



Covers variety

www.achenbach-mt.de

Achenbach covers – Excellence from experience.

Achenbach has decades-long experience in working with corrugated sheet metal and with the application of the products made of the material.

In the course of time, our steel products have become established in various fields: besides the possibility of creatively using roof and wall elements in architecture, especially our covers for conveyors from surface refined and cambered (arched) corrugated sheet have stood up to conditions all over the world.

Through own development and adaptation to constantly changing market requirements, we have set up a product range that offers a suitable concept for each application. Achenbach covers are made from hot-dip galvanized high-grade material. Upon request, they are provided with an additional plastic coating in RAL colours. Other materials are also available. It goes without saying that besides covers for conventional belt widths, complex tailored designs are possible as well. As a manufacturer of metal covers we can provide all covers at a favourable price. These are available in four different sections. To the user, this means that the optimum value for money cover may be selected to suit a particular application. To learn more, please contact us.



„Tested safety made by ACHENBACH!“
Achenbach offers a cover and tightening strap system with a structural analysis.



Achenbach is certified in accordance with DIN EN ISO 9001 : 2008



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Sections

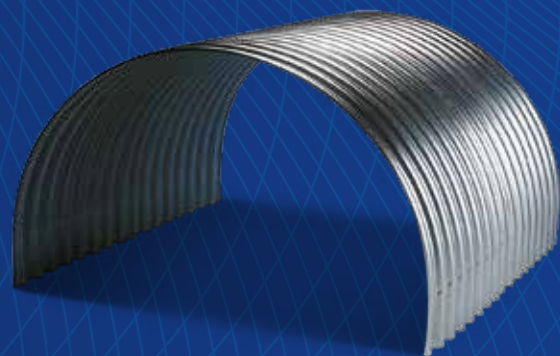
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Standard cover

A versatile concept



The classic Achenbach design.

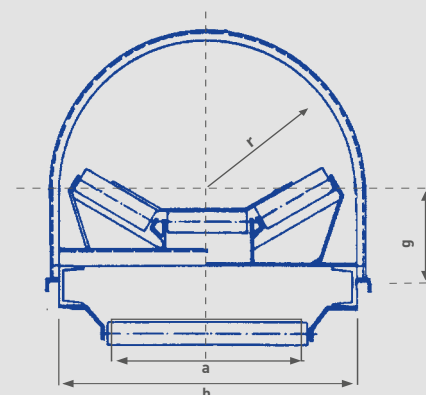
Available in 11 standard sizes for each conveyor belt type. Usually available from stock.

To inspect the conveyor system the covers can be easily removed from any position in a jiffy and then be placed back again. Every standard-sized cover can be fitted upon request with different inspection and maintenance openings, like our top products LOOP and superTec-cover.

Standard covers (Internal dimensions)

No.	Belt width (a)	Frame width (b)	Radius (r)	Approx. weight/cover (kg)	Straight haunch (g)
0	300	600	300	10.30	<ul style="list-style-type: none"> Normal length 200 Minimum length 150 Maximum length upon request Also available without straight haunch
1	400	700	350	11.50	
2	500	800	400	12.90	
3	650	950	475	14.70	
4	800	1150	575	17.10	
5	1000	1350	675	19.50	
6	1200	1600	800	22.50	
7	1400	1800	900	24.90	
8	1600	2050	1025	27.90	
9	1800	2250	1125	29.70	
10	2000	2500	1250	33.30	

All dimensions in mm,
special dimensions
upon request.



Various surfaces:

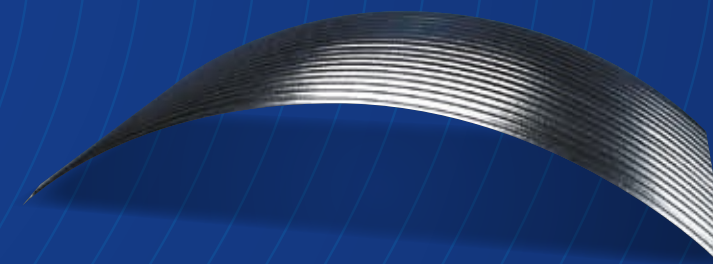
- Galvanized on both sides
- Aluzinc
- Plastic coated in RAL colours

Various materials:

- High grade steel (hot-dip galvanized)
- Aluminium
- Stainless steel
- Special plastic material (see pages 26/27)

Scheme arch cover

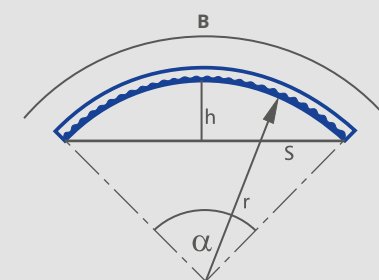
Design simplicity for maximum efficiency



Simple form with great effect.

This type of cover is an arched roof with a low pitch. Basically, the simple construction without straight haunches ensures sufficient protection of conveyance materials.

This system is available for all conveyor belt sizes. In particular with corrugated steel sheet sections of 42/160, large free spans can be achieved.

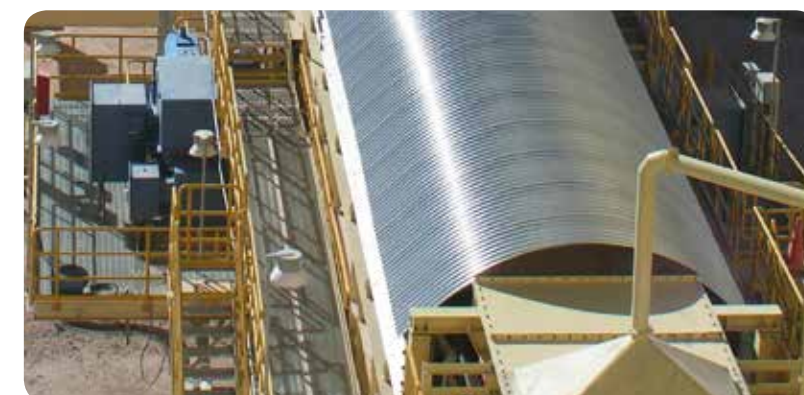


h = scheme arch height
S = chord
B = arch length
r = internal radius
 α = angle
L = length to be covered

Please note:

We tailor covers to suit your individual requirements. For enquiries or orders, all we need is

- Chord dimension (S)
- Scheme arch height (h)
- Covered length (L)



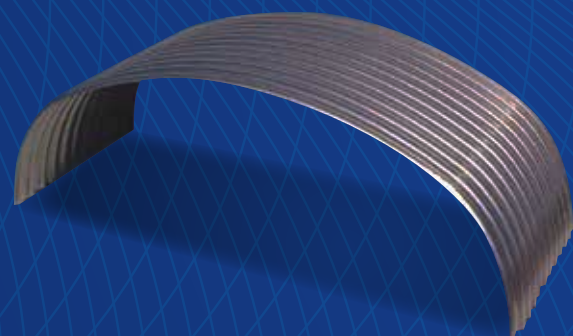
Example of application

Special cover · Tailored concepts

As Achenbach covers are manufactured in our own works, we can comply with your individual requirements and can produce nearly any special design in corrugated steel sheet at short notice.

Elliptical head cover

Flat shape – high efficiency



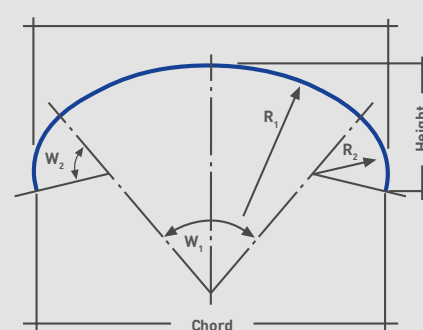
With its flat design, it is ideally suitable for conveyor belts with superstructures, e.g., loaders for vessels. Available in any cover size and any width.



Example of application Elliptical head cover – Australia



Example of application
Elliptical head cover



Please note:

We tailor covers to suit your individual requirements. For enquiries or orders, all we need is

- Chord dimension (S)
- Scheme arch height (h)
- R_{1+2}/W_{1+2}
- Covered length (L)

AFlex system

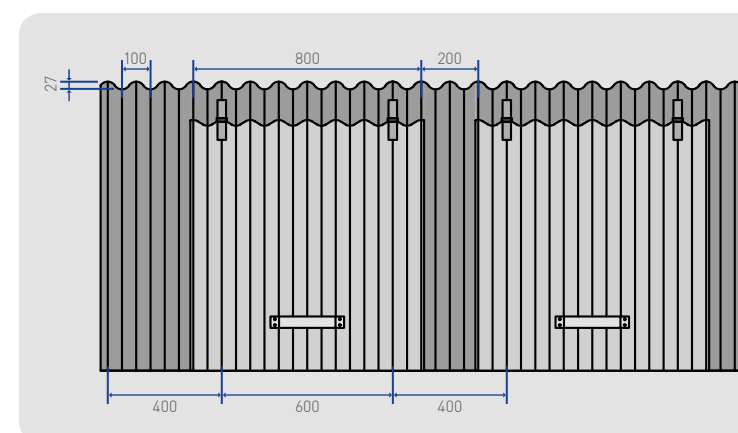
Ideal for checking



The AFlex system (Achenbach flexible cover system) has been designed to comply with customers' requirements: Each cover can be opened from either side, with no requirement for a supporting structure for the cover (AFlex TOP).

The AFlex system is made from a narrow supporting bracket from corrugated section. It is inserted into the (T or L) support (to be provided by the customer) and then fastened together with the covers using two tightening straps. This version of the AFlex system is available for the following Achenbach covers:

- LOOP cover (AFlex LOOP)
- superTec cover (AFlex superTec)
- AES sliding cover (AFlex AES)
- TOP cover (AFlex TOP)
- Viewing cover (AFlex viewing)



For AFlex TOP, an additional section can be dispensed with:

The supporting brackets from corrugated steel sheet are fastened to the U-section or the pipe section of the conveyor using hooks.

Useful width AFlex bracket
for profile 27/100: AFlex widths 200, 300 or 400 mm
for profile 18/76: AFlex widths 304, 380 or 456 mm

Segment cover

Great insights



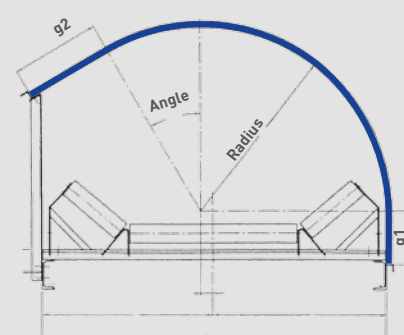
With this design, the tunnel is open on one side to ensure easy access. Simple installation is ensured by the supporting structure on the open side (to be provided by the customer). The complete tunnel is designed with one side open.



Example of application Segment cover



Example of application Segment cover

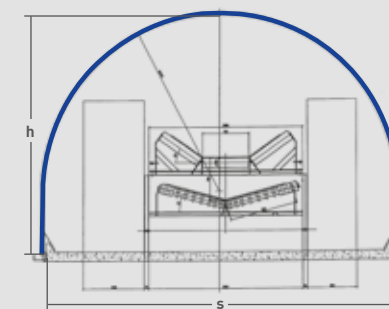


Please note:

We manufacture to your specification. For this we need:

- Dimension g1
- Dimension g2
- Angular dimension
- Radius

THE SPECIALITY OF ACHENBACH



Please note:

We manufacture according to your specification. Please quote in your enquiry or order:

- Chord dimension (S)
(frame width + walkway width)
- Height (h)
- Length to be covered (L)

Sections and structural analysis by Achenbach on request.

Jumbo cover

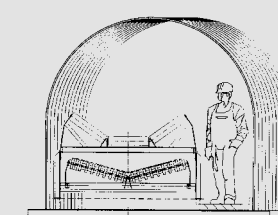
Generous and convenient



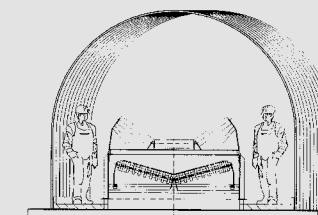
The simple and above all low cost solution for the complete housing of conveyor belts and walkways.

The covers are self-supporting and make the assembly simple and fast. Complete housing simplifies inspection and offers protection from external influences for both conveyor systems and conveyance materials.

Like our other cover systems, this can be tailored to nearly every conveyor size, also for basket-handle arches with a low pitch.



walkway
on one side



walkways
on both sides

ACHENBACH'S ADVICE:

For fastening methods for Jumbo covers, please contact us.



Akutherm cover

Achenbach cover sound reduction indexes

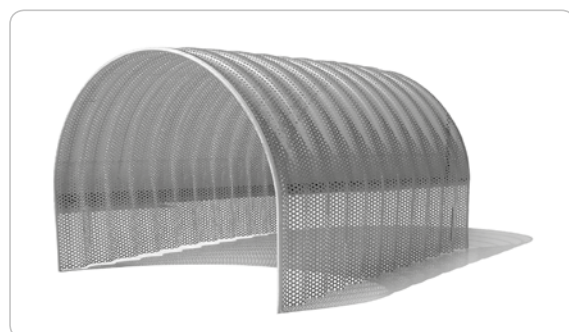


Housing the conveyor belt with our standard covers can reduce the noise emission by up to 10dB/A. A single-shell cover with additional felt coating on the underside can reduce the sound emission by up to 12 dB/A.

In case an even better sound damping is required, a multi-shell Akutherm cover can improve the noise reduction by up to 17 or 18 dB/A.

Please contact us for a more detailed calculation, because the stated values depend on different factors of the construction.

Principally, Achenbach covers is suitable to reduce the emission of noise.

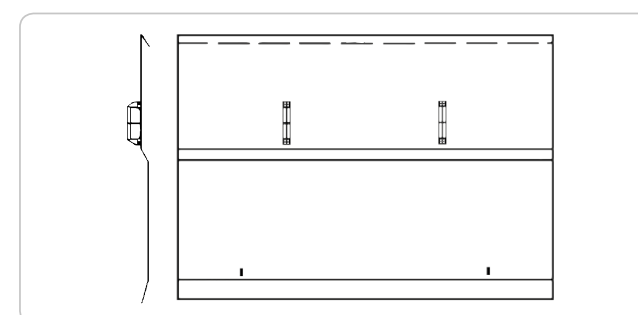


Lower chord cladding

Weather protection and accident prevention



Lower chord cladding



Cladding of the lower chord is more and more frequently required to provide protection against weathering and for the prevention of accidents.

Achenbach provides lower chord cladding according to your specification

- from folded flat sheet or corrugated steel sheet with horizontal corrugation
- with handles ensuring easy handling
- with elongated holes for trouble free fastening.

We will be pleased to offer solutions for housings, e.g., parallel to the lower chord.



LOOP cover

Convenient and safe

OUR **BEST-SELLING**
★ **PRODUCT** ★



Resulting from long-term experience and to be opened from both sides

With the option to open the cover from both sides, Achenbach developed an absolute best-selling product. Thousands of covers with this technology are in use worldwide and have proven to work perfectly in the practical application. Using two short integrated tightening straps and the optional stainless steel handles and retainers, this cover system is the most economical solution to open an Achenbach cover from both sides and lock it in place safely.

All add-ons to this cover are made of stainless steel. No loose parts when opening, locking or closing.

ACHENBACH'S ADVICE:



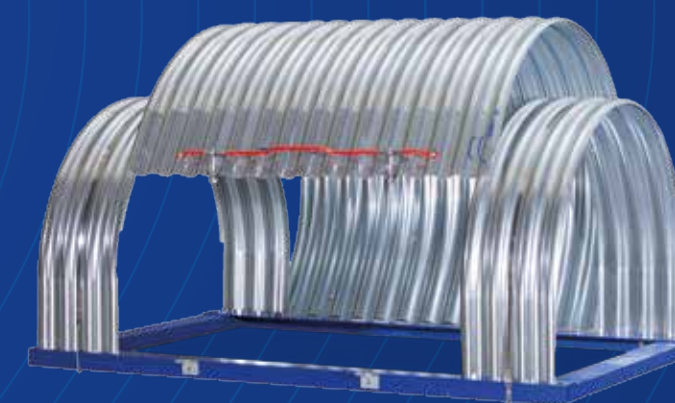
By alternate installation (cover at bottom, at top, at bottom, etc.), several metres of the conveyor are accessible to facilitate swift maintenance.



THOUSANDS OF LOOP-COVERS ARE IN PRACTICAL USE WORLDWIDE. CONTROL FROM BOTH SIDES WHILE MAINTAINING PERFECT SAFETY.

superTec EVO II

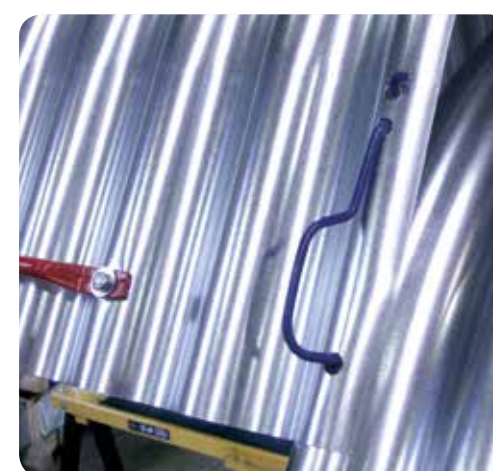
The ideal hinged cover – by Achenbach



Achenbach Metal Technology, manufacturer of the greatest variety in covers worldwide – has developed an all-rounder that fulfils perfectly the requirement of its customers for a simple and reliable option to open the cover from both sides: the **superTec cover Evo II**.

Other opening systems on the market require often an immense effort during assembly using up to 20 screws per cover. The **superTec cover Evo II** provides a clever solution by reducing the required amount of screws to 8, even if opening is requested on both sides. All add-on parts (including the big, easy-to-use handles) of this superTec cover are made of stainless steel. No loose parts when opening, locking or closing.

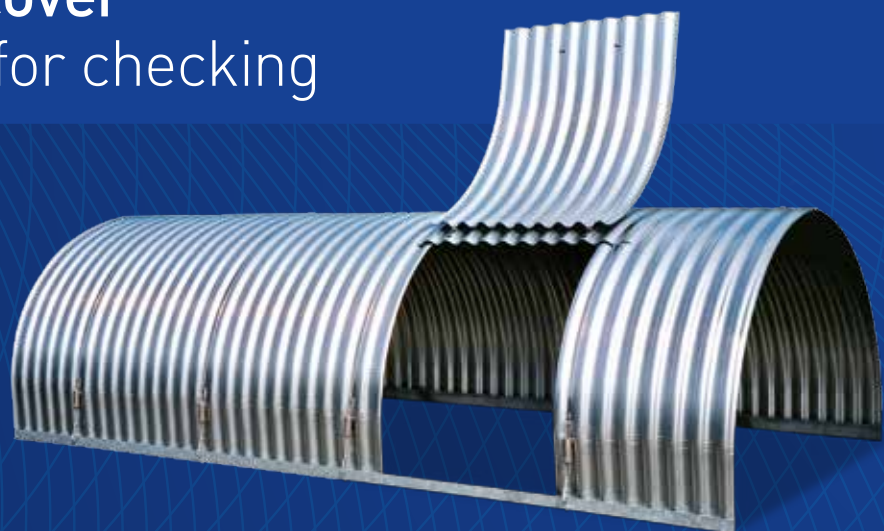
Using 4 small angle pieces made of galvanized rolled steel eliminate the need of additional T-profiles or angle pieces at the conveyor structure. The optional cover retainers made of stainless steel allow the superTec, as well as our top-seller, the LOOP-cover, to be locked safely when opened. This guarantees the simple and safe operation by only one person.



THE superTec EVO II CLOSES A SAFETY GAP AT THE CONVEYOR. EVEN A SINGLE WORKER CAN EASILY CONTROL THE SYSTEM.

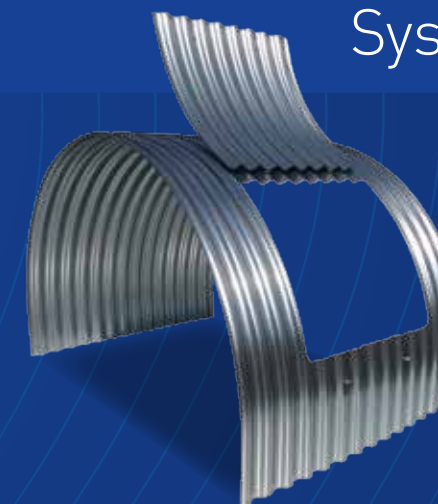
TOP cover

Ideal for checking



Cover with inspection opening

Systematic opening



Cover design with a large maintenance flap:
2/3 as fixed standard cover,
1/3 as opening, covered with a cambered flap.



Type A

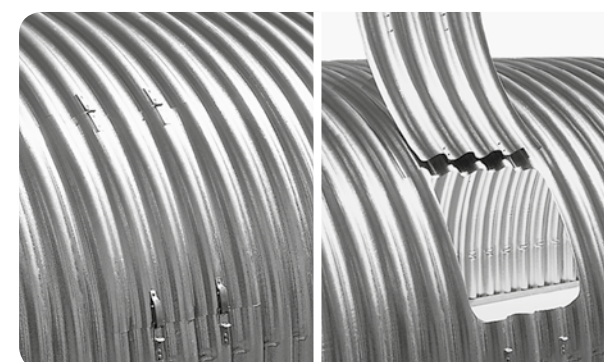
Type A with removable flap, fastened on top with two quick-release locks made from stainless steel (cap lock), with two vertically offset stainless steel handles to remove the flap.



Type B

Type B can be opened to the top and is fastened on top using two stainless steel hinges with a stainless steel handle to open the flap (overall width 600/684/912 mm).

Figure show TOP-cover Type B plus with 2 clamping springs for locking the flap



open

closed

Achenbach inspection cover with cambered flap

Covers with inspection opening on one side or upon request on both sides, 400 x 400 mm*, provided with a cambered, fitted flap which is held by two stainless steel hinges on one side and two stainless steel retaining locks on the other side.

*optionally 600 x 600 mm or 700 x 700 mm with large flap

Viewing cover · The simple design



This cover design with a large opening enables constant control of conveyor system and conveyance material. As a 2/3 version of the standard cover, the position of the opening can be on one side (for 1 walkway) or alternating (for 2 walkways or land conveyors). Every second cover of the tunnel can be fitted with this option (Tightening strap fastening: Widths 600/684/912 mm).

◀ Achenbach viewing cover with permanent inspection opening

AES easy sliding cover

Ingenious and convenient



The Achenbach-easy-sliding cover (AES-cover) offers another option to open our tried and tested conveyor covers. The AES easy sliding cover is fastened using two tightening straps type K-AES (with a clamping piece instead of a handle). The straps are guided over the cover and fastened to the supporting structure.

With the easily installed cover, you can quickly inspect the conveyor system and the conveyance material. The cover halves which can be moved above the tunnel vertex using the handle are accommodated on the adjacent covers and can be moved in a track-like way by the sheet profiling. The pressure of the tightening straps ensures that the cover halves are held in any position. Therefore the size of the cover opening can be individually selected for a given width.

Every other tunnel cover can be constructed in this new design

- (overall width 684/912 mm for section 18/76/0.75;
- 600 mm for section 27/100/0.80,
- straight haunch max. 400 mm).

AES-covers can only be used combined with the fastening system “Tightening strap Type K” and is not intended for slope conveyors.

AES EASY SLIDING COVER

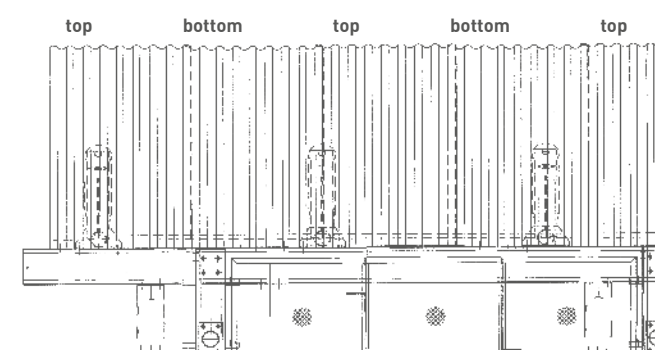
- Type I: one-side open
- Type II: two-side opening

AES easy sliding cover

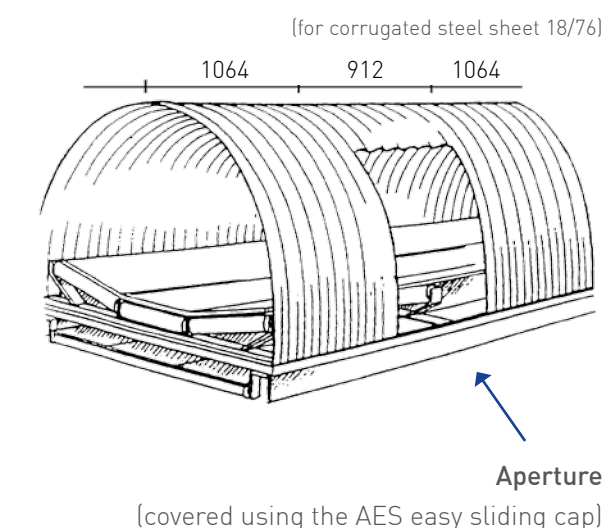
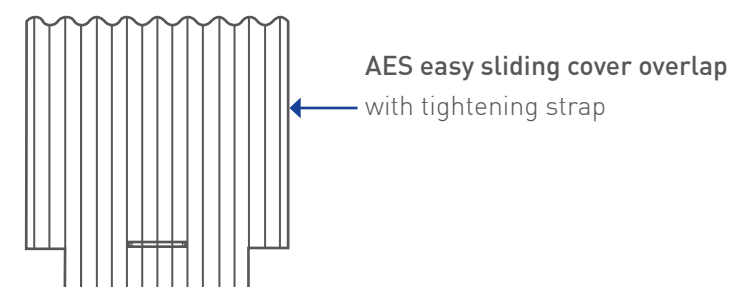
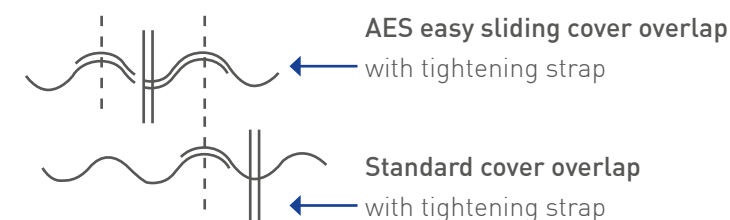
Ingenious and convenient



alternatively overlap



AES easy sliding covers overlap the adjacent covers by one additional corrugation.



TSC-cover

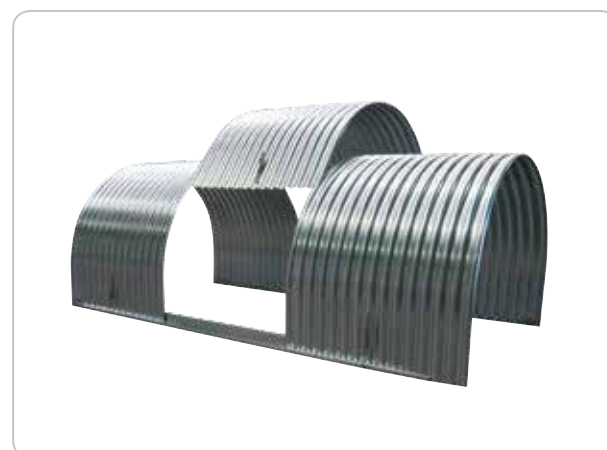
A well-rounded technology



Our access-option TSC (Tube Swivel Cover) is designed for a round-tube supporting structure in the construction.

The covers are built with two tubular frames on one side which act as hinges. On the side of the walkway, the covers can be fastened with a short, integrated tightening strap (similar to the LOOP-system) or in the simple variant using a hook bolt.

Optionally, we can provide you with retainers for safely locking the opened TSC-cover.



Achenbach
TSC cover

Ventilation cover

Ideal ventilation



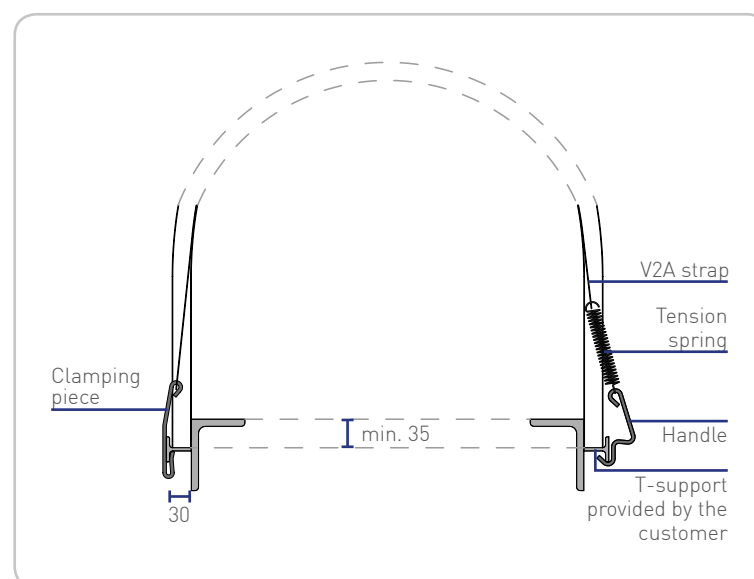
Achenbach
ventilation cover

Cover with extended straight legs (g), which protrude over the two adjacent covers. The incoming air gives enhanced air circulation in the tunnel and helps to reduce the temperature of materials being conveyed. Extended straight sections (g) upon request.

Fastening systems

Practical safety

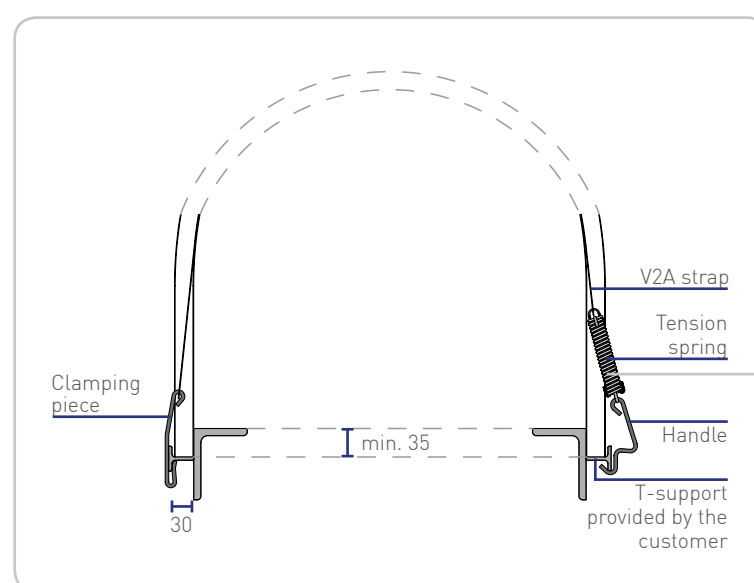
Type K* (Clamps)



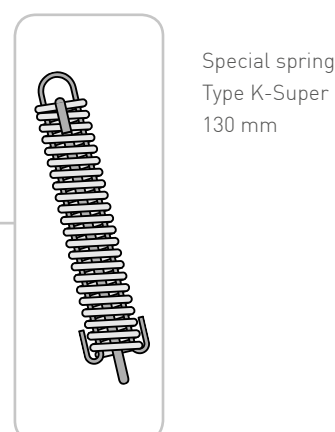
Rounded V2A tightening strap with clamping piece, tension springs and handle – all stainless steel. This ingenious system from Achenbach is the best-selling fastening.

*
The no. 1
for over
20 years

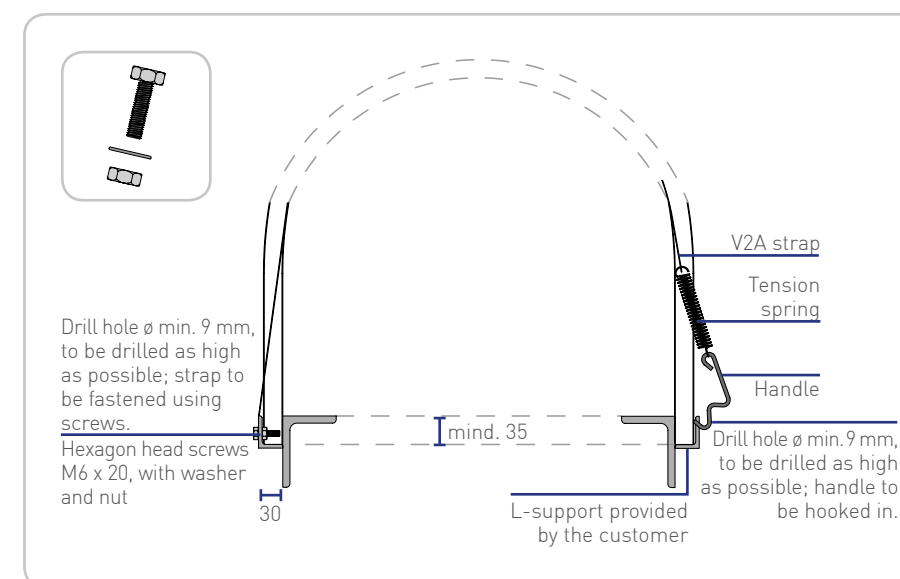
Type K-Super (Clamps)



With the K-Super type V2A tensioning strap, one tensioning strap per (standard) cover is sufficient, up to and including cover no. 10.

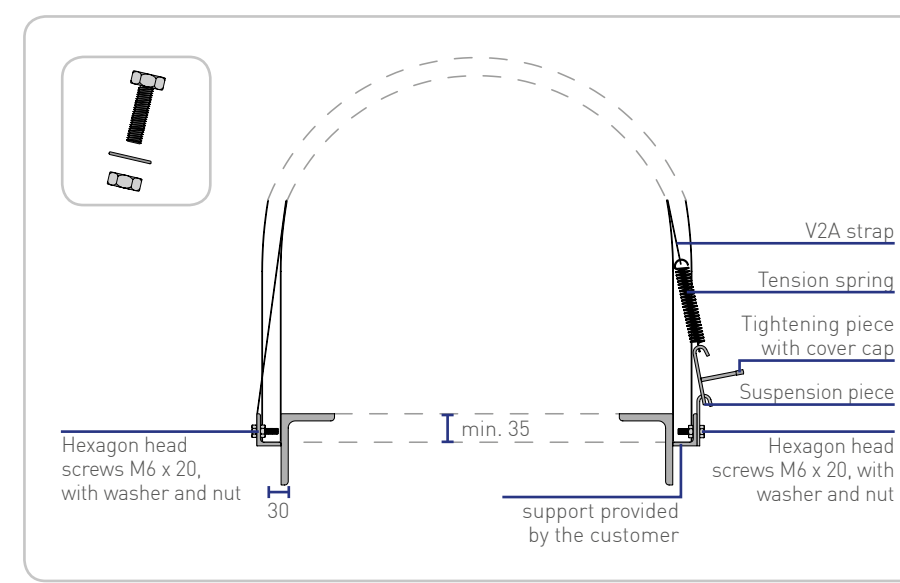


Type SK (Screws/clamps)



This method of fastening tensioning straps has been developed to cater for customers' requirements. It incorporates all the benefits of existing fastening methods. Application: L- or U- supports provided by the customer. Tensioning straps made completely from stainless steel are fastened on one side using screws; on the other side a handle is hooked into the (elongated) hole of the L- or the U-support (to be provided by the customer).

Type S

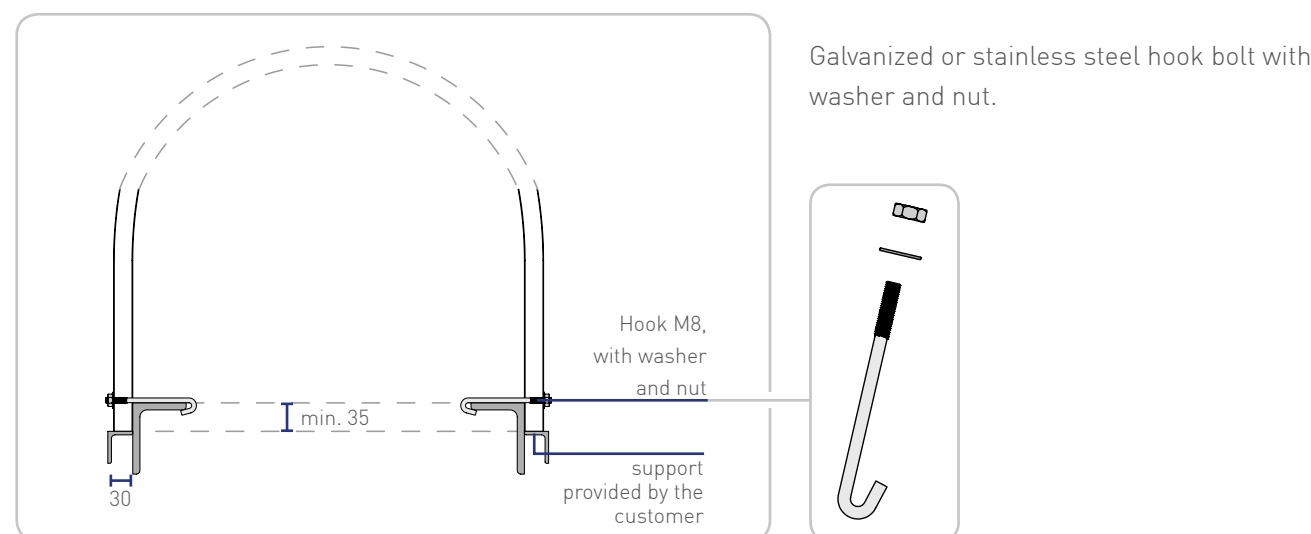


V2A tightening strap with V2A tension spring, galvanized tightening and suspension piece, as well as V2A fasteners.

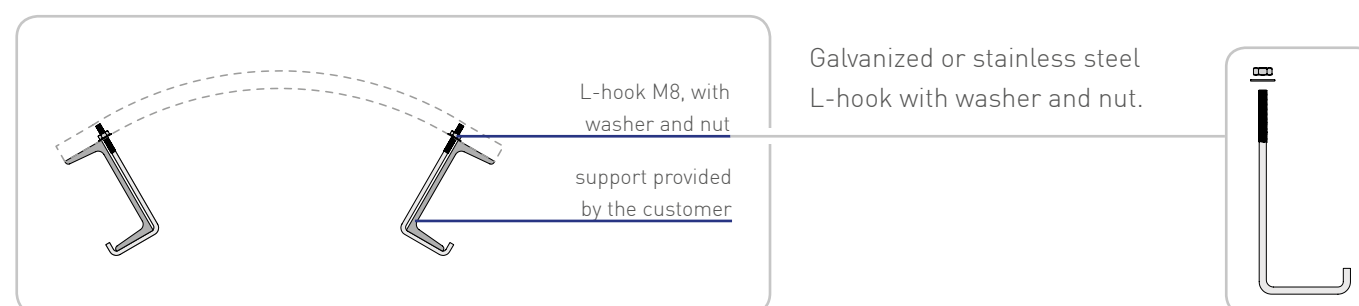
Fastening systems

Practical safety

Type H (Hook)



Type L (L-Hook)



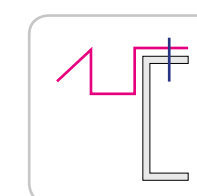
NOTE

According to the building regulations, the building owner or his representative must provide a structural analysis of the system and therefore of the cover. Based on the DIN 1055 part 4, the planner must ensure adaptation to local conditions. We will be pleased to inform you about further fastening options.

Supporting structure made of Aluminium-Zinc

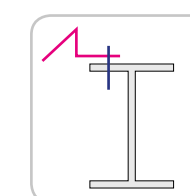
Cover-carrying supporting structures

Aluminium-Zinc supporting structure with a statically sufficient cross section and the profile adjusted to the construction; structure to be attached on both sides to the existing framework construction to accommodate the cover basis, complete including the necessary stainless steel drilling screws.



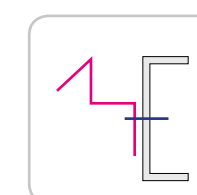
Type U/F

for U-support flange edge profile with bottom-hook edge for tightening strap Type K



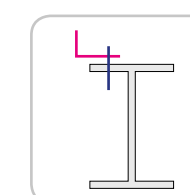
Type I/F

for I-support edge profile with bottom-hook edge for tightening strap Type K



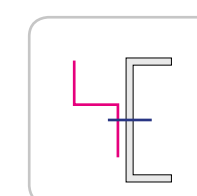
Type U/ST

for U-support web edge profile with bottom-hook edge for tightening strap Type K



Type I/L

for I-support edge profile with track of holes for tightening strap Type K



Type U/L

for U-support web edge profile with track of holes for tightening strap Type K

NOTE

Further options for supporting structure upon request.
All edge-parts can be lengthened individually from 150mm to 8,000 mm.

Sections

Shape for functionality

Achenbach covers which are well-proven all over the world are made from high-grade corrugated steel sheet, galvanized on both sides, for all conventional conveyor belt widths from 300 mm upwards. Achenbach is the world's only manufacturer to produce cambered covers in the following four sections. To the customer, this means that the optimum value for money cover to suit your specific application may be selected in high grade galvanized steel, aluminium or stainless steel or, as an option, in the RAL colour of your choice.

Sections and structural analysis by Achenbach on request.

Sections

Shape for functionality

The protective covers for conveyor belts made from surface refined corrugated sheet to DIN 59231 offer decisive benefits as compared with other materials:

- Self-supporting (no need for a supporting structure)
- Non-flammable
- Break-proof
- Maintenance-free for many years
- Extremely rugged
- Easy handling
- Troublefree disposal (steel recycling)
- Not harmful to environment
- Good value for money

Export section 18/76/0.75

Of course all covers are also available in our export section 18/76/0.75.

ACHENBACH'S ADVICE:

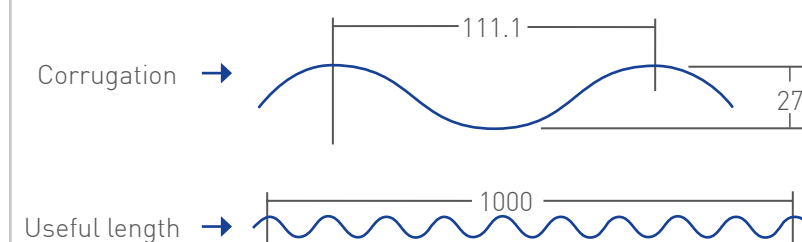
- Smaller export sections
- Suitable for smaller covers
- 2 overall widths/useful lengths:
 - 836 mm: convenient installation, for bent and inclined conveyors
 - 1064 mm: the increased useful length makes it appropriate for straight conveyors
- Please note: Unless otherwise specified, we will supply 1064 mm

ACHENBACH'S ADVICE:

- Exclusive section
- Centre distance (m) = number of covers (items)
- e.g. for Jumbo covers

Jumbo section 27/111

Optimum complement to cover section 27/100 with an increased useful length.



Section 27/100/0.80

Our corrugated steel sheet section 27/100/0.80 is particularly rugged and resistant to high loads.

ACHENBACH'S ADVICE:

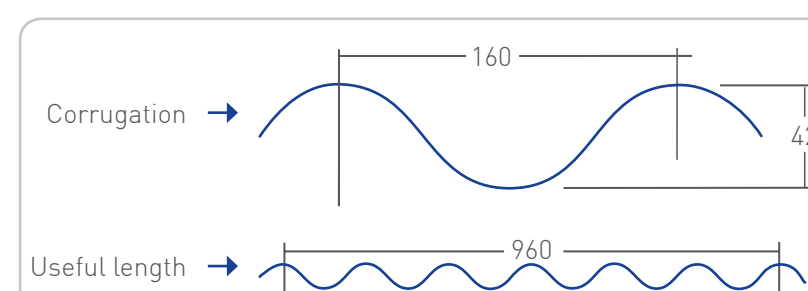
- Classical cover section
- Suitable for nearly all applications
- Convenient installation, excellently suited to bent and inclined conveyors

ACHENBACH'S ADVICE:

- Special section
- For large Jumbo covers
- For large, free-span scheme arch covers

Special section 42/160

The appropriate design for extremely high loads.

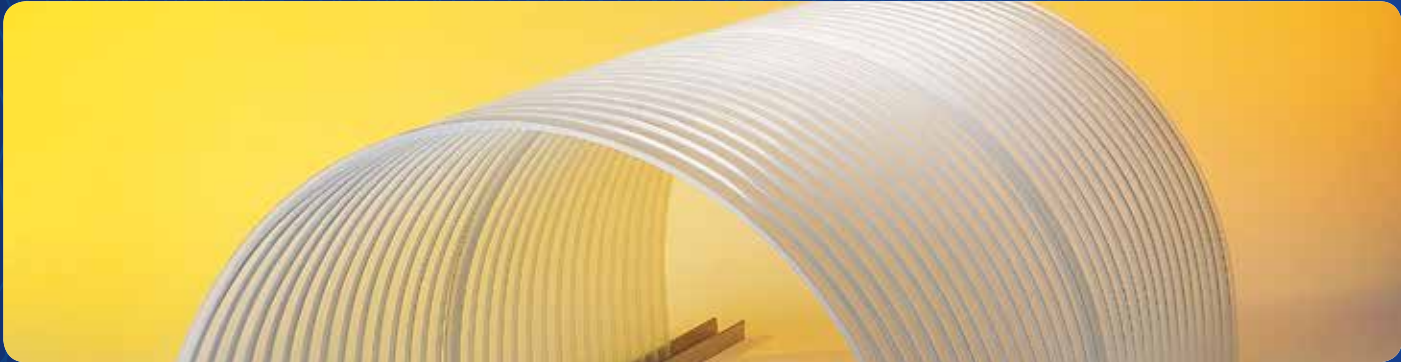


Organit Rigid PVC Hooded Covers

made of special plastic

Organit Rigid PVC Hooded Covers

made of special plastic



Organit Rigid PVC Hooded Covers from Achenbach

Chemically resistant + maintenance free

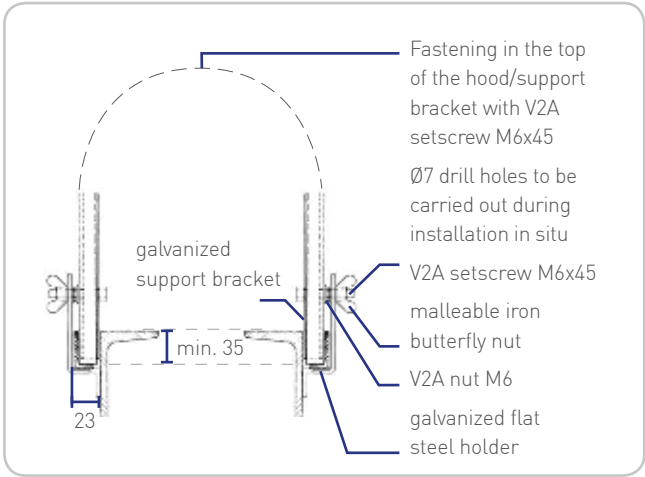
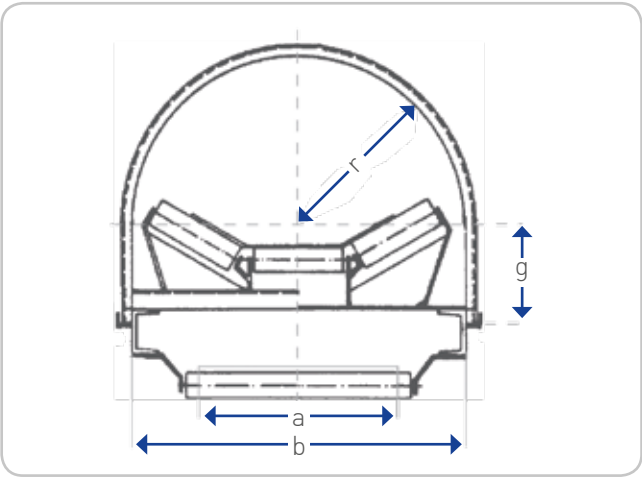
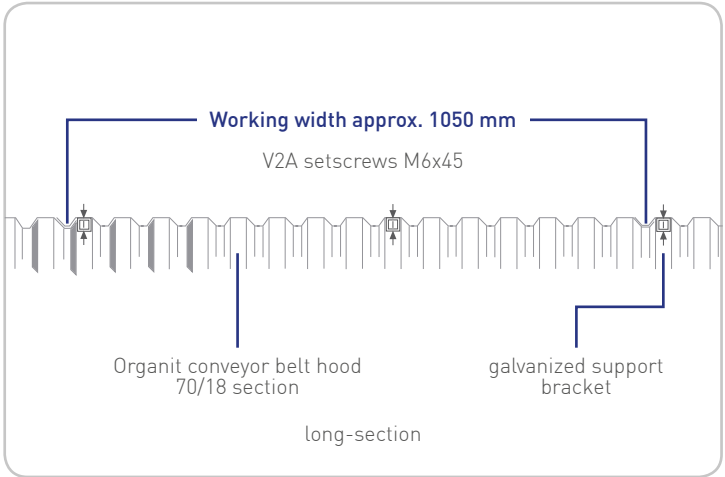
For decades, Achenbach is a renowned manufacturer of conveyor covers made of metal. We completed our diverse portfolio expanding on the market of plastic made Organit-covers. Different sectors of industry require alternatives to the metal systems due to legally prescribed conditions. In particular, plant for the food, sugar, chemical, potash and salt industries are dependent upon hooded covers made of Organit plastics. The corrosion resistant hoods reliably protect conveyor belt, roller bearings and the material conveyed against the weather. They can be easily removed at any location so that the conveyor belt can be inspected and then replaced.

Organit hooded conveyor belt covers made of natural transparent rigid PVC in the sheet piling section 70/18 have the following characteristics:

- Hardly inflammable DIN 4102
- Impact resistant DIN 7748
- Chemically resistant DIN 16929
- Maintenance free
- Low weight
- Convenient handling

No.	Belt width in mm (a)	Frame width in mm (b)	Radius in mm (r)	Hood weight (kg approx.)	Fastenings required per hood*	Weight of the fastenings per hood (kg approx.)
1	400	700	350	3.6	each 1 SB / hood	0.5
2	500	800	400	4.0	each 1 SB / hood	0.5
3	650	950	475	4.5	each 1 SB / hood	0.5
4	800	1150	575	5.3	each 2 SB / hood	1.0
5	1000	1350	675	6.0	each 2 UB / hood	7.4
6	1200	1600	800	7.0	each 2 UB / hood	7.6
7	1400	1800	900	7.7	each 2 UB / hood	7.7
Spec		2400	1200	10.0	each 2 UB / hood	

Straight sections (g) = 200 mm; SB = tightening strap; UB = support bracket
 * plus 1 piece of fastening per belt for the beginning/end of the tunnel.



Fastenings for covers No. 5 to Spec Type UB (support bracket)

For covers No. 5 to Spec. galvanized or stainless steel support brackets with galv./V2A fasteners. The bearing at the basis of the Organit-covers consists of continuous steel profiles in the construction which keep the cover in a stable position.

We resolve your cover-problems.
 Ask for Achenbach!

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Metalltechnik**

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