

HVAC components

Product range



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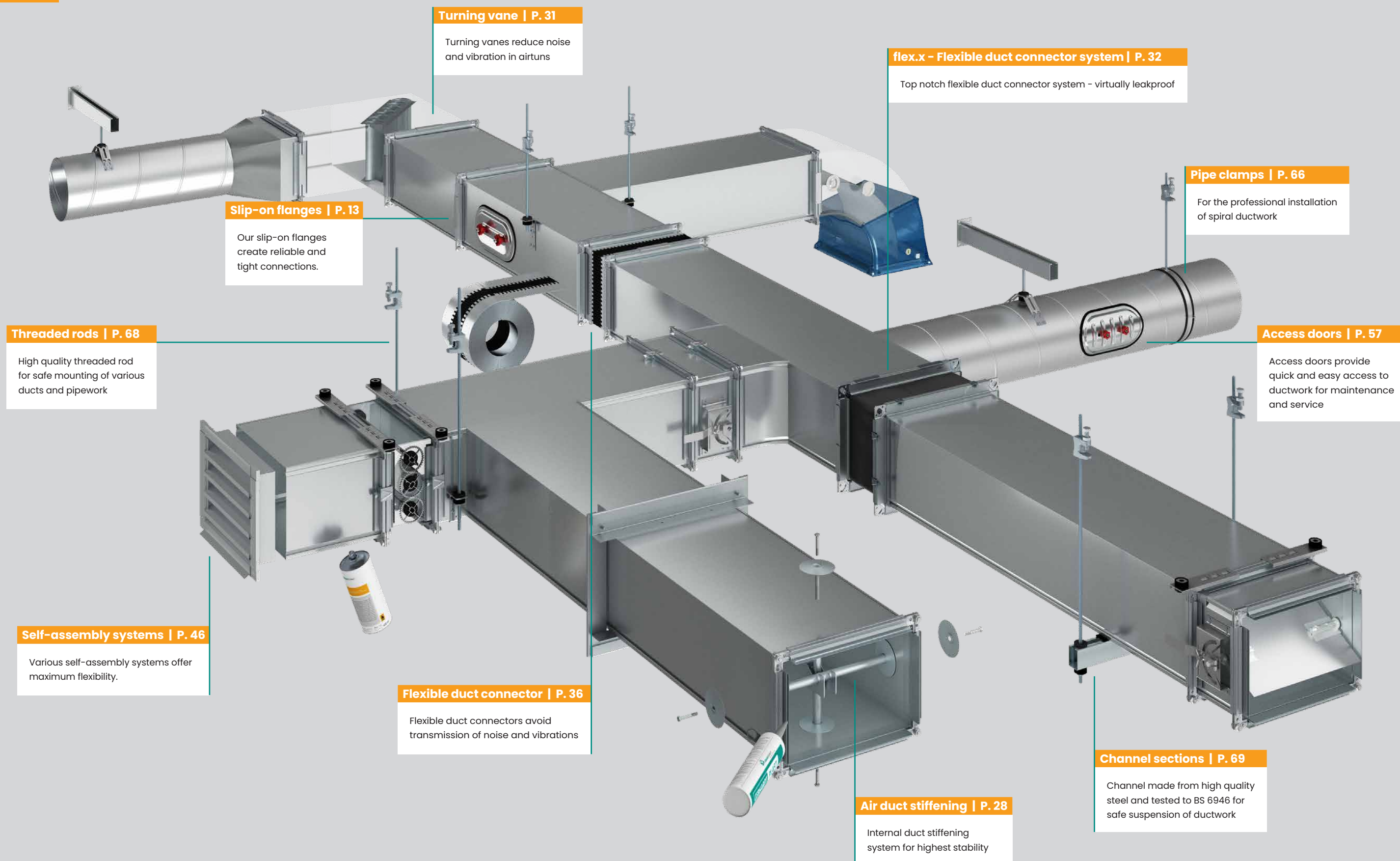
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Insight into our product portfolio



Product highlights

Channel sections

- Galvanised modular channel sections for mounting pipe supports, ventilation ducts and cable trays
- Maximum flexibility and easy handling
- Fast and simple installation
- According to the requirements of DW 144



Wall bracket for split air-conditioning units

- Universal wall brackets
- Suitable for outdoor use
- Includes pre-assembled components
- GS and TÜV certified load capacity



Tabbed access doors

- Tabbed access doors for rectangular ductwork
- Suitable for low, medium, or high-pressure applications



Gebhardt-Silicone

- Elastic, pasty (viscous), ready-to-use one-component (1C) sealing compound
- Good adhesion properties to most building substrates
- Resistant to ageing and weathering, lightfast and UV-resistant
- Remains permanently elastic after curing



Gebhardt-Stahl Shop

Easy access 24/7

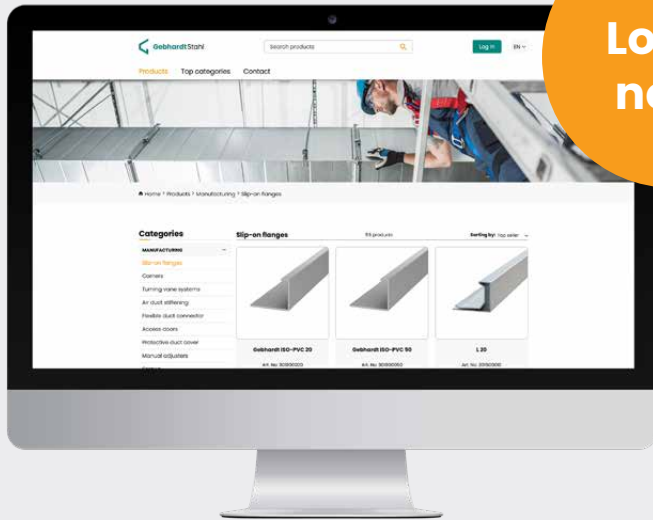
Our shop gives you round-the-clock access to our complete range of products for HVAC systems, as well as technical documentation and other documents. If the product suits you, you can order it with just a few clicks – conveniently and easily – directly from your PC, tablet or smartphone.

Your user account gives you access to a wide range of additional services such as the creation of note/project lists, the uploading and automatic readout of orders, the deposit of your own article numbers for a simplified search, the quick re-order of orders already placed and much more.

Of course, all your individual agreements such as payment and delivery terms, or discount conditions are also displayed in the shop.

Highlights

- Extensive search function
- Quick order
- Order history
- Project lists
- Quotation function
- Technical data sheets, safety data sheets, assembly recommendations
- And much more!



Visit our webshop and order your products online.



With the ISO 9001:2015 certification, we can prove that we sustainably meet the high quality demands of our customers.

Why profiles of tightness class C + D?

Our high-quality slip-on flanges meet the requirements of tightness classes C or even D. These characteristics make it easy to achieve the required flow rates at both the supply and exhaust ends. As a result, the desired indoor climate is maintained and stale air, including pollutants, is efficiently removed. The system can also be easily adjusted to provide the optimum pressure level between rooms.

Furthermore, the innovative, patented flanges not only offer high stability, but also simple and safe processing. At the same time, they prevent particle and germ contamination and reduce unpleasant odours. Plumes of dirt are also reliably avoided, which optimises the visual impression and facilitates the maintenance of the system. Due to the well thought-out design, sealing measures along the flange are not necessary. This minimises the consumption of resources and contributes to sustainability.

- Benefits at a glance:**
- **Air-tightness class C + D**
TÜV certified
 - **Saves costs**
No sealing measures along the flanges required
 - **Saves time**
Through the high adhesive strength of the butyl, you can dispense every 2nd welding point on the flanges
 - **Save energy**
As more tightness the more energy savings
 - **Easy application**
Quick and easy handling
 - **Damping of structure-borne noise**
Less noise is made
 - **Conserves resources**
Efficient use of energy conserves natural resources

Tightness classes



Air-tightness class according to DIN EN 1507	Air-tightness class according to DIN EN 16798-3	Air leakage rate limit (fmax) m³/s·m²	Application recommendation according to DIN EN ISO 846
A	ATC 5	0,027 x p _t 0,65 x 10 ⁻³	Not recommended
B	ATC 4	0,009 x p _t 0,65 x 10 ⁻³	Minimum requirement
C	ATC 3	0,003 x p _t 0,65 x 10 ⁻³	Requirement
D	ATC 2	0,001 x p _t 0,65 x 10 ⁻³	Highest requirement

Prime series - 25/35/45

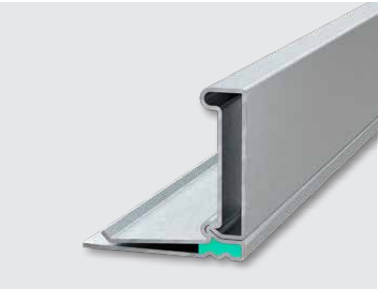
- High torsion rigidity through clinching
- Flange and corner build an extrem rigid unit
- Manufactured with double bead
- Unique design by Gebhardt-Stahl
- With integral sealant - virtually leak-proof

Premium-Flanges - 25, 35, 45 mm

Item No.	Description	Material	Length	PU
301 050 406	Premium 25 D	Galvanized	5.000 mm	500 m

Item No.	Description	Material	Length	PU
301 060 010	Premium 35 D	Galvanized	5.000 mm	500 m

Item No.	Description	Material	Length	PU
301 030 645	Premium 45 D	Galvanized	5.000 mm	500 m



Corners 25/35/45

Heavy duty corners 25/35/45

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 125	GC25	Zinc plated	Slotted hole	With notch	250 pcs.	18.000 pcs.

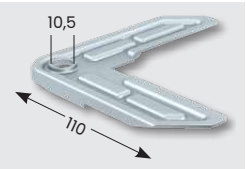
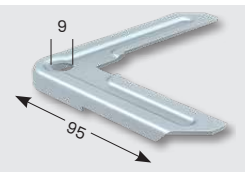
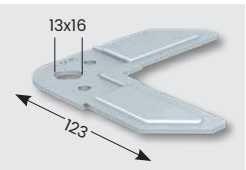
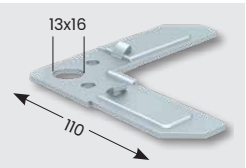
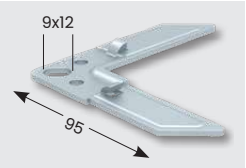
Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 050 135	GC35	Zinc plated	Slotted hole	With notch	150 pcs.	8.400 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 080 145	GC45	Zinc plated	Slotted hole	–	100 pcs.	5.400 pcs.

Standard corners 25/35

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 225	GC25 S	Zinc plated	Round hole	Standard leg	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 030 235	GC35 S	Zinc plated	Round hole	Sandard leg	250 pcs.	12.000 pcs.



J-Rating Summary Report



Summary Report

www.bsria.co.uk

Summary Report No: 60700/1 Issue No: 1 Date of issue: 5 December 2017

BSRIA has tested the flanges described below for deflection and leakage, and confirm that it meets the relevant requirements contained in the Building Engineering Services Association (BESA) J-rated flange identification system for: Sheet Metal Ductwork DW/144 Third Edition 2016.

Flange Manufacturer: Gebhardt-Stahl GmbH.

Duct Manufacturer: ath Service GmbH

Product covered by this document:-

Premium 20 D, Premium 30 D, Premium 40 D and P 40 C slide on flanges

Test Results

Classes A, B, C and D (positive and negative) for:
J2 on the Premium 20 D flange
J3 on the Premium 30 D flange
J4 on the Premium 30 D flange
J4 on the Premium 40 D flange
J5 on the Premium 40 D flange

Classes A, B, C & D (positive and negative) for:
J5 on the P 40 C flange
J6 on the P 40 C flange

Full details available in BSRIA Report Number: 60700/1

Test Engineer: A Freeth Approved by: M Roper

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Premium-Flanges



- High torsion rigidity through clinching
- Flange and corner build an extrem rigid unit
- Manufactured with double bead
- Flanges with integral Butyl-sealant tested to DW 144, Classes A, B, C and D
- Butyl-sealant tested to DIN EN ISO 846
- Butyl-sealant suitable for powder coating
- Flanges with integrated Butyl sealant suitable for air-tightness class D (TÜV-Nord certified) / ATC class 2

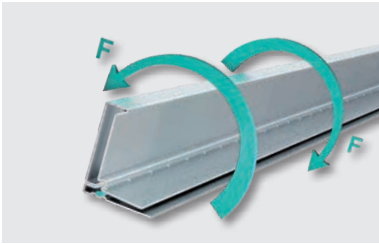
Premium-Flanges with Butyl-sealant

Item No.	Description	Material	Length	PU
301 050 402	Premium 20 D-Butyl	Galvanized	5.000 mm	500 m
301 050 410	Premium 20 D-Butyl	Galvanized	2.500 mm	250 m
301 050 502	Premium 30 D-Butyl	Galvanized	5.000 mm	500 m
301 050 506	Premium 30 D-Butyl	Galvanized	2.500 mm	250 m
301 030 613	Premium 40 D-Butyl	Galvanized	5.000 mm	500 m
301 030 615	Premium 40 D-Butyl	Galvanized	2.500 mm	250 m



Premium-Flanges

Item No.	Description	Material	Length	PU
301 050 403	Premium 20	Galvanized	5.000 mm	500 m
301 050 503	Premium 30	Galvanized	5.000 mm	500 m
301 030 657	Premium 40	Galvanized	5.000 mm	500 m



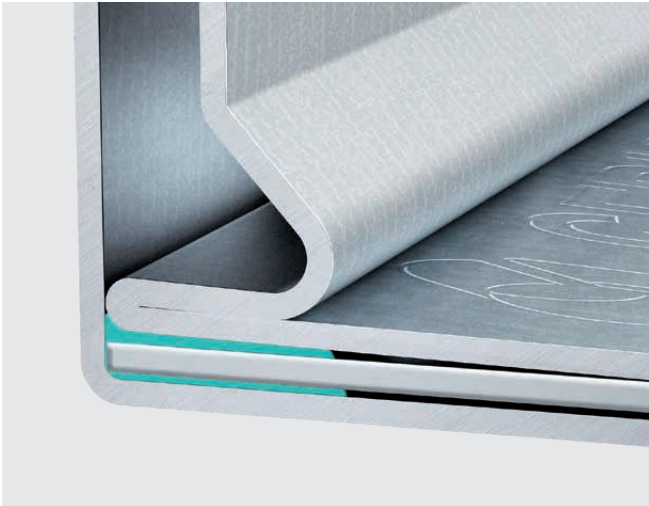
The high torsion rigidity in combination with the clinching guarantees maximum stability and easy assembly.

P-Flanges

- Flanges with integral Butyl-sealant suitable for air-tightness class C (TÜV-Nord certified) / ATC class 3
- P40 C-Butyl: Tested to DW 144, classes A, B, C and D
- Butyl-sealant tested to DIN EN ISO 846
- Butyl-sealant suitable for powder coating

P-Flanges with Butyl-sealant

Item No.	Description	Material	Length	PU
301 050 311	P20 C-Butyl	Galvanized	5.000 mm	500 m
301 050 415	P30 C-Butyl	Galvanized	5.000 mm	500 m
301 030 659	P40 C-Butyl	Galvanized	5.000 mm	500 m

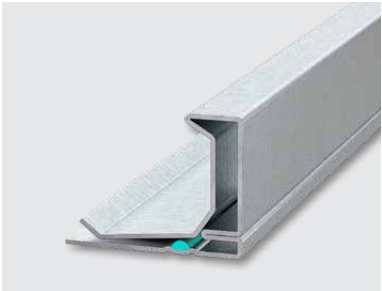


S-Flanges with Butyl-sealant

- Cost-effective flange system
- Flanges with integral Butyl-sealant suitable for air-tightness class C (TÜV-Nord certified) / ATC class 3
- Butyl-sealant tested to DIN EN ISO 846
- Butyl-sealant suitable for powder coating

S-Flanges with Butyl-sealant

Item No.	Description	Material	Length	PU
301 010 515	S20 C-Butyl	Galvanized	5.000 mm	500 m



Item No.	Description	Material	Length	PU
301 020 530	S30 C-Butyl	Galvanized	5.000 mm	500 m

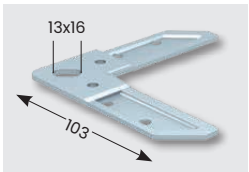
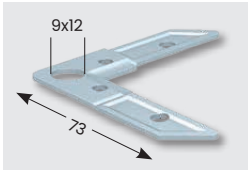


Corners

- Suitable for flange systems Premium, P & S
- Clearance 32 mm
- Cost-effective corners

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 018	SL20/3V	Zinc plated	Slotted hole	–	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 070 018	SL30/3V	Zinc plated	Slotted hole	–	250 pcs.	12.000 pcs.

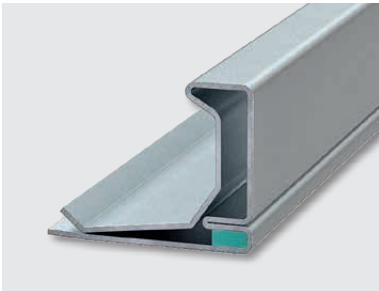


S-Flanges

- Flanges available with integral Gel-sealant
- Sealant tested to DIN EN ISO 846
- Open-rolled type available, e.g. for building flexible connectors

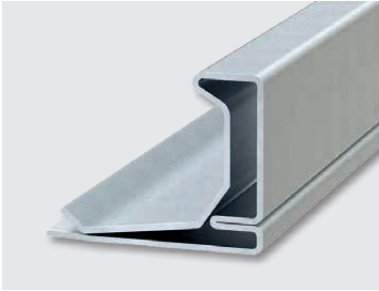
S-Flanges with GEL-sealant

Item No.	Description	Material	Length	PU
301 050 400	S20-Gel	Galvanized	5.000 mm	500 m
301 020 510	S30-Gel	Galvanized	5.000 mm	500 m
301 030 600	S40-Gel	Galvanized	5.000 mm	500 m



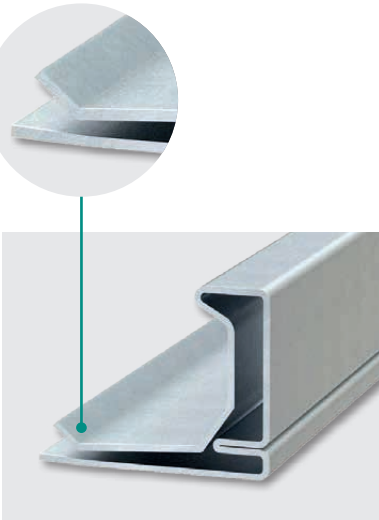
S-Flanges

Item No.	Description	Material	Length	PU
301 010 500	S20	Galvanized	5.000 mm	500 m
301 010 510	S20	Galvanized	2.500 mm	250 m
301 020 500	S30	Galvanized	5.000 mm	500 m
301 020 525	S30	Galvanized	2.500 mm	250 m
301 030 652	S40	Galvanized	5.000 mm	500 m



S-Flanges open-rolled

Item No.	Description	Material	Length	PU
301 010 504	S20-open	Galvanized	5.000 mm	500 m
301 020 504	S30-open	Galvanized	5.000 mm	500 m
301 030 649	S40-open	Galvanized	5.000 mm	500 m



ISO-Flange & Gebhardt ISO-PVC

ISO-Profile

- For air ducts with internal insulation

Item No.	Description	Material	Length	PU
301 600 010	S20 ISO	Galvanized	5.000 mm	500 m
301 610 010	S30 ISO	Galvanized	5.000 mm	500 m



Gebhardt ISO-PVC

- PVC profiles for internal insulation
- The PVC profile is suitable for both the S20 ISO and the S30 ISO
- Prevents the formation of thermal bridges

Item No.	Description	Length	Insulation thickness*	PU	Pallet
301 900 020	ISO-PVC 20	2.500 mm	20 mm	250 m	5.000 m
301 900 050	ISO-PVC 50	2.500 mm	50 mm	175 m	5.000 m

*more thicknesses upon request



The connection of the ISO flange S20 or S30 with the Gebhardt ISO-PVC profile prevents the formation of thermal bridges and avoids sound development.

Corners 20, 30 & 40

Corners 20

- Suitable for flange systems Premium, P & S
- Clearance 32 mm

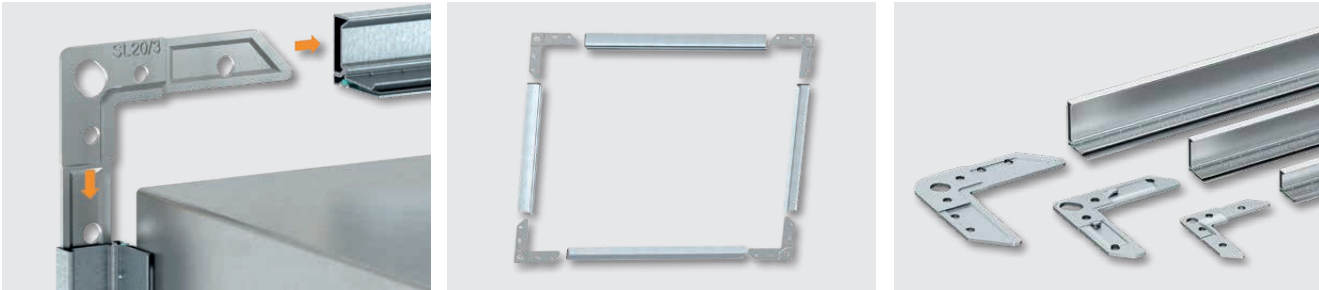
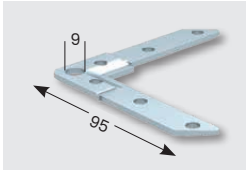
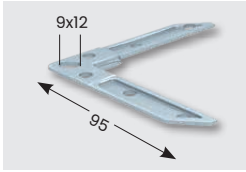
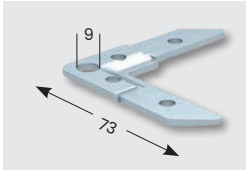
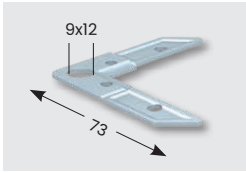
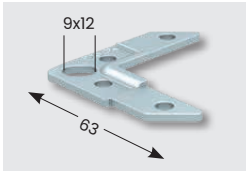
Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 020	P20/3K	Zinc plated	Slotted hole	Short leg	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 016	SL20/3	Zinc plated	Slotted hole	–	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 010	P20/3	Zinc plated	Round hole	–	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 220 016	SL20/3L	Zinc plated	Slotted hole	Long leg	500 pcs.	24.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 220 010	P20/3L	Zinc plated	Round hole	Long leg	500 pcs.	24.000 pcs.



Corners 30

- Suitable for flange systems Premium, P & S
- Clearance 32 mm

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 070 025	SL30/3K	Zinc plated	Slotted hole	Short leg	250 pcs.	12.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 070 010	SL30/3	Zinc plated	Slotted hole	–	250 pcs.	12.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 070 020	SKL30/3	Zinc plated	Slotted hole	Small hole	250 pcs.	12.000 pcs.

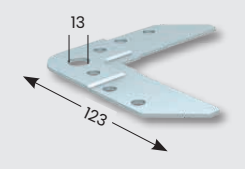
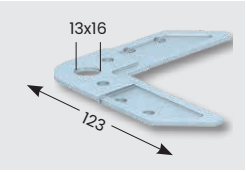
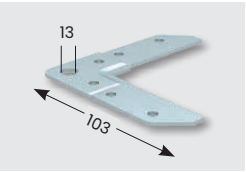
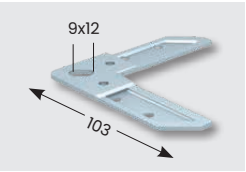
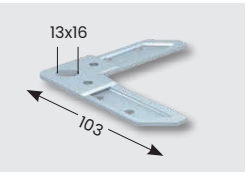
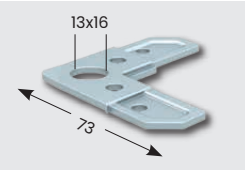
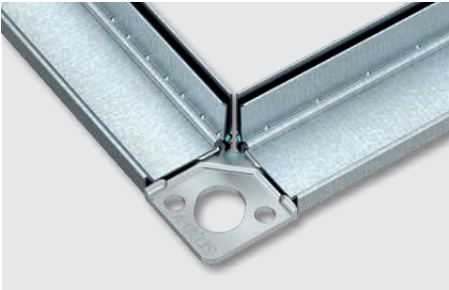
Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 050 500	S30/4	Zinc plated	Round hole	–	250 pcs.	12.000 pcs.

Corners 40

- Suitable for flange systems Premium, P & S
- Clearance 32 mm

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 080 011	P40/V	Zinc plated	Slotted hole	Standard leg	150 pcs.	5.400 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 080 010	P40/4	Zinc plated	Round hole	–	150 pcs.	5.400 pcs.



Corners 20 & 30 with notch

- Suitable for flange systems Premium, P & S
- Clearance 32 mm

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 010 019	P20/3VH	Zinc plated	Slotted hole	With notch	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 220 025	SL20/3LH	Zinc plated	Slotted hole	With notch	500 pcs.	24.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 550 519	S30/3H	Zinc plated	Slotted hole	With notch	250 pcs.	12.000 pcs.

Corners 20, 30 & 40 with short clearance

- Suitable for flange systems Premium, P & S
- Clearance ≤ 5 mm

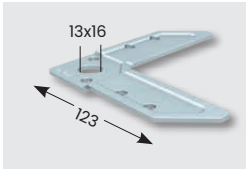
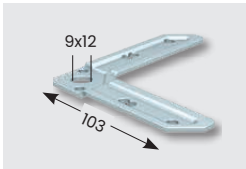
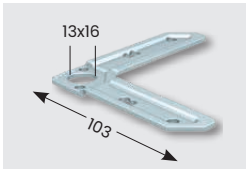
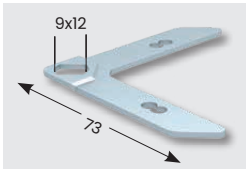
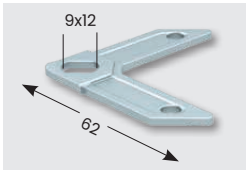
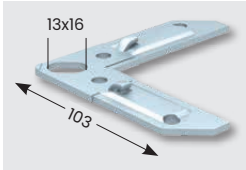
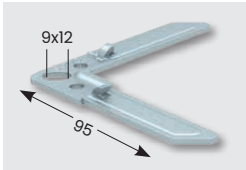
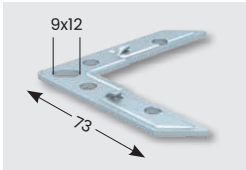
Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 020 020	D20/3VK	Zinc plated	Slotted hole	Short leg	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 020 010	D20/3	Zinc plated	Slotted hole	–	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 090 010	SD30/V	Zinc plated	Slotted hole	–	250 pcs.	12.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 090 015	SKD30/V	Zinc plated	Slotted hole	Small hole	250 pcs.	12.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 080 050	D40/V	Zinc plated	Slotted hole	–	150 pcs.	5.400 pcs.



L-Flanges & corners

L-Flanges

- Solide flange for simple ducts
- Manufactured with double bead

Item No.	Description	Material	Length	PU
301 500 010	L20	Galvanized	5.000 mm	500 m
301 520 010	L30	Galvanized	5.000 mm	500 m

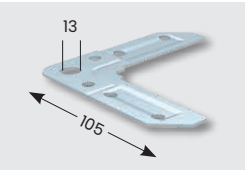
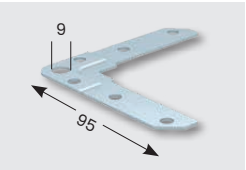
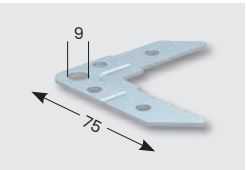
Corners L20 & L30

- Clearance 30 mm

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 500 010	L20/3K	Zinc plated	Round hole	Short leg	500 pcs.	27.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 510 010	L20/3L	Zinc plated	Round hole	Long leg	500 pcs.	24.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 540 010	L30/V	Zinc plated	Round hole	–	250 pcs.	11.250 pcs.



Stainless steel flanges

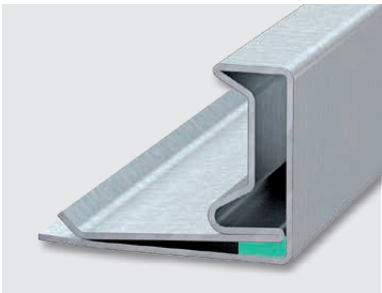
Stainless steel flanges

- Flange 20 and 30 made of AISI 304 / 316 L also available with integral Butyl-sealant
- Flanges with integral Butyl-sealant suitable for air-tightness class C (TÜV-Nord certified) / ATC 3
- Butyl-sealant tested to DIN EN ISO 846

Item No.	Description	Material	Grade	Length	PU
301 010 340	P20-AISI 304	Stainless	AISI 304	5.000 mm	120 m
301 010 345	P20-AISI 304	Stainless	AISI 304	2.500 mm	60 m
301 010 341	P20-AISI 304 Butyl	Stainless	AISI 304	5.000 mm	120 m
301 040 441	P20-AISI 316 L	Stainless	AISI 316 L	5.000 mm	120 m
301 040 445	P20-AISI 316 L Butyl	Stainless	AISI 316 L	5.000 mm	120 m

Item No.	Description	Material	Grade	Length	PU
301 020 443	P30-AISI 304	Stainless	AISI 304	5.000 mm	120 m
301 020 444	P30-AISI 304	Stainless	AISI 304	2.500 mm	60 m
301 040 447	P30-AISI 304 Butyl	Stainless	AISI 304	5.000 mm	120 m
301 040 450	P30-AISI 304 Butyl	Stainless	AISI 304	2.500 mm	60 m
301 040 448	P30-AISI 316 L	Stainless	AISI 316 L	5.000 mm	120 m
301 040 449	P30-AISI 316 L Butyl	Stainless	AISI 316 L	5.000 mm	120 m

Item No.	Description	Material	Grade	Length	PU
301 030 651	S40-AISI 304	Stainless	AISI 304	5.000 mm	100 m
301 030 440	S40-AISI 316 L	Stainless	AISI 316 L	5.000 mm	100 m



Stainless steel corners

Corners 20, 30 & 40 stainless

- Clearance 32 mm

Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 010 343	SL20/3E-AISI 304	Stainless	AISI 304	slotted hole	standard leg	100 pcs.	6.400 pcs.
302 010 043	SL20/3E-AISI 316 L	Stainless	AISI 316 L	slotted hole	standard leg	100 pcs.	6.400 pcs.

Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 220 040	SL20/3LE-AISI 304	Stainless	AISI 304	Slotted hole	Long leg	100 pcs.	6.400 pcs.

Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 550 343	SL30/3E-AISI 304	Stainless	AISI 304	Slotted hole	Standard leg	50 pcs.	6.400 pcs.
302 050 043	SL30/3E-AISI 316 L	Stainless	AISI 316 L	Slotted hole	Standard leg	50 pcs.	6.400 pcs.

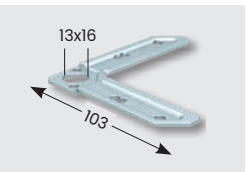
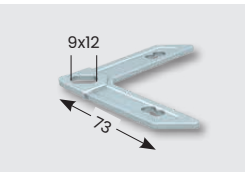
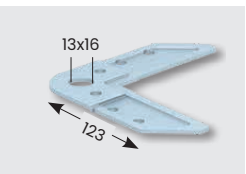
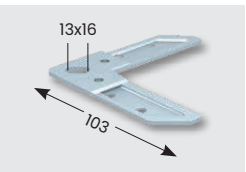
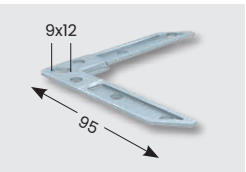
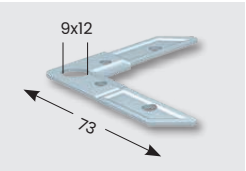
Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 080 501	P40/VE-AISI 304	Stainless	AISI 304	Slotted hole	Standard leg	100 pcs.	5.400 pcs.
302 080 440	P40/VE-AISI 316 L	Stainless	AISI 316 L	Slotted hole	Standard leg	100 pcs.	5.400 pcs.

Corner stainless with short clearance

- Clearance ≤ 5 mm

Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 020 340	D20/VE-AISI 316	Stainless	AISI 316 L	Slotted hole	Standard leg	100 pcs.	6.400 pcs.

Item No.	Description	Material	Grade	Screw hole	Features	PU	Pallet
302 090 340	SD30/VE-AISI 316	Stainless	AISI 316 L	Slotted hole	Standard leg	50 pcs.	6.400 pcs.



Aluminium-Flanges

Aluminium-Flanges

Item No.	Description	Material	Grade	Length	Pallet
301 010 375	P20-Alu	Aluminium	AlMg3	5.000 mm	120 m
301 010 379	P20-Alu	Aluminium	AlMg3	2.500 mm	60 m
301 020 470	P30-Alu	Aluminium	AlMg3	5.000 mm	120 m
301 020 472	P30-Alu	Aluminium	AlMg3	2.500 mm	60 m



Aluminium-Corners

Corners 20 & 30 aluminium

- Clearance 32 mm

Item No.	Description	Material	Grade	Screw hole	PU	Pallet
302 010 075	SL20/3A	Aluminium	AlMg3	Slotted hole	100 pcs.	6.400 pcs.

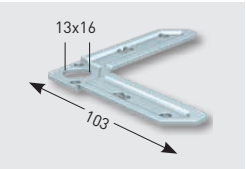
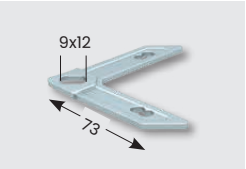
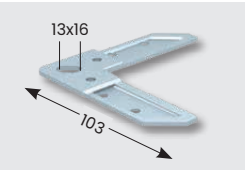
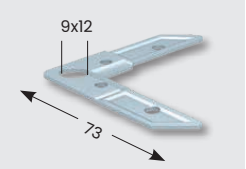
Item No.	Description	Material	Grade	Screw hole	PU	Pallet
302 050 075	SL30/3A	Aluminium	AlMg3	Slotted hole	50 pcs.	6.400 pcs.

Corner aluminium with short clearance

- Clearance ≤ 5 mm

Item No.	Description	Material	Grade	Screw hole	PU	Pallet
302 020 070	D20/A	Aluminium	AlMg3	Slotted hole	100 pcs.	6.400 pcs.

Item No.	Description	Material	Grade	Screw hole	PU	Pallet
302 090 070	SD30/A	Aluminium	AlMg3	Slotted hole	50 pcs.	6.400 pcs.



Corners for integral flanges

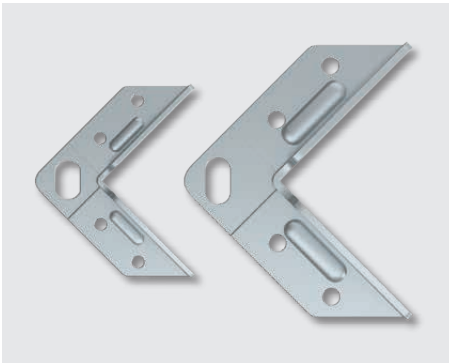
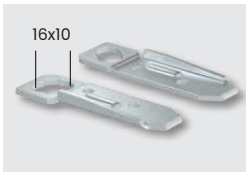
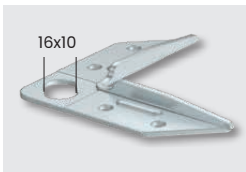
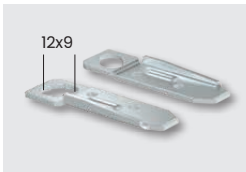
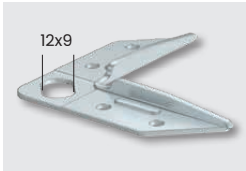
- One- and two-part corner available
- Suitable for various integral flanges

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 810 010	AHI 20	Zinc plated	Slotted hole	One-part	500 pcs.	24.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 800 010	E20-PAR	Zinc plated	Slotted hole	Two-part	500 pcs.	18.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 820 010	HI 30	Zinc plated	Slotted hole	One-part	100 pcs.	8.000 pcs.

Item No.	Description	Material	Screw hole	Features	PU	Pallet
302 802 010	E30-PAR	Zinc plated	Slotted hole	Two-part	100 pcs.	7.200 pcs.



Sheet metal fasteners

Sheet metal fasteners/Splitter pins

- With mounted sealing washer
- Washer with middle-bridge
- Quick and easy assembly of air turns and duct splitters
- Suitable for various gauges
- Also suitable for mounting lamellas in weather louvres
- Drill hole diameter 10 mm

Item No.	Description	Material	For gauge	PU	Pallet
306 035 010	Fastener PLUS - small	Zinc plated	0,75 mm–0,90 mm	1.000 pcs.	50.000 pcs.
306 050 010	Fastener PLUS - big	Zinc plated	0,75 mm–1,20 mm	1.000 pcs.	50.000 pcs.
306 010 013	Fastener PLUS - big AISI 316 Ti	Stainless-AISI 316	0,75 mm–1,20 mm	200 pcs.	–

Sealing pad

- Reduces leakage
- Foil laminated
- Suitable for installations in visible areas

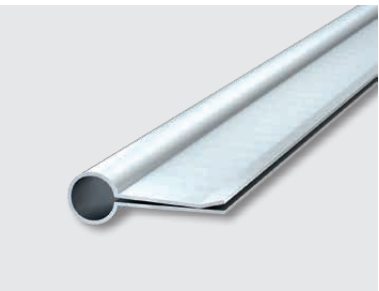
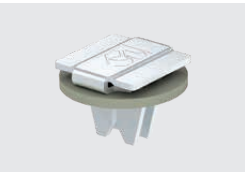
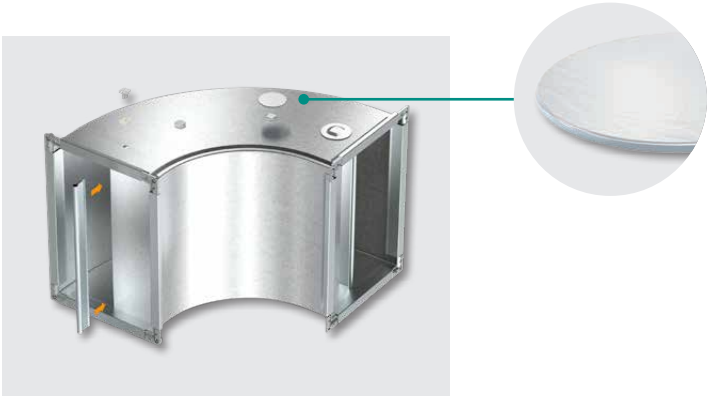


Item No.	Description	Material	PU
311 089 000	Sealing pad	Butyl	5.000 pcs.

Reinforcement profile for air turns

- Stabilizes air turns
- Avoids vibrations
- Assembly with or without threaded rods possible

Item No.	Description	Material	Length	PU
306 200 010	Reinforcement profile LBV	Galvanized	5.000 mm	500 m



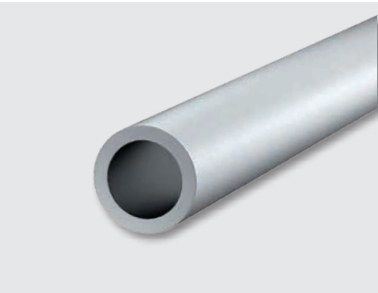
Air duct stiffening

Conduits/Reinforcing rods

- Welded tube
- Quick and easy mounting

Item No.	Description	Dimensions*	Material	Length	PU**
313 200 016	Tube 15 x 1,5	15 x 1,5 mm	Galvanized	6.000 mm	600 m
313 200 012	Tube 16 x 2,0	16 x 2,0 mm	Galvanized	6.000 mm	600 m
313 200 014	Tube 16 x 1,0	16 x 1,0 mm	Galvanized	6.000 mm	1.302 m
313 200 140	Tube 15 x 1,5 – AISI 304	15 x 1,5 mm	Stainless	6.000 mm	60 m

*Other dimensions upon request. **Alternative packings upon request.



Grip for reinforcing rod

- For cross-connections of reinforcing rods in ductwork with large cross-section
- Suitable for Gebhardt-Tubes 16 x 2, 16 x 1 & 3/8"

Item No.	Description	Material	PU
313 200 000	Grip for reinforcing rod	POM	100 pcs.



Cross-connectors for reinforcing rod

- For cross-connections of reinforcing rods in ductwork with large cross-section
- Galvanized: suitable for Gebhardt-Tubes 15 x 1,5, 16 x 2, 16 x 1 & 3/8"
- Stainless steel: suitable for Gebhardt-Tubes 15 x 1,5

Item No.	Description	Material	PU
313 200 011	Cross-connector	Zinc plated	100 pcs.
313 200 440	Cross-connector – AISI 316	AISI 316	50 pcs.



Fischer-dowel

- Metric thread M6
- Suitable for Gebhardt-Tubes 15 x 1,5, 16 x 2 & 3/8"

Item No.	Description	Material	Thread	PU	Box
313210010	Fischer-dowel	PVC/Brass	M 6	50 pcs.	1.250 pcs.



EMBY-FIX

- Galvanized: suitable for Gebhardt-Tubes 15 x 1,5, 16 x 2 & 3/8"
- Stainless steel: suitable for Gebhardt-Tube 15 x 1,5

Item No.	Description	Material	Thread	PU
313 210 012	EMBY-FIX	Zinc plated	M 8	50 pcs.
313 210 044	EMBY-FIX – AISI 304	Stainless	M 6	50 pcs.



Hexagon screws

- DIN 933-8.8
- Continuous thread

Item No.	Description	Material	PU
313 210 020	M 6 x 50 mm	Zinc plated	200 pcs.
313 210 022	M 8 x 50 mm	Zinc plated	200 pcs.
313 210 440	M 6 x 50 mm – AISI 304	Stainless	100 pcs.



Plates for air duct stiffening

Item No.	Description	Material	PU	Pallet
313 070 030	Plate 6,5 mm	Zinc plated	250 pcs.	10.000 pcs.
313 070 010	Plate 8,5 mm	Zinc plated	250 pcs.	10.000 pcs.
313 070 020	Plate 10,5 mm	Zinc plated	250 pcs.	10.000 pcs.
313 070 040	Plate 6,5 mm – AISI 304	AISI 304	100 pcs.	6.400 pcs.
313 070 440	Plate 8,5 mm – AISI 316	AISI 316	100 pcs.	6.400 pcs.
313 070 441	Plate 10,5 mm – AISI 316	AISI 316	100 pcs.	6.400 pcs.



Sealings for air duct stiffening

- Reduces leakage
- Quick and easy assembly

Item No.	Description	Material	PU
313 220 010	Sealing M 6	HDPE	1.000 pcs.
313 220 020	Sealing M 8	HDPE	1.000 pcs.



Ductwork stiffeners

- Conform to DW 144 3rd Edition 2016 specification, Figure 26
- Available with S3 rating (Stiffener S3 40 x 30 mm) and S4 rating (Stiffener 50 x 40 mm)
- Gebhardt Ductwork Stiffeners are fitted to the outside of ductwork to reinforce the ductwork and to reduce vibrations

Your advantages

- The stiffeners enable you to reinforce ductwork in a simple and cost-effective way
- Pre-drilled holes down each length ensure a convenient fixing
- No need for retrospective painting of black angle iron

Stiffener S3

- Galvanized steel Z275
- Pre-drilled holes for fixing
- Holes at a distance of 125 mm down each length

Item No.	Description	Material	Dimensions	Length	PU
313 300 010	Stiffener S3	Galvanized	40 mm x 30 mm x 1.75 mm	5.000 mm	250 m

Stiffener S4

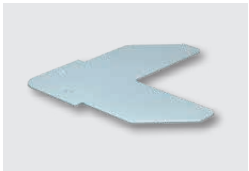
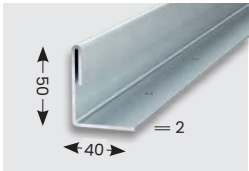
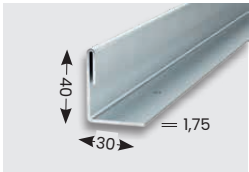
- Galvanized steel Z275
- Pre-drilled holes for fixing
- Holes at a distance of 125 mm down each length

Item No.	Description	Material	Dimensions	Length	PU
313 310 010	Stiffener S4	Galvanized	50 mm x 40 mm x 2.0 mm	5.000 mm	250 m

Stiffener Corners GS3 & GS4

Item No.	Description	Material	PU
313 400 010	Stiffener Corner GS3	Zinc plated	100 pcs.

Item No.	Description	Material	PU
313 410 010	Stiffener Corner GS4	Zinc plated	100 pcs.



Turning vane & track

- Complies with the requirements of DW 144
- Reduces noise and vibration in duct bends
- Single section Turning vane made from a single steel strip avoids vane splitting
- Turning vane & Track manufactured from corrosion resistant galvanized steel

Turning vane

- Galvanized steel
- Double skin Turning vane made from a single steel strip
- High quality Turning vane manufactured with continuous central seam to eliminate Vane splitting

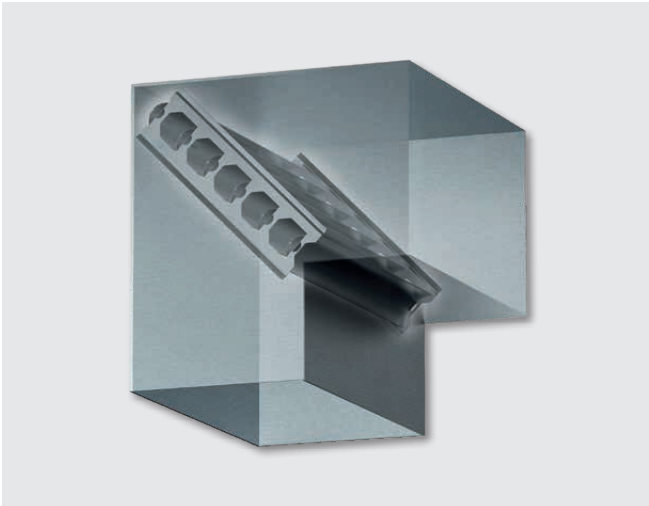
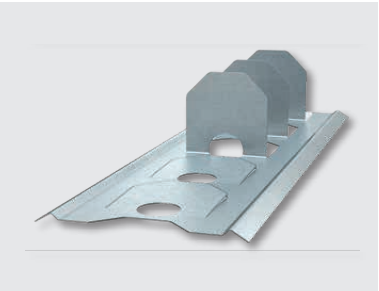
Item No.	Description	Material	Length	PU
306 300 010	Turning vane	Galvanized	3.000 mm	30 m
306 300 040	Turning vane AISI 316 L	AISI 316 L	3.000 mm	30 m
306 300 070	Turning vane	Aluminium	3.000 mm	30 m



Mounting Track

- Galvanized steel
- Mounting Track for Turning vanes
- Pre-punched mounting tongues each 60 mm

Item No.	Description	Material	Length	PU
306 300 020	Mounting Track	Galvanized	3.000 mm	30 m
306 300 340	Mounting Track AISI 316 L	AISI 316 L	3.000 mm	30 m
306 300 075	Mounting Track	Aluminium	3.000 mm	30 m



flex.x – flexible duct connector system

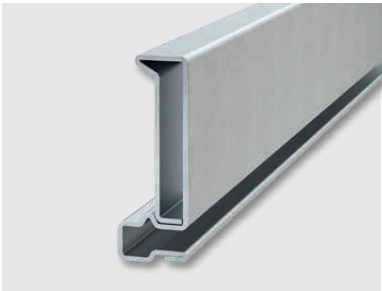
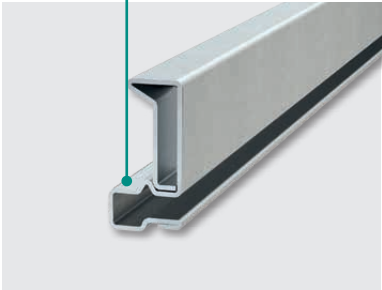
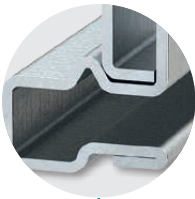
- Variable self-assembly system
- For construction of flexible duct connectors in HVAC-Systems
- Avoids transfer of vibrations in ventilation systems
- Quick and easy assembly
- No gasket tape needed for air-tight duct connection

flex.x-Flanges

- Suitable for Gebhardt-clamps and Gebhardt-cleats for duct connection

Item No.	Description	Material	Length	PU
309 500 010	flex.x-Flange 20	Galvanized	5.000 mm	500 m
309 500 040	flex.x-Flange 20 AISI 304	AISI 304	5.000 mm	100 m
309 500 440	flex.x-Flange 20 AISI 316	AISI 316	5.000 mm	100 m

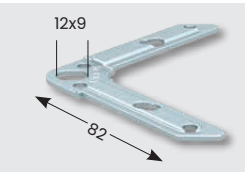
Item No.	Description	Material	Length	PU
309 510 010	flex.x-Flange 30	Galvanized	5.000 mm	500 m
309 510 040	flex.x-Flange 30 AISI 304	AISI 304	5.000 mm	100 m
309 510 440	flex.x-Flange 30 AISI 316	AISI 316	5.000 mm	100 m



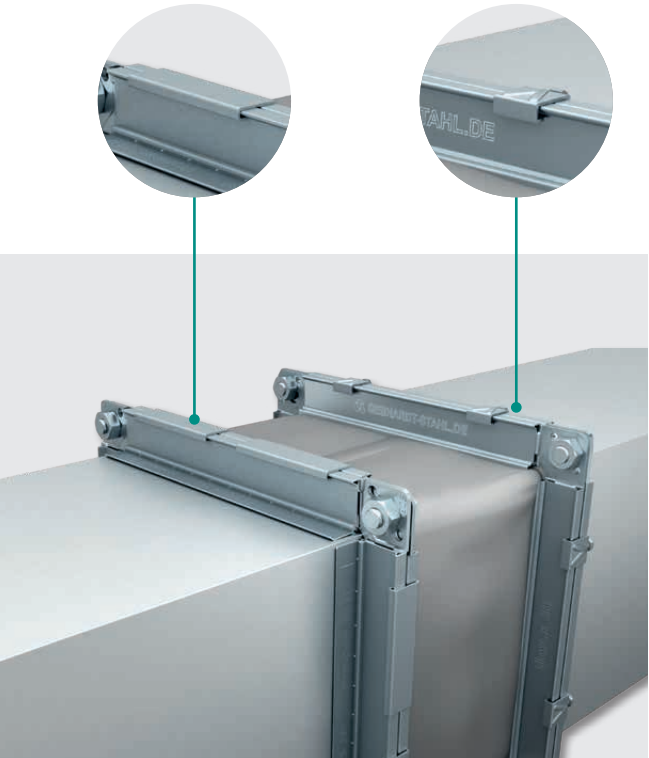
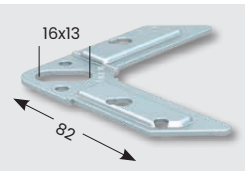
flex.x-Corners

- Slotted screw hole
- Adjusting holes for easy aligning of the flex.x duct connector during duct fitting
- Compatible with Gebhardt Punch Press

Item No.	Description	Material	Screw hole	PU	Pallet
309 600 010	flex.x-Corner 20	Zinc plated	Slotted hole	500 pcs.	27.000 pcs.
309 600 040	flex.x-Corner 20 AISI 316	AISI 316	Slotted hole	100 pcs.	10.000 pcs.



Item No.	Description	Material	Screw hole	PU	Pallet
309 610 010	flex.x-Corner 30	Zinc plated	Slotted hole	250 pcs.	12.000 pcs.
309 610 040	flex.x-Corner 30 AISI 316	AISI 316	Slotted hole	100 pcs.	10.000 pcs.



flex.x – flexible duct connector system



flex.x-PVC

- Special-PVC with sealing lip on both sides, for building rectangular flexible duct connectors
- Also suitable for round compensators, colour: grey
- Temperature resistance: -30 °C to +80 °C
- Tested to DIN EN ISO 846

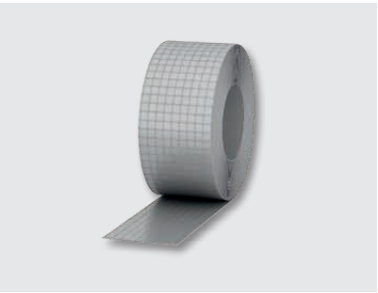
Item No.	Description	Width	BSK	PU	Pallet
309 730 010	flex.x-PVC 105	105 mm	Flammability – B2	70 m	350 m
309 740 010	flex.x-PVC 130	130 mm	Flammability – B2	70 m	350 m
309 750 010	flex.x-PVC 155	155 mm	Flammability – B2	70 m	350 m
309 760 010	flex.x-PVC 180	180 mm	Flammability – B2	70 m	350 m



flex.x-Fusion Tape

- Special-PVC-fabric, colour: grey
- Used to fuse the both ends of the flex.x-PVC permanently
- Low flammability: DIN 4102 – B1, temperature resistance: -30 °C to +70 °C
- Tested to DIN EN ISO 846

Item No.	Description	Width	Rolls	PU
309 800 010	flex.x-Fusion Tape	20 mm	50 m	500 m



flex.x-Atex

- Special-PVC with sealing lip on both sides, suitable for antistatic EX-protected area
- For building rectangular flexible duct connectors, colour: black
- Temperature resistance -10 °C to +70 °C

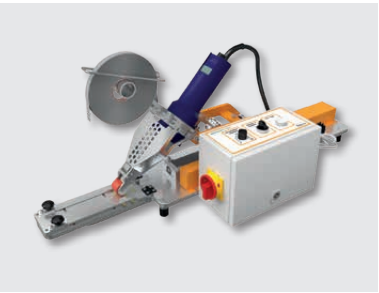
Item No.	Description	Width	PU	Pallet
309 770 010	flex.x-ATEX 130	130 mm	65 m	260 m
309 780 010	flex.x-ATEX 155	155 mm	65 m	260 m
309 790 010	flex.x-ATEX 180	180 mm	65 m	260 m
309 800 020	flex.x-Fusion Tape ATEX	20 mm	50 m	–



Hot air welding device

- For details see page 80

Item No.	Description	PU
330 010 010	Welding device	1 pc.



Flexible duct connectors

- For construction of flexible connectors in HVAC-systems
- Suitable for air-tightness class C (TÜV-Nord certified)
- Avoids transfer of vibrations in ventilation systems
- Mounting recommendation available

Flexible connectors – Polyester/PVC

- Polyester fabric with PVC coating secured to sheet metal on both sides
- Colour of fabric: grey
- Flammable: DIN 4102 – B2
- Suitable for air-tightness class C
- Temperature resistance: -30 °C to +70 °C
- Tested to DIN EN ISO 846

Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 022 010	EV 35/40/35	110 mm	Galvanized	25 m	1.400 m
309 023 010	EV 35/60/35	130 mm	Galvanized	25 m	1.400 m
309 024 010	EV 35/110/35	180 mm	Galvanized	25 m	1.200 m
309 010 010	EV 45/60/45*	150 mm	Galvanized	25 m	1.400 m
309 100 010	EV 45/100/45	190 mm	Galvanized	25 m	1.200 m
309 110 010	EV 45/120/45	210 mm	Galvanized	25 m	800 m
309 020 010	EV 65/95/65*	225 mm	Galvanized	25 m	800 m
309 010 040	EV 45/60/45 – AISI 304*	150 mm	Stainless	25 m	1.400 m
309 100 040	EV 45/100/45 – AISI 304	190 mm	Stainless	25 m	1.200 m
309 110 040	EV 45/120/45 – AISI 304	210 mm	Stainless	25 m	800 m

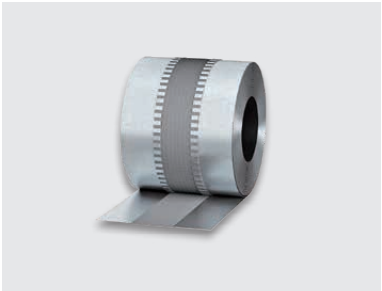
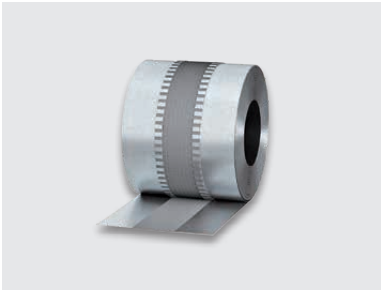
*TÜV-Nord certified **Other dimensions upon request

Flexible connectors – Polyester/PVC – B1

- Polyester fabric with PVC coating secured to sheet metal on both sides
- Colour of fabric: grey
- Low-flammable: DIN 4102 – B1
- Temperature resistance: -30 °C to +70 °C
- Tested to DIN EN ISO 846

Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 110 020	EV 45/120/45 – B1*	210 mm	Galvanized	50 m	1.600 m

*TÜV-Nord certified **Other dimensions upon request



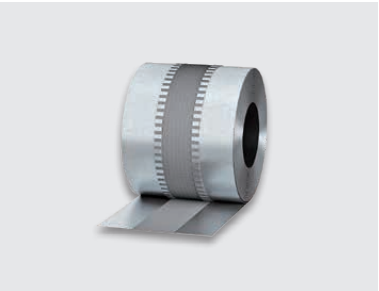
Flexible connectors – Fibreglass/PU

- Fibreglass fabric with PU coating secured to sheet metal on both sides
- Colour of fabric: silver grey
- Temperature resistance: -30 °C to +100 °C
- Fire resistance: M0 and +400 °C/2H



Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 120 015	EV 35/40/35 – PU	110 mm	Galvanized	25 m	1.400 m
309 120 020	EV 35/60/35 – PU	130 mm	Galvanized	25 m	1.400 m
309 120 010	EV 45/60/45 – PU*	150 mm	Galvanized	25 m	1.400 m
309 120 022	EV 45/100/45 – PU	190 mm	Galvanized	25 m	800 m
309 120 025	EV 45/120/45 – PU	210 mm	Galvanized	25 m	800 m
309 120 030	EV 70/100/70 – PU	240 mm	Galvanized	25 m	800 m
309 120 040	EV 45/60/45 – PU – AISI 304	150 mm	Stainless	25 m	1.400 m
309 120 045	EV 45/100/45 – PU – AISI 304	190 mm	Stainless	25 m	1.200 m

*TÜV-Nord certified ** Other dimensions upon request



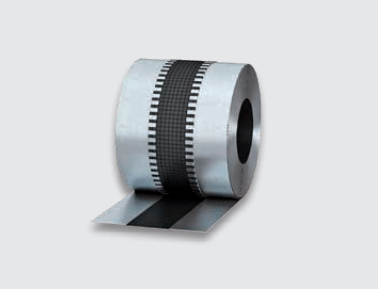
Flexible connectors – Fibreglass/Neoprene

- Fibreglass fabric with Neoprene coating secured to sheet metal on both sides
- Colour of fabric: black
- Temperature resistance: -20 °C to +100 °C
- Fire resistance: M1
- Comply with the requirements of BS 476 Part 7 (Rated class1)



Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 030 010	EV 45/60/45 – Glas/Neop*	150 mm	Galvanized	25 m	1.400 m
309 040 010	EV 65/95/65 – Glas/Neop*	225 mm	Galvanized	25 m	800 m

*TÜV-Nord certified **Other dimensions upon request



Flexible duct connectors

Flexible connectors – Fibreglass/Alu

- Fibreglass fabric with single sided Aluminium coating secured to sheet metal on both sides
- Colour of fabric: silver
- Temperature resistance: -40 °C to +500 °C

Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 050 010	EV 45/60/45 – Glas/Alu	150 mm	Galvanized	25 m	1.400 m
309 060 010	EV 65/95/65 – Glas/Alu	225 mm	Galvanized	25 m	800 m

**Other dimensions upon request

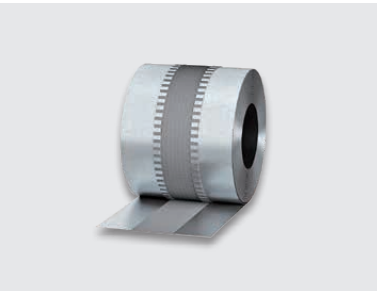


Flexible connectors – Fibreglass/Silicon

- Fibreclass fabric with silicon coating secured to sheet metal on both sides
- Colour of fabric: silver grey
- Temperature resistance: -50 °C to +200 °C

Item No.	Description	Effective length**	Sheet metal	PU	Pallet
309 120 100	EV 45/60/45 – Glas/Sil	150 mm	Galvanized	25 m	1.400 m

**Other dimensions upon request

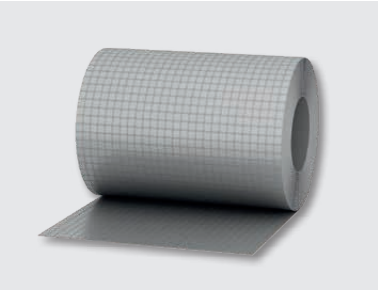


Flexible strips

- For construction of flexible connectors in HVAC-systems
- Tested to DIN EN ISO 846 (PVC + PVC-BI)



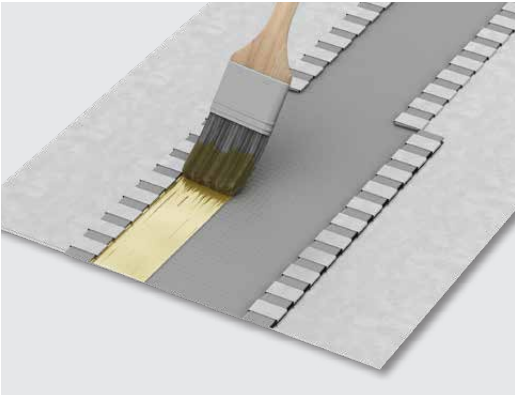
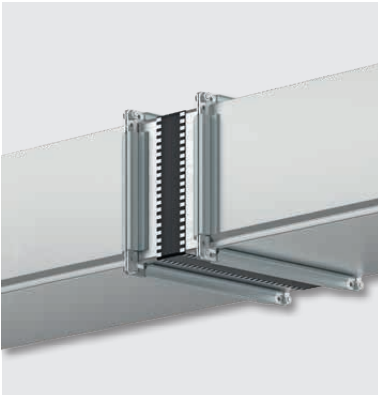
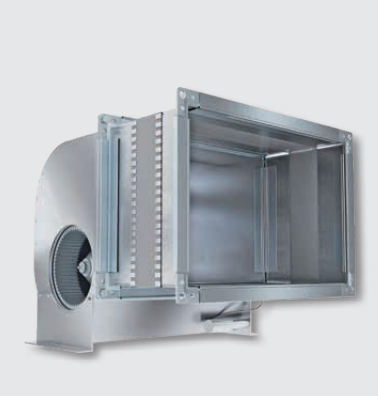
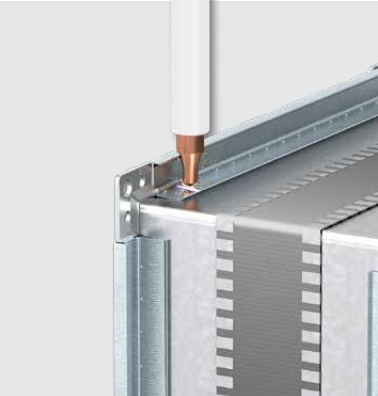
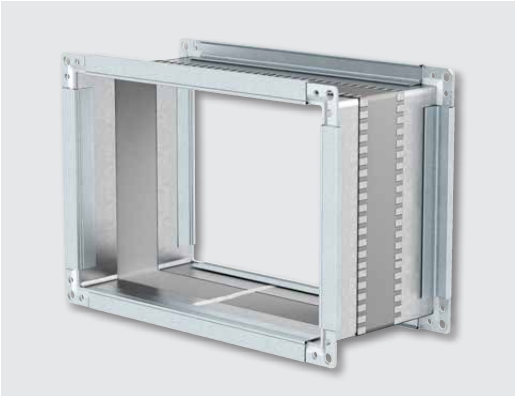
Item No.	Description	Width	PU
309 100 000	Polyester/PVC	Various widths	50 m
309 330 000	Polyester/PVC – BI	Various widths	50 m
309 320 000	Fibreglass/PU	Various widths	50 m
309 240 000	Fibreglass/Neoprene	Various widths	50 m
309 340 000	Fibreglass/Aluminium	Various widths	50 m



PVC-Adhesive

- Suitable for PVC coated fabric
- Colour: transparent
- Temperature resistance: -30 °C to +100 °C

Item No.	Description	Can	PU
309 410 000	PVC-Adhesive	850 g	6 pcs.



Repair sprays

Zinc-Alu spray

- Prevents metal surfaces from rust and corrosion
- Quick drying formular
- High covering power

Item No.	Description	Can	PU	Pallet
309 420 010	Zinc-Alu spray	400 ml	12 pcs.	840 pcs.



Zinc Alu spray – bright

- Ideally suited for repairing damaged zinc surfaces
- Heat-resistant corrosion protection
- Creates a bright finish
- Scratch-, brush- and smudge-resistant

Item No.	Description	Can	PU	Pallet
309 420 015	Zinc Alu spray – bright	400 ml	12 pcs.	840 pcs.



Stainless steel spray

- For touching up or simulating stainless steel surfaces
- Highquality nitrocombi decorative paint
- Quick drying formular
- Resists high levels of abrasion

Item No.	Description	Can	PU	Pallet
309 420 040	Stainless steel spray	400 ml	12 pcs.	840 pcs.



Technical sprays

Galv-Cleaner

- Highly concentrated universal cleaning spray for all maintenance and assembly work
- Optimal for removing zinc deposits on metal surfaces, roller sets, roller bearings, press stencils, punches etc.
- Increases the service life of machines and tools
- Helps reduce roller wear and tool damage

Item No.	Description	Can	PU	Pallet
309 420 070	Galv-Cleaner	500 ml	12 pcs.	1.008 pcs.



Leak-Finder

- Suitable for testing the tightness of ventilation systems, gas pipes, pressurised boilers, valves, screwed and welded joints
- Convenient and accurate application in hard-to-reach areas
- Quick and easy use
- With corrosion protection agent
- Approved by the German Technical and Scientific Association for Gas and Water (DVGW)

Item No.	Description	Can	PU	Pallet
309 420 050	Leak-Finder	400 ml	12 pcs.	840 pcs.



Air duct sealants

- Designed for usage in ventilation systems
- Suitable for sealing ductwork and airhandling units (AHUs)

Gebhardt-PLAST

- Raw material basis: polyacrylic dispersion
- Colour: grey
- Free from solvents and silicone
- LABS-free
- Odour-neutral
- Resistant to ageing and weathering
- Excellent adhesive properties
- Temperature resistance: -20 °C to +80 °C
- According to DIN EN ISO 846



Item No.	Description	Package	Quantity	PU	Pallet
311 030 010	Gebhardt-PLAST 310 ml	Cartridge	310 ml	20 pcs.	1.200 pcs.

Item No.	Description	Package	Quantity	PU	Pallet
311 030 011	Gebhardt-PLAST 600 ml	Tube	600 ml	20 pcs.	800 pcs.

Item No.	Description	Package	Quantity	PU	Pallet
311 030 015	Gebhardt-PLAST 5 kg	Bucket	5 kg	1 pc.	72 pcs.

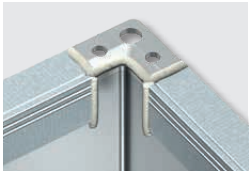
Gebhardt-PLAST M1

- Acrylic sealant
- Fire resistance class M1 / NF P92-507 (non combustible)
- Solvent- and silicone-free, odorless, brushable, sprayable and paintable sealant
- Excellent adhesion to the most common construction materials
- Resistant to ageing and weathering, lightfast, plastoelastic
- Temperature resistance: -20 °C - +80 °C



Item No.	Description	Package	Quantity	PU	Pallet
311 030 030	Gebhardt-PLAST-M1 310 ml	Cartridge	310 ml	12 pcs.	1.248 pcs.

Item No.	Description	Package	Quantity	PU	Pallet
311 030 040	Gebhardt-PLAST-M1 6 kg	Bucket	6 kg	1 pc.	90 pcs.



Gebhardt-MASTIC

- Raw material basis: Butyl rubber
- Colour: grey
- Silicone-free
- LABS-free
- Odour-neutral
- Resistant to ageing and weathering
- Suitable for interior and exterior use and kitchen extract air
- Excellent adhesive properties
- Temperature resistance: -20 °C to +70 °C
- According to DIN EN ISO 846



Item No.	Description	Package	Quantity	PU	Pallet
311 030 014	Gebhardt-MASTIC 310 ml	Cartridge	310 ml	20 pcs.	1.200 pcs.

Item No.	Description	Package	Quantity	PU	Pallet
311 030 013	Gebhardt-MASTIC 560 ml	Tube	560 ml	20 pcs.	800 pcs.

Gebhardt-Silicones

- Elastic, pasty (viscous), ready-to-use one-component (1C) sealing compound
- Good adhesion properties to most building substrates
- Resistant to ageing and weathering, lightfast and UV-resistant
- Remains permanently elastic after curing
- Colour: grey

Gebhardt-SILIC-N

- Raw material basis: Neutrally crosslinking silicone (polysiloxane)
- Temperature resistance: -60 °C - +150 °C

Item No.	Description	Package	Quantity	PU	Pallet
311 020 000	Gebhardt-SILIC-N 310 ml	Cartridge	310 ml	20 pcs.	1.200 pcs.

Gebhardt-SILIC-A

- Raw material basis: Acetate-crosslinking (vinegar crosslinking) silicone (polysiloxane)
- Temperature resistance: -60 °C - +120 °C
- Upon request

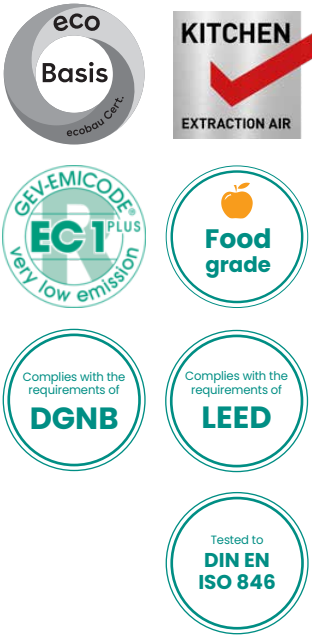
Item No.	Description	Package	Quantity	PU	Pallet
311 030 000	Gebhardt-SILIC-A 310 ml	Cartridge	310 ml	20 pcs.	1.200 pcs.



Air duct sealants

Gebhardt-MAXX

- Raw material basis: IK-SMP
- Colour: grey
- Free from solvents and silicone
- LABS-free
- Odour-neutral
- Resistant to ageing and weathering
- Suitable for interior and exterior use and kitchen extract air
- Excellent adhesive properties
- Temperature resistance: -40 °C to +80 °C, up to +100 °C short-term and once up to +120 °C
- According to DIN EN ISO 846
- Emicode EC1 certified
- Usable according to DGNB



Item No.	Description	Package	Quantity	PU	Pallet
311 050 000	Gebhardt-MAXX 290 ml	Cartridge	290 ml	20 pcs.	1.200 pcs.



Item No.	Description	Package	Quantity	PU	Pallet
311 050 010	Gebhardt-MAXX 600 ml	Tube	600 ml	20 pcs.	800 pcs.



Gebhardt-GEL for duct seamers

- Raw material basis: Mineral oil & lithium soap
- Colour: yellow
- Free from solvents and silicone
- LABS-free
- Odour-neutral
- Temperature resistance: -30 °C to +120 °C, up to +140 °C short-term
- According to DIN EN ISO 846



Item No.	Description	Package	Quantity	PU
311 060 000	Gebhardt-GEL	Hobbock (PE)	25 kg	1 pc.



Protective duct cover

- Specially harmonized with technical requirements in the field of ductwork
- Tear-proof, single sided self-adhesive film
- Protective duct cover against soiling during storage, transport and assembly
- Excellent adhesion on galvanized steel, stainless steel and aluminium
- Can be removed quickly without leaving any residue
- Resistant to weathering

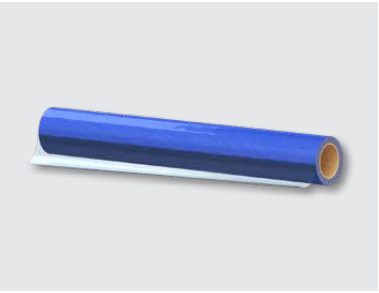
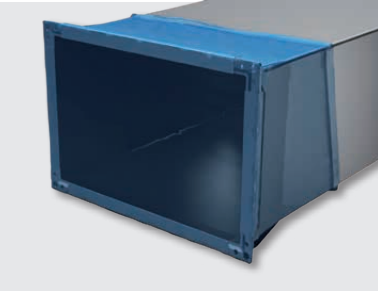
PE-film

- Polyethylen-film
- Single sided self-adhesive
- For sealing ductwork according to DIN EN ISO 846



Item No.	Description	Width*	PU	Pallet	Color
312 010 025	Film 250	250 mm	16 pcs.	256 pcs.	blue-translucent
312 010 050	Film 500	500 mm	8 pcs.	128 pcs.	blue-translucent
312 011 050	Film 500	500 mm	unboxed	144 St.	blue-translucent
312 010 075	Film 750	750 mm	4 pcs.	64 pcs.	blue-translucent
312 011 075	Film 750	750 mm	unboxed	72 St.	blue-translucent
312 010 100	Film 1000	1.000 mm	4 pcs.	64 pcs.	blue-translucent
312 011 105	Film 1000	1.000 mm	unboxed	72 St.	blue-translucent

*Other dimensions upon request



Item No.	Description	Width*	PU	Pallet	Color
312 015 100	Film 1000	1.000 mm	4 pcs.	64 pcs.	transparent

*Other dimensions upon request



PCR-film

- Post-consumer-recyled-film
- Made from 100% recycled material
- Material properties comparable with PE film
- Single sided self-adhesive



Item No.	Description	Width	PU	Pallet	Color
312 041 100	Film PCR 100	100 mm	unboxed	72 St.	grey
312 040 050	Film PCR 500	500 mm	8 pcs.	128 pcs.	grey
312 041 050	Film PCR 500	500 mm	unboxed	144 St.	grey
312 040 100	Film PCR 1000	1.000 mm	4 pcs.	64 pcs.	grey



Weather louvre (self-assembly kit) 50 mm

- Variable DIY system
- High level of stability
- Low installation costs
- Lamella carrier fixes lamellas
- Distance between lamellas 82 mm
- Frame 50 mm

Lamella for weather louvre (50 mm)

Item No.	Description	Material	Length	PU
304 030 015	Lamella (50 mm)	Galvanized	5.000 mm	100 m

Frame profile for weather louvre (50 mm)

Item No.	Description	Material	Length	PU
304 040 015	Frame profile (50 mm)	Galvanized	5.000 mm	100 m

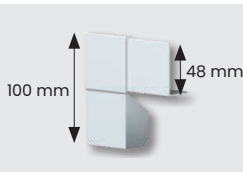
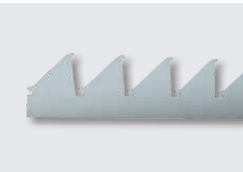
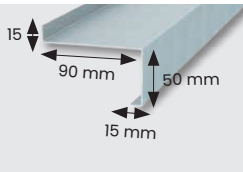
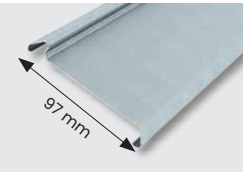
Lamella carrier for weather louvre (50 mm)/not folded

Item No.	Description	Material	Length	PU
304 040 025	Lamella carrier (50 mm)	Galvanized	2.500 mm	20 pcs.

Corner piece for weather louvre (50 mm)

- With internal mounting leg
- No welding spots or rivets on visible frame

Item No.	Description	Material	PU
304 050 025	Corner (50 mm)	Zinc plated	200 pcs.



Weather louvre (self-assembly kit) 40 mm

- Variable DIY system
- Lamella holder can be used as central bar
- Distance between lamellas 68 mm
- Frame 40 mm

Lamella for weather louvre (40 mm)

Item No.	Description	Material	Length	PU
304 030 010	Lamella (40 mm)	Galvanized	5.000 mm	125 m

Frame profiles for weather louvre (40 mm)

Item No.	Description	Material	Length	PU
304 040 011	Frame profile (40 mm)	Galvanized	5.000 mm	100 m
304 040 010	Frame profile with studs (40 mm)	Galvanized	5.000 mm	100 m

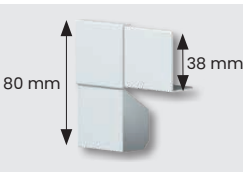
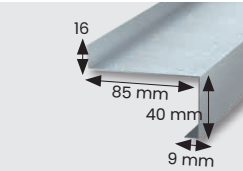
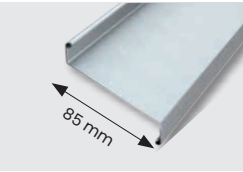
Lamella holder for weather louvre (40 mm)/not folded

Item No.	Description	Material	Length	PU
304 040 020	Lamella holder (40 mm)	Galvanized	2.500 mm	20 pcs.

Corner piece for weather louvre (40 mm)

- With internal mounting leg
- No welding spots or rivets on visible frame

Item No.	Description	Material	PU
304 050 020	Corner (40 mm)	Zinc plated	250 pcs.



Wire gratings

Wire gratings

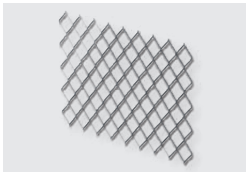
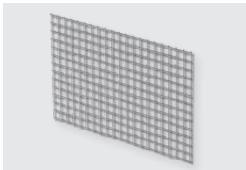
Item No.	Description	Material	Dimensions	Width	PU
304 100 010	Wire grating 12,7	Zinc plated	12,7 x 12,7 x 1,05 mm	1.020 mm	25 m
304 110 010	Wire grating 16	Zinc plated	16 x 16 x 1,20 mm	1.020 mm	25 m
304 120 010	Wire grating 19	Zinc plated	19 x 19 x 1,45 mm	1.010 mm	25 m

Expanded metal grills

Item No.	Description	Material	Dimensions	Width	PU
304 070 010	Expanded metal Q25	Z275	Q25 x 19-1 x 1	1.000 mm	25 m
304 080 010	Expanded metal Q30	Z275	Q30 x 23-1,2 x 1	1.000 mm	25 m
304 090 010	Expanded metal Q40	Z275	Q40 x 29-1,5 x 1,5	1.250 mm	25 m
304 070 040	Expanded metal Q25 - AISI 304	Stainless	Q25 x 19-1 x 1	1.000 mm	25 m

Insect screens

Item No.	Description	Material	Dimensions	Width	PU
304 150 010	Insect screen	Z275	1,5 x 1,5 x 0,3 x 0,4 mm	1.250 mm	25 m
304 160 010	Insect screen - AISI 304	Stainless	1,5 x 1,5 x 0,3 x 0,4 mm	1.250 mm	25 m



Moisture drains/drain plugs

- For installing a leak-proof drain in ventilation systems
- All parts corrosion-protected
- Fast and easy mounting

Moisture drains ST-G

- With big funnel plate
- Suitable for rectangular ducts and AHUs
- Drain draws duct into a funnel to assure drainage
- Brass, nickel-plated; funnel plate zinc plated

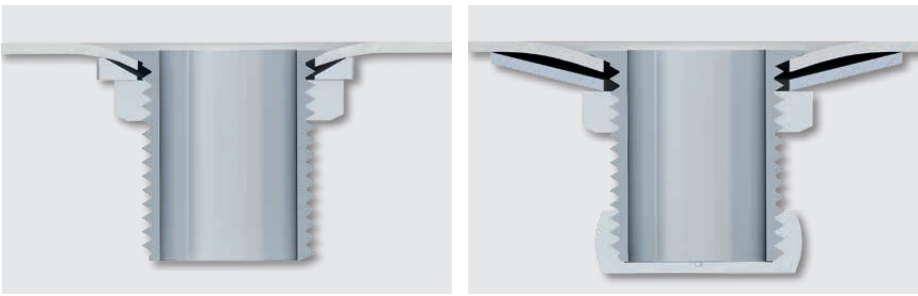
Item No.	Description	Clamping nut	Nozzle	PU
316 010 010	ST-G 1/2"	27 mm	19 mm	10 pcs.
316 020 010	ST-G 3/4"	32 mm	24 mm	10 pcs.
316 030 010	ST-G 1"	41 mm	32 mm	10 pcs.
316 040 010	ST-G 1 1/2"	55 mm	46 mm	10 pcs.



Moisture drains ST-K

- With conical plate
- Suitable for rectangular and round ducts
- Drain draws duct into sturdy conical plate
- Brass, nickel-plated

Item No.	Description	Clamping nut	Nozzle	PU
316 050 010	ST-K 1/2"	27 mm	19 mm	10 pcs.
316 060 010	ST-K 3/4"	32 mm	24 mm	10 pcs.
316 070 010	ST-K 1"	41 mm	32 mm	10 pcs.
316 080 010	ST-K 1 1/2"	55 mm	46 mm	10 pcs.



Moisture drains/drain plugs

Caps for moisture drains

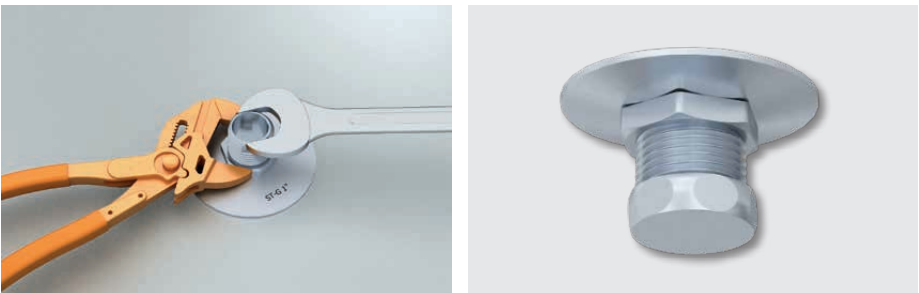
- For closing moisture drains ST-G and ST-K
- Used, when no hose is connected to moisture drain
- Brass, nickel-plated
- Washer included

Item No.	Description	PU
316 090 010	Cap 1/2"	10 pcs.
316 100 010	Cap 3/4"	10 pcs.
316 110 010	Cap 1"	10 pcs.
316 120 010	Cap 1 1/2"	10 pcs.

Instrument test port CPT-1

- With airtight plastic plug
- Opening 19 mm (3/4")
- Temperature resistant up to +72 °C, short-term up to +100 °C
- Resistant to a wide range of chemicals
- Suitable for insulation material up to 25 mm
- Also for high flow velocities
- Fast and easy mounting with drill screws

Item No.	Description	PU	Box
316 140 010	CPT-1	25 pcs.	250 pcs.



Drill screws

Drill screws with inner square drive

- Shapely head
- Secure fit and tight hold due to toothed underside
- Non-magnetic, i. e. no drilling swarf on the holder
- One holder for free in each box

Item No.	Description	Material	PU	Box
317 000 010	Drill screw 3,5 x 10 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 090 020	Drill screw 3,5 x 13 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 010 020	Drill screw 4,2 x 13 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 020 020	Drill screw 4,2 x 16 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 030 020	Drill screw 4,2 x 19 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 032 020	Drill screw 4,2 x 25 mm	Zinc plated	1.000 pcs.	10.000 pcs.
317 035 020	Drill screw 4,2 x 42 mm	Zinc plated	500 pcs.	5.000 pcs.
317 070 040	Drill screw 4,2 x 13 mm – AISI 304	Stainless	1.000 pcs.	10.000 pcs.
317 080 040	Drill screw 4,2 x 16 mm – AISI 304	Stainless	1.000 pcs.	10.000 pcs.

Holder

- For drill screws with square drive

Item No.	Description	For dimensions	PU
317 010 035	Holder Q1-50	3,5 mm	50 pcs.
317 010 030	Holder Q2-50	4,2 mm	50 pcs.

Drill screws with hex drive

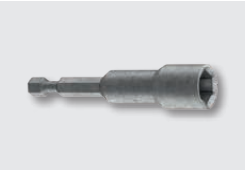
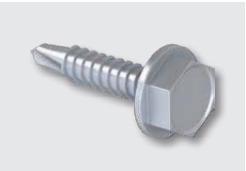
- DIN 7504 K
- Secure fit and tight hold due to toothed underside

Item No.	Description	Material	PU	Box
317 010 010	Drill screw 4,2 x 13 mm, hex drive	Zinc plated	1.000 pcs.	10.000 pcs.
317 020 010	Drill screw 4,2 x 16 mm, hex drive	Zinc plated	1.000 pcs.	10.000 pcs.
317 030 010	Drill screw 4,2 x 19 mm, hex drive	Zinc plated	1.000 pcs.	10.000 pcs.

Magnetic chuck

- End size 7 mm

Item No.	Description	For dimensions	PU
317 110 000	Magnetic chuck 192-7	4,2 mm	20 pcs.



Duct connection

Cleats

- Suitable for flange systems Premium, P, S, L & flex.x
- Suitable for flange 20, 30 & 40

Item No.	Description	Material	Length	PU
303 010 020	Cleat – 70 mm	Galvanized	70 mm	200 pcs.
303 010 010	Cleat	Galvanized	5.000 mm	500 m
303 010 015	Cleat	Galvanized	2.500 mm	250 m
303 010 040	Cleat – AISI 316 L	Stainless – AISI 316 L	5.000 mm	100 m

Item No.	Description	Material	Length	PU
303 010 500	Cleat round	Galvanized	5.000 mm	500 pcs.

G-Clamps/Bolt-on cleats

- Suitable for flange systems Prime, Premium, P, S, L & flex.x
- Suitable for flange 20, 30 & 40
- With pre-assembled hex bolt M8 x 25mm

Item No.	Description	Gauge	Material	PU	Pallet
303 021 013	GK 2,5	2,5 mm	Zinc plated	200 pcs.	10.000 pcs.
303 021 010	GK 3	3,0 mm	Zinc plated	200 pcs.	10.000 pcs.



G-Clamps/Bolt-on cleats PLUS

- Suitable for flange systems Prime, Premium, P, S, L & flex.x
- Suitable for flange 20, 30 & 40
- End tips for better grip
- V-bead for increased stability
- Optimized mounting
- With pre-assembled hex bolt M8 x 25mm

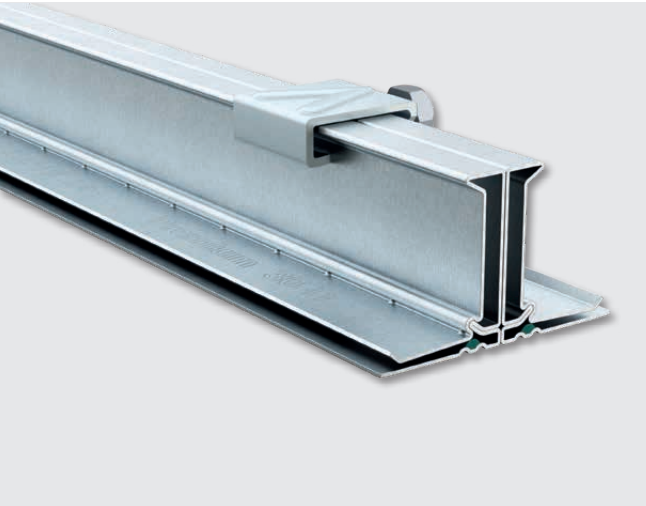


Item No.	Description	Material	PU	Pallet
303 021 012	GK PLUS	Zinc plated	200 pcs.	10.000 pcs.
303 021 345	GK PLUS – AISI 304	Stainless – AISI 304	100 pcs.	6.400 pcs.
303 021 040	GK PLUS – AISI 316 L	Stainless – AISI 316 L	100 pcs.	6.400 pcs.

Heavy Duty G-Clamp R5

- Suitable for flange systems Premium, P, S, L & flex.x
- Suitable for flange 20, 30 & 40
- With pre-assembled hex bolt M8 x 25 mm

Item No.	Description	Gauge	Material	PU	Pallet
303 021 020	Heavy Duty GK-Clamp R5	4,0 mm	Zinc plated	100 pcs.	14.000 pcs.





Sealing tapes

Sealing tapes

- Closed cell polyethylene foam
- Self-adhesive on one side, Colour: anthracite grey
- Temperature resistance: -30 °C to +80 °C
- According to DIN EN ISO 846

Item No.	Description*	Rolls	PU	Pallet
310 100 000	Gasket 9 x 4 mm	10 m	2.400 m	24.000 m
310 110 000	Gasket 12 x 4 mm	10 m	1.800 m	18.000 m
310 070 000	Gasket 15 x 4 mm	10 m	1.500 m	15.000 m
310 160 000	Gasket 20 x 4 mm	10 m	1.100 m	11.000 m
310 170 000	Gasket 25 x 4 mm	10 m	900 m	9.000 m
310 050 000	Gasket 9 x 6 mm	10 m	330 m	13.200 m
310 060 000	Gasket 15 x 6 mm	10 m	1.000 m	10.000 m

*Other dimensions upon request

Installation recommendations for gasket tape

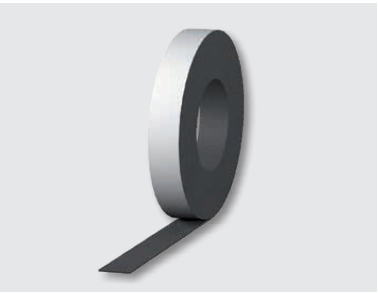
- Use at least 15 x 4 mm
- Wrinkle-free, flash to the edge of the duct
- Cross bonded at the corners

Profile size	Gasket Tape (width x thickness)
20 mm	15 mm x 4 mm
30 mm	20 mm x 4 mm
40 mm	25 mm x 4 mm

Sealing corners

- Closed cell polyethylene foam
- Self-adhesive on one side, Colour: anthracite grey
- Particularly suitable for use in ventilation systems where high air-tightness classes are demanded
- Temperature resistance: -30 °C to +80 °C
- According to DIN EN ISO 846

Item No.	Description	For gasket tape	Screw hole	PU
310 200 000	SDE 20	15 x 4 mm	Round hole 9 mm	280 pcs.
310 210 000	SDE 30	20 x 4 mm	Slotted hole 13 x 16 mm	280 pcs.

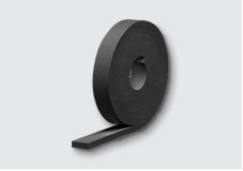


EPDM Sealing tapes

- Closed cell EPDM/CR rubber
- Self-adhesive on one side, Colour: black
- Temperature resistance: -50 °C bis +110 °C, short-term up to +120 °C
- According to DIN EN ISO 846

Item No.	Description*	Rolls	PU	Pallet
310 180 030	EPDM Gasket 15 x 4 mm	10 m	200 m	8.000 m

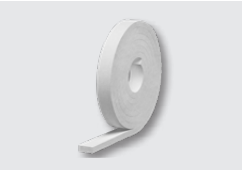
*Other dimensions upon request



Ceramic Sealing Tape

- For sealing smoke extraction and fire rated ductwork
- Ceramic Sealing Tape
- One-sided self-adhesive
- Temperature resistant up to +1.200 °C

Item No.	Description	Dimensions	Rolls	PU	Pallet
310 090 000	Ceramic Sealing Tape	10 x 6 mm	10 m	300 m	12.000 m
310 080 000	Ceramic Sealing Tape	15 x 6 mm	10 m	200 m	8.000 m
310 095 000	Ceramic Sealing Tape	30 x 6 mm	10 m	400 m	4.000 m



PTFE-Gasket tapes

- Self-adhesive on one side
- Colour: white
- Resistant to a wide range of chemicals
- Resistant to ageing and weathering/UV-resistant
- Temperature resitance: -240 °C to +270 °C short-term up to +310 °C

Item No.	Description*	PU
310 030 010	PTFE 14 x 3 mm	25 m
310 030 000	PTFE 12 x 4 mm	25 m

*Other dimensions upon request



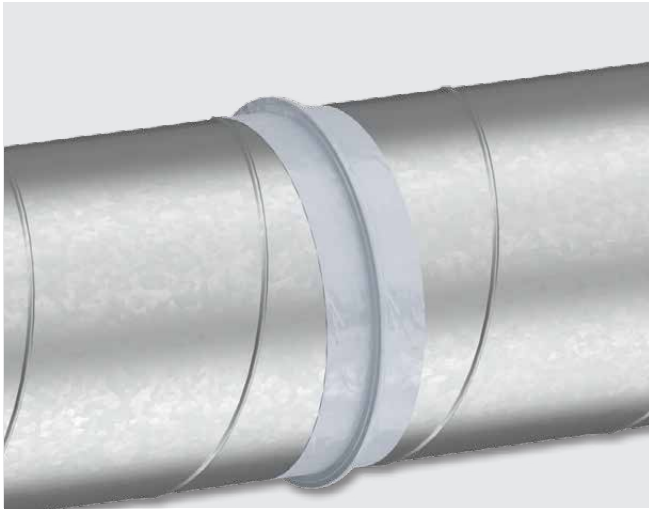
Sealing tapes

Cold shrink tapes

- Colour: light grey or aluminium
- One side foil-laminated polyethylene or aluminium
- Suitable for sealing ductwork
- Suitable for installations in visible areas
- Temperature resistance: -20 °C to +60 °C
- Normal flammability according to DIN 4102 - B2

Item No.	Description	Width*	Rolls	PU
309 070 010	Cold shrink tape 50	50 mm	15 m	24 pcs.
309 075 010	Cold shrink tape 75	75 mm	15 m	16 pcs.
309 080 010	Alu-Cold shrink tape 50	50 mm	15 m	24 pcs.

*Other dimensions upon request



Access doors

- For rectangular and oval ducts
- Fixed by two star-shaped hand knobs (red)
- Hand knobs with embedded metal thread (galvanized)
- Suitable for air-tightness class D (TÜV-Nord certified)
- Self-adhesive drilling plate in each bag



Access doors for rectangular ductwork

- Galvanized
- With polyethylene foam gasket

Item No.	Description	Dimensions	PU*
308 100 010	ID 18	180 x 80 mm	50 pcs.
308 100 020	ID 21	200 x 100 mm	50 pcs.
308 100 025	ID 25	250 x 150 mm	10 pcs.
308 110 010	ID 31	300 x 150 mm	25 pcs.
308 110 020	ID 32	300 x 200 mm	25 pcs.
308 120 010	ID 42	400 x 200 mm	10 pcs.
308 120 020	ID 43	400 x 300 mm	10 pcs.
308 130 010	ID 53	500 x 300 mm	8 pcs.
308 130 020	ID 54	500 x 400 mm	6 pcs.
308 140 010	ID 64	600 x 400 mm	4 pcs.
308 140 020	ID 65	600 x 500 mm	4 pcs.
308 150 010	ID 75	700 x 500 mm	3 pcs.

*Alternative packings upon request



Access doors for rectangular ductwork - AISI 304

- Stainless steel AISI 304
- With polyethylene foam gasket



Item No.	Description	Dimensions	PU*
308 100 015	ID 18 - AISI 304	180 x 80 mm	50 pcs.
308 100 040	ID 21 - AISI 304	200 x 100 mm	50 pcs.
308 100 030	ID 25 - AISI 304	250 x 150 mm	10 pcs.
308 110 015	ID 31 - AISI 304	300 x 150 mm	25 pcs.
308 110 040	ID 32 - AISI 304	300 x 200 mm	25 pcs.
308 120 014	ID 42 - AISI 304	400 x 200 mm	10 pcs.
308 120 040	ID 43 - AISI 304	400 x 300 mm	10 pcs.
308 130 040	ID 54 - AISI 304	500 x 400 mm	6 pcs.
308 140 040	ID 65 - AISI 304	600 x 500 mm	4 pcs.

*Alternative packings upon request



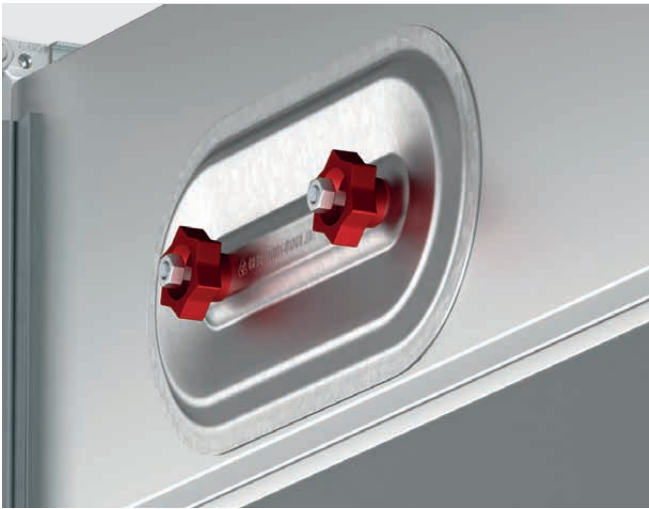
Access doors

Access doors for rectangular ductwork – AISI 316

- Stainless steel AISI 316
- With polyethylene foam gasket

Item No.	Description	Dimensions	PU*
308 100 340	ID 21 – AISI 316 L	200 x 100 mm	50 pcs.
308 100 035	ID 25 – AISI 316 L	250 x 150 mm	10 pcs.
308 110 340	ID 32 – AISI 316 L	300 x 200 mm	25 pcs.
308 120 340	ID 43 – AISI 316 L	400 x 300 mm	10 pcs.
308 130 340	ID 54 – AISI 316 L	500 x 400 mm	6 pcs.
308 140 340	ID 65 – AISI 316 L	600 x 500 mm	4 pcs.

*Alternative packings upon request



Curved access doors

- For round and oval tubes
- With polyethylene foam gasket
- Fixed by two star-shaped hand knobs (red)
- Hand knobs with embedded metal thread (galvanized)
- Self-adhesive drilling plate in each bag

Item No.	Description	Dimensions	For ø min–Stand.–max	PU*
308 180 010	GRD 18–8	180 x 80 mm	76 – 80 – 92	50 pcs.
308 200 010	GRD 18–10	180 x 80 mm	93 – 100 – 114	50 pcs.
308 210 010	GRD 18–12	180 x 80 mm	115 – 125 – 130	50 pcs.
308 210 011	GRD 18–14	180 x 80 mm	131 – 140 – 150	50 pcs.
308 210 015	GRD 18–16	180 x 80 mm	151 – 160 – 170	50 pcs.
308 220 010	GRD 21–14+15	200 x 100 mm	130 – 140/150 – 155	50 pcs.
308 230 010	GRD 21–16+18	200 x 100 mm	156 – 160/180 – 190	50 pcs.
308 240 010	GRD 21–20+22	200 x 100 mm	191 – 200/224 – 240	50 pcs.
308 250 010	GRD 21–25+28	200 x 100 mm	241 – 250/280 – 300	50 pcs.
308 260 010	GRD 21–31+35	200 x 100 mm	301 – 315/355 – 360	50 pcs.
308 470 010	GRD 25–15+16	250 x 150 mm	150/160	10 pcs.
308 470 020	GRD 25–18+20	250 x 150 mm	180/200	10 pcs.
308 470 030	GRD 25–22+25	250 x 150 mm	224/250	10 pcs.
308 470 040	GRD 25–30+31	250 x 150 mm	300/315	10 pcs.
308 470 050	GRD 25–35	250 x 150 mm	350/355	10 pcs.
308 470 060	GRD 25–40*	250 x 150 mm	400	10 pcs.
308 470 070	GRD 25–45	250 x 150 mm	450	10 pcs.
308 470 080	GRD 25–50*	250 x 150 mm	500	10 pcs.
308 260 020	GRD 32–28	300 x 200 mm	260 – 280 – 300	25 pcs.
308 270 010	GRD 32–31	300 x 200 mm	301 – 315 – 340	25 pcs.
308 280 010	GRD 32–35	300 x 200 mm	341 – 355 – 380	25 pcs.
308 280 110	GRD 32–40	300 x 200 mm	381 – 400 – 420	25 pcs.
308 280 120	GRD 32–45	300 x 200 mm	421 – 450 – 470	25 pcs.
308 280 130	GRD 32–50	300 x 200 mm	471 – 500 – 530	25 pcs.
308 290 010	GRD 43–40	400 x 300 mm	370 – 400 – 420	10 pcs.
308 300 010	GRD 43–45	400 x 300 mm	421 – 450 – 470	10 pcs.
308 310 010	GRD 43–50	400 x 300 mm	471 – 500 – 530	10 pcs.
308 320 010	GRD 43–56	400 x 300 mm	531 – 560 – 600	10 pcs.
308 330 010	GRD 43–63	400 x 300 mm	601 – 630 – 670	10 pcs.
308 340 010	GRD 43–71	400 x 300 mm	671 – 710 – 750	10 pcs.
308 350 010	GRD 43–80	400 x 300 mm	751 – 800 – 850	10 pcs.
308 360 010	GRD 43–90	400 x 300 mm	851 – 900 – 950	10 pcs.
308 370 010	GRD 54–56	500 x 400 mm	520 – 560 – 600	6 pcs.
308 380 010	GRD 54–63	500 x 400 mm	601 – 630 – 670	6 pcs.
308 390 010	GRD 54–71	500 x 400 mm	671 – 710 – 750	6 pcs.

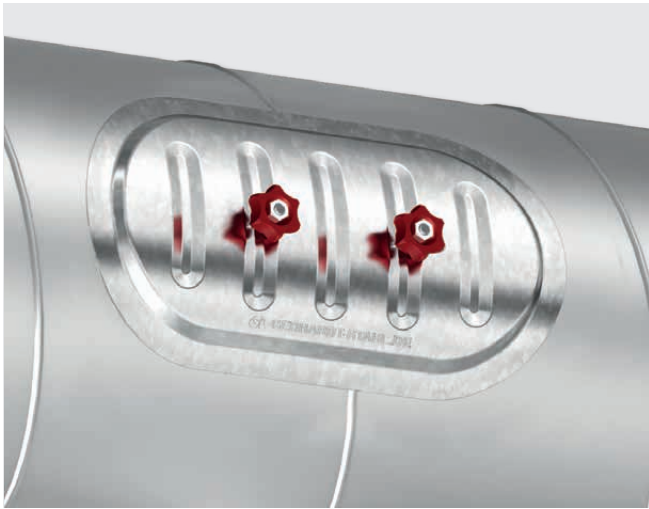
*Alternative packings upon request



Curved access doors

Item No.	Description	Dimensions	For ø min-Stand.-max	PU*
308 400 010	GRD 54-80	500 x 400 mm	751 - 800 - 850	6 pcs.
308 410 010	GRD 54-90	500 x 400 mm	851 - 900 - 950	6 pcs.
308 420 010	GRD 54-100	500 x 400 mm	951 - 1000 - 1060	6 pcs.
308 430 010	GRD 54-112	500 x 400 mm	1061 - 1120 - 1180	6 pcs.
308 440 010	GRD 54-125	500 x 400 mm	1181 - 1250 - 1320	6 pcs.
308 450 010	GRD 54-140	500 x 400 mm	1321 - 1400 - 1500	6 pcs.
308 460 010	GRD 54-160	500 x 400 mm	1501 - 1600 - 1800	6 pcs.

*Alternative packings upon request



Access doors with edge protection

- For rectangular and oval ducts
- Fixed by two star-shaped hand knobs (red)
- Hand knobs with embedded metal thread (galvanized)
- Suitable for air-tightness class D (TÜV-Nord certified)
- Self-adhesive drilling plate in each bag
- Self-adhesive edge protection included



Item No.	Description	Dimensions	PU*
308 000 010	ID 18K	180 x 80 mm	50 pcs.
308 010 010	ID 21K	200 x 100 mm	50 pcs.
308 010 015	ID 31K	300 x 150 mm	25 pcs.
308 020 010	ID 32K	300 x 200 mm	25 pcs.
308 020 015	ID 42K	400 x 200 mm	10 pcs.
308 030 010	ID 43K	400 x 300 mm	10 pcs.
308 030 015	ID 53K	500 x 300 mm	8 pcs.
308 040 010	ID 54K	500 x 400 mm	6 pcs.
308 040 015	ID 64K	600 x 400 mm	4 pcs.
308 060 010	ID 65K	600 x 500 mm	4 pcs.
308 060 015	ID 75K	700 x 500 mm	3 pcs.

*Alternative packings upon request

Self-adhesive edge protection

- Material: EPDM rubber
- Endless on roll

Item No.	Description	PU
308 990 010	Edge protection	100 m



Curved access doors with edge protection

- For round and oval tubes
- Self-adhesive edge protection included
- Fixed by two star-shaped hand knobs (red)
- Hand knobs with embedded metal thread (galvanized)
- Self-adhesive drilling plate in each bag

Item No.	Description	Dimensions	für ø min-Stand.-max	PU*
308 480 010	GRD 18K-8	180 x 80 mm	76 – 80 – 92	50 pcs.
308 500 010	GRD 18K-10	180 x 80 mm	93 – 100 – 114	50 pcs.
308 520 010	GRD 18K-12	180 x 80 mm	115 – 125 – 130	50 pcs.
308 530 010	GRD 18K-14	180 x 80 mm	131 – 140 – 150	50 pcs.
308 540 010	GRD 18K-16	180 x 80 mm	151 – 160 – 170	50 pcs.
308 550 010	GRD 21K-14+15	200 x 100 mm	130 – 140/150 – 155	50 pcs.
308 560 010	GRD 21K-16+18	200 x 100 mm	156 – 160/180 – 190	50 pcs.
308 570 010	GRD 21K-20+22	200 x 100 mm	191 – 200/224 – 240	50 pcs.
308 580 010	GRD 21K-25+28	200 x 100 mm	241 – 250/280 – 300	50 pcs.
308 590 010	GRD 21K-31+35	200 x 100 mm	301 – 315/355 – 360	50 pcs.
308 600 010	GRD 32K-28	300 x 200 mm	260 – 280 – 300	25 pcs.
308 610 010	GRD 32K-31	300 x 200 mm	301 – 315 – 340	25 pcs.
308 620 010	GRD 32K-35	300 x 200 mm	341 – 355 – 380	25 pcs.
308 630 010	GRD 32K-40	300 x 200 mm	381 – 400 – 420	25 pcs.
308 640 010	GRD 32K-45	300 x 200 mm	421 – 450 – 470	25 pcs.
308 650 010	GRD 32K-50	300 x 200 mm	471 – 500 – 530	25 pcs.
308 660 010	GRD 43K-40	400 x 300 mm	370 – 400 – 420	10 pcs.
308 670 010	GRD 43K-45	400 x 300 mm	421 – 450 – 470	10 pcs.
308 680 010	GRD 43K-50	400 x 300 mm	471 – 500 – 530	10 pcs.
308 690 010	GRD 43K-56	400 x 300 mm	531 – 560 – 600	10 pcs.
308 700 010	GRD 43K-63	400 x 300 mm	601 – 630 – 670	10 pcs.
308 710 010	GRD 43K-71	400 x 300 mm	671 – 710 – 750	10 pcs.
308 720 010	GRD 43K-80	400 x 300 mm	751 – 800 – 850	10 pcs.
308 730 010	GRD 43K-90	400 x 300 mm	851 – 900 – 950	10 pcs.
308 740 010	GRD 54K-56	500 x 400 mm	520 – 560 – 600	6 pcs.
308 750 010	GRD 54K-63	500 x 400 mm	601 – 630 – 670	6 pcs.
308 760 010	GRD 54K-71	500 x 400 mm	671 – 710 – 750	6 pcs.
308 770 010	GRD 54K-80	500 x 400 mm	751 – 800 – 850	6 pcs.
308 780 010	GRD 54K-90	500 x 400 mm	851 – 900 – 950	6 pcs.
308 790 010	GRD 54K-100	500 x 400 mm	951 – 1000 – 1060	6 pcs.
308 800 010	GRD 54K-112	500 x 400 mm	1061 – 1120 – 1180	6 pcs.
308 810 010	GRD 54K-125	500 x 400 mm	1181 – 1250 – 1320	6 pcs.
308 820 010	GRD 54K-140	500 x 400 mm	1321 – 1400 – 1500	6 pcs.
308 830 010	GRD 54K-160	500 x 400 mm	1501 – 1600 – 1800	6 pcs.

*Alternative packings upon request



Tabbed access doors

- Tabbed access doors for rectangular ductwork
- Suitable for low, medium, or high-pressure applications

Item No.	Description	Dimensions	PU	Pallet
308 835 010	TAD 10	100 x 100 mm	20 pcs.	880 pcs.
308 835 015	TAD 15	150 x 150 mm	20 pcs.	880 pcs.
308 835 020	TAD 20	200 x 200 mm	20 pcs.	720 pcs.
308 835 025	TAD 25	250 x 250 mm	10 pcs.	420 pcs.
308 835 030	TAD 30	300 x 300 mm	5 pcs.	360 pcs.
308 835 028	TAD 32	300 x 200 mm	5 pcs.	480 pcs.
308 835 035	TAD 35	350 x 350 mm	5 pcs.	225 pcs.
308 835 040	TAD 40	400 x 400 mm	5 pcs.	180 pcs.
308 835 045	TAD 45	450 x 450 mm	4 pcs.	160 pcs.
308 835 050	TAD 50	500 x 500 mm	2 pcs.	120 pcs.
308 835 055	TAD 60	600 x 600 mm	2 pcs.	60 pcs.



Sound attenuator equipment

Edge protection profile for wire gratings and standing duct seam

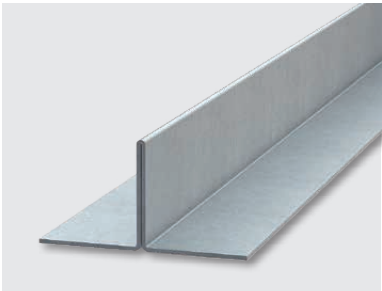
Item No.	Description	Material	Length	PU
304 200 010	Edge protection profile 15 x 0,8 mm	Galvanized	2.500 mm	575 m



T-section for sound attenuators

Item No.	Description	Dimensions	Material	Length	PU
306 200 020	T-section	25/20/25	Galvanized	4.000 mm	400 m
306 200 040	T-section AISI 304*	25/20/25	Stainless	4.000 mm	400 m

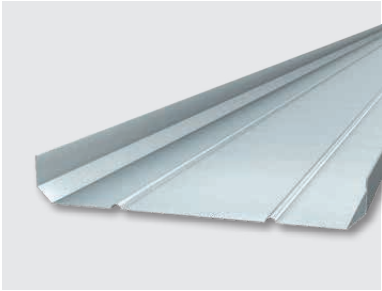
*T-section AISI 304 upon request



Frame profile for sound attenuators

- For thickness: 200 mm

Item No.	Description	Material	Length	PU
306 400 010	Frame profile	Galvanized	5.000 mm	220 m

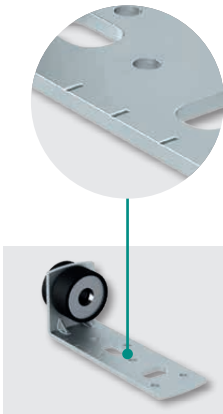


Duct suspension

Single support angle for rectangular ductwork

- Length: 90 mm
- With mounted insulation element
- For threaded rods ø 10 mm
- Easy alignment by lateral scale

Item No.	Description	Material	PU	Pallet
313 110 010	Single support angle	Zinc plated	100 pcs.	10.000 pcs.



Double support angle for rectangular ductwork

- Length: 60 mm
- With mounted insulation element
- For threaded rods ø 10 mm
- Easy alignment by lateral scale

Item No.	Description	Material	PU	Pallet
313 120 010	Double support angle	Zinc plated	100 pcs.	10.000 pcs.



Tube hanger for spiral tubes

- Length: 100 mm
- With mounted insulation element
- For threaded rods ø 10 mm

Item No.	Description	Material	PU
313 130 010	Tube hanger	Zinc plated	50 pcs.



Trapeze hanger for spiral tubes

- Length: 100 mm
- With mounted insulation element
- For threaded rods ø 10 mm

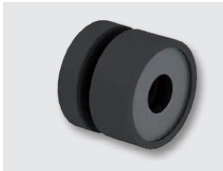
Item No.	Description	Material	PU
313 130 020	Trapeze hanger	Zinc plated	50 pcs.



Insulation element with washer

- For threaded rods ø 10 mm

Item No.	Description	Material	PU
313 508 000	Insulation element	Rubber	200 pcs.



Pipe clamps without rubber liner

Pipe clamps

- Galvanized steel
- Welded combination nut M8/M10
- Without insulation rubber
- For horizontal or vertical mounting on the wall, on the ceiling or with channel sections
- High temperature resistance
- For use in installations without acoustic decoupling requirements

Item No.	Description	PU
315 700 010	Clamp 80 mm	60 pcs.
315 710 010	Clamp 100 mm	60 pcs.
315 720 010	Clamp 125 mm	60 pcs.
315 730 010	Clamp 140 mm	60 pcs.
315 740 010	Clamp 150 mm	60 pcs.
315 750 010	Clamp 160 mm	60 pcs.
315 760 010	Clamp 180 mm	30 pcs.
315 770 010	Clamp 200 mm	30 pcs.
315 780 010	Clamp 225 mm	30 pcs.
315 790 010	Clamp 250 mm	30 pcs.
315 800 010	Clamp 280 mm	30 pcs.
315 810 010	Clamp 300 mm	30 pcs.
315 820 010	Clamp 315 mm	30 pcs.
315 830 010	Clamp 355 mm	20 pcs.
315 840 010	Clamp 400 mm	20 pcs.



Pipe clamps & perforated tapes

Pipe clamps

- Galvanized steel with insulation rubber
- Welded on combination nut M8/M10
- Quick and convenient installation as a result of wide opening angles
- Click-in lock (up to 400 mm)

Item No.	Description	Nominal width	Dimensions	PU
315 410 010	Suspension ring 80	80 mm	20 x 1,8 mm	60 pcs.
315 430 010	Suspension ring 100	100 mm	20 x 1,8 mm	60 pcs.
315 450 010	Suspension ring 125	125 mm	20 x 1,8 mm	60 pcs.
315 460 010	Suspension ring 140	140 mm	20 x 1,8 mm	60 pcs.
315 470 010	Suspension ring 150	150 mm	20 x 1,8 mm	60 pcs.
315 480 010	Suspension ring 160	160 mm	20 x 1,8 mm	60 pcs.
315 490 010	Suspension ring 180	180 mm	20 x 1,8 mm	60 pcs.
315 500 010	Suspension ring 200	200 mm	20 x 1,8 mm	30 pcs.
315 510 010	Suspension ring 225	225 mm	20 x 1,8 mm	30 pcs.
315 520 010	Suspension ring 250	250 mm	20 x 1,8 mm	30 pcs.
315 530 010	Suspension ring 280	280 mm	20 x 1,8 mm	30 pcs.
315 540 010	Suspension ring 300	300 mm	20 x 1,8 mm	30 pcs.
315 550 010	Suspension ring 315	315 mm	20 x 1,8 mm	30 pcs.
315 570 010	Suspension ring 355	355 mm	20 x 1,8 mm	20 pcs.
315 580 010	Suspension ring 400	400 mm	20 x 1,8 mm	20 pcs.
315 590 010	Suspension ring 450	450 mm	25 x 2,5 mm	10 pcs.
315 600 010	Suspension ring 500	500 mm	25 x 2,5 mm	10 pcs.
315 610 010	Suspension ring 560	560 mm	25 x 2,5 mm	10 pcs.
315 615 010	Suspension ring 600	600 mm	25 x 2,5 mm	10 pcs.
315 620 010	Suspension ring 630	630 mm	25 x 2,5 mm	10 pcs.
315 630 010	Suspension ring 710	710 mm	25 x 2,5 mm	10 pcs.
315 640 010	Suspension ring 800	800 mm	25 x 2,5 mm	10 pcs.
315 650 010	Suspension ring 900	900 mm	25 x 2,5 mm	10 pcs.
315 660 010	Suspension ring 1000	1000 mm	25 x 2,5 mm	10 pcs.
315 670 010	Suspension ring 1120	1120 mm	25 x 2,5 mm	10 pcs.
315 680 010	Suspension ring 1250	1250 mm	25 x 2,5 mm	10 pcs.



Perforated tapes

Item No.	Description	Material	Screw hole	Rolls	PU
315 010 010	Perforated tape 17 x 0,6 mm	Galvanized	8,5 mm	25 m	125 m
315 020 010	Perforated tape 25 x 0,75 mm	Galvanized	8,5 mm	25 m	125 m



Beam clamps & threaded rods

Beam clamps

- For attaching ductwork or tubes to beams
- With hole or internal thread
- Assembly without drilling or welding

Item No.	Description	Material	Hole/Thread	PU
313 150 009	Beam clamp 9 mm	GT-galvanized	9 mm/–	50 pcs.
313 150 011	Beam clamp 11 mm	GT-galvanized	11 mm/–	50 pcs.
313 140 008	Beam clamp M8	GT-galvanized	–/M 8	50 pcs.
313 140 010	Beam clamp M10	GT-galvanized	–/M 10	50 pcs.

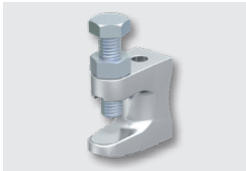
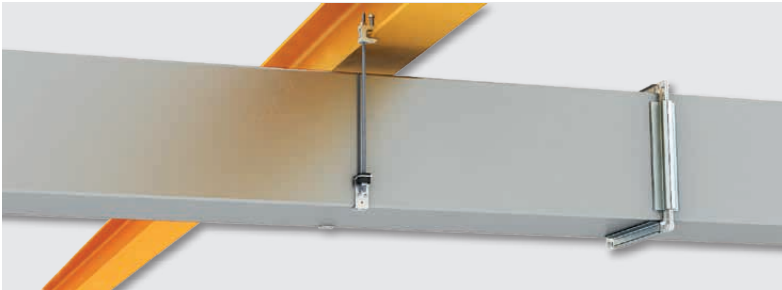
Threaded rods

- Bright zinc-plated (BZP)
- According to DIN 976

Item No.	Description	Material	Length	PU
314 110 010	Threaded rod M6	Zinc plated	1.000 mm	150 pcs.
314 120 010	Threaded rod M6	Zinc plated	2.000 mm	150 pcs.
314 130 010	Threaded rod M8	Zinc plated	1.000 mm	50 pcs.
314 140 010	Threaded rod M8	Zinc plated	2.000 mm	25 pcs.
314 140 020	Threaded rod M8	Zinc plated	3.000 mm	25 pcs.
314 150 010	Threaded rod M10	Zinc plated	1.000 mm	25 pcs.
314 160 010	Threaded rod M10	Zinc plated	2.000 mm	20 pcs.
314 160 020	Threaded rod M10	Zinc plated	3.000 mm	20 pcs.
314 170 010	Threaded rod M12	Zinc plated	1.000 mm	20 pcs.
314 185 010	Threaded rod M12	Zinc plated	3.000 mm	20 pcs.

Rod couplers

Item No.	Description	Material	Features	PU
314 240 010	Rod coupler M8	Zinc plated	Hex head	100 pcs.
314 250 010	Rod coupler M10	Zinc plated	Hex head	100 pcs.



Channel sections

Struts/Channel sections

- Support for multiple purposes
- Perforation: slotted hole 20 x 15 mm, round hole 10,75 mm

Item No.	Description	Material	Gauge	Length	PU
305 570 012	30 x 15 mm	Galvanized	1,50 mm	2.000 mm	250 m
305 570 015	30 x 15 mm	Galvanized	1,50 mm	5.000 mm	500 m
305 580 012	30 x 15 mm	Galvanized	2,00 mm	2.000 mm	250 m
305 580 015	30 x 15 mm	Galvanized	2,00 mm	5.000 mm	500 m

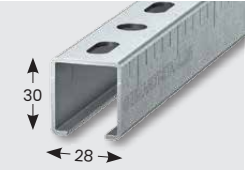
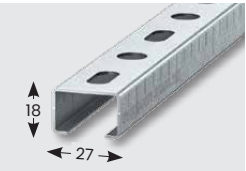
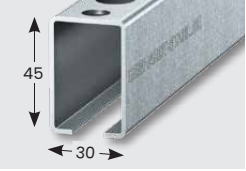
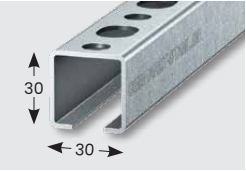
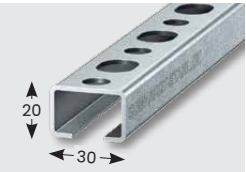
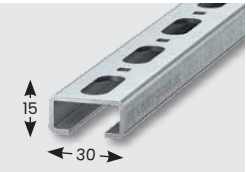
Item No.	Description	Material	Gauge	Length	PU
305 020 010	30 x 20 mm	Galvanized	1,75 mm	5.000 mm	250 m

Item No.	Description	Material	Gauge	Length	PU
305 050 010	30 x 30 mm	Galvanized	1,75 mm	5.000 mm	250 m

Item No.	Description	Material	Gauge	Length	PU
305 080 010	30 x 45 mm	Galvanized	1,75 mm	5.000 mm	250 m

Item No.	Description	Material	Option	Length	PU
305 010 010	27/18 x 1,25 mm	Galvanized	Slotted	2.000 mm	100 m
305 010 016	27/18 x 1,25 mm	Galvanized	Slotted	6.000 mm	300 m

Item No.	Description	Material	Option	Length	PU
305 250 013	28/30 x 1,75 mm	Galvanized	Slotted	3.000 mm	150 m
305 250 016	28/30 x 1,75 mm	Galvanized	Slotted	6.000 mm	300 m



Channel sections

Item No.	Description	Material	Option	Length	PU
305 590 012	36/40 x 2,0 mm	Galvanized	Slotted	2.000 mm	100 m
305 590 013	36/40 x 2,0 mm	Galvanized	Slotted	3.000 mm	150 m
305 590 015	36/40 x 2,0 mm	Galvanized	Slotted	5.000 mm	250 m
305 590 016	36/40 x 2,0 mm	Galvanized	Slotted	6.000 mm	300 m

Item No.	Description	Material	Option	Length	PU
305 500 012	38/40 x 2,0 mm	Galvanized	Slotted	2.000 mm	100 m
305 530 013	38/40 x 2,0 mm	Galvanized	Slotted	3.000 mm	150 m
305 560 016	38/40 x 2,0 mm	Galvanized	Slotted	6.000 mm	300 m

Insulation rubber for struts/channel sections

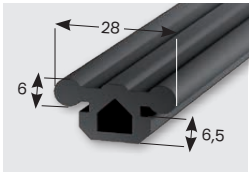
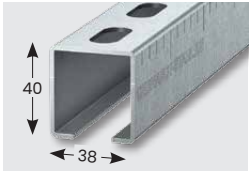
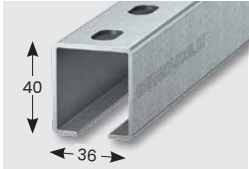
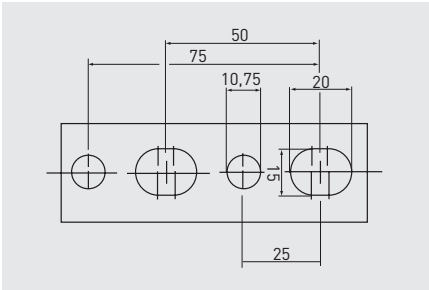
- Suitable for struts T 20, T 30 & T 45
- For interruption of sound bridges

Item No.	Description	Material	PU
305110000	Insulation rubber	EPDM	75 m

Protective caps for struts/channel sections

- Covers the cutting edge
- Nice finish and accident prevention
- Easy assembly

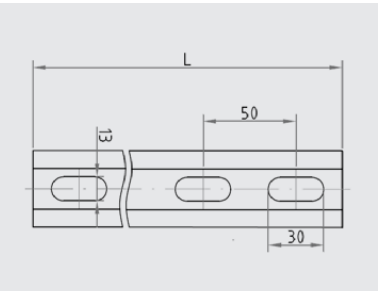
Item No.	Description	For strut	Material	PU
305 210 000	Cap 20	T 20	Polyethylene	100 pcs.
305 220 000	Cap 30	T 30	Polyethylene	100 pcs.
305 230 000	Cap 45	T 45	Polyethylene	100 pcs.



Channel sections

Channel section

- Material: S250 GD + Z275
- Slots: 30 x 13 mm, pitch: 50 mm
- Galvanised modular channel sections for mounting pipe supports, ventilation ducts and cable trays
- Maximum flexibility and easy handling
- Fast and simple installation and suitable for use in dry indoor areas
- According the requirements of DW 144
- With serration and lateral scale for easy cutting to length on site



Item No.	Description	Material	Option	Length	PU
305 330 113	41/21 x 1,5 mm	Galvanized	Slotted*	3.000 mm	150 m
305 360 116	41/21 x 1,5 mm	Galvanized	Slotted*	6.000 mm	300 m

*Plain upon request

Item No.	Description	Material	Option	Length	PU
305 430 113	41/41 x 1,5 mm	Galvanized	Slotted*	3.000 mm	150 m
305 460 116	41/41 x 1,5 mm	Galvanized	Slotted*	6.000 mm	300 m

*Plain upon request

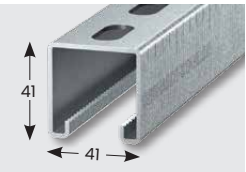
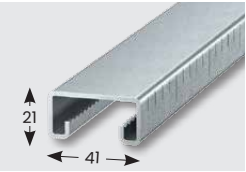
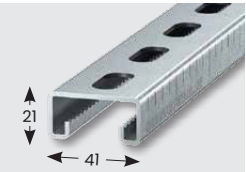
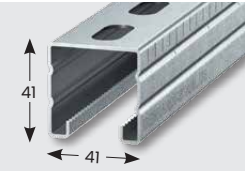
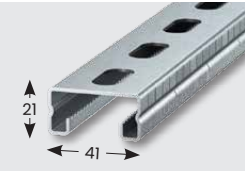
Item No.	Description	Material	Option	Length	PU
305 342 013	41/21 x 2,0 mm	Galvanized	Slotted*	3.000 mm	150 m
305 376 016	41/21 x 2,0 mm	Galvanized	Slotted*	6.000 mm	300 m
305 356 013	41/21 x 2,5 mm	Galvanized	Slotted*	3.000 mm	150 m
305 386 016	41/21 x 2,5 mm	Galvanized	Slotted	6.000 mm	300 m
305 382 043	41/21 x 2,5 mm	AISI 316 L	slotted	3.000 mm	30 m
305 382 046	41/21 x 2,5 mm	AISI 316 L	slotted	6.000 mm	60 m
305 382 016	41/21 x 2,5 mm	Hot dip galv.	slotted	6.000 mm	300 m

*Plain upon request

Item No.	Description	Material	Option	Length	PU
305 385 116	41/21 x 2,5 mm	Galvanized	Plain	6.000 mm	300 m

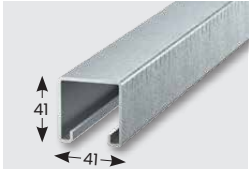
Item No.	Description	Material	Option	Length	PU
305 442 013	41/41 x 2,0 mm	Galvanized	Slotted*	3.000 mm	150 m
305 476 016	41/41 x 2,0 mm	Galvanized	Slotted*	6.000 mm	300 m
305 452 013	41/41 x 2,5 mm	Galvanized	Slotted	3.000 mm	150 m
305 482 016	41/41 x 2,5 mm	Galvanized	Slotted	6.000 mm	300 m
305 426 043	41/41 x 2,5 mm	AISI 316 L	slotted	3.000 mm	30 m
305 426 046	41/41 x 2,5 mm	AISI 316 L	slotted	6.000 mm	60 m
305 426 013	41/41 x 2,5 mm	Hot dip galv.	slotted	3.000 mm	150 m
305 426 016	41/41 x 2,5 mm	Hot dip galv.	slotted	6.000 mm	300 m

*Plain upon request

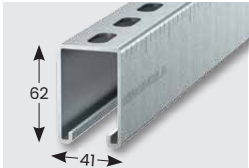


Channel sections

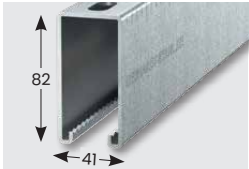
Item No.	Description	Material	Option	Length	PU
305 455 113	41/41 x 2,5 mm	Galvanized	Plain	3.000 mm	150 m
305 485 116	41/41 x 2,5 mm	Galvanized	Plain	6.000 mm	300 m



Item No.	Description	Material	Option	Length	PU
305 490 113	41/62 x 2,5 mm	Galvanized	Slotted	3.000 mm	90 m
305 490 116	41/62 x 2,5 mm	Galvanized	Slotted	6.000 mm	180 m
305 491 046	41/62 x 2,5 mm	AISI 316 L	slotted	6.000 mm	60 m
305 491 013	41/62 x 2,5 mm	Hot dip galv.	slotted	3.000 mm	90 m
305 491 016	41/62 x 2,5 mm	Hot dip galv.	slotted	6.000 mm	180 m



Item No.	Description	Material	Option	Length	PU
305 495 113	41/82 x 2,5 mm	Galvanized	Slotted	3.000 mm	90 m
305 495 116	41/82 x 2,5 mm	Galvanized	Slotted	6.000 mm	180 m



Light channel	41/21x1,5 mm – Slotted	41/41x1,5 mm – Slotted	41/21x2,0 mm – Slotted	41/41x2,0 mm – Slotted
Weight [kg/m]	1,22	1,75	1,56	2,21
Sectional area [cm²]	1,31	2,19	1,99	2,82
Wall thickness [mm]	1,5	1,5	2	2,9
Material	S250 GD	S250 GD	S250 GD	S250 GD
Max. Stress [N/mm²]	162,3	162,3	162,3	162,3
Moment of inertia y [cm⁴]	0,93	5,12	1,12	6,41
Section modulus y [cm³]	0,78	2,27	0,94	2,81
Moment of inertia z [cm⁴]	3,77	6,25	4,73	7,93
Section modulus z [cm³]	1,83	3,03	2,29	3,84

Heavy channel	41/21x2,5 mm – Slotted	41/41x2,5 mm – Slotted	41/62x2,5 mm – Slotted	41/62x2,5 mm – Slotted
Weight [kg/m]	1,88	2,69	3,52	4,31
Sectional area [cm²]	2,39	3,43	4,48	5,49
Wall thickness [mm]	2,5	2,5	2,5	2,5
Material	S250 GD	S250 GD	S250 GD	S250 GD
Max. Stress [N/mm²]	162,3	162,3	162,3	162,3
Moment of inertia y [cm⁴]	1,27	7,53	21,39	44,14
Section modulus y [cm³]	21,05	3,28	6,34	10,02
Moment of inertia z [cm⁴]	5,37	9,48	13,43	17,26
Section modulus z [cm³]	2,64	4,59	6,5	8,36

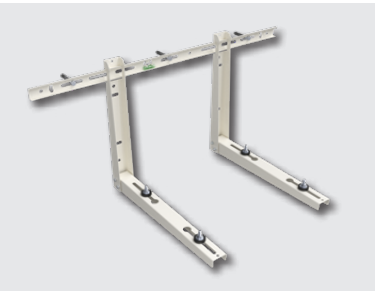
Wall bracket for split air-conditioning units

- Various adjustment options
- The two vertical elements are equipped with leveling screws to correct unevenness on the wall.
- Included in the delivery is an assembly kit consisting of screws, washers, anchors, and soft rubber discs made of thermoplastic material.
- GS and TÜV certified load capacity

Wall bracket 500 – ECO

- Load Capacity: 80 kg
- Material thickness: 1.2 mm
- Integrated spirit level

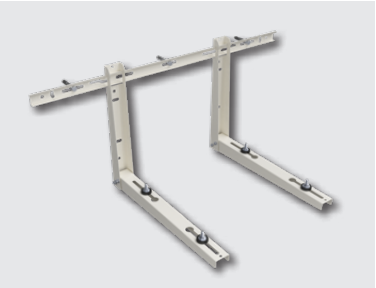
Item No.	Description	Material	Depth	Width	Pallet
305 900 010	Wall bracket 500 – ECO	Coated steel	500 mm	800 mm	250 sets



Wall brackets 450 – 500

- Load Capacity: 150 kg
- Material thickness: 1.5 mm

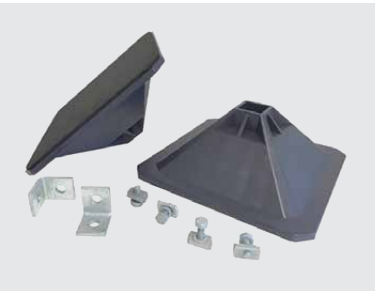
Item No.	Description	Material	Depth	Width	Pallet
305 910 010	Wall bracket 450	Coated steel	450 mm	800 mm	250 sets
305 920 010	Wall bracket 500	Coated steel	500 mm	800 mm	250 sets



Square foot H frame kit

- Set includes 2 supports
- 2 pcs. M10 brackets, 4 pcs. M10 fixings

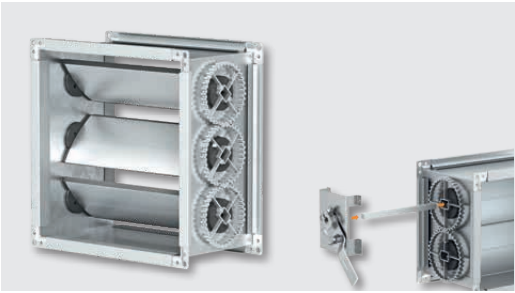
Item No.	Description	Dimensions	Pallet
305 700 010	Square foot H frame kit	305 x 305 mm	56 sets



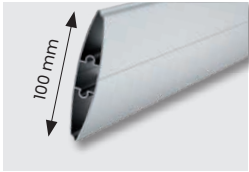
Volume control damper kit

Volume control damper kit

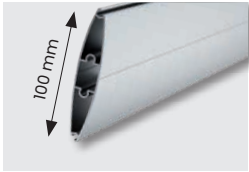
- Variable self-assembly system
- Good flow characteristics
- Aluminium cog wheels can be used either inside and outside
- High stability
- Temperature resistance: -40 °C - +80 °C
- Mounting recommendation available



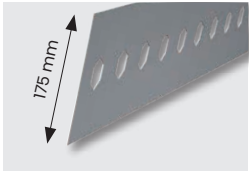
Item No.	Description	Material	Length	PU
320 400 011	Lamella W-01-S	Aluminium	5.000 mm	50 m



Item No.	Description	Material	Length	PU
32 400 010	Lamella W-01-G*	Aluminium	5.000 mm	50 m



Item No.	Description	Material	Length	PU
320 400 030	Side part	Galvanized	3.000 mm	1 pc.



Item No.	Description	Material	Length	PU
320 400 020	Cog wheel	Aluminium	-	100 pcs.



Item No.	Description	Material	Length	PU
320 400 040	Bearing cap - (L)	Polyamid	-	100 pcs.



Item No.	Description	Material	Length	PU
320 400 050	Bearing cap - (R)	Polyamid	-	100 pcs.



Item No.	Description	Material	Length	PU
320 400 060	End cap	Polyamid	-	100 pcs.



Item No.	Description	Material	Length	PU
320 400 070	Bearing part	Polyamid	-	100 pcs.



Item No.	Description	Material	Length	PU
317 035 020	Drill screw	Zinc plated	4,2 x 42 mm	500 pcs.



Item No.	Description	Material	Length	PU
320 370 010	Axle 10 x 10mm	Zinc plated	150 mm	50 pcs.



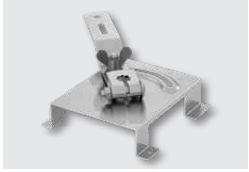
Item No.	Description	Material	Length	PU
320 400 080	Rubber seal	EPDM	-	400 m



Item No.	Description	Material	Length	PU
320 190 010	Stopper seal	EPDM	-	100 m



Item No.	Description	Material	Length	PU
320 300 010	Hand locking lever	Zinc plated	-	25 pcs.



Item No.	Description	Material	Length	PU
320 100 010	Locking lever	Zinc plated	-	10 pcs.



Item No.	Description	Material	Length	PU
320 100 020	Ball joint M 8	Zinc plated	-	10 pcs.



Item No.	Description	Material	Length	PU
314 130 010	Threaded rod M 8	Zinc plated	1.000 mm	50 pcs.



Aluminium sections

Aluminium sections for housings of AHUs

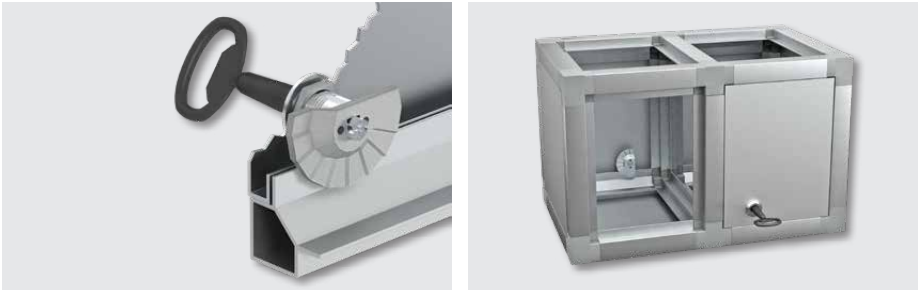
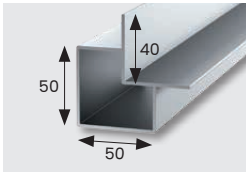
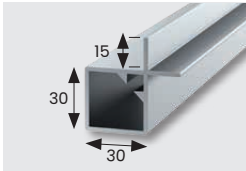
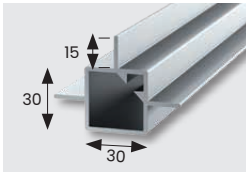
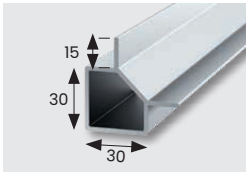
Variable self-assembly system

Item No.	Description	Material	Gauge	Length	PU
301 020 570	AK 30	Aluminium	1,4 mm	5.000 mm	20 m

Item No.	Description	Material	Gauge	Length	PU
301 020 670	AVK 30	Aluminium	1,4 mm	5.000 mm	20 m

Item No.	Description	Material	Gauge	Length	PU
301 020 870	AK 25/30	Aluminium	1,4 mm	5.000 mm	20 m

Item No.	Description	Material	Gauge	Length	PU
301 020 770	AK 50	Aluminium	1,6 mm	5.000 mm	20 m



Aluminium sections and accessories

Connectors for housings of AHUs

Item No.	Description	Material	PU
302 050 000	KE 30	PVC	120 pcs.

Item No.	Description	Material	PU
302 060 000	KVE 30	PVC	100 pcs.

Item No.	Description	Material*	PU
302 080 000	KE 25/30	PVC	120 pcs.

*Aluminium connectors upon request

Item No.	Description	Material*	PU
302 070 000	KE 50	PVC	35 pcs.

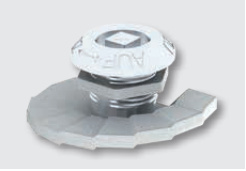
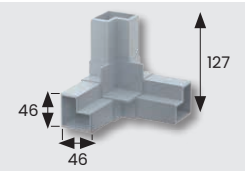
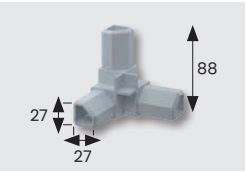
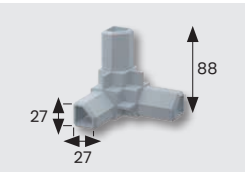
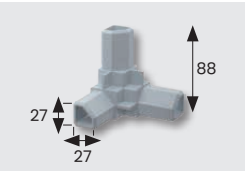
*Aluminium connectors upon request

Locking handles

Item No.	Description	Features	PU
302 900 010	KS 15	For AK 30	10 pcs.
302 900 110	KS 25	For AK 25/30 & AK 50	10 pcs.

Key for locking handle

Item No.	Description	Color	PU
302 900 020	Key	Black	10 pcs.



Damper quadrants/manual adjusters

Klap 1

- Adjusting lever, pin, winged screw, spring pin

Item No.	Description	For diameter	PU
307 010 010	Klap 1	up to 200 mm	100 pcs.

Klap 2/3

- Adjusting lever, plate, 1 round and 1 square pin, clamping screw
- Axis 12 mm

Item No.	Description	For diameter	PU
307 020 010	Klap 2/3	up to 650 mm	50 pcs.

Klap 4

- Adjusting lever, plate, pin, spring pin

Item No.	Description	For diameter	PU
307 040 010	Klap 4	up to 250 mm	100 pcs.

Klap 5

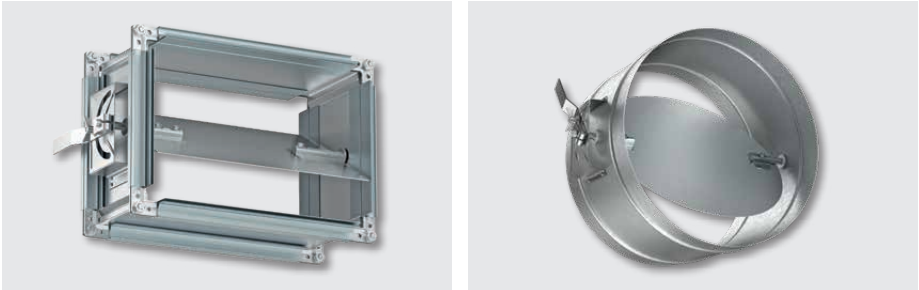
- Adjusting lever, plate, pin, spring pin

Item No.	Description	For diameter	PU
307 050 010	Klap 5	up to 500 mm	100 pcs.

Klap 6

- Airtight damper quadrant
- Suitable for round and rectangular ducts

Item No.	Description	For diameter	PU
307 060 010	Klap 6	up to 650 mm	50 pcs.



Pneumatic punch press

- For quick connection of flange and corner
- Suitable for all Gebhardt-flanges 20, 30 and 40
- Only one tool holder for systems 20 and 30
- Mould can be changed quickly from 20/30 flange to 40 flange
- Only compressor needed for working
- Punching press is triggered without footswitch by time-controlled pneumatic components
- Non-corrosive permanent connection of flange and corner
- The 4-bolt flange connection frames can't fall apart after punch pressing



Technical data/dimensions:

- Pressure: 4,0 t
- Air power: 6 bar
- Depth: 400 mm
- Width: 400 mm
- Height: 600 mm
- Weight: 95 kg

Compressor requirements:

- 1,5 HP
- 220 Volt 50 Hz
- 7,5 amps
- 8,0 bar
- 6 litres (210 litres per minute)

Item No.	Description	PU
350 101 000	Punch press	1 pc.



flex.x-hot air welding device

- Excellent usability
- Device for permanently fusing flex.x-PVC and flex.x-Fusion tape
- Ruggedly built hot air device with powerful blower
- Temperature: +40 °C to +620 °C
- Unique features:
- Only one ground plate for PVC widths of 105, 130, 155 and 180 mm required
- 3 adapters for quick change at PVC width included
- Digital temperature control and LCD-Display

Technical data welding device:

- Voltage: 230 V
- Max. power: 1.600 W
- Temperature: 40-620 °C
- Airflow: 120-240 l/min
- Static pressure: 2.600 Pa

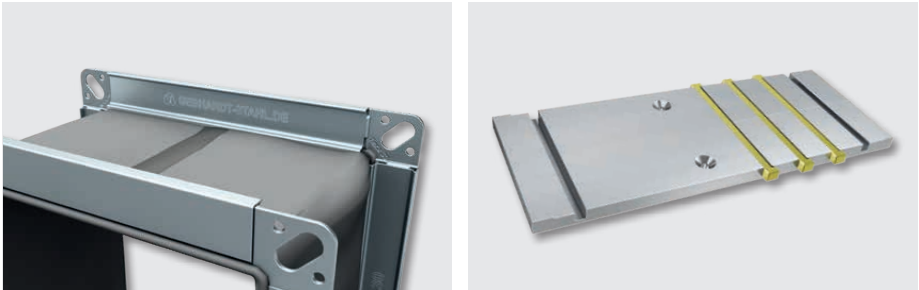
Compressor requirements:

- 1,5 HP
- 220 Volt 50 Hz
- 7,5 amps
- 8,0 bar
- 6 litres (210 litres per minute)

Technical data/dimensions:

- Pressure: 6,0 bar
- Depth: 1.050 mm
- Width: 360 mm
- Height: 400 mm
- Weight: 27 kg

Item No.	Description	PU
330 010 010	Welding device	1 pc.



Leak proof tester

- Suitable for ventilation systems
- For detection of leakage or determining achieved air-tightness class
- Automatic measuring according to DIN EN 1507 and DIN EN 12237
- Wide application field from small to large HVAC-systems
- Integrated printer with seriell USB-Bus
- Easy handling and menu navigation

Content:

- 1 GS-LDP 3.0 in plastic case
- 1 Plastic case for accessories
- 1 Power cord 230 V AC (length 3 m)
- 1 Air hose (length 5 m)
- 1 Hose for measuring (length 12.5 m)
- 1 Printer
- 1 USB flash drive
- 1 User manual

Technical data:

- 4-line illuminated display
- Power supply 230 V/50 Hz
- Power consumption max. 1900 W
- Weight app. 9.5 kg
- Working parameters +5 to +50 °C

Item No.	Description	PU
340 010 010	GS-LDP 3.0	1 pc.

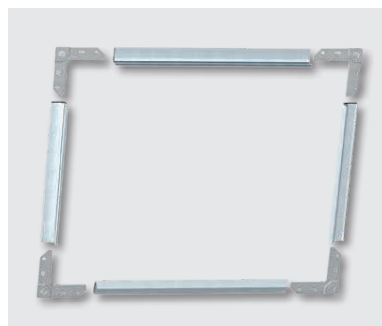


Mounting recommendation



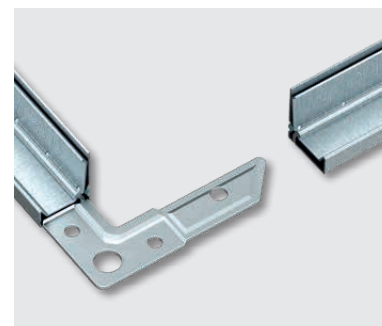
1. Cutting to length

The correct flange length depends on the clearance of the used corner. Calculate the flange length as follows: For P- and S-corners subtract 32 mm from ductsize; for D-corners subtract ≤ 5 mm from ductsize.



2. Frame assembly

Insert 2 corners into each of the longer flanges. Now assemble both shorter flanges to one of the longer flanges. Last step is to close the frame by slipping on the remaining longer flange.



3. ATTENTION!

To avoid damages of the clinching points/the flange, please just insert the corners until you reach the stop edge. We recommend to use a rubber hammer for inserting the corners.



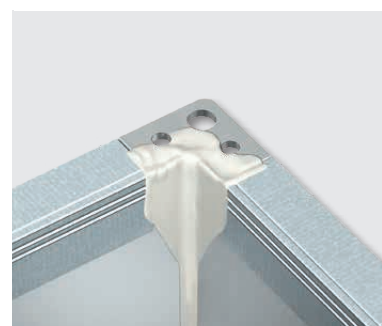
7. Number of spot welding/clinching points

The adhesive force of the inserted Butyl could substitute every second spot welding point, provided that frame assembly is correct.



8. Repair spray

Repair spot welding points (depending on flange material) using Zinc-Alu spray or Stainless steel spray (see page 40). This provides corrosion protection and gives the duct a nicer finish.



9. Sealing

Apply sealant (e.g. Gebhardt-MAXX, see page 44) at each corner on the inside of the duct. Flanges with BUTYL/GEL don't require any sealing at their longitudinal edge. Keep in mind to seal longitudinal beads as well.



4. Slip on the frame

The duct should be in a vertical position when starting to slip on the frame. Start at a corner of the duct where there is a bead. Try to hold the frame oblique to the ductwall, so the flanges can easier slip onto it.



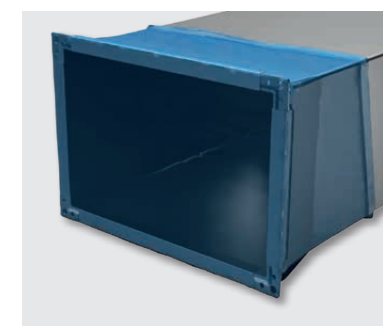
5. How far to slip on

Slip the flanges onto the duct until you reach the end of the flange. Only this provides optimal seal.



6. Spot welding/clinching

Make one connection point at each end of the flange. Then go on to make connections by spot welding/clinching every 140 mm.



10. Duct covering

Protect the inside of the ducts from dust and dirt by covering them with protective duct cover (see page 45) before transport to site.



11. Gasket tape

Put on the gasket tape flush to the inner surface of the duct. The gasket tape should overlap in the area of the corners like shown in the figure. Recommended gasket: 20 flange = 15x4 mm, 30 flange = 20x4 mm, 40 flange = 25x4 mm (see page 54)



12. Duct connection

Assure that all screws/bolts of the 4-bolt connection system are equally tightened.

Gebhardt-Stahl GmbH

Runtestraße 33

D-59457 Werl

Tel. +49 2922 9733-0

sales-hvac@gebhardt-stahl.de



Your contacts

Lars Brechlin

Tel. +49 151 54404638

lars.brechlin@gebhardt-stahl.de

Catrin Cantor

Tel. +49 2922 9733-218

catrin.cantor@gebhardt-stahl.de

Mohammed Debbarh

Tel. +49 170 5740971

mohammed.debbarh@gebhardt-stahl.de

Sabrina Ramm

Tel. +49 2922 9733-212

sabrina.ramm@gebhardt-stahl.de

Ralph Kaufmann

Tel. +49 2922 9733-205

ralph.kaufmann@gebhardt-stahl.de