrane piece for lightning protection wire holders			
Item No.	Material	Technical information	PU
109157	BIT ² sandet	Accessory for holder, weldable with roof membrane	50
109126	PVC ³		
109133	FPO/PP ^{1,3}		



¹ Alternatively available in PE (roof membranes based on PE)

² Alternatively, also available as a custom-made version with slate

³ The thickness of the sheet is at least 1.8 mm





Novelty Nexo Fix

- ✓ Saving time through work already done
- ✓ Minimizing vulnerabilities in sealing
- ✓ Professional and manufacturer compliant
- ✓ Highest quality standard
- ✓ Solidly welded - no clamping, no sticking

We are bringing the **upgrade** to the roof range.

Our scuppers, emergency overflows, drains and flat roof fans are now available with an industrial manufactured, pre-welded foil connection. No clamping, no sticking. This saves you the trouble of manually welding the fixed flange to the soft sealing film on the construction site. Easy to use, perfect results. That's how it's done.

All information at:
highlights.kala.de



Renovation drain Nexo Fix

Get a price advantage in a **set!**

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Renovation drain Nexo Fix						
Item No.	Material	Technical information		Foil connection	Length	PU
983405	PVC	With gravel basket and lip seal	D 50 mm (DN 50)	PVC	320 mm	1
983412	similar to RAL 7035, Light grey				600 mm	
983429			D 75 mm (DN 70)		320 mm	
983436					600 mm	
983443			D 95 mm		320 mm	
983450					600 mm	
983467			D 110 mm (DN 100)		320 mm	
983474					600 mm	
983481			D 125 mm (DN 125)		320 mm	
983498					600 mm	
983504			D 160 mm (DN 150)		320 mm	
983511					600 mm	



Renovation drain Nexo Fix

Get a price advantage in a **set!**

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Renovation drain Nexo Fix							
Item No.	Material	Technical information		Foil connection	Length	PU	
982408	FPO/PP	With gravel basket and lip seal	D 50 mm (DN 50)	Bauder Thermoplan T	320 mm	1	
982415	similar to RAL 7044,				600 mm		
982422	Silk grey		D 75 mm (DN 70)		320 mm		
982439					600 mm		
982446			D 95 mm		320 mm		
982453					600 mm		
982460			D 110 mm (DN 100)		320 mm		
982477					600 mm		
982484			D 125 mm (DN 125)		320 mm		
982491					600 mm		
982507			D 160 mm (DN 150)		320 mm		
982514					600 mm		
982521			D 50 mm (DN 50)		Sika Sarnafil TS77		320 mm
982538							600 mm
982545			D 75 mm (DN 70)				320 mm
982552							600 mm
982569		D 95 mm	320 mm				
982576			600 mm				
982583		D 110 mm (DN 100)	320 mm				
982590			600 mm				
982606		D 125 mm (DN 125)	320 mm				
982613			600 mm				
982620		D 160 mm (DN 150)	320 mm				
982637			600 mm				
982644		D 50 mm (DN 50)	Soprema FLAGON Premio	320 mm			
982651				600 mm			
982668		D 75 mm (DN 70)		320 mm			
982675				600 mm			
982682		D 95 mm		320 mm			
982699				600 mm			
982705		D 110 mm (DN 100)		320 mm			
982712				600 mm			
982729		D 125 mm (DN 125)		320 mm			
982736				600 mm			
982743		D 160 mm (DN 150)		320 mm			
982750				600 mm			

Drain Nexo Fix

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Drain Nexo Fix ³					
Item No.	Material	Technical information		Foil connection	PU
151019	PVC	Basket D 300 mm, Pipe length 320 mm ^{1,2}	D 50 mm (DN 50)	PVC	1
151118	similar to RAL 7035, Light grey		D 75 mm (DN 70)		
151149			D 90 mm		
151170			D 95 mm		
151200			D 110 mm (DN 100)		
151231			D 125 mm (DN 125)		
151293			D 160 mm (DN 150)		

Drain Nexo Fix ³									
Item No.	Material	Technical information		Manufacturer	Foil connection	PU			
151316	FPO/PP	Basket D 300 mm, Pipe length 320 mm ^{1,2}	D 50 mm (DN 50)	Bauder	Thermoplan T	1			
151323	similar to RAL 7044,			SIKA	Sarnafil TS77				
151330	Silk grey			Soprema	FLAGON Premio				
151408				D 75 mm (DN 70)	Bauder		Thermoplan T		
151415					SIKA		Sarnafil TS77		
151422					Soprema		FLAGON Premio		
151439				Basket D 380 mm, Pipe length 320 mm ^{1,2}	D 90 mm		Bauder	Thermoplan T	
151446							SIKA	Sarnafil TS77	
151453							Soprema	FLAGON Premio	
151460							D 95 mm	Bauder	Thermoplan T
151477								SIKA	Sarnafil TS77
151484								Soprema	FLAGON Premio
151491							D 110 mm (DN 100)	Bauder	Thermoplan T
151507								SIKA	Sarnafil TS77
151514								Soprema	FLAGON Premio
151521							D 125 mm (DN 125)	Bauder	Thermoplan T
151538			SIKA			Sarnafil TS77			
151545			Soprema			FLAGON Premio			
151583		D 160 mm (DN 150)	Bauder			Thermoplan T			
151590			SIKA			Sarnafil TS77			
151606			Soprema			FLAGON Premio			

¹ Special lengths available on request
² Other diameter sizes available on request
³ Alternatively also available with accumulation ring

Suitable accessories
 • Gravel basket: p. 23
 • Lip seal: p. 23

All flat roof accessories can be found from page 22.



Scupper Nexo Fix, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper Nexo Fix, round ²					
Item No.	Material	Technical information	Foil connection	PU	
152016	PVC	Pipe length 480 mm ¹	D 50 mm (DN 50)	PVC	1
152047	similar to RAL 7035, Light grey		D 63 mm		
152078			D 75 mm (DN 70)		
152108			D 90 mm		
152139			D 110 mm (DN 100)		



Scupper Nexo Fix, round ²						
Item No.	Material	Technical information	Manufacturer	Foil connection	PU	
152184	FPO/PP	Pipe length 480 mm ¹	D 50 mm (DN 50)	Bauder	Thermoplan T	1
152191	similar to			SIKA	Sarnafil TS77	
152207	RAL 7044, Silk grey			Soprema	FLAGON Premio	
152214			D 63 mm	Bauder	Thermoplan T	
152221				SIKA	Sarnafil TS77	
152238			Soprema	FLAGON Premio		
152245		D 75 mm (DN 70)	Bauder	Thermoplan T		
152252			SIKA	Sarnafil TS77		
152269			Soprema	FLAGON Premio		
152276		D 90 mm	Bauder	Thermoplan T		
152283			SIKA	Sarnafil TS77		
152290			Soprema	FLAGON Premio		
152306		D 110 mm (DN 100)	Bauder	Thermoplan T		
152313			SIKA	Sarnafil TS77		
152320			Soprema	FLAGON Premio		

Scupper Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper Nexo Fix, rectangular ²				
Item No.	Material	Duct = W x H x L ¹	Foil connection	PU
160011	PVC	120 x 60 x L 300 mm	PVC	1
160042	similar to	120 x 60 x L 600 mm		
160073	RAL 7047, Telegrey 4	180 x 80 x L 300 mm		
160103		180 x 80 x L 600 mm		
160134		300 x 80 x L 300 mm		
160165		300 x 80 x L 600 mm		
160196		300 x 100 x L 300 mm		
160226		300 x 100 x L 600 mm		
160257		500 x 100 x L 300 mm		
160288		500 x 100 x L 600 mm		
160318		600 x 100 x L 300 mm		
160349		600 x 100 x L 600 mm		

Suitable accessories

- Gravel basket: p. 23
- Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.

¹ Special lengths available on request
² Alternatively also available with accumulation ring

Suitable accessories

- Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.

¹ Special sizes available on request
² Alternatively also available with accumulation ring



Scupper Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Scupper Nexo Fix, rectangular ²					
Item No.	Material	Duct = W x H x L ¹	Manufacturer	Foil connection	PU
160363	FPO/PP	120 x 60 x L 300 mm	Bauder	Thermoplan T	1
160370	similar to		SIKA	Sarnafil TS77	
160387	RAL 7044, Silk grey		Soprema	FLAGON Premio	
160394		120 x 60 x L 600 mm	Bauder	Thermoplan T	
160400			SIKA	Sarnafil TS77	
160417			Soprema	FLAGON Premio	
160424		180 x 80 x L 300 mm	Bauder	Thermoplan T	
160431			SIKA	Sarnafil TS77	
160448			Soprema	FLAGON Premio	
160455		180 x 80 x L 600 mm	Bauder	Thermoplan T	
160462			SIKA	Sarnafil TS77	
160479			Soprema	FLAGON Premio	
160486		300 x 80 x L 300 mm	Bauder	Thermoplan T	
160493			SIKA	Sarnafil TS77	
160509			Soprema	FLAGON Premio	
160516		300 x 80 x L 600 mm	Bauder	Thermoplan T	
160523			SIKA	Sarnafil TS77	
160530			Soprema	FLAGON Premio	
160547		300 x 100 x L 300 mm	Bauder	Thermoplan T	
160554			SIKA	Sarnafil TS77	
160561			Soprema	FLAGON Premio	
160578		300 x 100 x L 600 mm	Bauder	Thermoplan T	
160585			SIKA	Sarnafil TS77	
160592			Soprema	FLAGON Premio	
160608		500 x 100 x L 300 mm	Bauder	Thermoplan T	
160615			SIKA	Sarnafil TS77	
160622			Soprema	FLAGON Premio	
160639		500 x 100 x L 600 mm	Bauder	Thermoplan T	
160646			SIKA	Sarnafil TS77	
160653			Soprema	FLAGON Premio	
160660		600 x 100 x L 300 mm	Bauder	Thermoplan T	
160677			SIKA	Sarnafil TS77	
160684			Soprema	FLAGON Premio	
160691		600 x 100 x L 600 mm	Bauder	Thermoplan T	
160707			SIKA	Sarnafil TS77	
160714			Soprema	FLAGON Premio	

¹ Special sizes available on request

² Alternatively also available with accumulation ring

Emergency overflow Nexo Fix, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Emergency overflow Nexo Fix, round					
Item No.	Material	Technical information		Foil connection	PU
153013	PVC	Pipe length 490 mm ¹	D 50 mm (DN 50)	PVC	1
153044	similar to		D 63 mm		
153075	RAL 7035, Light grey		D 75 mm (DN 70)		
153105			D 110 mm (DN 100)		
153136			D 125 mm (DN 125)		

Emergency overflow Nexo Fix, round						
Item No.	Material	Technical information		Manufacturer	Foil connection	PU
153150	FPO/PP	Pipe length 490 mm ¹	D 50 mm (DN 50)	Bauder	Thermoplan T	1
153167	similar to			SIKA	Sarnafil TS77	
153174	RAL 7044, Silk grey			Soprema	FLAGON Premio	
153181			D 63 mm	Bauder	Thermoplan T	
153198				SIKA	Sarnafil TS77	
153204				Soprema	FLAGON Premio	
153211			D 75 mm (DN 70)	Bauder	Thermoplan T	
153228				SIKA	Sarnafil TS77	
153235				Soprema	FLAGON Premio	
153242			D 110 mm (DN 100)	Bauder	Thermoplan T	
153259				SIKA	Sarnafil TS77	
153266				Soprema	FLAGON Premio	
153273		D 125 mm (DN 125)	Bauder	Thermoplan T		
153280			SIKA	Sarnafil TS77		
153297			Soprema	FLAGON Premio		

¹ Special lengths available on request

Suitable accessories
· Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.



Emergency overflow Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Emergency overflow Nexo Fix, rectangular				
Item No.	Material	Duct = W x H x L ¹	Foil connection	PU
165016	PVC	120 x 60 x L 300 mm	PVC	1
165047	similar to	120 x 60 x L 600 mm		
165078	RAL 7047,	180 x 80 x L 300 mm		
165108	Telegrey 4	180 x 80 x L 600 mm		
165139		300 x 80 x L 300 mm		
165160		300 x 80 x L 600 mm		
165191		300 x 100 x L 300 mm		
165221		300 x 100 x L 600 mm		
165252		500 x 100 x L 300 mm		
165283		500 x 100 x L 600 mm		
165313		600 x 100 x L 300 mm		
165344		600 x 100 x L 600 mm		

Emergency overflow Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Emergency overflow Nexo Fix, rectangular					
Item No.	Material	Duct = W x H x L ¹	Manufacturer	Foil connection	PU
165368	FPO/PP	120 x 60 x L 300 mm	Bauder	Thermoplan T	1
165375	similar to		SIKA	Sarnafil TS77	
165382	RAL 7044,		Soprema	FLAGON Premio	
	Silk grey				
165399		120 x 60 x L 600 mm	Bauder	Thermoplan T	
165405			SIKA	Sarnafil TS77	
165412			Soprema	FLAGON Premio	
165429		180 x 80 x L 300 mm	Bauder	Thermoplan T	
165436			SIKA	Sarnafil TS77	
165443			Soprema	FLAGON Premio	
165450		180 x 80 x L 600 mm	Bauder	Thermoplan T	
165467			SIKA	Sarnafil TS77	
165474			Soprema	FLAGON Premio	
165481		300 x 80 x L 300 mm	Bauder	Thermoplan T	
165498			SIKA	Sarnafil TS77	
165504			Soprema	FLAGON Premio	
165511		300 x 80 x L 600 mm	Bauder	Thermoplan T	
165528			SIKA	Sarnafil TS77	
165535			Soprema	FLAGON Premio	
165542		300 x 100 x L 300 mm	Bauder	Thermoplan T	
165559			SIKA	Sarnafil TS77	
165566			Soprema	FLAGON Premio	
165573		300 x 100 x L 600 mm	Bauder	Thermoplan T	
165580			SIKA	Sarnafil TS77	
165597			Soprema	FLAGON Premio	
165603		500 x 100 x L 300 mm	Bauder	Thermoplan T	
165610			SIKA	Sarnafil TS77	
165627			Soprema	FLAGON Premio	
165634		500 x 100 x L 600 mm	Bauder	Thermoplan T	
165641			SIKA	Sarnafil TS77	
165658			Soprema	FLAGON Premio	
165665		600 x 100 x L 300 mm	Bauder	Thermoplan T	
165672			SIKA	Sarnafil TS77	
165689			Soprema	FLAGON Premio	
165696		600 x 100 x L 600 mm	Bauder	Thermoplan T	
165702			SIKA	Sarnafil TS77	
165719			Soprema	FLAGON Premio	

¹ Special sizes available on request

i Suitable accessories
· Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.

¹ Special sizes available on request

i Suitable accessories
· Vapour barrier sheet: p. 26

All flat roof accessories
can be found from page 22.



Flat roof fans Nexo Fix for ventilation lines with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof fans Nexo Fix for ventilation lines with weather cap					
Item No.	Material	Technical information	Height	Foil connection	PU
972010	PVC similar to RAL 7035, Light grey	D 75 mm (DN 70)	654 mm Pipe length above / below tray 300 / 320 mm ¹	PVC	1
972041		D 110 mm (DN 100)			
972072		D 125 mm (DN 125)			
972102		D 160 mm (DN 150)			



Flat roof fans Nexo Fix for ventilation lines with weather cap						
Item No.	Material	Technical information	Height	Manufacturer	Foil connection	PU
972126	FPO/PP similar to RAL 7044, Silk grey	D 75 mm (DN 70)	654 mm Pipe length above / below tray 300 / 320 mm ¹	Bauder	Thermoplan T	1
972133				SIKA	Sarnafil TS77	
972140				Soprema	FLAGON Premio	
972157		D 110 mm (DN 100)		Bauder	Thermoplan T	
972164				SIKA	Sarnafil TS77	
972171				Soprema	FLAGON Premio	
972188		D 125 mm (DN 125)		Bauder	Thermoplan T	
972195				SIKA	Sarnafil TS77	
972201				Soprema	FLAGON Premio	
972218		D 160 mm (DN 150)		Bauder	Thermoplan T	
972225				SIKA	Sarnafil TS77	
972232				Soprema	FLAGON Premio	

¹ Special lengths available on request



Flat roof fans Nexo Fix for cold roofs with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof fans Nexo Fix for cold roofs with weather cap					
Item No.	Material	Technical information	Height	Foil connection	PU
971013	PVC similar to RAL 7035, Light grey	D 75 mm (DN 70)	354 mm ¹	PVC	1
971044		D 110 mm (DN 100)			
971075		D 125 mm (DN 125)			
971105		D 160 mm (DN 150)			



Flat roof fans Nexo Fix for cold roofs with weather cap						
Item No.	Material	Technical information	Height	Manufacturer	Foil connection	PU
971129	FPO/PP similar to RAL 7044, Silk grey	D 75 mm (DN 70)	354 mm ¹	Bauder	Thermoplan T	1
971136				SIKA	Sarnafil TS77	
971143				Soprema	FLAGON Premio	
971150		D 110 mm (DN 100)		Bauder	Thermoplan T	
971167				SIKA	Sarnafil TS77	
971174				Soprema	FLAGON Premio	
971181		D 125 mm (DN 125)		Bauder	Thermoplan T	
971198				SIKA	Sarnafil TS77	
971204				Soprema	FLAGON Premio	
971242		D 160 mm (DN 150)		Bauder	Thermoplan T	
971259				SIKA	Sarnafil TS77	
971266				Soprema	FLAGON Premio	

¹ Special lengths available on request



Flat roof refurbishment fans Nexo Fix with forced ventilation

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Flat roof refurbishment fans Nexo Fix with forced ventilation					
Item No.	Material	Technical information	Height	Foil connection	PU
156014	PVC ähnlich RAL 7035, Light grey	D 125 mm (DN 125)	518 mm ¹	PVC	1
156045		D 160 mm (DN 150)			



Flat roof refurbishment fans Nexo Fix with forced ventilation						
Item No.	Material	Technical information	Height	Manufacturer	Foil connection	PU
156069	FPO/PP	D 125 mm (DN 125)	518 mm ¹	Bauder	Thermoplan T	1
156076	similar to			SIKA	Sarnafil TS77	
156083	RAL 7044, Silk grey			Soprema	FLAGON Premio	
156090		D 160 mm (DN 150)	Bauder	Thermoplan T		
156106			SIKA	Sarnafil TS77		
156113			Soprema	FLAGON Premio		

¹ Special lengths available on request



One-piece inspection fitting Nexo Fix for flat roof systems

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



One-piece inspection fitting Nexo Fix for flat roof systems					
Item No.	Material	Technical information	Height	Foil connection	PU
157011	PVC similar to RAL 7035, Light grey	D 125 mm (DN 125)	605 mm ¹	PVC	1



One-piece inspection fitting Nexo Fix for flat roof systems						
Item No.	Material	Technical information	Height	Manufacturer	Foil connection	PU
157035	FPO/PP similar to	D 125 mm (DN 125)	605 mm ¹	Bauder	Thermoplan T	1
157042	RAL 7044, Silk grey			SIKA	Sarnafil TS77	
157059				Soprema	FLAGON Premio	

¹ Special lengths available on request

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Smart solutions for quick terrace construction and durable protection of the underlying seal: Use KALA terrace support systems to achieve a durable and optimally fitted patio!

Complete underlayable terrace support system	47
Support system for wood, concrete or stone surfaces that can be quickly installed free-standing and with incremental height adjustment	
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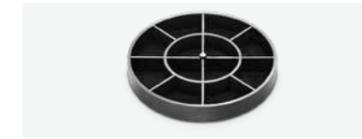
Underlayable terrace support system



Complete underlayable terrace support system			
Item No.	Height	Diameter	PU
100093	21 mm	Joint dividers 3 mm, D 120 mm	100



Solo joint divider for underlayable terrace support systems			
Item No.	Height	Diameter	PU
100130	3 mm	Joint dividers 3 mm, D 120 mm ¹	300



Solo base element for underlayable terrace support systems			
Item No.	Height	Diameter	PU
100178	18 mm	D 120 mm	150



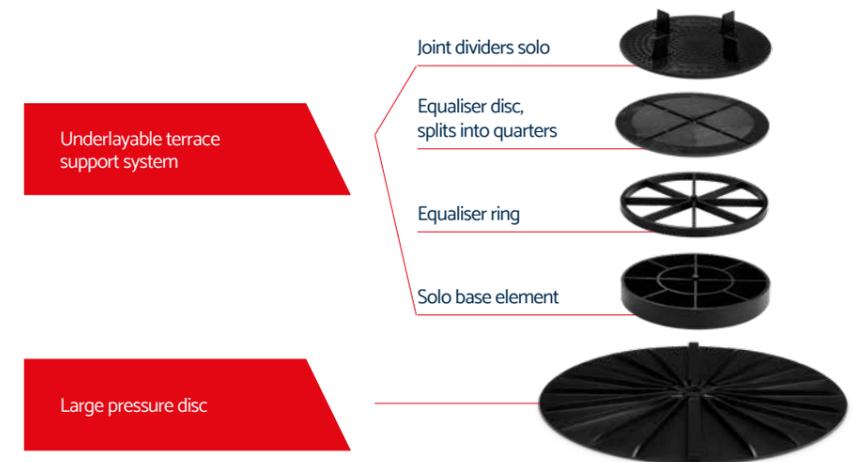
Equaliser disc, splits into quarters for underlayable terrace support systems			
Item No.	Height	Diameter	PU
100277	3 mm	D 120 mm	300



Equaliser ring for underlayable terrace support systems			
Item No.	Height	Diameter	PU
100307	6 mm	D 120 mm	300

With KALA terrace support systems, you can realise professional, durable, and safe solutions for all types of terrace constructions. Whether renovation or new construction, for extremely low or extra high constructions – we have the right solution for your terrace. With KALA's support system, the support stands freely on a pressure disc. Movements and loads are decoupled from the underlying sealing and distributed over a sufficiently large area.

i Relevant datasheets starting from page 68.



Support system for precise and durable terrace construction
The KALA terrace support system for fast and durable terrace constructions – including on sensitive substrates like flat roof sealing liners; can be directly installed on the sealing without protective mats.

¹ Alternatively also available with a joint width of 4 mm

Height-adjustable terrace support system H1



Height-adjustable terrace support system H1			
Item No.	Height	Diameter	PU
100017	28 - 42 mm	Joint dividers 3 mm, D 120 mm ^{1,2}	50



KALA height-adjustable terrace sliding supports



Large pressure disc

¹ Alternatively also available with a joint width of 4 mm
² Alternatively also available without joint divider

Suitable accessories

- ProSilent disc: p. 53
- Pressure disc: S. 53

You can find all the KALA route storage accessories from page 52.

Install terraces on flat roof sealing liners and fine-tune height differences – quickly and easily!

The KALA terrace sliding support system precisely incrementally adjusted to your desired height is capable of more than just enabling the precise installation of terrace slabs on delicate substrates: It also facilitates easy levelling of height differences. Can also be combined with the ProSilent equaliser disc to reduce the impact noise that occurs.

Height-adjustable terrace support system H2



Height-adjustable terrace support system H2			
Item No.	Height	Diameter	PU
100055	40 - 70 mm	Joint dividers 3 mm, D 120 mm ^{1,2}	50



KALA height-adjustable terrace sliding supports



Large pressure disc

¹ Alternatively also available with a joint width of 4 mm
² Alternatively also available without joint divider

Suitable accessories

- ProSilent disc: p. 53
- Pressure disc: S. 53

You can find all the KALA route storage accessories from page 52.

KALA terrace support system H-MAX MultiLevel



KALA terrace support system H-MAX MultiLevel			
Item No.	Height	Diameter	PU
100598	62 - 82 mm	Joint dividers 3 mm, Pressure disc D 200 mm	25
100604	77 - 112 mm		
100635	107 - 142 mm		
100628	137 - 227 mm		

Joint dividers

(Support head with integrated rubber plate for sound insulation and inclinable head up to 5°)

Infinitely height-adjustable basic element

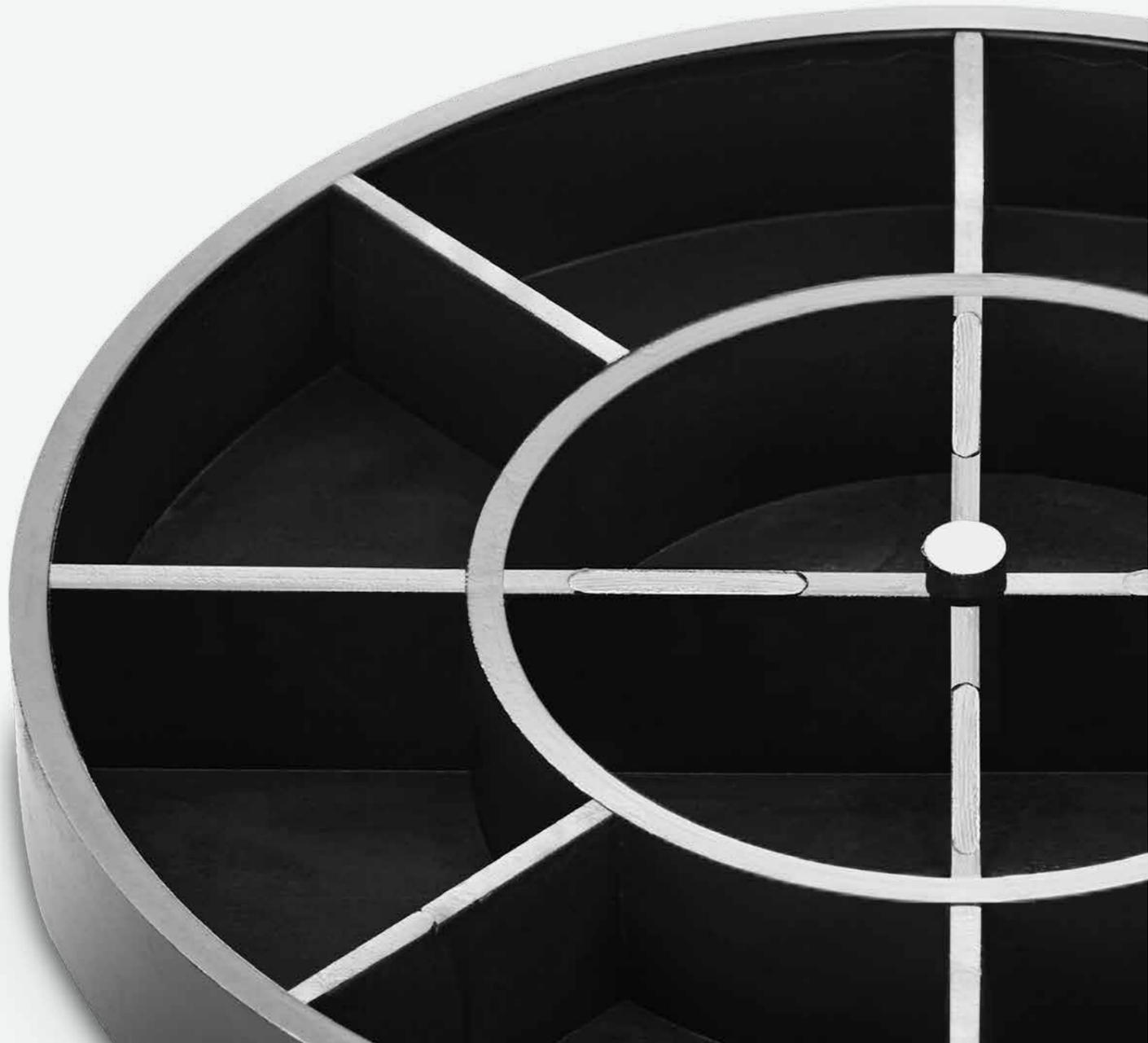


Seamlessly adjustable terrace support with inclinable head for fast and non-damaging terrace construction on uneven and/or sealed substrates

The KALA freely height-adjustable terrace support system H-MAX MultiLevel features an inclinable head, making it ideal for accurately planning the laying of all kinds of terrace surfaces. Simple levelling of uneven surfaces and slopes thanks to free height adjustment and a head which tilts up to 50 degrees. The large support surface protects the delicate seals below against damage and prevents sinking into soft surfaces.

Professional terrace construction: That's how it's done.





Accessories for KALA terrace support systems



ProSilent equaliser disc for terrace support systems, splits into quarters				
Item No.	Height	Diameter	Material	PU
100253	1 mm	D 112 mm	PVC	50

Accessory suitable for height-adjustable or underlayable terrace support systems



Large pressure disc				
Item No.	Height	Diameter		PU
100215	7 mm	D 250 mm		100

Accessory suitable for height-adjustable or underlayable terrace support systems



Small pressure disc				
Item No.	Height	Diameter		PU
100246	3 mm	D 200 mm		100

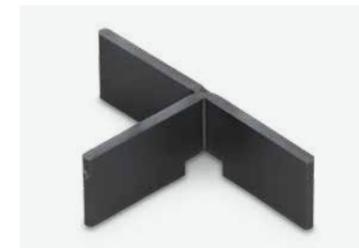
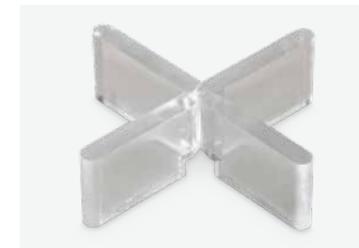
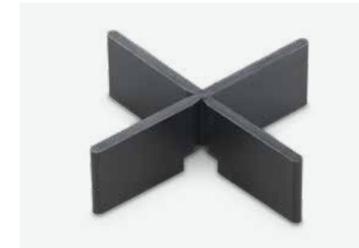
Accessory suitable for height-adjustable or underlayable terrace support systems

Need even more variation? No problem: with our accessory portfolio for our terrace support systems, you can get the most out of your project. Here you will find everything you need to even out surfaces easily, distribute loads or create precise joints simply and quickly.

i Relevant datasheets starting from page 68.



Cross spacers – height: 18 mm



Cross spacers – height: 18 mm				
Item No.	Number of wings	Cross width	Color	PU
100338	4 wings	3 mm	Black	300
100352	4 wings	3 mm	Transparent	
100369	4 wings	5 mm	Black	
100383	4 wings	5 mm	Transparent	
100390	4 wings	10 mm	Black	
100345	4 wings	4 mm	Black with support	
100376	4 wings	4 mm	Transparent with support	
100420	3 wings	3 mm	Black	
100451	3 wings	5 mm	Black	

Permanent and secure joint filling for all slab types with KALA spacers, also ideal for staggered and border installation!

 Relevant datasheets starting from page 68.

Tile spacers for safely laying ceramic tile terraces

A simple way to achieve even and non-moving terrace joints by placing cross spacers in the joints between terrace slabs when laying on grit or gravel beds. The spacers ensure both a uniform appearance and adequate drainage of rainwater in the substrate. The wings can easily be snapped off for staggered or border installation.

Tile spacers – height: 11 mm, for ceramic tiles

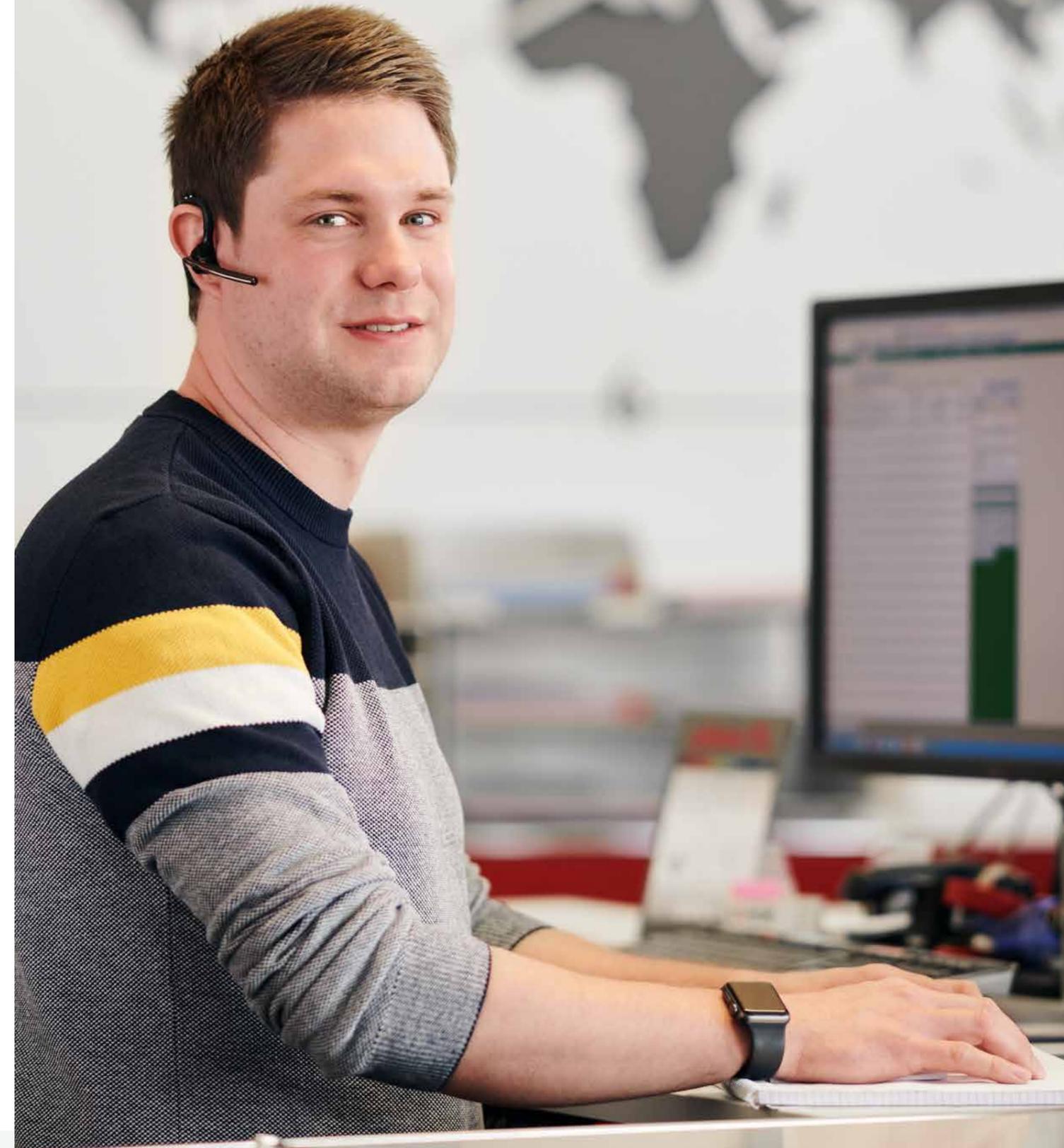


Tile spacers – height: 11 mm, for ceramic tiles				
Item No.	Number of wings	Cross width	Color	PU
100505	4 wings	3 mm	Black with support	300
100512	4 wings	3 mm	Transparent with support	
100529	4 wings	4 mm	Black with support	
100536	4 wings	4 mm	Transparent with support	
100543	4 wings	5 mm	Black with support	
100550	4 wings	5 mm	Transparent with support	

Tile spacers for safely laying ceramic tile terraces

A simple way to achieve even and non-moving terrace joints by placing tile spacers in the joints between ceramic tiles or other thin, light slabs when laying on grit or gravel beds. The tile spacers ensure both a uniform appearance and adequate drainage of rainwater in the substrate. The wings can easily be snapped off for staggered or border installation.

Get advice now



Roof systems:
That's how it's done.



Quality in every detail.

Flexible outlet vent connection/flexible tube for reliable building ventilation, protection from birds and shingle ventilation.

Solutions for steep roofs Learn more about our ventilator and bird deterrent products for steep roofs.

The original red flexible tube 56
Flexible outlet vent connection for connecting all conventional aeration and ventilation systems.

Ventilators for bitumen shingle roofs 57
Roof structure ventilation

Bird deterrent "bird spikes", transparent 58
Animal-friendly bird deterrent ledge with rounded spike ends.

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The original red flexible tube



The original red flexible tube				
Item No.	Material	Technical information		PU
200014	PVC, UV-resistant	Length 50 cm	DN 70/100	10
200083		Length 100 cm	DN 70/100	6
200144		Length 60 cm	D 125 (DN 125)	10

Ready-to-install flexible tube for connection to all standard roof fans

Easy and reliable connection of roof fans and ventilation ducts that end in buildings with the highly flexible tube. Capable of handling heavy conduits whilst maintaining the full cable cross-section. The pre-assembled hose clamps can be used to attach the free hose end to the air duct.

Ventilators for bitumen shingle roofs

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Ventilators for bitumen shingle roofs			
Item No.	Color	Technical information	PU
200120	Black	180 cm ² ventilation UV-resistant	10
200151	Brown		
200182	Red		
200212	Gray		

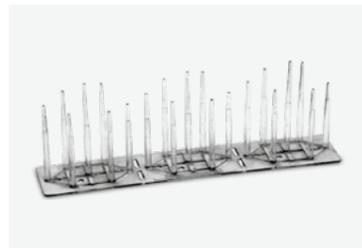
Dunstrohranschluss Black			
Item No.	Material	Technical information	PU
200243	PVC, UV-resistant	DN 50 / 70 / 100 Length 30 cm	1

Accessory suitable for shingle roof fans

The ideal vent for roof construction or building ventilation, with optional outlet vent connections for shingle roofs

The shingle vent is an easy-to-install element for effective ventilation of steep roof spaces covered with bitumen shingles. The clip-on flexible vapour pipe is capable of diverting exhaust air from the building interior in a simple yet well-sealed manner. The roof's appearance remains uniform thanks to uniform use as a vent or vapour pipe.

Bird deterrent “bird spikes”



Bird deterrent “bird spikes”				
Item No.	Material	Technical information		PU
200915	PC polycarbonate, crystal clear, UV resistant	L 25 x W 5 cm	Screw-in or glue-on	50

In order to protect buildings and other structures from bird droppings or nesting, KALA bird spikes offer an animal-friendly alternative to potentially harmful deterrent ledges with wire tips. The spiked elements prevent approaching birds, particularly pigeons, from landing and force them to fly elsewhere, significantly reducing the pollution and contamination of buildings caused by birds. The bird deterrent is made from transparent polycarbonate and is therefore weatherproof and UV-resistant. The transparent design ensures that the bird spikes have a minimal impact on the structure's overall appearance.



Customer service – That's how it's done.

Customer service is our number one priority, and not just in terms of quick delivery or instructions for the optimum installation of our products. We are happy to provide advice, instructions and general information!

Good advice is always free at KALA

Our services don't stop at great products. Are you a planner or project developer looking for the right products for your project? Or do you need some tips on how to select and use our products? Get in touch today.

Quick solutions for every issue

Do you have a question that requires a consultation and quick resolution? Get in touch with us for competent advice. We can also provide quick solutions for minor details such as express delivery, product queries or installation recommendations!

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Achieve your goals with competent advice

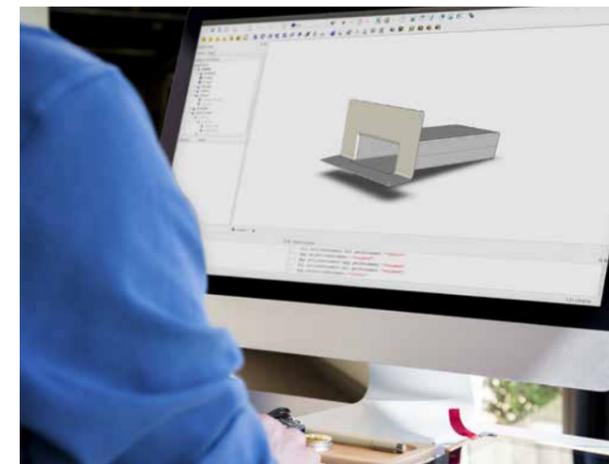


Customer service: That's how it's done.



Your partner for roof and terrace products

The search for a competent supplier for your roof and terrace product range ends with us: Gain an experienced OEM partner at your side. We can manufacture roof and terrace products for you and your brand from the range found on our website – we can also develop customised solutions to meet your requirements. Always with the top quality that your customers deserve.



Your partner for customised solutions

Are you a planner looking for a partner who not only provides reliable and effective products for flat roofs and terrace construction, but also offers customised solutions for specific requirements? Look no further! We are happy to make modifications to products found in our existing portfolio according to your requirements, or we can use our expertise to design entirely new products for your individual project. Take advantage of our expert advice for architects and planners: get in touch with us today!



Your partner for construction support

Our products may be self-explanatory, but sometimes a quick tip or two on how to use them properly can be a great help. We are happy to provide assistance with technical questions on our products: Give us a call or write an email and let us know about the issue. We'll take care of it, we promise!

KALA offers customers more than just great products: We are a reliable partner from the get go. Contact us to arrange a consultation.

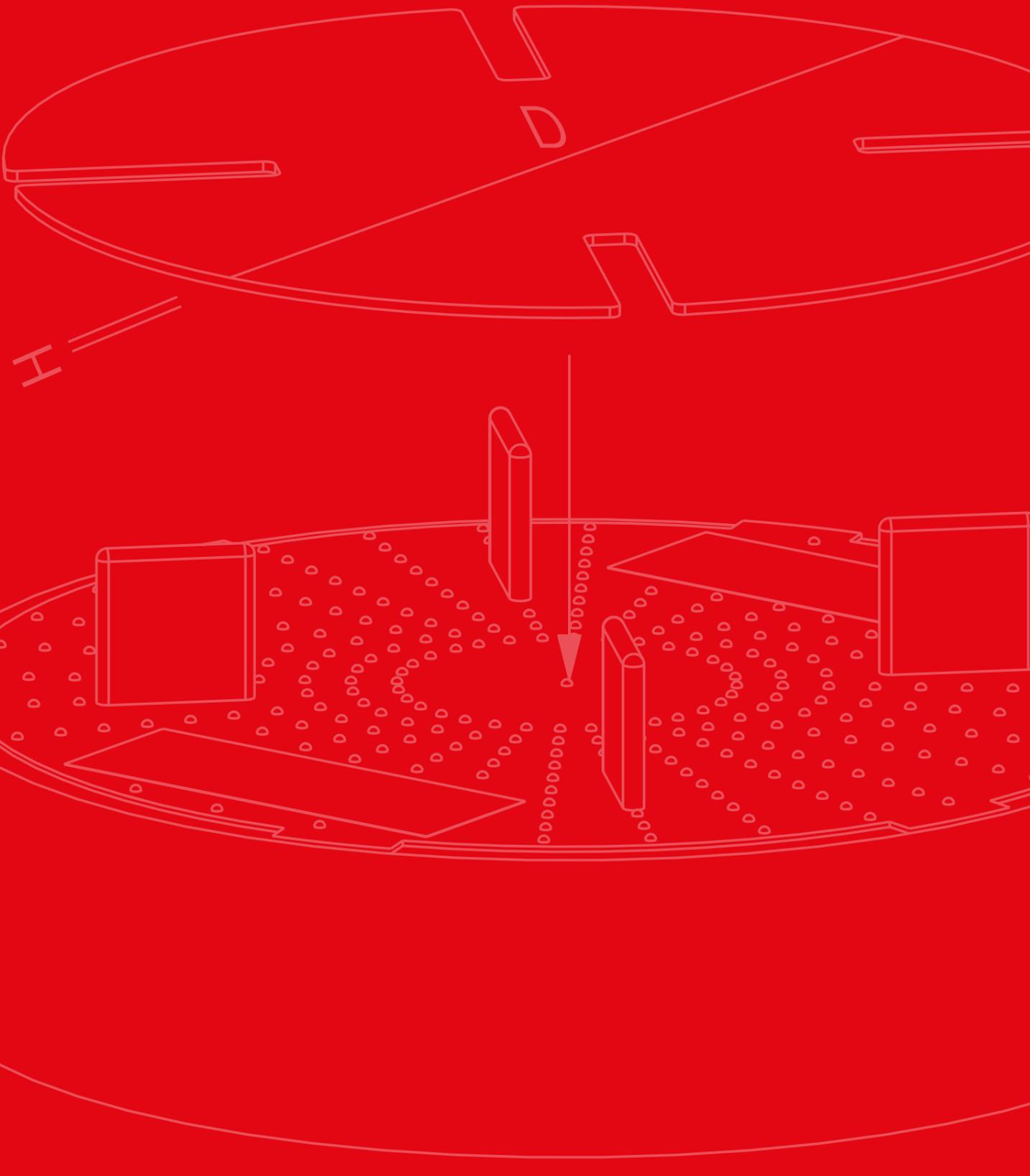
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Data sheets



... Tender text KALA supports

	Quantity unit	Price per unit	Total amount
Item ... Laying slabs on KALA terrace supports, height-adjustable H1 (28 - 42 mm) / H2 (40 - 70 mm) and KALA pressure disc Ø 250 mm across the surface	_____ m ²	_____ €	_____ €
Sourcing reference: KALA - KUNSTSTOFFE Karl-Heinz Lange GmbH+Co.KG +49 7423 8687 600 info@kala.de			
Item ... Cutting and laying the panels in the edge area	_____ lin. m	_____ €	_____ €

... Variants

- **No or minimal height differences:**

Laying on KALA terrace supports that can be placed underneath (height compensation with compensation elements).

- **Compensation for greater heights or steep gradients:**

Laying KALA terrace supports H-MAX MultiLevel (4 variants from 62 - 227 mm).

- **Pressure-resistant substrate, only protection of the seal necessary:**

If the substrate is pressure-resistant (concrete, screed, foam glass, PUR rigid foam under the seal), laying with the small Ø 200 mm pressure compensating disc is possible.

Needs assessment	
Panel size:	Number of supports / sqm:
30 x 30 cm	11,11
40 x 40 cm	6,25
40 x 60 cm	4,17
50 x 50 cm	4,00
60 x 60 cm	2,78
70 x 70 cm	2,04

Renovation drain

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The renovation drain, consisting of a base body with a gravel basket and lip seal, is the solution for aging roof drains in need of renovation. The vertical pipe with the attached lip seal is inserted into the existing old drain. The flange of the renovation drain provides a secure connection for the waterproofing membrane.

Material:

Variants in PVC, FPO/PP¹, and BIT for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant: UV-stabilised, against heat degradation and oxidative ageing as well as resistant to cold impact. Alternatively, available with a welded connection sleeve from the Nexo Fix product line for easy attachment to the appropriate roof membrane.

Available sizes²:

- D 50 mm (DN 50)
- D 95 mm
- D 125 mm (DN 125)
- D 75 mm (DN 70)
- D 110 mm (DN 100)
- D 160 mm (DN 150)

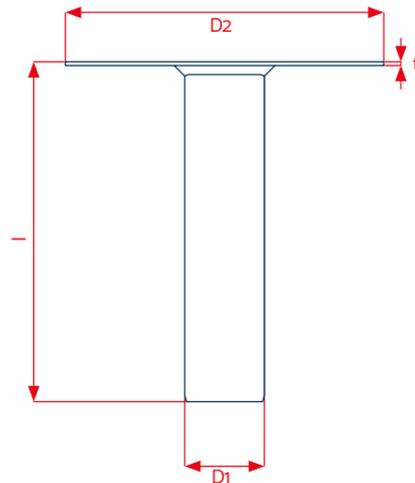
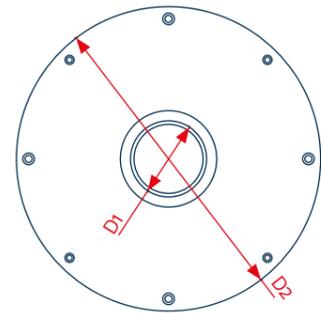
Package units:

Supplied in cartons, PU 1 unit

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	3.70 litre/sec.	N/A
D 75 mm (DN 70)	4.60 litre/sec.	13.20 litre/sec.
D 110 mm (DN 100)	5.55 litre/sec.	15.80 litre/sec.
D 125 mm (DN 125)	5.55 litre/sec.	16.00 litre/sec.
D 160 mm (DN 150)	5.60 litre/sec.	18.60 litre/sec.



Technical data		
D1	50 / 75 mm	95 / 110 / 125 / 160 mm
D2	300 mm	380 mm
l	320 mm ¹	320 mm ¹
t	3.5 mm	3.5 mm
Foil connection (FC)	D 50 mm (DN 50) to D 75 mm (DN 70)	L 500 x W 500 mm
Foil connection (FC)	D 90 mm to D 160 mm (DN 150)	L 580 x W 580 mm

¹Alternatively available in PE (roof membranes based on PE)
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Drain

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for vertical drainage through the roof assembly. Installation with connection to a piping system for water discharge or as an extension element for a roof drain. Ensure adequate backflow protection.

Material:

Our drains are available in PVC, FPO/PP² and BIT for connection to the matching material used for the roof membrane. The materials are modified to be weather-resistant: UV-stabilised, against heat degradation and oxidative ageing as well as resistant to cold impact.

Available sizes³:

- D 50 mm (DN 50)
- D 95 mm
- D 160 mm (DN 150)
- D 75 mm (DN 70)
- D 110 mm (DN 100)
- D 90 mm
- D 125 mm (DN 125)

Package units:

Supplied in cartons, PU 1 unit

Accessories⁴:

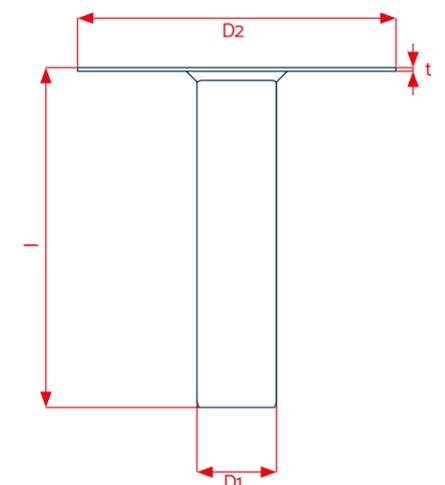
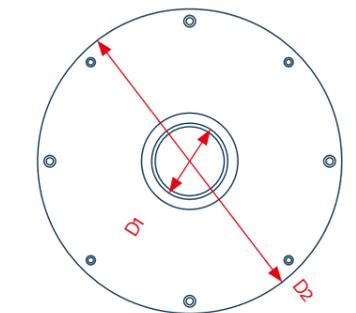
- Gravel basket
- Lip seal

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	3.70 litre/sec.	N/A
D 75 mm (DN 70)	4.60 litre/sec.	13.20 litre/sec.
D 90 mm	5.30 litre/sec.	14.60 litre/sec.
D 110 mm (DN 100)	5.55 litre/sec.	15.80 litre/sec.
D 125 mm (DN 125)	5.55 litre/sec.	16.00 litre/sec.
D 160 mm (DN 150)	5.60 litre/sec.	18.60 litre/sec.

¹Special lengths available on request / ²Alternatively available in PE (roof membranes based on PE) / ³Other diameter sizes available on request / ⁴Alternatively also available with accumulation ring
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Technical data		
D1	50 / 75 mm	90 / 95 / 110 / 125 / 160 mm
D2	300 mm	380 mm
l	320 mm ¹	320 mm ¹
t	3.5 mm	3.5 mm

Scupper, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for horizontal drainage through the parapet. Installation with connection to a piping system for water discharge or free outflow. When used for emergency drainage, the exact installation point must be determined based on the water level.

Material:

Variants in PVC, FPO/PP², and BIT for connection to the corresponding compatible material type of the roof membrane. The materials are weather-resistant and modified: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes:

- D 50 mm (DN 50)
- D 63 mm
- D 75 mm (DN 70)
- D 90 mm
- D 110 mm (DN 100)
- D 125 mm (DN 125)³

Package units:

Supplied in cartons, PU 1 unit

Accessories⁴:

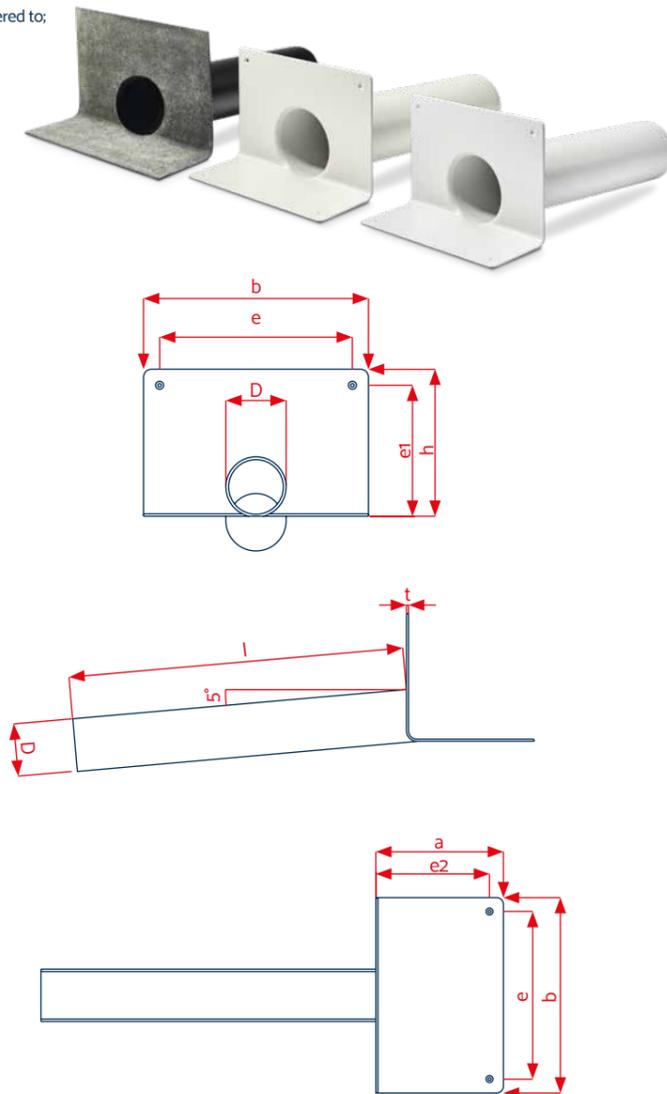
- Gravel basket
- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	0.51 litre/sec.	1.31 litre/sec.
D 63 mm	N/A	N/A
D 75 mm (DN 70)	0.65 litre/sec.	1.65 litre/sec.
D 90 mm	0.65 litre/sec.	1.90 litre/sec.
D 110 mm (DN 100)	1.00 litre/sec.	2.65 litre/sec.
D 125 mm (DN 125) ³	1.00 litre/sec.	2.80 litre/sec.

Technical data	
D	50 / 63 / 75 / 90 / 110 / 125 mm ³
l	480 mm ¹
a	112 mm
b	280 mm
h	186 mm
e	240 mm
e1	166 mm
e2	92 mm
t	3 mm
Pipe inclination 5°	



¹Special lengths available on request / ²Alternatively available in PE (roof membranes based on PE) / ³Attention: Please note that the technical dimensions and visual representation may differ from the illustration / ⁴Alternatively also available with accumulation ring
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Scupper BIT XL, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part with a laminated bitumen connection sleeve for horizontal drainage through the parapet. The large dimensions of 470 x 500 mm ensure a secure connection in all installation scenarios. Installation with connection to a piping system for water discharge or free outflow. When used for emergency drainage, the exact installation point must be determined based on the water level.

Material:

FPO/PP modified with a permanently laminated bitumen connection sleeve. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes:

- D 50 mm (DN 50)
- D 63 mm
- D 75 mm (DN 70)
- D 90 mm
- D 110 mm (DN 100)
- D 125 mm (DN 125)²

Package units:

Supplied in cartons, PU 1 unit

Accessories³:

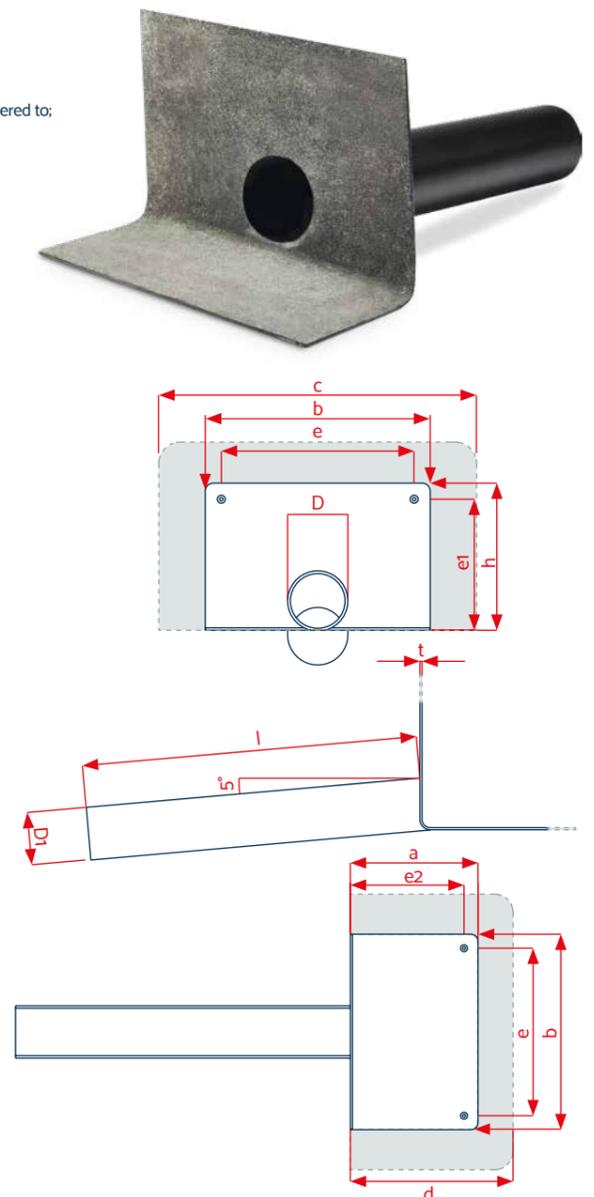
- Gravel basket
- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	0.51 litre/sec.	1.31 litre/sec.
D 75 mm (DN 70)	0.65 litre/sec.	1.65 litre/sec.
D 90 mm	0.65 litre/sec.	1.90 litre/sec.
D 110 mm (DN 100)	1.00 litre/sec.	2.65 litre/sec.
D 125 mm (DN 125) ²	1.00 litre/sec.	2.80 litre/sec.

Technical data	
D	50 / 63 / 75 / 90 / 110 / 125 mm
l	480 mm ¹
a	112 mm
b	280 mm
c	470 mm
d	500 mm
h	186 mm
e	240 mm
e1	166 mm
e2	92 mm
t	3 mm
Pipe inclination 5°	



¹Special lengths available on request / ²Attention: Please note that the technical dimensions and visual representation may differ from the illustration / ³Alternatively also available with accumulation ring
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Scupper, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for horizontal drainage or emergency drainage through the parapet. When installing, the exact installation point must be determined based on the water level.

Material:

Variants in PVC and FPO/PP² for connection to the corresponding compatible material type of the roof membrane. Make the connection for bituminous seals using liquid plastic. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes (W x H – Internal dimensions)^{1,2}:

- 120 x 60 mm • 300 x 80 mm • 500 x 100 mm • 750 x 100 mm
- 180 x 80 mm • 300 x 100 mm • 600 x 100 mm • 1000 x 100 mm

Available length (l):

- 300 mm • 600 mm

Colors:

- PVC similar to RAL 7047, Telegrey 4
- FPO/PP similar to RAL 7044, Silk grey

Package units:

Supplied in cartons, PU 1 unit

Accessories³:

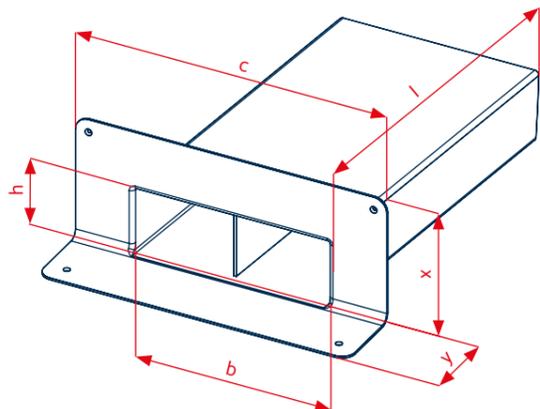
- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Duct = W x H ¹	Accumulation height	
	35 mm	65 mm
120 x 60 mm	1.30 litre/sec.	3.50 litre/sec.
180 x 80 mm	1.90 litre/sec.	5.00 litre/sec.
300 x 80 mm	3.00 litre/sec.	7.80 litre/sec.
300 x 100 mm	3.00 litre/sec.	7.80 litre/sec.
500 x 100 mm	5.50 litre/sec.	13.40 litre/sec.
600 x 100 mm	7.20 litre/sec.	10.83 litre/sec.
750 x 100 mm	7.50 litre/sec.	19.20 litre/sec.
1000 x 100 mm	12.60 litre/sec.	29.40 litre/sec.

¹Special sizes available on request / ²Alternatively available in PE (roof membranes based on PE) / ³Alternatively also available with accumulation ring
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Technical data					
Duct = W x H	b	h	c	x	y
120 x 60 mm	120 mm	60 mm	300 mm	150 mm	90 mm
180 x 80 mm	180 mm	80 mm	360 mm	170 mm	90 mm
300 x 80 mm	300 mm	80 mm	480 mm	170 mm	90 mm
300 x 100 mm	300 mm	100 mm	480 mm	190 mm	90 mm
500 x 100 mm	500 mm	100 mm	680 mm	190 mm	90 mm
600 x 100 mm	600 mm	100 mm	780 mm	190 mm	90 mm
750 x 100 mm	750 mm	100 mm	930 mm	190 mm	90 mm
1000 x 100 mm	1000 mm	100 mm	1180 mm	190 mm	90 mm

Pipe inclination 5° in each case

Emergency overflow, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for horizontal emergency drainage through the parapet. Installation with connection to a piping system for water discharge or free outflow. When installing, the exact installation point must be determined based on the water level.

Material:

Variants in PVC, FPO/PP², and BIT for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes:

- D 50 mm (DN 50) • D 110 mm (DN 100)
- D 63 mm • D 125 mm (DN 125)
- D 75 mm (DN 70)

Package units:

Supplied in cartons, PU 1 unit

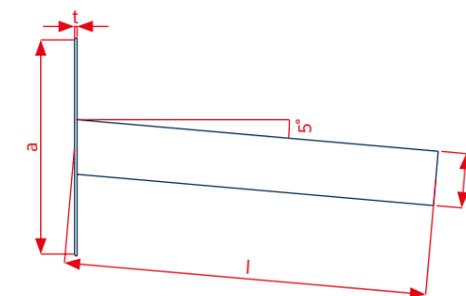
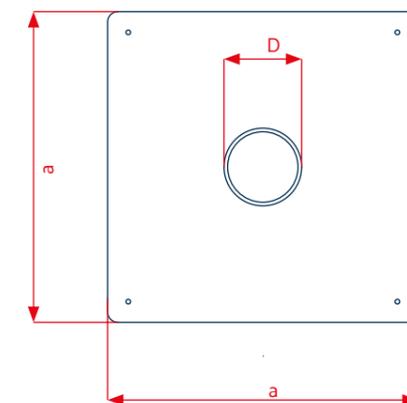
Accessories:

- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	0.51 litre/sec.	1.31 litre/sec.
D 75 mm (DN 70)	0.65 litre/sec.	1.65 litre/sec.
D 110 mm (DN 100)	1.00 litre/sec.	2.65 litre/sec.
D 125 mm (DN 125)	1.00 litre/sec.	2.80 litre/sec.



Technical data	
D	50 / 63 / 75 / 110 / 125 mm
a	300 mm
l	490 mm ¹
t	3,0 mm
Pipe inclination 5°	

¹Special lengths available on request / ²Alternatively available in PE (roof membranes based on PE)
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Emergency overflow, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.



Function:

Molded part for horizontal drainage or emergency drainage through the parapet. When installing, the exact installation point must be determined based on the water level.

Material:

Variants in PVC and FPO/PP² for connection to the corresponding compatible material type of the roof membrane. Make the connection for bituminous seals using liquid plastic. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes (W x H – Internal dimensions) ¹:

- 120 x 60 mm • 300 x 80 mm • 500 x 100 mm • 750 x 100 mm
- 180 x 80 mm • 300 x 100 mm • 600 x 100 mm • 1000 x 100 mm

Available length (l):

- 300 mm • 600 mm

Colors:

- PVC similar to RAL 7047, Telegrey 4
- FPO/PP similar to RAL 7044, Silk grey

Package units:

Supplied in cartons, PU 1 unit

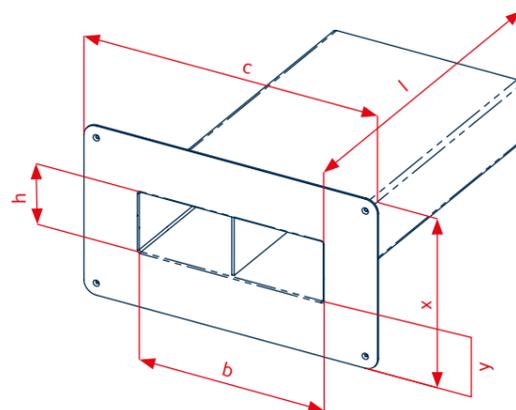
Accessories:

- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Duct = W x H	Accumulation height	
	35 mm	65 mm
120 x 60 mm	130 litre/sec.	3.50 litre/sec.
180 x 80 mm	1.90 litre/sec.	5.00 litre/sec.
300 x 80 mm	3.00 litre/sec.	7.80 litre/sec.
300 x 100 mm	3.00 litre/sec.	7.80 litre/sec.
500 x 100 mm	5.50 litre/sec.	13.40 litre/sec.
600 x 100 mm	7.20 litre/sec.	10.83 litre/sec.
750 x 100 mm	7.50 litre/sec.	19.20 litre/sec.
1000 x 100 mm	12.60 litre/sec.	29.40 litre/sec.



Technical data					
Duct = W x H	b	h	c	x	y
120 x 60 mm	120 mm	60 mm	300 mm	240 mm	90 mm
180 x 80 mm	180 mm	80 mm	360 mm	260 mm	90 mm
300 x 80 mm	300 mm	80 mm	480 mm	260 mm	90 mm
300 x 100 mm	300 mm	100 mm	480 mm	280 mm	90 mm
500 x 100 mm	500 mm	100 mm	680 mm	280 mm	90 mm
600 x 100 mm	600 mm	100 mm	780 mm	280 mm	90 mm
750 x 100 mm	750 mm	100 mm	930 mm	280 mm	90 mm
1000 x 100 mm	1000 mm	100 mm	1180 mm	280 mm	90 mm

Pipe inclination 5° in each case

¹Special sizes available on request / ²Alternatively available in PE (roof membranes based on PE)
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

... Tender text Drainage / emergency drainage, rectangular

	Quantity unit	Price per unit	Total amount
Item ... Rectangular emergency overflow made of PVC , with LGA-tested drainage capacity, pipe cross-section internal dimensions: W mm x H mm, pipe length mm, panel thickness 4 - 5 mm with 90° angled tray, pipe inclination 5°: deliver, install and professionally connect to sealing.	_____ pieces	_____ €	_____ €
Proof of reference: KALA – KUNSTSTOFFE Karl-Heinz Lange GmbH+Co.KG +49 7423 8687 600 info@kala.de			
Item ... Rectangular emergency overflow made of FPO/PP¹ , with LGA-tested drainage capacity, pipe cross-section internal dimensions: W mm x H mm, pipe length mm, panel thickness 4 - 5 mm with 90° angled tray, pipe inclination 5°: deliver, install and professionally connect to sealing.	_____ pieces	_____ €	_____ €
Proof of reference: KALA – KUNSTSTOFFE Karl-Heinz Lange GmbH+Co.KG +49 7423 8687 600 info@kala.de			
Attention: Please add your internal dimensions to the fields marked with _____.			

¹Alternatively available in PE (roof membranes based on PE)

Installation guide for KALA – drainage and emergency drainage elements

1. Position the element in the parapet, opening or ceiling hole provided by the customer and fix into place.
Check the gap from the pipe to the wall and fill, if necessary.
Make sure to fix the installation holes in place!
2. Pre-treating the surface: The tray and membrane to be applied must be clean, dry and free from any residues such as grease or silicones.
3. The roof membrane then needs to be correctly connected to the element tray in line with the Flat Roof Directive ["Flachdachrichtlinien"] and the installation guidelines published by the manufacturer.
4. Suitable liquid plastic seals must be used to connect the bituminous seals of rectangular emergency overflows or scuppers.
5. The trays with the bitumen connection must be set down horizontally on a flat surface to ensure proper storage of the BIT drains and grommets. We do not assume any liability for damage, e.g. delays, incurred by improper storage.

Flat roof fans for ventilation lines with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The flat roof fan is used for ventilation purposes:

- Ventilation of bathrooms and toilets without outside windows
- Wastewater aeration and ventilation
- Ventilation of extractor hoods in kitchens
- Controlled ventilation of the home

Installation:

Align the fan on the underlay and secure it in position at four points on the underlay using the holes drilled into the edge of the tray.
Place the membrane on the tray and join the membrane and the tray with a weld seam at least 20 mm wide.

Material:

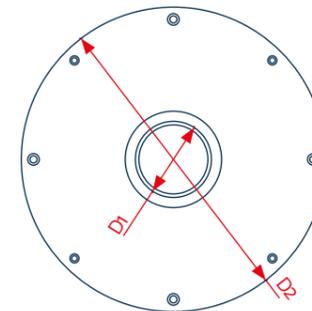
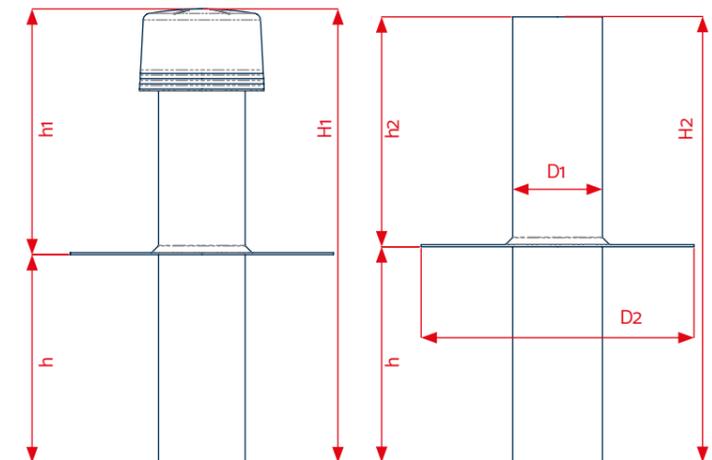
Our fans are available in PVC and FPO/PP² for connection to the matching material used for the roof membrane. The materials are modified to be weather-resistant: UV-stabilised, against heat degradation and oxidative ageing as well as resistant to cold impact.

Available sizes¹:

- D 75 mm (DN 70)
- D 125 mm (DN 125)
- D 110 mm (DN 100)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Technical data	
H1 (with cap)	654 mm
H2 (without cap)	620 mm
D1 (D Pipe)	D 75 mm (DN 70) / D 110 mm (DN 100) / D 125 mm (DN 125) / D 160 mm (DN 150)
D2 (D Sheet)	For size D 75 mm (DN 70) = 300 mm For all others = 380 mm
h1 (with cap)	354 mm
h2 (without cap)	320 mm
h	300 mm

¹Special lengths available on request / ²Alternatively available in PE (roof membranes based on PE)
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Flat roof fans for cold roofs with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

- Ventilation and aeration of flat roof structures
- For moisture removal and drying of a saturated roof assembly

Installation:

Align the vent on the substrate and securely fasten it at four points in the substrate using the holes at the edge of the flange. Guide the membrane onto the flange and connect the membrane and flange with a weld seam width of at least 20 mm. For the BIT variant, properly integrate the factory-laminated bitumen connection into the multilayer waterproofing system.

Material:

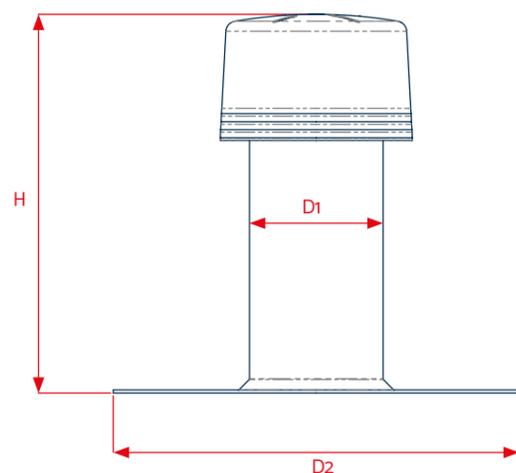
Variants in PVC, FPO/PP², and BIT for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes¹:

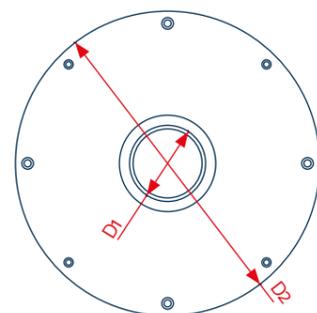
- D 75 mm (DN 70)
- D 125 mm (DN 125)
- D 110 mm (DN 100)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Technical data	
H	354 mm ¹
D1	D 75 mm (DN 70) / D 110 mm (DN 100) / D 125 mm (DN 125) / D 160 mm (DN 150)
D2	For size D 75 mm (DN 70) = 300 mm For all others = 380 mm



¹Special lengths available on request /²Alternatively available in PE (roof membranes based on PE)
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Flat roof refurbishment fans with forced ventilation

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

- Moisture removal, forced ventilation of roof structures
- For a drenched roof package for moisture removal and drying out

In this variant, a maintenance-free suction fan that is driven by the wind (achieves a very high air flow rate) is attached to the base body. The fan is resistant to driving rain and snow and is supplied completely ready for installation and can be welded directly to the roof membrane.

Installation:

Align the fan on the underlay and secure it in position at four points on the underlay using the holes drilled into the edge of the tray. Place the membrane on the tray and join the membrane and the tray with a weld seam at least 20 mm wide. For the BIT option, incorporate the factory-laminated bitumen connection into the multi-layer waterproofing composite in a workmanlike manner.

Material:

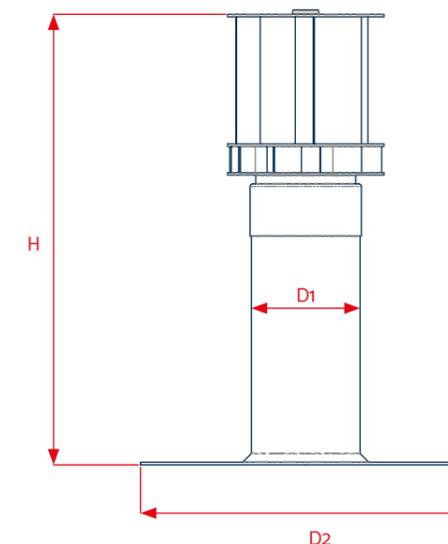
Our fans are available in PVC, FPO/PP² and BIT for connection to the matching material used for the roof membrane. The materials are modified to be weather-resistant: UV-stabilised, against heat degradation and oxidative ageing as well as resistant to cold impact. The suction fan attachment is made of high-quality aluminium.

Available sizes¹:

- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Technical data	
H	518 mm ¹
D1	D 125 mm (DN 125) / D 160 mm (DN 150)
D2	380 mm

¹Special lengths available on request /²Alternatively available in PE (roof membranes based on PE)
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Universal weather cap for flat roof fans

Function:

Weatherproof cover for ventilation ducts. Securing the ventilation duct with the KALA weather protection cap prevents snow and rain from entering. The streamlined cross-section facilitates the exchange of air.

The weather protection cap is simply pushed onto the ventilation duct and pressed tight. The guide pins are designed for connection to DN 100 and DN 125 ventilation ducts. The design provides for a secure hold of the cap on the duct.

Material:

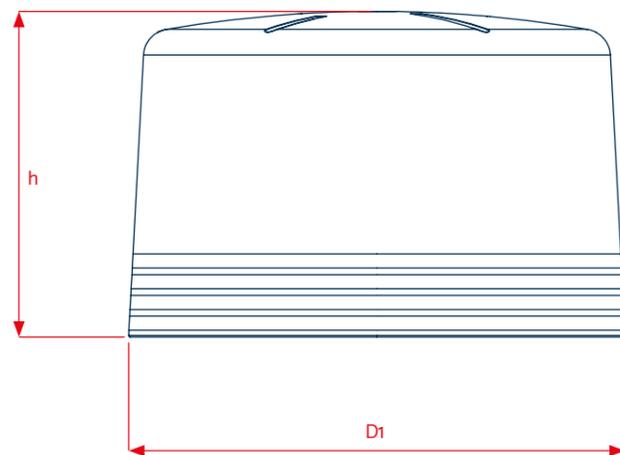
FPO/PP, impact resistant, weatherproof, UV-stabilized

Versions:

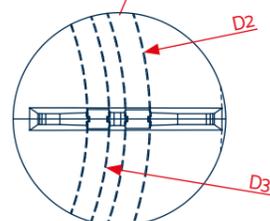
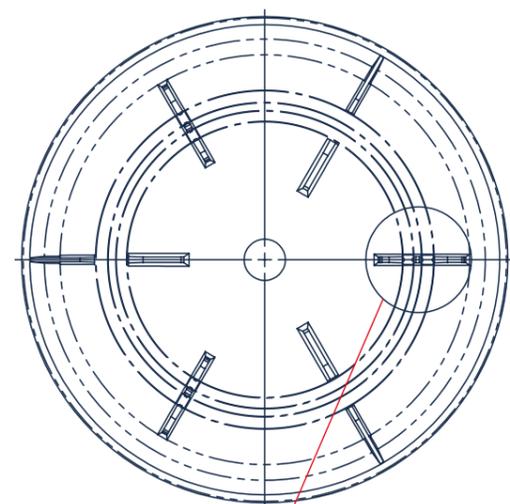
- Suitable for use with D110 (DN 100) and D 125 mm (DN 125)^{1,2}
- Color Black

Package units:

Supplied in foil bags, PU 1 unit



Technical data	
h	118 mm
D1	ø 180 mm
D2	ø 125 mm
D3	ø 110 mm



Slots for 2 different duct diameters

¹ Other diameter sizes available on request

² **Attention:** Please note that the technical dimensions and visual representation may differ from the illustration
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes

Gravel basket Vario Fix variably adjustable for drains and gullies

Function:

Moulded part as attachment to a drain or gully. Serves to retain coarse dirt particles to stop the drainage system from clogging up. The LGA-certified, flow-optimised design ensures minimal loss of flow and high performance, even during torrential rain.

Installation:

The delivery is ready for installation. Place the gravel basket centrally on the drain or gully, press the locking button down and turn it to the right to lock - done. The spreading feet can be continuously adjusted to the diameter of the drain or gully with the turning mechanism. For later removal, simply turn the knob to the left again to unlock and pull out. When unlocked, the spreader feet can simply be pressed together again.

Material:

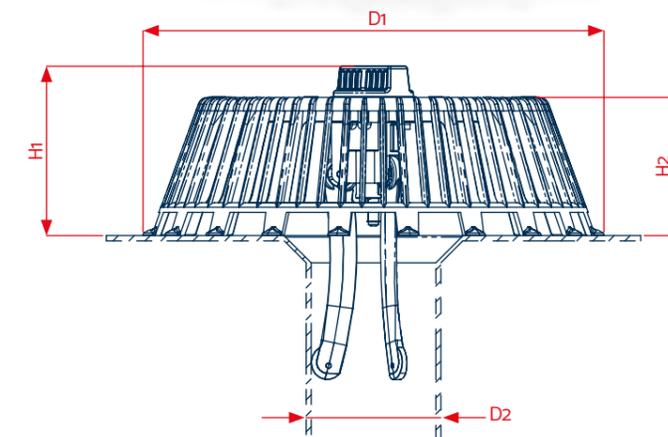
- PE Black
- Low-temperature impact resistant plastic, weatherproof, UV-stabilized

Available sizes:

Suitable for all diameters ranging from D 50 mm (DN 50) to D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 10 units



Technical data	
H1	95 mm
H2	77,5 mm
D1	262 mm
D2	D 50 mm (DN 50) - D 160 mm (DN 150)

Fixed in the blink of an eye:

1. Insert



2. Press



3. Lock



KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Gravel basket Vario Fix variably adjustable for scupper

Function:

Molded part as an attachment for downspouts. It serves to retain large dirt particles, preventing blockages in the drainage system. The flow-optimized geometry ensures low loss values and high flow throughput, even during heavy rainfall.

Installation:

The delivery is ready for installation. Place the gravel basket centrally on the scupperpout, press the locking button downwards, and turn it to the right to lock – done. The spreader feet can be continuously adjusted to the diameter of the scupperpout using the rotating mechanism. For later disassembly, simply turn the knob to the left to unlock and pull it out. The spreader feet can be easily pressed together again once unlocked.

Material:

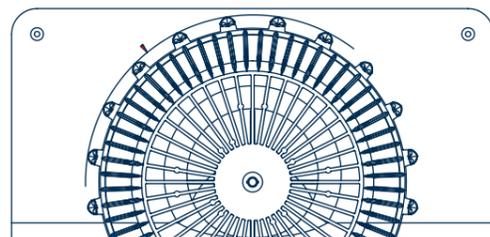
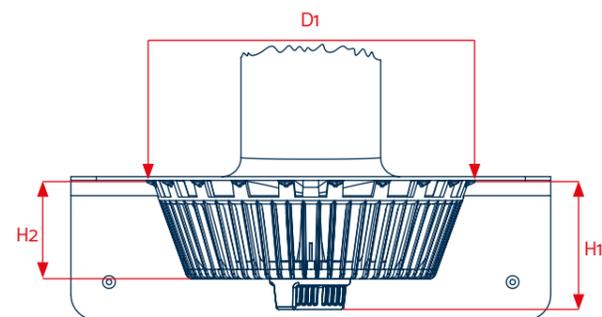
- PE Black
- Low-temperature impact resistant plastic, weatherproof, UV-stabilized

Available sizes:

- Suitable for all diameters ranging from D 50 mm (DN 50) to D 125 mm (DN 125)
- Specify desired size when ordering

Package units:

Supplied in cartons, PU 10 units



Technical data	
H1	95 mm
H2	77.5 mm
D1	262 mm

Gravel basket Classic with centering cross for drains and gullies

Function:

Moulded part as attachment to a drain or gully. Serves to retain coarse dirt particles to stop the drainage system from clogging up. The LGA-certified, flow-optimised design ensures minimal loss of flow and high performance, even during torrential rain.

Installation:

Shorten the four wings on the centering cross to match the inner diameter of the drain or gully, slightly oversize and simply press in. The cutting mark on all four wings makes it easy to cut them exactly to size. Fits all standard drains and gullies up to DN 150.

Material:

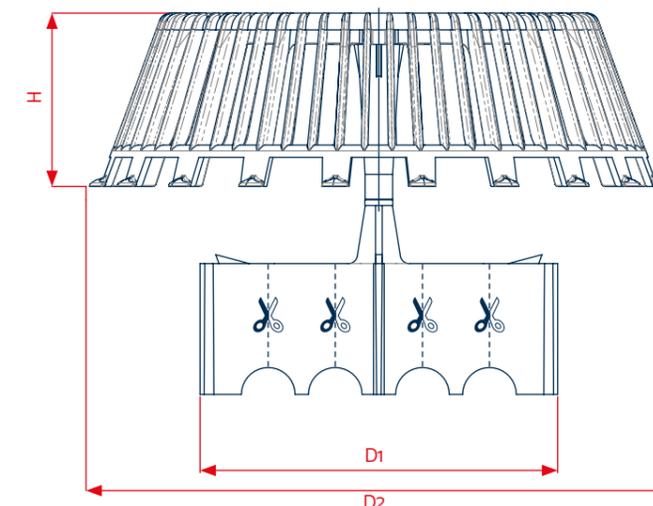
- PE Black
- Low-temperature impact resistant plastic, weatherproof, UV-stabilized

Available sizes:

Suitable for all diameters ranging from D 50 mm (DN 50) to D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 10 units



Technical data	
H	77.5 mm
D1	160 mm
D2	262 mm

Gravel basket Classic with centering cross for scupper

Function:

Molded part as an attachment for scuppers. It serves to retain large dirt particles, preventing blockages in the drainage system. The flow-optimized geometry ensures low loss values and high flow throughput, even during heavy rainfall.

Installation:

Simply insert – the centering cross for fastening the gravel basket is already pre-cut to fit.

Material:

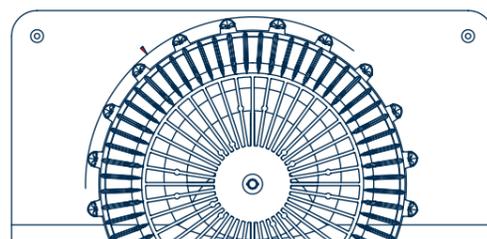
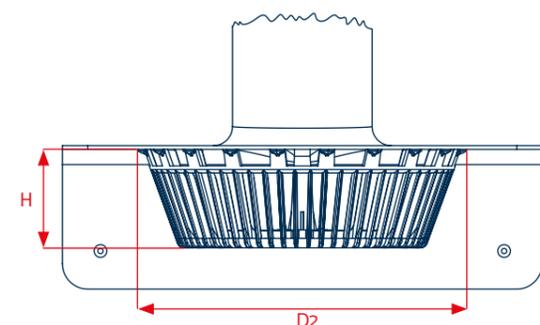
- PE Black
- Low-temperature impact resistant plastic, weatherproof, UV-stabilized

Available sizes:

- Suitable for all diameters ranging from D 50 mm (DN 50) to D 125 mm (DN 125)
- Specify desired size when ordering

Package units:

Supplied in cartons, PU 10 units



Technical data	
H	77,5 mm
D2	262 mm

Gravel guard frame

Function:

The gravel guard frame reliably retains coarse dirt for gravel and other loads, preventing it from accumulating at the drain. Even with significant dirt accumulation, the gravel guard frame ensures the functionality of the drain.

Installation:

The gravel guard frame is placed centrally on the drainage point above the drain. The drain grate is then inserted into the opening and clamped into place. The gravel is then pushed against the gravel guard frame on all sides to fix it in position.

Material:

PVC Light grey, low-temperature impact resistant plastic, weatherproof

Delivery unit:

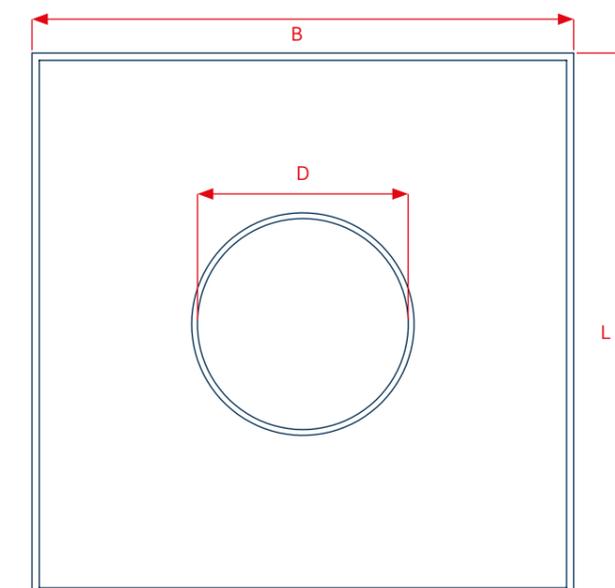
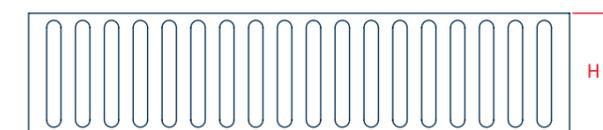
Gravel frame, welded construction, ready for installation, without gravel basket.

Versions:

Universal size; different dimensions available on request

Package units:

Supplied in cartons, PU 1 unit



Technical data	
L	380 mm
B	380 mm
H	84 mm
D	130 mm

Inspection chamber

Function:

The inspection chamber reliably retains coarse dirt on green roofs, preventing it from accumulating at the drain. Avoids larger dirt deposits while ensuring full drain functionality. The chamber cover can be removed for inspection purposes.

Installation:

The inspection chamber is placed centrally on the drainage point above the drain. The drain grate is then inserted into the opening and clamped into place. Following this, the chamber cover is placed on top. Gravel is then pushed against the inspection chamber on all sides to fix it into place and provide a filter layer in front of the green roof substrate. Do not fill the substrate directly against the inspection chamber.

Material:

PVC Light grey, low-temperature impact resistant plastic, weatherproof

Delivery unit:

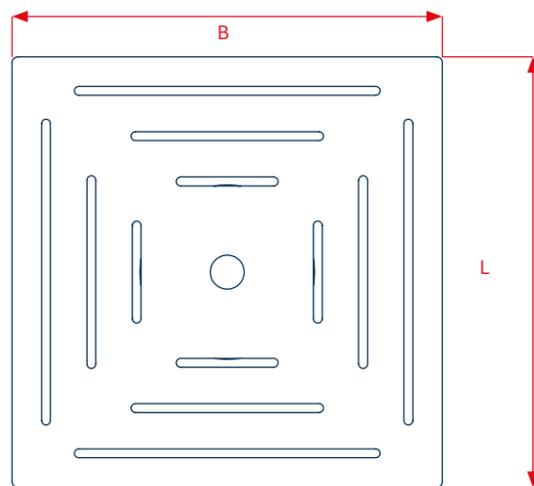
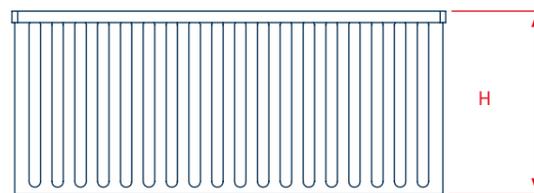
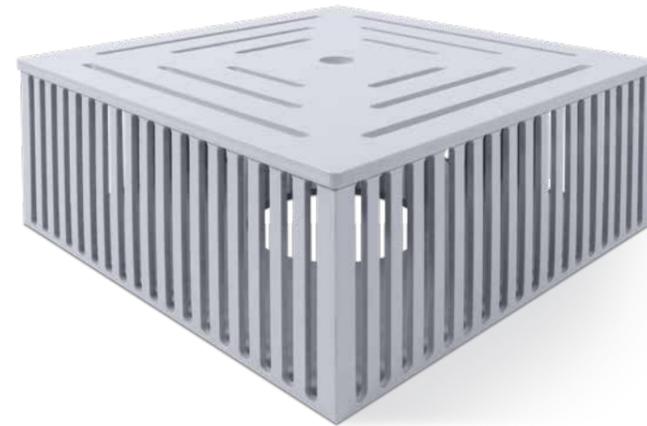
Inspection chamber; welded design with matching chamber cover, ready to install, without drain grate

Versions:

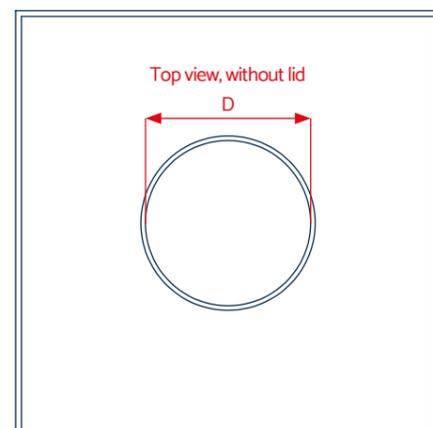
Universal size; different dimensions available on request

Package units:

Supplied in cartons, PU 1 unit



Technical data	
L	380 mm
B	380 mm
H	160 mm
D	147 mm



Lip seal for pipe connections

Function:

When connecting gullies to flat roof drains, these leak-tested, backflow-proof and compliant seals for connecting two different pipe diameters are ideal for sealing purposes.

Material:

- EPDM, rubber black
- UV and ozone resistant
- strong resilience to chemicals, temperature and footsteps

Available sizes:

- D 50 mm (DN 50)
- D 75 mm (DN 70)
- D 95 mm small
- D 95 mm large
- D 110 mm (DN 100)
- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons / foil bags, PU 1 unit



Technical data			
Lip seal	Size Drain	External dimensions	Suitable for
Lip seal Ø D 50 mm (DN 50)	D 50 mm (DN 50)	73 x 29 mm	D 75 mm (DN 70)
Lip seal Ø D 75 mm (DN 70)	D 75 mm (DN 70)	109 x 38 mm	D 110 mm (DN 100)
Lip seal Ø D 95 mm small	D 95 mm	113 x 19 mm	D 110 mm (DN 100)
Lip seal Ø D 95 mm large	D 95 mm	146 x 30 mm	D 125 mm (DN 125)
Lip seal Ø D 110 mm (DN 100)	D 110 mm (DN 100)	126 x 35 mm	D 125 mm (DN 125)
Lip seal Ø D 125 mm (DN 125)	D 125 mm (DN 125)	172 x 32 mm	D 160 mm (DN 150)
Lip seal Ø D 160 mm (DN 150)	D 160 mm (DN 150)	207 x 33 mm	D 165 to D 180 mm

Universal grommets

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

It is used for the passage of pipes, cables, and lines, such as solar thermal, photovoltaic, and lightning protection systems, as well as fall protection systems through the roof assembly.

Connection Method:

The open upper end must be sealed against the passing conduit, e.g., with the included heat shrink tubing, to prevent water ingress.

Material:

Variants in PVC, FPO/PP¹, and BIT² for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant; UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

- PVC Light grey, Anthracite gray
- FPO/PP White, Beige gray, Gray, Anthracite gray
- BIT sandet

Available sizes²:

PVC, FPO/PP¹, BIT with continuous cutting marks and height indicators

- D 10 mm
- D 20 mm
- D 30 mm
- D 42 mm
- D 50 mm

BIT

- D 68 mm
- D 82 mm
- D 100 mm
- D 115 mm
- D 150 mm

The delivery is generally made with heat-shrink tube

Package units:

PVC, FPO/PP¹

- D 10 mm in carton, PU 40 units
- D 20 mm in carton, PU 35 units
- D 30 mm in carton, PU 30 units
- D 42 mm in carton, PU 25 units
- D 50 mm in carton, PU 20 units

BIT

- D 10 mm - D 50 mm in carton, PU 10/60 units
- D 68 mm - D 150 mm in carton, PU 5 units

Accessories:

- Hose clamps



Technical data D 10 - D 50	
Height	300 mm
Inner diameter	10 mm
	20 mm
	30 mm
	42 mm
	50 mm
Material thickness of moulded part	3 mm
Connection sleeve (only BIT)	D 430 mm
Material thickness of bitumen sleeve	4 mm

Technical data D 68 - D 150	
Height	320 mm
Inner diameter	68 mm
	82 mm
	100 mm
	115 mm
	150 mm
Material thickness of moulded part	3.5 mm
Connection sleeve (only BIT)	470 x 500 mm
Material thickness of bitumen sleeve	4 mm

¹Alternatively available in PE (roof membranes based on PE) / ²Alternatively, also available as a custom-made version with slate
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

One-piece inspection fitting for flat roof systems

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The inspection fitting is used for regular, easy, and safe inspection of the flat roof without the need for destructive openings. Leaks can therefore be quickly detected, significantly reducing the extent of damage.

Installation:

For each selected section, the **inspection fitting** is ideally placed at the lowest point on the vapor barrier. Optionally, a layer fixation can be applied to prevent shifting. Then, the insulation is installed, and the waterproofing is applied with a proper connection of the waterproofing to the pipe of the inspection fitting.

Material :

Variants in PVC, FPO/PP, and BIT for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant; UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

- PVC similar to RAL 7035, Light grey
- FPO/PP similar to RAL 7044, Silk grey
- BIT sandet

Versions

- Also available in other pipe lengths, as well as with
- Bitumen sleeve (available upon request).

Delivery unit:

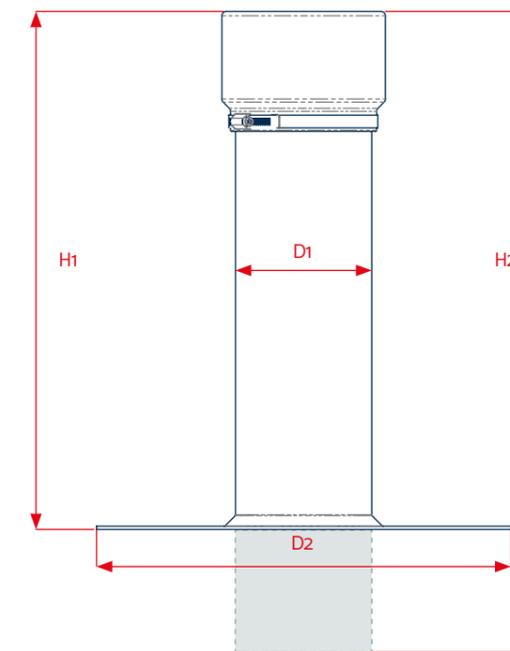
Inspection fitting, consisting of a base body with a removable closure cap, pre-assembled clamp, and an insulating core mounted in the cap (along the entire length of the fitting).

Available sizes¹:

D 125 mm (DN 125)

Package units:

Supplied in foil bags, PU 1 unit



Technical data	
H1	380 mm
H2 (with Styrofoam core)	605 mm
D1	125 mm
D2	380 mm

¹Alternatively also available in FPO/PE
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Gooseneck/ cable conduit



Function:

For optimal and straightforward energy feedthrough for flat roofs such as pipes or cables.
Can be used as a Gooseneck/cable conduit for flat roof fans.

Material:

- FPO/PP Black
- Low-temperature impact resistant plastic, weatherproof

Available sizes:

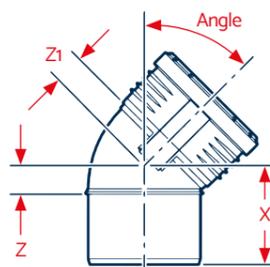
- D 75 mm (DN 70)
- D 110 mm (DN 100)
- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit

Accessories:

EPDM end cap to secure the opening against vermin and for increased weather protection requirements (cut a suitable undersized hole in the base of the cover, the material is elastic and forms a seal against cables or pipes that have been fed through - see detailed illustration).



Technical data				
Diameter	Angle	X	Z	Z1
D 75 mm (DN 70)	45°	7.6 cm	2.0 cm	2.1 cm
D 110 mm (DN 100)	45°	9.7 cm	3.0 cm	2.9 cm
D 125 mm (DN 125)	45°	10.7 cm	3.3 cm	3.3 cm
D 160 mm (DN 150)	45°	12.2 cm	4.2 cm	4.0 cm

Vapour barrier sheet for round and rectangular scuppers and emergency overflows

Function:

Emergency overflows or spouts are difficult to feed through the parapet wall. The seal is usually inadequate.
The vapour barrier plate is fitted to the parapet wall and guarantees the vapour-tight passage of the pipe through the wall.

Material:

- Base: PVC
- Sealing insert: EPDM foil

Available sizes:

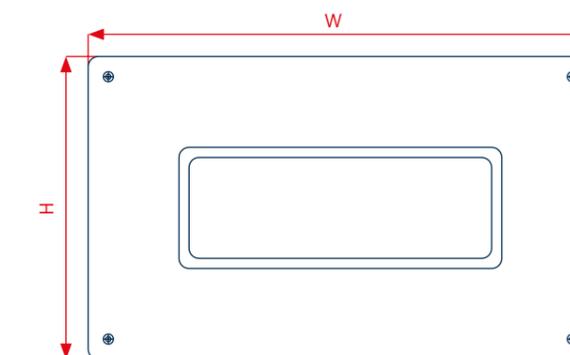
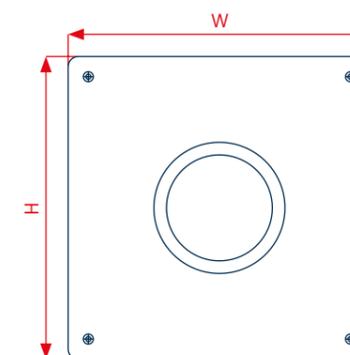
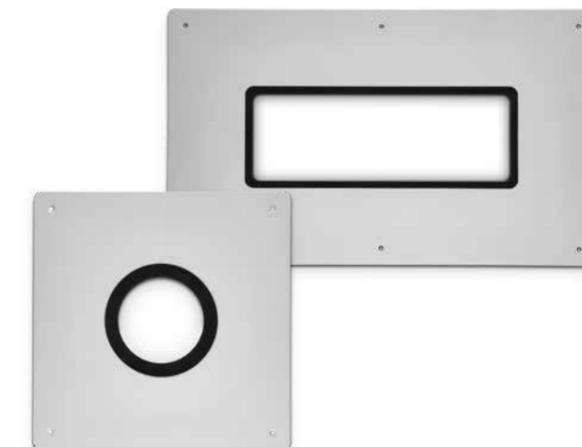
- round:**
- D 50 mm (DN 50)
 - D 75 mm (DN 70)
 - D 95 mm
 - D 110 mm (DN 100)
 - D 125 mm (DN 125)

rectangular:

- 120 x 60 mm
- 180 x 80 mm
- 300 x 80 mm
- 300 x 100 mm
- 500 x 100 mm
- 600 x 100 mm
- 750 x 100 mm
- 1000 x 100 mm

Package units:

Supplied in cartons, PU 1 unit



Technical data		
Version	Width W	Height H
D 50 mm (DN 50)	300 mm	300 mm
D 75 mm (DN 70)		
D 95 mm		
D 110 mm (DN 100)		
D 125 mm (DN 125)		

Technical data		
Version	Width W	Height H
120 x 60 mm	320 mm	260 mm
180 x 80 mm	380 mm	280 mm
300 x 80 mm	500 mm	280 mm
300 x 100 mm	500 mm	300 mm
500 x 100 mm	700 mm	300 mm
600 x 100 mm	800 mm	300 mm
750 x 100 mm	950 mm	300 mm
1000 x 100 mm	1200 mm	300 mm

Internal and external corners for roof membranes

Function:

Moulded part for connections and terminations in corner formations, can be used on both sides (see illustration).

Versions:

PVC Light grey, FPO/PP in White, Gray, Beige gray, and Anthracite gray for connection to the corresponding compatible material type of the roof membrane. The materials are modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Connection Method:

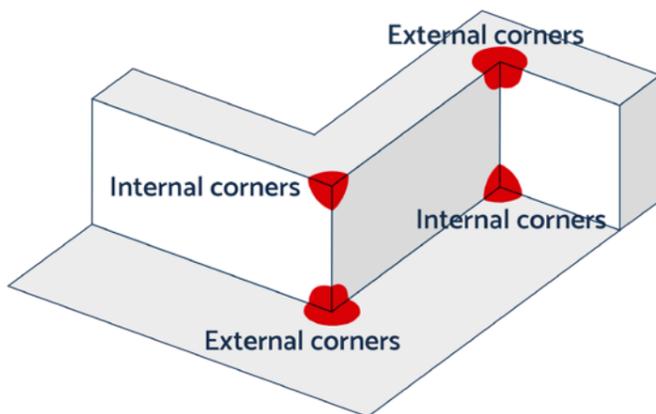
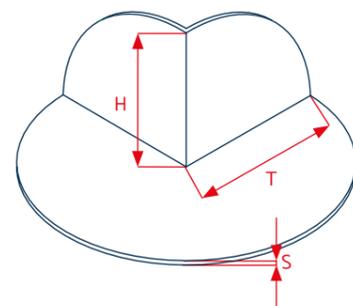
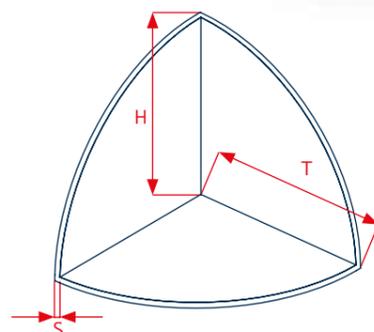
Welding, for direct connection to the roof membrane

Material :

- PVC Light grey
- FPO/PP White, Beige gray, Gray, Anthracite gray

Package units:

Versions Supplied in cartons, PU 25 units



Technical data		
	Internal corners	External corners
H	95 mm	102 mm
T	85 mm	90 mm
S	2 mm	2 mm

¹ Alternatively available in PE (roof membranes based on PE) (Internal corners)
² **Alternatively also available in anthracite gray, similar to RAL 7016.**
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Heat-shrink tube

Function:

Heat-shrinkable tubes with adhesive coating on the interior for the reliable sealing of the edging/bushings/solar/PV systems/fall arrest systems/lightning protection/handrail supports/...
 The shrink tubes can be shrunk directly using a hot air gun.

Technical information:

- Heat-shrinkable tubing based on polyolefin
- Inner adhesive coating
- Shrink ratio 3:1
- Longitudinal shrinkage < 10%
- Operating temperature range -55°C to +110°C
- Flammability: flame-retardant VW-1, highly flame-resistant
- Tensile strength > 14 MPa
- Elongation at break 400%
- Volume resistivity 10¹³ Ohm/cm
- Water absorption < 0.5%
- Tested for resistance to fungi and decay
- UV weathering resistance test passed
- Color: Black
- 22/6: 22 mm diameter before shrinking, 6 mm max. diameter after shrinking process

Available sizes:

- 22/6 mm
- 28/6 mm
- 40/12 mm
- 55/16 mm
- 65/19 mm
- 95/25 mm
- 115/34 mm
- 140/42 mm
- 180/58 mm

Package units:

Supplied in cartons / foil bags, PU 10 units

Accessories:

- Hose clamp



Technical data			
Size	Length	Surround size	Wall thickness after shrinkage
22/6 mm	8 cm	D 10 mm	2.5 mm
28/6 mm	8 cm	D 20 mm	2.5 mm
40/12 mm	8 cm	D 30 mm	2.5 mm
55/16 mm	8 cm	D 42 mm	2.7 mm
65/19 mm	8 cm	D 50 mm (DN 50)	2.8 mm
95/25 mm	10 cm	D 68 / 82 / 88 mm	3.0 mm
115/34 mm	10 cm	D 110 mm (DN 100)	3.0 mm
140/42 mm	10 cm	D 115 mm	3.0 mm
180/58 mm	10 cm	D 160 mm (DN 150)	3.5 mm

¹ Alternatively, other sizes and lengths are also available
 KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Lightning protection wire holders

Function:

For the simple and secure attachment of lightning protection lines on flat roofs

Material:

- Polyamide Gray
- Low-temperature impact resistant plastic, weatherproof, UV-stabilized
- Application temperature is between +50 °C and -10 °C

Available sizes:

For lightning protection lines 8 - 10 mm

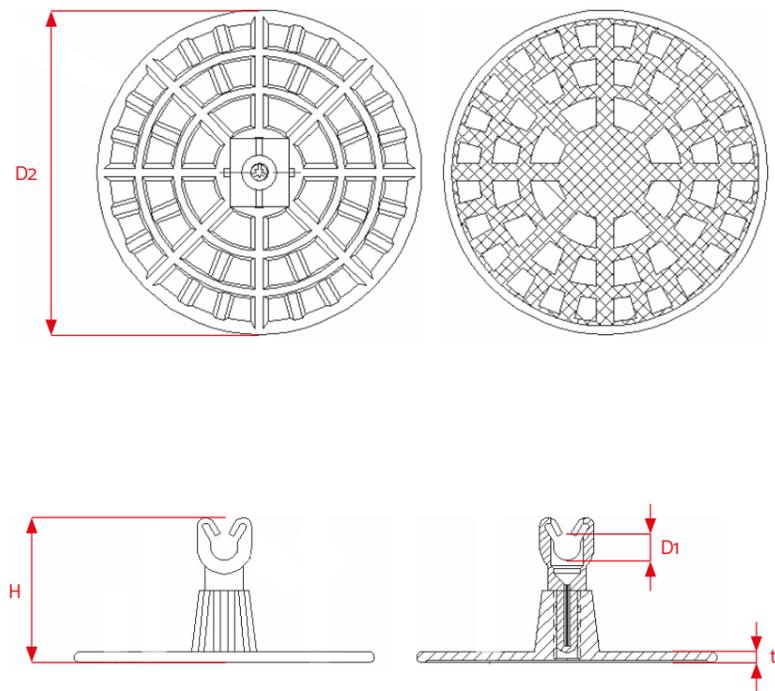
Package units:

Supplied in cartons, PU 50 units

Accessories:

Metal blank for attachment to the roof sheeting:

- PVC
- FPO/PP¹
- BIT sandet²



Technical data	
H	53 mm
D1	8 - 10 mm
D2	110 mm
t	3 mm

¹Alternatively available in PE (roof membranes based on PE) (Rondell)

²Alternatively, also available as a custom-made version with slate

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Renovation drain Nexo Fix

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The renovation scupper, consisting of a base body with a gravel basket and lip seal, is the solution for repairing old scuppers in the roof assembly. The vertical pipe with the attached lip seal is inserted into the existing old scupper. The tray of the renovation scupper provides a secure connection for the waterproofing membrane.

Material:

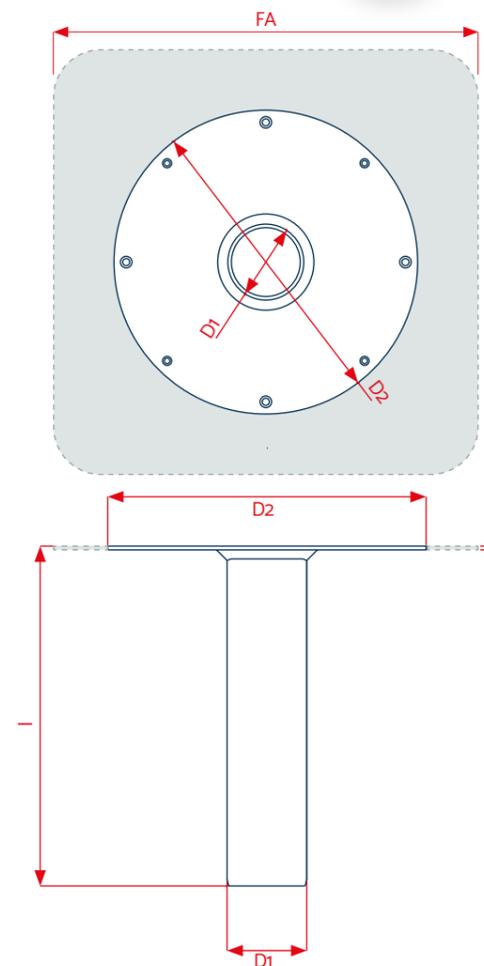
Variants in PVC and FPO/PP with welded connection sleeve for easy connection to the compatible roof membrane. The material of the base body is modified to be weather-resistant: UV-stabilized, resistant to thermal degradation and oxidative aging, as well as impact-resistant in cold temperatures.

Available sizes:

- D 50 mm (DN 50)
- D 75 mm (DN 70)
- D 95 mm
- D 110 mm (DN 100)
- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	3.70 litre/sec.	N/A
D 75 mm (DN 70)	4.60 litre/sec.	13.20 litre/sec.
D 110 mm (DN 100)	5.55 litre/sec.	15.80 litre/sec.
D 125 mm (DN 125)	5.55 litre/sec.	16.00 litre/sec.
D 160 mm (DN 150)	5.60 litre/sec.	18.60 litre/sec.

Technical data		
D1	50 / 75 mm	95 / 110 / 125 / 160 mm
D2	300 mm	380 mm
l	320 mm ¹	320 mm ¹
t	3.5 mm	3.5 mm
Foil connection (FC)	D 50 mm (DN 50) to D 75 mm (DN 70)	L 500 x W 500 mm
Foil connection (FC)	D 90 mm to D 160 mm (DN 150)	L 580 x W 580 mm

KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Drain Nexo Fix

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molding for vertical drainage through the roof package. Installation with connection to a pipe system for water drainage or as an extension element for a roof drain.

Pay attention to appropriate backflow protection.

Installation:

Position the drains in the opening in the roof structure, if used as an extension element, connect them to the gully underneath, align them with the subsurface and fasten them securely at four points in the subsurface using the holes on the edge of the tray. Weld the connection sleeve to the waterproofing membrane all around professionally and in accordance with the roofing membrane manufacturer's specifications.

Material:

Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes:

- D 50 mm (DN 50)
- D 75 mm (DN 70)
- D 90 mm
- D 95 mm
- D 110 mm (DN 100)
- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit

Accessories:

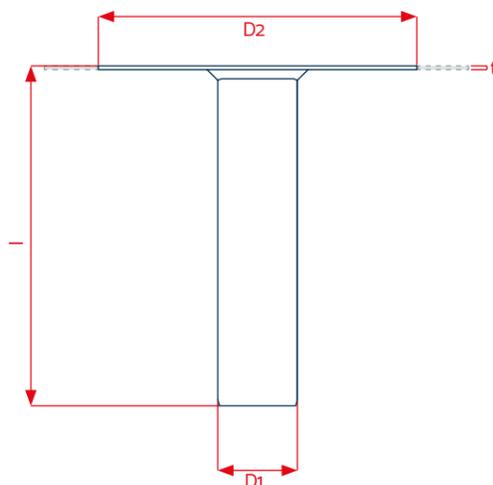
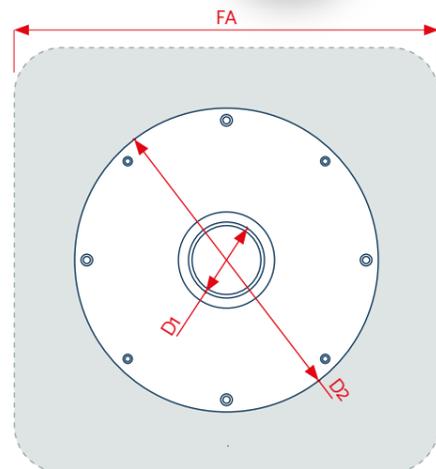
- Gravel basket
- Lip seal

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	3.70 litre/sec.	N/A
D 75 mm (DN 70)	4.60 litre/sec.	13.20 litre/sec.
D 90 mm	5.30 litre/sec.	14.60 litre/sec.
D 110 mm (DN 100)	5.55 litre/sec.	15.80 litre/sec.
D 125 mm (DN 125)	5.55 litre/sec.	16.00 litre/sec.
D 160 mm (DN 150)	5.60 litre/sec.	18.60 litre/sec.

¹Special lengths available on request / ²Other diameter sizes available on request / ³Alternatively also available with accumulation ring
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Technical data		
D1	50 / 75 mm	90 / 95 / 110 / 125 / 160 mm
D2	300 mm	380 mm
l	320 mm ¹	320 mm ¹
t	3.5 mm	3.5 mm
Foil connection (FC)	D 50 mm (DN 50) to D 75 mm (DN 70)	L 500 x W 500 mm
Foil connection (FC)	D 90 mm to D 160 mm (DN 150)	L 580 x W 580 mm

Scupper Nexo Fix, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molding for horizontal drainage through the parapet. Installation with connection to a pipe system for water drainage or free jet. When installing for emergency drainage, the exact installation point must be taken into account depending on the water height.

Installation:

Push the scupper through the horizontal opening in the parapet, align it with the subsurface and securely attach it to four points in the subsurface using the holes on the edge of the tray. Weld the connection sleeve to the waterproofing membrane all around professionally and in accordance with the roofing membrane manufacturer's specifications.

Material:

Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes:

- D 50 mm (DN 50)
- D 63 mm
- D 75 mm (DN 70)
- D 90 mm
- D 110 mm (DN 100)

Package units:

Supplied in cartons, PU 1 unit

Accessories:

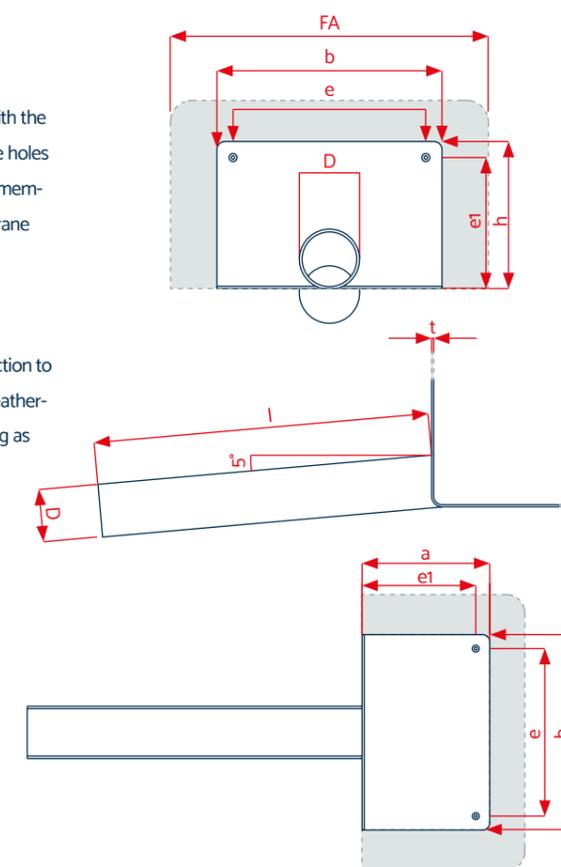
- Gravel basket
- Vapour barrier sheet

Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	0.51 litre/sec.	1.31 litre/sec.
D 63 mm	N/A	N/A
D 75 mm (DN 70)	0.65 litre/sec.	1.65 litre/sec.
D 90 mm	0.65 litre/sec.	1.90 litre/sec.
D 110 mm (DN 100)	1.00 litre/sec.	2.65 litre/sec.

¹Special lengths available on request / ²Alternatively also available with accumulation ring
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Technical data	
D	50 / 63 / 75 / 90 / 110 mm
l	480 mm ¹
a	112 mm
b	280 mm
h	186 mm
e	240 mm
et	166 mm
t	3 mm
Foil connection (FC)	L 494 x W 484 mm
Pipe inclination 5 °	

Scupper Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for horizontal drainage or emergency drainage through the parapet. When installing, the exact installation point must be determined based on the water level.

Installation:

Push the scupper through the horizontal opening in the parapet, align it with the subsurface and securely attach it to four points in the subsurface using the holes on the edge of the tray. Weld the connection sleeve to the waterproofing membrane all around professionally and in accordance with the roofing membrane manufacturer's specifications.

Material:

Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes (W x H - Internal dimensions) 1:

- 120 x 60 mm • 300 x 100 mm • 600 x 100 mm
- 300 x 80 mm • 500 x 100 mm

Available length (l):

- 300 mm • 600 mm

Colors:

Ground body:

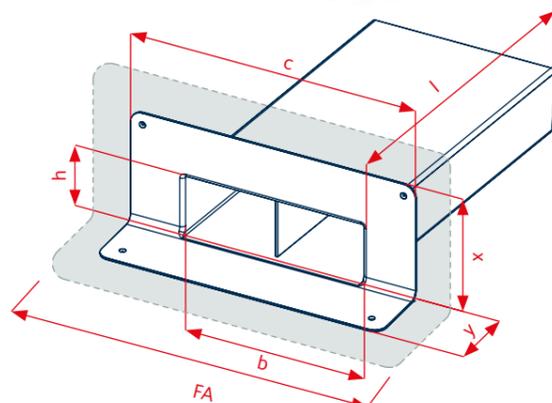
- PVC similar to RAL 7047, Telegrey 4
 - FPO/PP similar to RAL 7044, Silk grey
- Roof membrane colors are determined by the respective manufacturer

Package units:

Supplied in cartons, PU 1 unit

Accessories 2:

- Vapour barrier sheet



Technical data						
Duct = W x H	b	h	c	x	y	
120 x 60	120 mm	60 mm	300 mm	150 mm	90 mm	
180 x 80	180 mm	80 mm	360 mm	170 mm	90 mm	
300 x 80	300 mm	80 mm	480 mm	170 mm	90 mm	
300 x 100	300 mm	100 mm	480 mm	190 mm	90 mm	
500 x 100	500 mm	100 mm	680 mm	190 mm	90 mm	
600 x 100	600 mm	100 mm	780 mm	190 mm	90 mm	

Pipe inclination 5° in each case

Foil connection (FC)						
Dimensions (L x W)	440 x 500 mm	460 x 560 mm	460 x 680 mm	480 x 680 mm	460 x 880 mm	480 x 980 mm
Dimensions für	120 x 60 x 300/600 mm	180 x 80 x 300/600 mm	300 x 80 x 300/600 mm	300 x 100 x 300/600 mm	500 x 100 x 300/600 mm	600 x 100 x 300/600 mm

Drainage performance:

LGA-certified characteristics

Duct = W x H ^{1,3}	Accumulation height	
	35 mm	65 mm
120 x 60 mm	1.30 litre/sec.	3.50 litre/sec.
180 x 80 mm	1.90 litre/sec.	5.00 litre/sec.
300 x 80 mm	3.00 litre/sec.	7.80 litre/sec.
300 x 100 mm	3.00 litre/sec.	7.80 litre/sec.
500 x 100 mm	5.50 litre/sec.	13.40 litre/sec.
600 x 100 mm	7.20 litre/sec.	10.83 litre/sec.

¹ Special sizes available on request

² Alternatively also available with accumulation ring
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Emergency overflow Nexo Fix, round

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molding for horizontal emergency drainage through the parapet. Installation with Connection to a pipe system for water drainage or free jet. At the installation, the exact installation point must be taken into account depending on the water height.

Installation:

Push the emergency overflow through the horizontal opening in the parapet, align it on the subsurface and securely secure it in position at four points in the subsurface using the holes on the edge of the tray. The connection sleeve with the Sealing membrane all around professionally and according to the manufacturer's specifications of the roofing membrane manufacturer.

Material:

Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes:

- D 50 mm (DN 50) • D 110 mm (DN 100)
- D 63 mm • D 125 mm (DN 125)
- D 75 mm (DN 70)

Package units:

Supplied in cartons, PU 1 unit

Accessories:

- Vapour barrier sheet

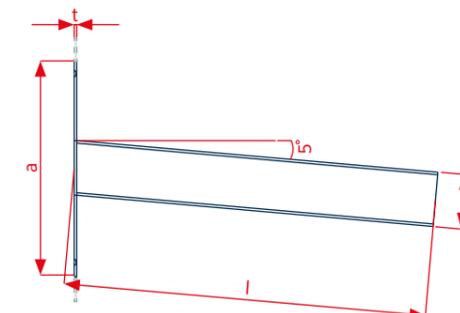
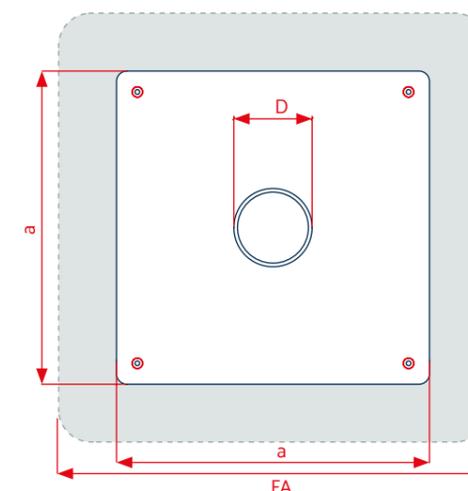
Drainage performance:

LGA-certified characteristics

Diameter	Accumulation height	
	35 mm	65 mm
D 50 mm (DN 50)	0.51	1.31
D 75 mm (DN 70)	0.65	1.65
D 110 mm (DN 100)	1.00	2.65
D 125 mm (DN 125)	1.00	2.80

¹ Special lengths available on request

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Technical data		
D	50 / 63 / 75 / 110 / 125	mm
a	300	
l	490 ¹	
t	3.0	
Foil connection (FC)	L 500 x W 500	
Pipe inclination 5°		

Emergency overflow Nexo Fix, rectangular

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Molded part for horizontal drainage or emergency drainage through the parapet. When installing, the exact installation point must be determined based on the water level.

Installation:

Push the emergency overflow through the horizontal opening in the parapet, align it on the subsurface and securely secure it in position at four points in the subsurface using the holes on the edge of the tray. The connection Weld the sleeve to the waterproofing membrane professionally and in accordance with the roofing membrane manufacturer's specifications.

Material:

Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes (W x H - Internal dimensions) ¹:

- 120 x 60 mm • 300 x 100 mm • 600 x 100 mm
- 300 x 80 mm • 500 x 100 mm

Available length (l):

- 300 mm • 600 mm

Colors:

Ground body:

- PVC similar to RAL 7047, Telegrey 4
 - FPO/PP similar to RAL 7044, Silk grey
- Roof membrane colors are determined by the respective manufacturer

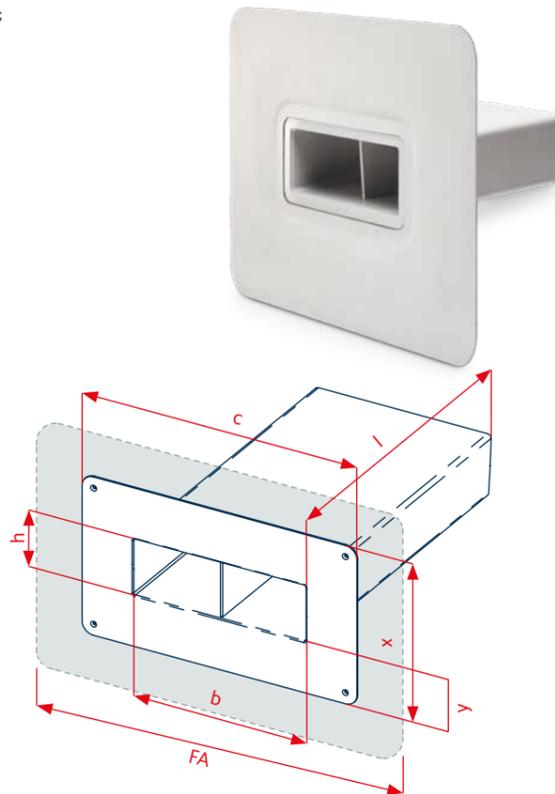
Package units:

Supplied in cartons, PU 1 unit

Accessories:

- Vapour barrier sheet

¹Special sizes available on request
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.



Technical data ²						
Duct = W x H	b	h	c	x	y	
120 x 60	120 mm	60 mm	300 mm	240 mm	90 mm	
180 x 80	180 mm	80 mm	360 mm	260 mm	90 mm	
300 x 80	300 mm	80 mm	480 mm	260 mm	90 mm	
300 x 100	300 mm	100 mm	480 mm	280 mm	90 mm	
500 x 100	500 mm	100 mm	680 mm	280 mm	90 mm	
600 x 100	600 mm	100 mm	780 mm	280 mm	90 mm	

Pipe inclination 5° in each case

Foil connection (FC)						
Dimensions (L x W)	440 x 500 mm	460 x 560 mm	460 x 680 mm	480 x 680 mm	460 x 880 mm	480 x 980 mm
Dimensions for	120 x 60 x 300/600 mm	180 x 80 x 300/600 mm	300 x 80 x 300/600 mm	300 x 100 x 300/600 mm	500 x 100 x 300/600 mm	600 x 100 x 300/600 mm

Drainage performance:

LGA-certified characteristics

Duct = W x H ²	Accumulation height	
	35 mm	65 mm
120 x 60 mm	3.00 litre/sec.	7.80 litre/sec.
180 x 80 mm	3.00 litre/sec.	7.80 litre/sec.
300 x 80 mm	5.50 litre/sec.	13.40 litre/sec.
300 x 100 mm	7.20 litre/sec.	N/A
500 x 100 mm	7.50 litre/sec.	19.20 litre/sec.
600 x 100 mm	12.60 litre/sec.	29.40 litre/sec.

Flat roof fans Nexo Fix for ventilation lines with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The flat roof fans are used for ventilation:

- Ventilation of bathrooms and toilets without outside windows
- Dirty water ventilation
- Ventilation of extractor hoods in kitchens
- Controlled living space ventilation

Installation:

Align the fan on the ground and over the holes on the Fasten the edge of the tray securely at four points in the subsurface. Professionally weld the connection sleeve to the sealing membrane all around and in accordance with the roofing membrane manufacturer's specifications.

Material:

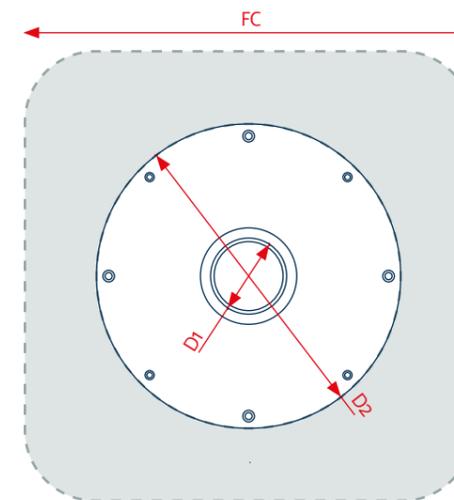
Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes ¹:

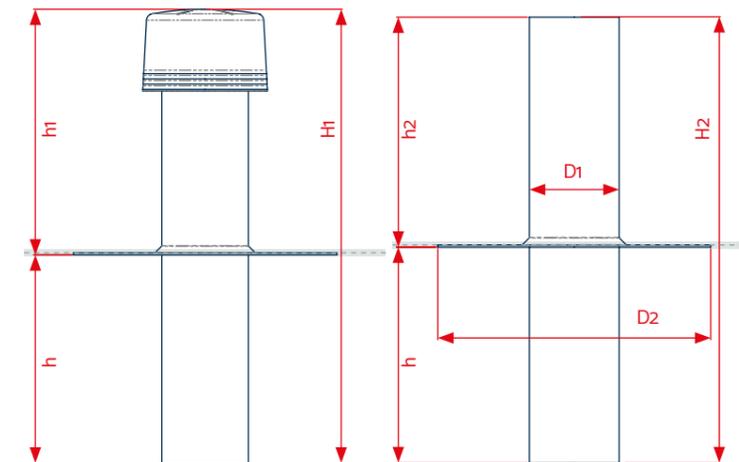
- D 75 mm (DN 70) • D 125 mm (DN 125)
- D 110 mm (DN 100) • D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



¹Special lengths available on request
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.



Technical data		
H1 (with cap)	654 mm	
H2 (without cap)	620 mm	
D1 (D Pipe)	DN 70 / DN 100 / DN 125 / DN 150	
D2 (D sheet)	For size DN 70 = 300 mm For all others = 380 mm	
h1 (with cap)	354 mm	
h2 (without cap)	320 mm	
h	300 mm	
Foil connection (FC)	D 75 mm (DN 70)	L 500 x W 500 mm
	D 110 mm (DN 100) to D 160 mm (DN 150)	L 580 x W 580 mm

Flat roof fans Nexo Fix for cold roofs with weather cap

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

- Ventilation and aeration of flat roof structures
- For moisture removal and drying of a saturated roof assembly

Installation:

Align the fan on the ground and over the holes on the Fasten the edge of the tray securely at four points in the subsurface. Professionally weld the connection sleeve to the sealing membrane all around and in accordance with the roofing membrane manufacturer's specifications.

Material:

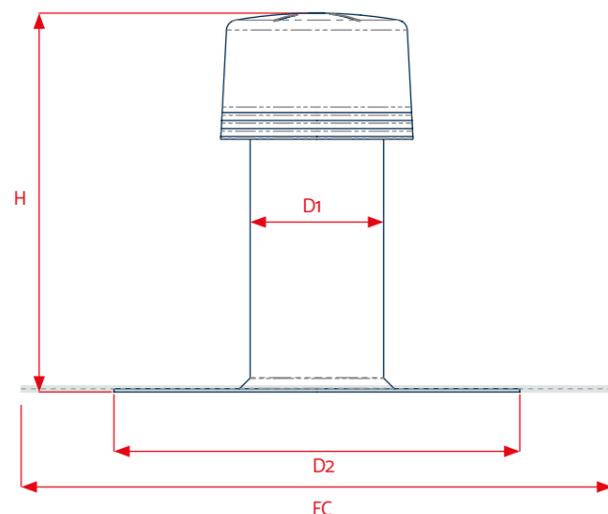
Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes:

- D 75 mm (DN 70)
- D 125 mm (DN 125)
- D 110 mm (DN 100)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Technical data	
H	354 mm ¹
D1	D 75 mm (DN 70) / D 110 mm (DN 100) / D 125 mm (DN 125) / D 160 mm (DN 150)
D2	D 75 mm (DN 70) = 300 mm D 110 mm (DN 100) to D 160 mm (DN 150) = 380 mm
Foil connection (FC)	D 75 mm (DN 70) L 500 x W 500 mm
Foil connection (FC)	D 110 mm (DN 100) to D 160 mm (DN 150) L 580 x W 580 mm

¹Special lengths available on request
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Flat roof refurbishment fans Nexo Fix with forced ventilation

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

- Moisture removal, forced ventilation of roof structures
- For a drenched roof package for moisture removal and drying out

This version has a maintenance-free suction fan that is blown by the wind is driven (achieves a very high air throughput) onto the ground body put on. The fan is resistant to driving rain and snow and is complete Delivered ready to install and can be welded directly to the roofing membrane.

Installation:

Align the fan on the ground and over the holes on the Fasten the edge of the tray securely at four points in the subsurface. Professionally weld the connection sleeve to the sealing membrane all around and in accordance with the roofing membrane manufacturer's specifications.

Material:

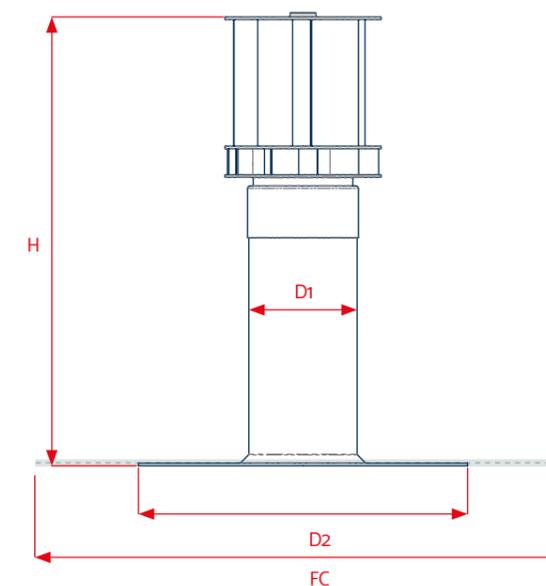
Versions PVC and FPO/PP with welded connection sleeve for easy connection to the appropriate roofing membrane. The material of the ground body is weatherproof modified: UV-stabilized, against heat degradation and oxidative aging as well as cold impact resistant.

Available sizes:

- D 125 mm (DN 125)
- D 160 mm (DN 150)

Package units:

Supplied in cartons, PU 1 unit



Technical data	
H	518 mm ¹
D1	D 125 mm (DN 125) / D 160 mm (DN 150)
D2	380 mm
Foil connection (FC)	D 125 mm (DN 125) to D 160 mm (DN 150) L 580 x W 580 mm

¹Special lengths available on request
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

One-piece inspection fitting Nexo Fix for flat roof systems

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

The inspection fitting is used for regular, simple and safe inspection of the flat roof without damaging openings. Leaks can therefore be discovered quickly and the extent of the damage can therefore be significantly reduced.

Installation:

For each selected section, the inspection fitting is placed on the vapor barrier at the lowest point possible. Optionally, the position can be fixed to prevent displacement. Subsequently, laying the insulation and sealing with professional connection of the sealing to the pipe of the inspection fitting.

Material:

- PVC similar to RAL 7035, Light grey
- FPO/PP² similar to RAL 7044, Silk grey

Delivery unit:

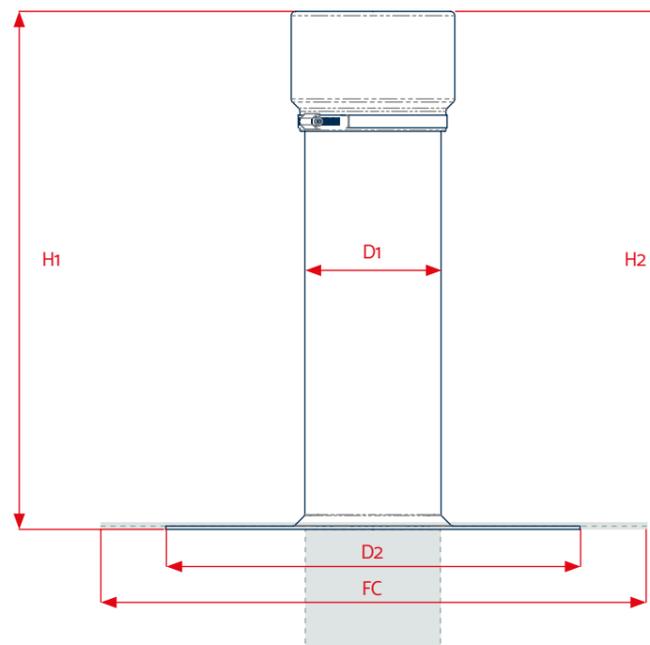
Inspection fitting, consisting of ground body in one piece removable cap, pre-assembled clamp and insulating core mounted in the cap.

Available sizes¹:

D 125 mm (DN 125)

Package units:

Supplied in foil bags, PU 1 unit



Technical data		
H1	380 mm ¹	
H2 (with Styrofoam core)	605 mm	
D Pipe D1	125 mm	
D Sheet D2	380 mm	
Foil connection (FC)	D 125 mm (DN 125)	L 580 x W 580 mm

Release list for roofing membranes

PVC	
Manufacturer	Product
Alwitra	Evalon
Bauder	Thermofol
BMI Wolfin	Cosmofin, Tectofin, Wolfin*
FDT	Rhenofol
Georg Börner	Logicroof V
Icopal	Monarplan PVC
Mapei	Mapeplan M, Mapeplan Plus
Protan AS	Protan PVC
Renolit	Alkorplan
Sika	Sikaplan
Soprema	Flagon SR, Flagon SV, Flagon S.150
Sucoflex	Sucoflex B, Sucoflex M

* Color deviation! Black roofing membrane, gray molding

Information valid for Europe, roofing membranes produced for European markets

FPO/PP	
Manufacturer	Product
Agro	Austroplan
Bauder	Thermofin, Thermoplan
BMI Icopal	Monarfin FPO
BMI Vedag	Vedafin
BMI Wolfin	EverGuard TPO
Carlisle C.M.	Sure-Weld TPO
Firestone	UltraPly
Mapei	Mapeplan T I
Sika	Sarnafil AT, Sarnafil T
Soprema	Flagon Premio, P. Stick; Flagon Eco, Eco F; Flagon EP-S 150
Sucoflex	Sucoflex TB, TM

Information valid for Europe, roofing membranes produced for European markets

¹Special lengths available on request
KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

KALA terrace support system

Function:

Terrace support for the installation of all surface types, particularly stone slabs and boardwalk finishes. The height adjustment and equalizing elements permit easy levelling of surfaces and slopes. In combination with the pressure disc, which is available as an accessory, the KALA support forms a sliding support system for direct installation on seals. Additional protective mats must be fitted in areas frequented by the public, such as entrances to public buildings, cafeterias, etc.

Versions:

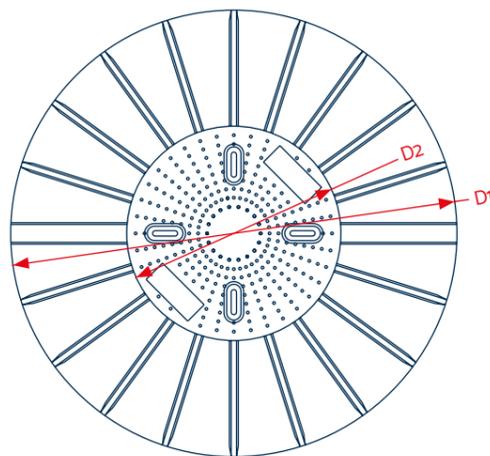
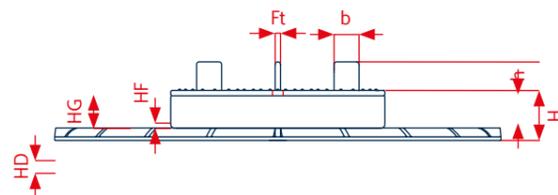
- Joint dividers for joint widths of 3 mm¹, alternatively available in different joint widths
- Joint dividers separable for installation in a pattern or at the edge

Package units:

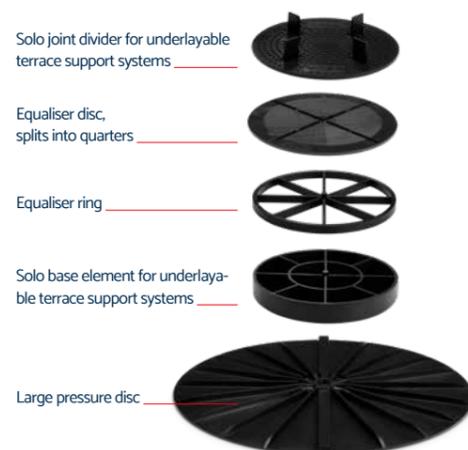
- Supplied in cartons, PU 100 units
- Support system (joint divider and basic element) or joint divider solo, basic element solo

Accessories:

- ProSilent equaliser disc
- Equaliser disc, splits into quarters
- Equaliser ring
- Pressure disc



Technical data	
D1	250 mm
D2	120 mm
Ft	3, alternatively 4 mm
H	28 mm
HG	18 mm
HF	3 mm
HD	7 mm
h	16 mm
b	14 mm



¹Alternatively available in a joint width of 4 mm
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Height-adjustable terrace support system

Function:

Terrace support for the installation of all surface types, particularly stone slabs and boardwalk finishes. The height adjustment and optional equalizing elements permit easy levelling of surfaces and slopes. In combination with the pressure disc, which is available as an accessory, the KALA support forms a sliding support system for direct installation on seals. Additional protective mats must be fitted in areas frequented by the public, such as entrances to public buildings, cafeterias, etc.

Versions:

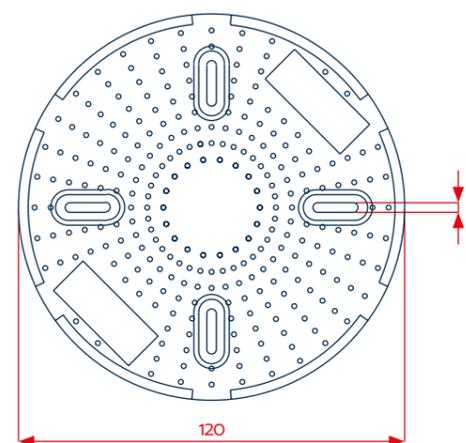
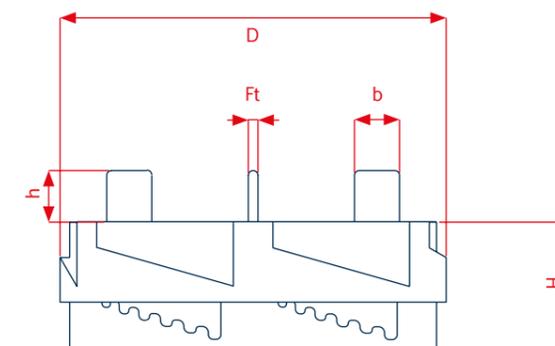
- Joint dividers for joint widths of 3 mm^{1,2}, alternatively available in different joint widths
- Joint dividers separable for installation in a pattern or at the edge
- KALA Wood: Surface without joint divider for installation under wooden structures

Package units:

Supplied in cartons, PU 50 units

Accessories:

- ProSilent equaliser disc
- Pressure disc



Technical data		
	H1	H2
D	120 mm	120 mm
Ft	3, alternatively 4 mm	3, alternatively 4 mm
H	28 - 42 mm	40 - 70 mm
h	16 mm	16 mm
b	14 mm	14 mm

¹Alternatively available in a joint width of 4 mm / ²Alternatively available without joint divider
KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

KALA terrace support system H-MAX MultiLevel

Function:

The H-MAX MultiLevel is our height-adjustable support system with an additional movable compensating head. It makes laying coverings of all kinds – whether wood, stone or ceramics – easy. The compensation head can also be moved by up to 5° to compensate for steep slopes and unevenness.

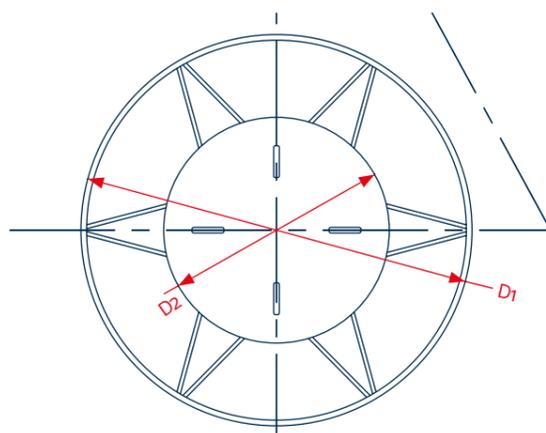
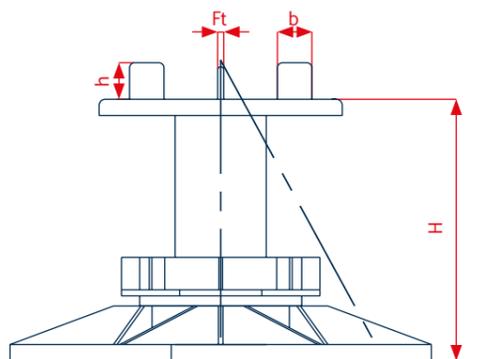
For direct installation on seals. Additional protective mats must be fitted in areas frequented by the public, such as entrances to public buildings, cafeterias, etc.

Versions:

- 3 mm wide joints
- Snap-off wings
- Integrated notch for trimming the base on the border
- Rubber support for sound insulation

Package units:

Supplied in cartons, PU 25 units



Technical data				
	62 - 82 mm	77 - 112 mm	107 - 142 mm	137 - 227 mm
D1	200 mm	200 mm	200 mm	200 mm
D2	120 mm	120 mm	120 mm	120 mm
H	62 - 82 mm	77 - 112 mm	107 - 142 mm	137 - 227 mm
h	10 mm	10 mm	10 mm	10 mm
b	13 mm	13 mm	13 mm	13 mm
Ft	3 mm	3 mm	3 mm	3 mm

KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

ProSilent equaliser disc for terrace support systems, splits into quarters

Function:

Made of extra-soft, long-term stabilised PVC, our ProSilent shim reduces impact noise and all other sounds caused by movement. The disc, which is only 1 mm thick, can be divided into quarters, which therefore means it can also be used for compensating for the finest height differences on a support system.

Material:

PVC

Variante:

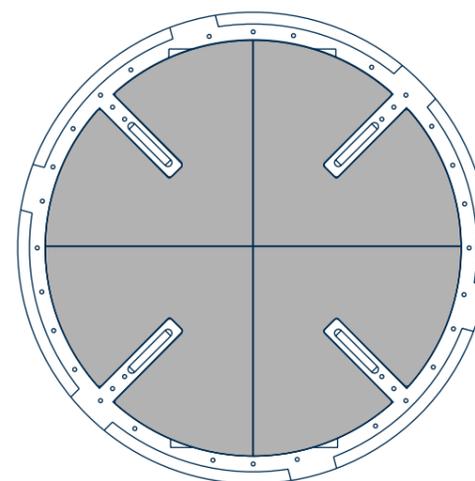
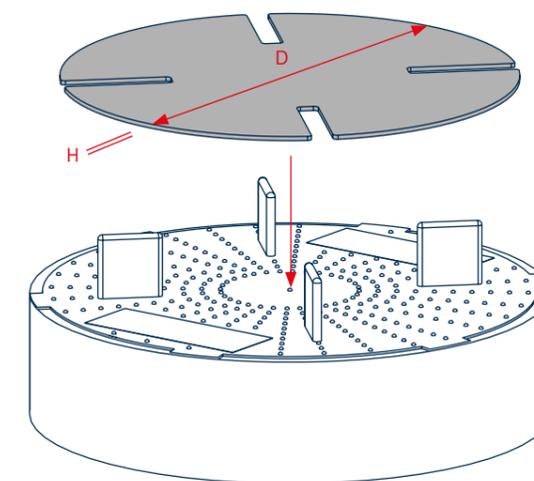
Color Black

Package units:

Supplied in cartons / foil bags, PU 50 units

Accessories:

- Complete underlayable terrace support system
- Terrace support system H1
- Terrace support system H2



Technical data	
D	112 mm
H	1 mm

KALA - KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Cross spacers height: 18 mm

Function:

For laying slabs in a gravel/grit bed.

The tile spacers serve as spacers for forming permanent joints in accordance with the regulations.

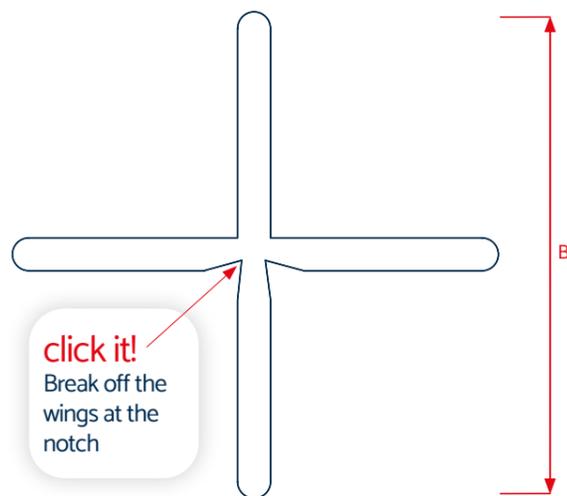
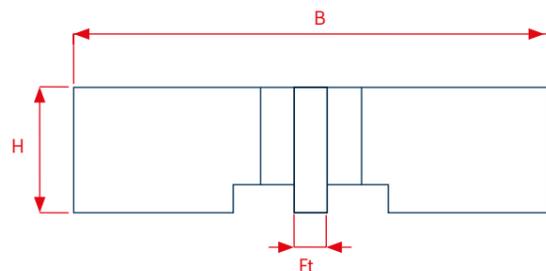
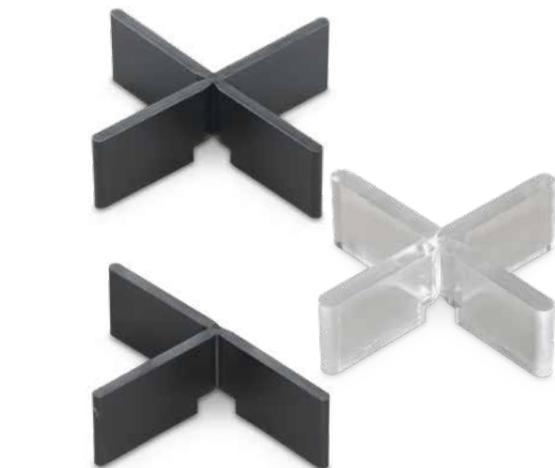
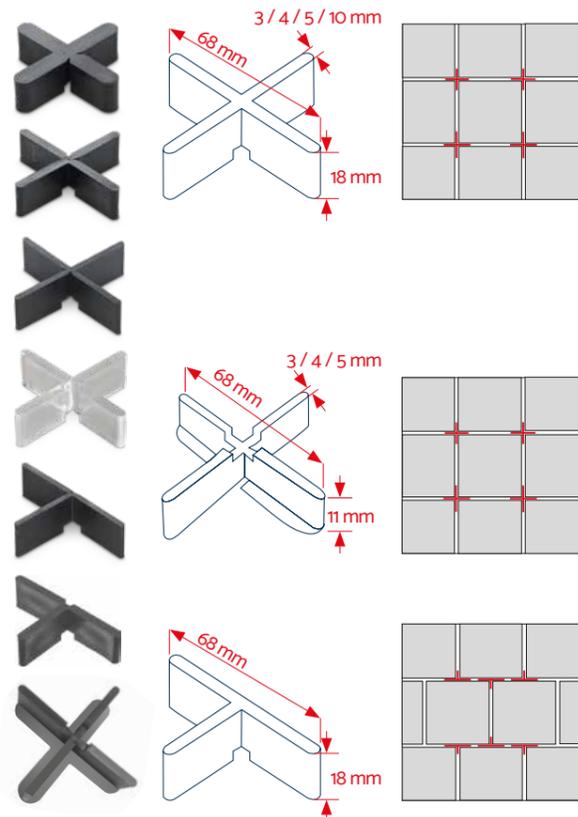
The three-armed tile spacers mean you can lay flooring cleanly in a bond or at the edge.

Versions:

- Joint widths 3, 4, 5 and 10 mm
- An arm can be easily broken off at the notch
- Tile spacer with three wings (T-cross) for 3 and 5 mm joint widths
- Default color black
- A transparent model is also available for ultra high-end patios
- Special colors available on request

Package units:

Supplied in cartons, PU 300 units



Technical data	
B	68 mm
H	18 mm
Ft	3 / 4 / 5 / 10 mm

KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

Tile spacers height: 11 mm

Function:

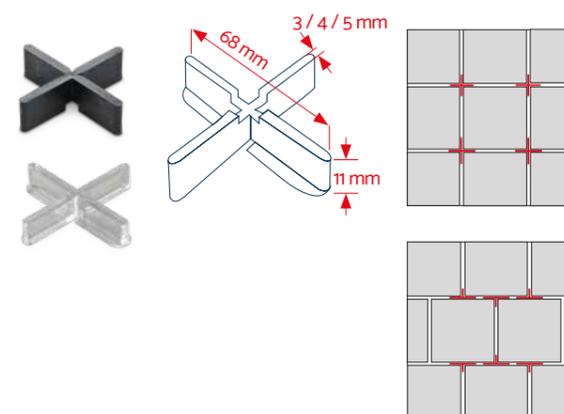
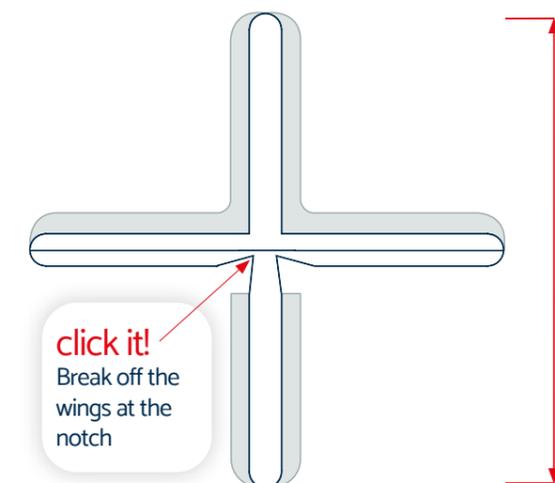
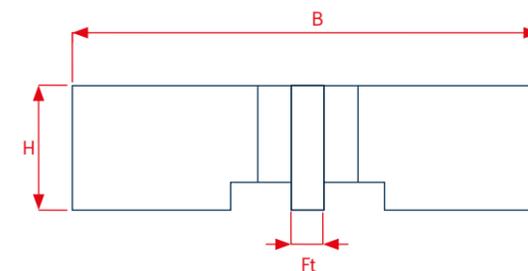
For laying ceramic tiles. The tile spacers serve as spacers for forming permanent joints in accordance with regulations.

Versions:

- Joint widths 3, 4 and 5 mm
- An arm can be easily broken off at the notch
- Universal tile spacer with support
- Default color black
- A transparent model is also available for ultra high-end patios
- Special colors available on request

Package units:

Supplied in cartons, PU 300 units



Technical data	
B	68 mm
H	11 mm
Ft	3 / 4 / 5 mm

KALA – KUNSTSTOFFE | Karl-Heinz Lange GmbH+Co.KG reserves the right to make technical changes.

The original red flexible tube 70/100 and 125

Function:

The flexible hose for all commercially available ventilation systems. The free end of the hose is slid onto the lower pipe end of the vent pipe and fixed with the pre-assembled hose clamp. The connection sleeve is inserted into the underlying connection piece of the ventilation pipe. Ensure correct placement of the inserted lip seal in the connection piece during installation. The sleeve position, when installed, should be inclined with a slope of at least 45°.

Versions:

- Flexible hose 70/100 for connection to ventilation pipes DN 70 or DN 100
- Flexible hose 125 for connection to ventilation pipe DN 70
- Hose lengths: Variant 70/100 500 mm; Variant 125 600 mm
- All flexible hoses are UV-resistant by default

Screw clamp for a permanent, tight fit

UV-resistant

Highly flexible hose reinforced with a welded spring steel spiral

Secure duct for the easy disconnection of the type 70 connection



Ventilators for bitumen shingle roofs

Attention: The processing instructions of the roofing membrane manufacturer must be adhered to; Materials and used material compounds may be subject to change.

Function:

Ventilator to ensure air exchange on the levels to be back-ventilated for shingle roofs. The element can also be installed as an outlet vent using the flexible outlet vent connection, which is available as an accessory. Thus ensuring that the roofscape remains uniform.

Connection Method:

A 270 x 150 mm opening is cut in the underlay. The lower shingles are brought up to the opening and fitted into place properly. Now align the fan evenly in the centre over the opening and fasten it in place through the holes in the rebate.

Important: Maintain a distance of approx. 30 mm between the shingles and the ventilation duct at the sides and the top to ensure that water drains off freely.

Technical data vent for shingle roofs:

- Bottom section: length 410 mm, width 325 mm
- Top section: length 300 mm, width 195 mm
- Overall height: 120 mm
- Deck flange widths: 90/100 mm
- Default colors: brown and black
- Special colours (hood): grey and red
- Other colours available on request
- Interchangeable hood

Package units:

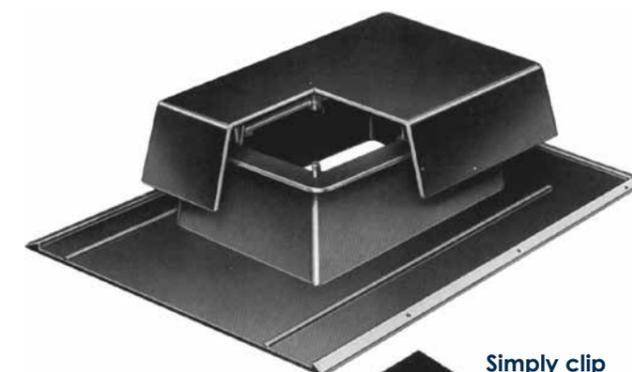
Supplied in cartons, PU 10 units

Accessories:

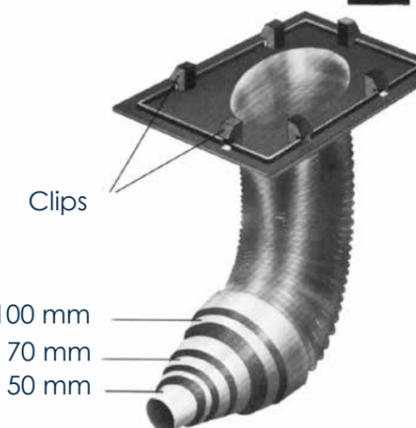
- Outlet vent connection

Technical data Outlet vent connection:

- Length 260 mm
- Width 140 mm
- Air cross-section, fan: 170 cm²
- Air cross-section, flexible hose: 80 cm²
- Flex hose Ø: 100 mm
- For 50/70/100 mm hose connection
- Colour black
- All flexible tubes are basically UV-resistant



Simply clip into place!



Clips

Ø 100 mm
Ø 70 mm
Ø 50 mm

Outlet vent connection



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