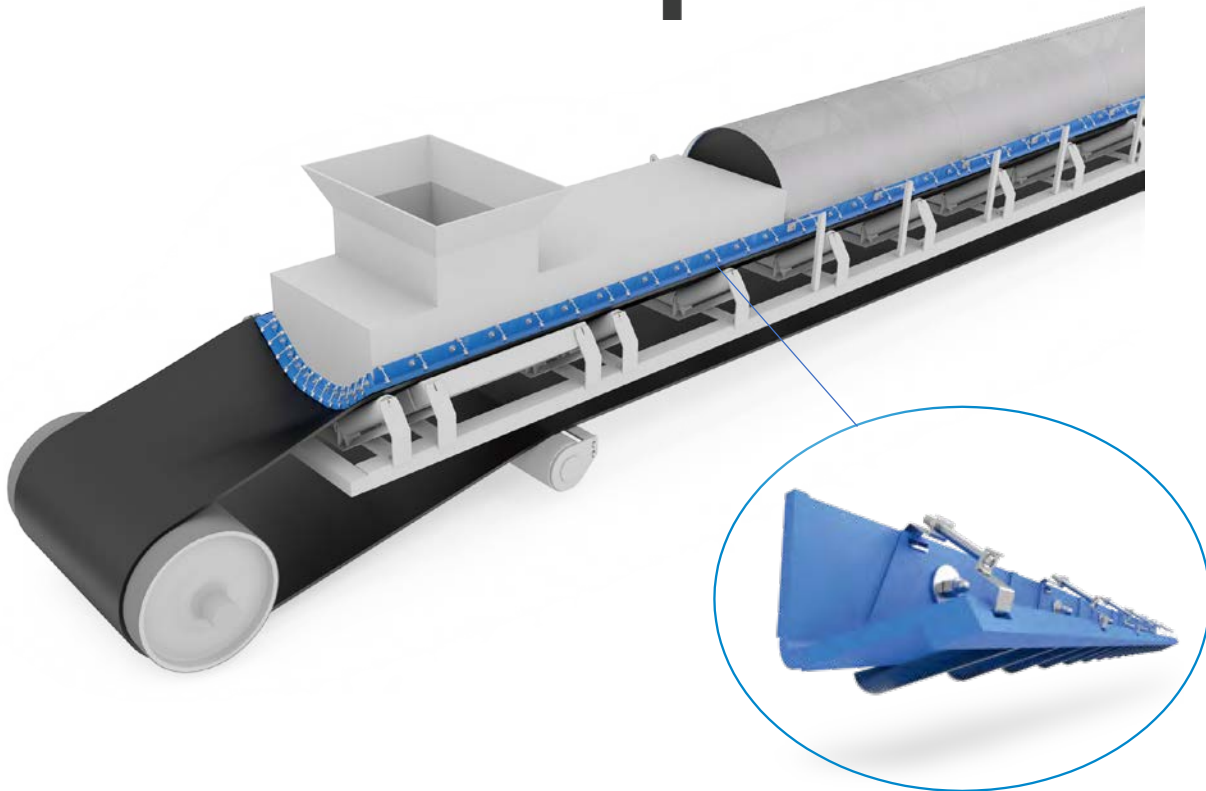


Installation Instructions & Datasheet - AirScape®

Kinder Australia Product:
Product Category:
Issue Date:
Revision:

AirScape® – Dust-Free, Contactless Conveyor Skirting
Conveyor Skirting & Transfer
7.2.23
1

AIRSCAPE®



**Always obey all applicable safety rules.
Be sure all power to the conveyor has been disconnected and controls are locked out.**

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

SUMMARY

1. AIRSCRAPE®

1.1. INSTALLATION GUIDE

1.1.1. IMPORTANT SAFETY INFORMATION

1.1.2. ASSEMBLY

1.2. TECHNICAL DATA SHEET

1.2.1. IMPORTANT INFORMATION

1.2.2. REQUIREMENT FOR THE USE OF AIRSCRAPE®

1.2.3. AIRSCRAPE® VARIANT HARDOX STAINLESS STEEL - MILLIMETRE

1.2.4. WEAR PLATE VARIANTS

1.2.5. INSTRUCTIONS TO USE EXISTING MOUNTING SYSTEMS

1.2.6. TECHNICAL DATA

1.2.7. OVERALL VIEW



1.1.1. IMPORTANT SAFETY INFORMATION

This guide helps you to operate AirScape® in a safe and effective way.

Familiarise yourself with the contents of this guide before you install the product and start using it.

Pay particular attention to the warning instructions given in this guide. Failure to observe these instructions entails the risk of serious injury and damage.

Do not attempt to commission the device if you do not understand the instructions provided.

Inform your supervisor or safety officer.

To avoid damage and injuries, the Contact Free Conveyor Belt Skirting "AirScape®" may be used for its intended purpose only to avoid damage and injuries.

All necessary measurements must be implemented by trained personnel only. The owner is responsible for compliance with applicable regulations and provisions at the location of use.

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
📠 +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScrape®

Before installation, please ensure that the following requirements are met:

1. Professional configuration of the device in line with its use.
2. Installation of the device in line with the assembly and operational manual.
3. Operation of the device in the scope of the approved conditions of use.
4. Regular visual checks in line with the manufacturer's instructions.

Intended use

General use

AirScrape® is a Contact Free Conveyor Belt Skirting system which hovers freely above the conveyor belt, eliminating skirt friction and belt damage. Its unique array of inward facing hardened steel diagonal blades, deflects larger particles inwards while using the airflow of the conveyor belt and conveyed material to create an inward suction, sucking or drawing any dust and fine particles back into the product flow.

Component modification

Modifications of components and deviating configurations, installations, operations and maintenance are subject to written approval of ScrapeTec. Failure to observe these instructions could lead to increased risk of injury and damage.

Warning instructions

- During operation, unpredictable belt movements may occur, with a danger of crushing. Owners must take appropriate safety measures (safety guards, warning notice).

Safety measures during installation and maintenance work

- Installation and maintenance work on AirScrape® blades must only be performed when the conveyor belt is stationary and locked out. Cordon off the work area. The work must be approved by the responsible works manager.
- Always use appropriate PPE.
- Always seek the owner's permission if you need to perform welding or cutting (hot work permits).
- If there is a risk of working at heights (working at heights permit) use of scaffolding, railings, safety nets and harnesses and all other relevant safety equipment is strongly advised.
- Before commissioning the Contact Free Conveyor Belt Skirting AirScrape®, always ensure that the work site is completely clear and parts, such as scaffolding, lifting gear and tools are removed from the area. All guards have to be refitted to the previous locations.
- Check that all screwed connections are securely tightened following any commissioning and maintenance work.
- Use original parts only.

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
✉ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

1.1.2. ASSEMBLY

1 Contents

1 x AirScape® - left & right length: 2m each
incl. pre-assembled lifting elements
1 x Gab plate
16 x Bolts weld on
16 x Nuts
16 x Washers
16 x lifting elements
1 x Product manual

Recommended tools:

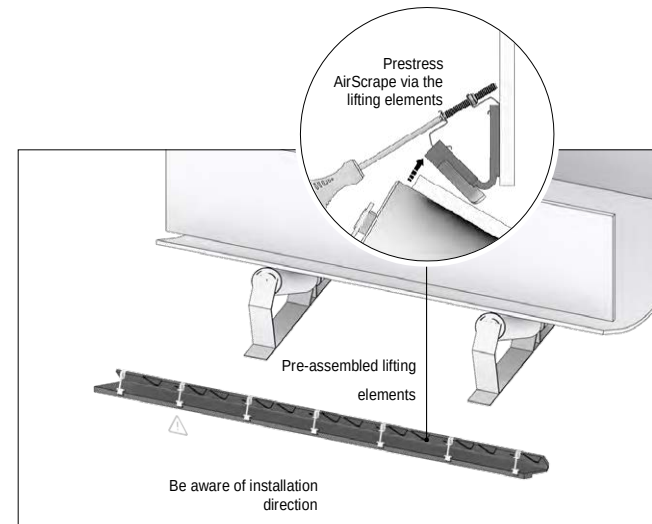
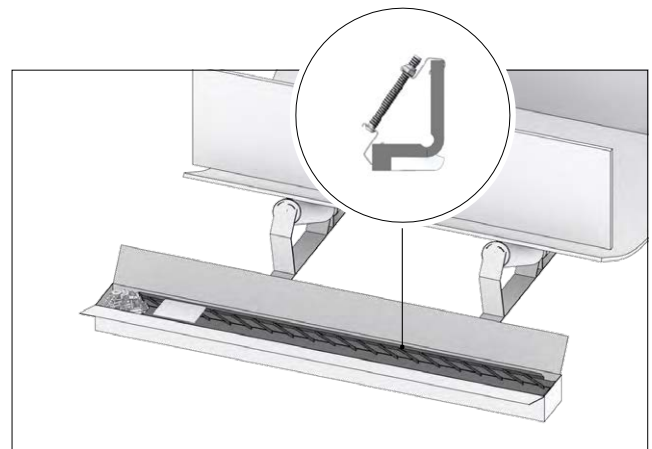
- 13 and 19 wrench
- 6mm Bit
- knife
- angle grinder | hacksaw
- cordless screwdriver
- welding equipment

2 Prepare AirScape® for installation

Tension the AirScape® so far forward with the lifting elements, that the angle is smaller than the existing trough angle.

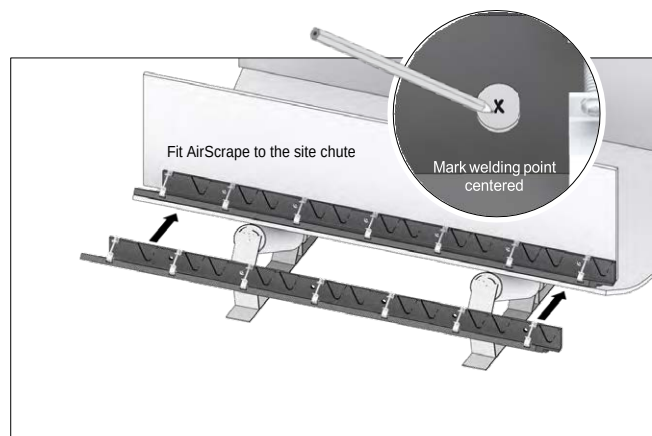


The installation direction must be coincident with the belt conveying direction!



3 Marking the welding points

Put the pretensioned AirScape® on the belt, mark the welding points for the bolts onto site wall.



kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
✉ +61 3 8587 9101

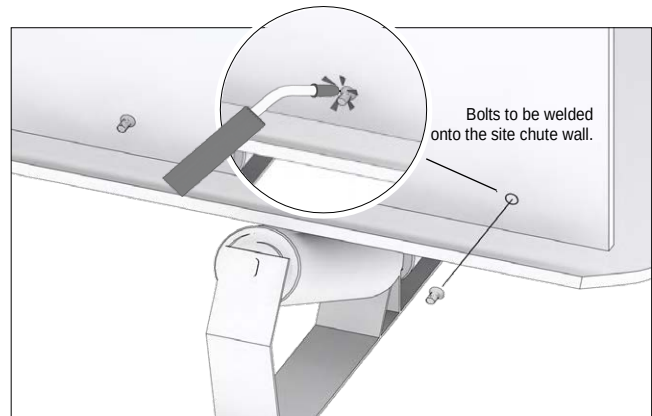
✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScrape®

4 Weld the bolts

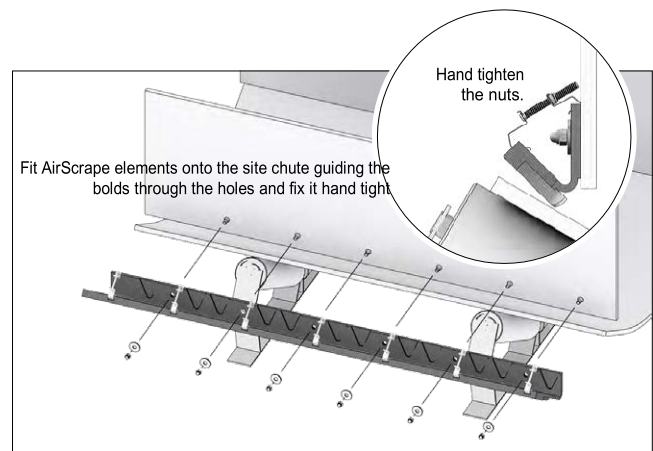
Take the AirScrape® elements off and weld the bolts accordingly to the markings on the site chutes.



5 Fit AirScrape®

Layout the AirScrape® element onto the belt and guide the bolts through the holes. Use a washer and a nut per bolt and screw it up hand tight!

In preparations for the adjustments, the entire AirScrape® lifting elements need to be over tensioned so the lamella tips are visible.

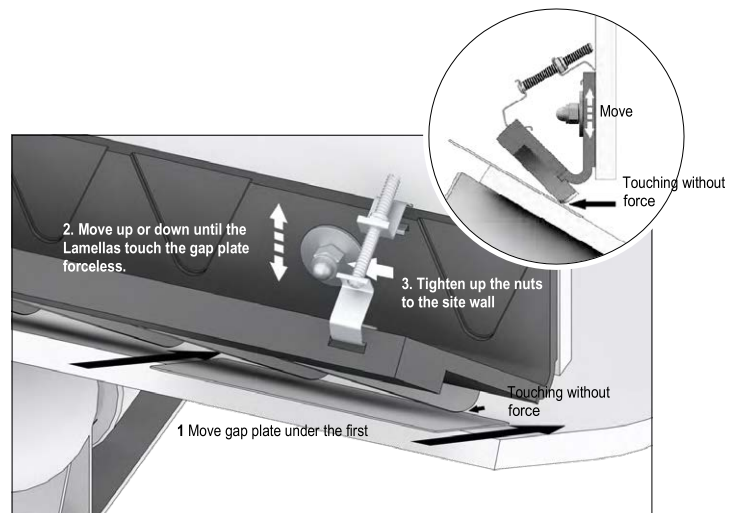


6 AirScrape® adjusting and tightening

1. For the adjustments move the gap plate underneath the AirScrape® and move the gap plate under the first bolt of the AirScrape®.
2. Move the AirScrape® up or down using the long holes so that the lamellas just touch the sheet.
3. Tighten up the nut to get the AirScrape® into the final position.

Note:

Gap plate still needs to be movable under the lamella tips.



kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

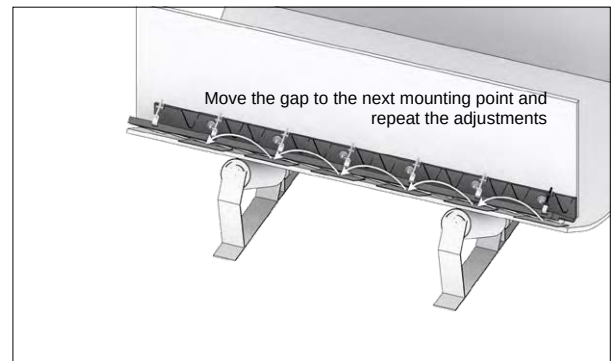
✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

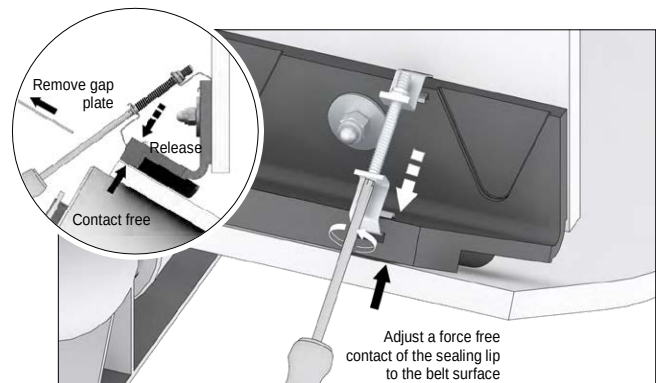
7 Continue with the adjustments on all the other bolts

Move the gap plate from one mounting point to the next and repeat the procedure until all the mounting points are adjusted.



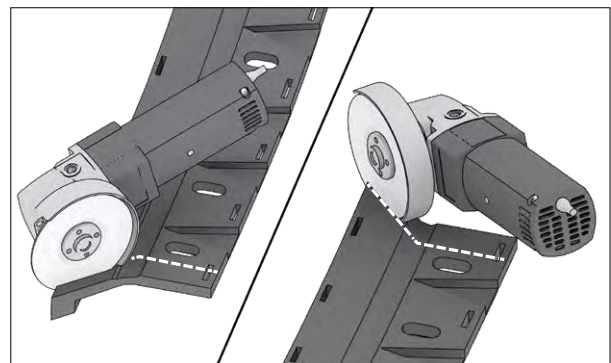
8 Adjust AirScape® into the operation position

Using the lifting elements so that the sealing lip just touches the belt.



9 Cut AirScape® to fit

If there is an overhang on the AirScape® which must be cut off, cut it with a metal hacksaw or an angle grinder parallel to the cutting marks. First cut vertically to the later bending line, then under 45° parallel to the cutting marks.



10 Before commissioning

1. Check conveying direction
2. Check all screw fastenings
3. Check the tension of the lifting elements
4. The gap plate needs to be movable without force between belt and AirScape®.

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
✉ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

1.2. TECHNICAL DATASHEET



The AirScape® conveyor belt skirting system hovers close to contact free on the left and right side of the conveyor belt using the air suction generated by the material movement and the moving belt.

Due to the diagonal array of the AirScape® lamellas which creates an airflow towards the centre of the conveyor belt, spillage and dust generation at transfer points and other critical areas in the conveyor chain are significantly reduced.

1.2.1. IMPORTANT INFORMATION

AirScape® – Conveyor belt skirting

- Consists of low-wear polyurethane
- Lamellas made from Hardox/Stainless Steel
- Consists of a right and a left design (2 m each)
- Available in Large, Medium and Small version
- Is mounted on the outer underside of the existing chute wall
- Maintenance free, based on provision that application is used in accordance with the guidelines.
- Provides belt protection and close to no belt contact
- Can be used for any belt speed
- Available in FDA approved material
- Can be made of flame-resistant and antistatic material (Polyurethane)
- Heat resistant material on request

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

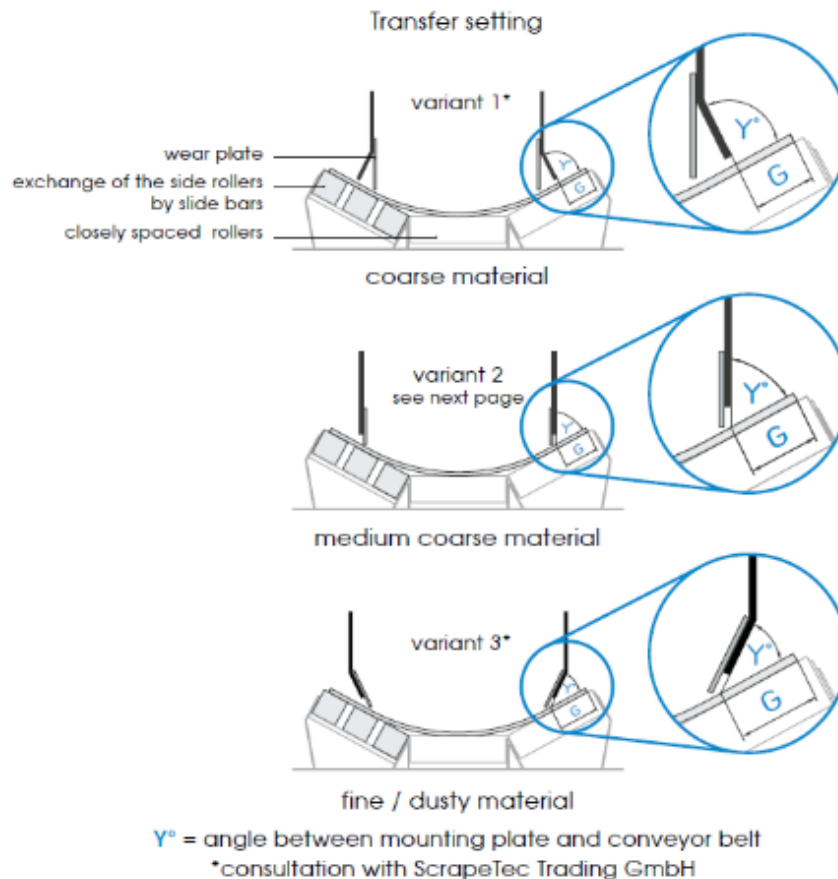
✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

1.2.2. REQUIREMENT FOR THE USE OF AIRSCAPE®

The prerequisite for this is a transfer situation that corresponds to the state of technology. The conveyor belt has to run in the middle and should not sag in the loading area. This can be achieved by using suitable belt guides, more rollers or a transfer table. A partial straightening of the outer belt area by special measures (e. g. replacement of the rollers by sliding bar construction) is also conceivable.



NOTE

AirScape® is not suitable for:

1. reversing belts
2. for conveyor belt inclines > 15°, please contact us for technical advice
3. in transfer situations where the main volumetric flow rate meets the side seal directly (special measures necessary)
4. Materials in the hardening / reaction process (e. g. pozzolanic materials and simultaneous addition of water to combat dust)

kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

1.2.3 AIRSCRAPE® VARIANT HARDOX STAINLESS STEEL – MILLIMETRE

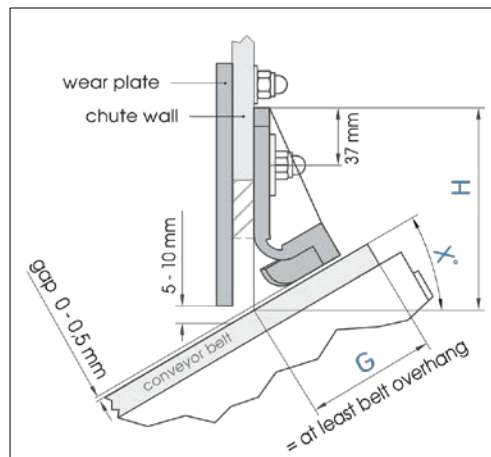
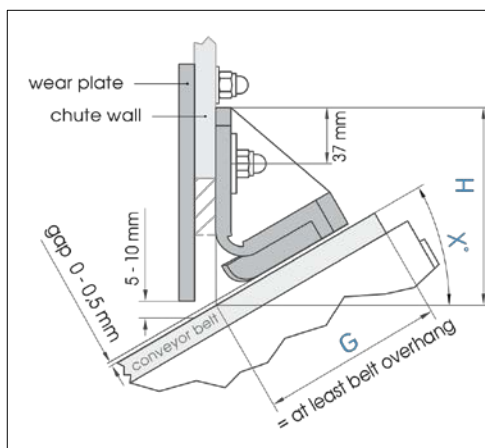


ATTENTION The belt overhang must be permanent. Belt overhang fluctuations must be taken into account.

X°	AirScape® - LARGE		AirScape® - MEDIUM		AirScape® - SMALL	
	Belt overhang: > 102 mm Free mounting area appx. 120 - 150 mm		Belt overhang: > 75 mm Free mounting area appx. 115 - 130 mm		Belt overhang: > 60 mm Free mounting area appx. 100 - 120 mm	
	H	G	H	G	H	G
0°	117	102	112	75	97	60
10°	119	105	114	78	98	62
15°	121	108	117	80	99	66
20°	122	110	118	82	101	69
25°	125	115	119	86	103	73
30°	128	120	120	90	106	78
35°	133	125	124	94	112	82
40°	141	133	128	100	117	91
45°	148	140	129	102	-	-

AIRSCRAPE®

LARGE

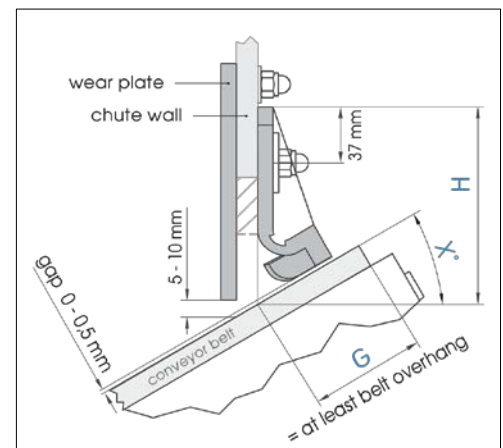


AIRSCRAPE®

MEDIUM

AIRSCRAPE®

SMALL



kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

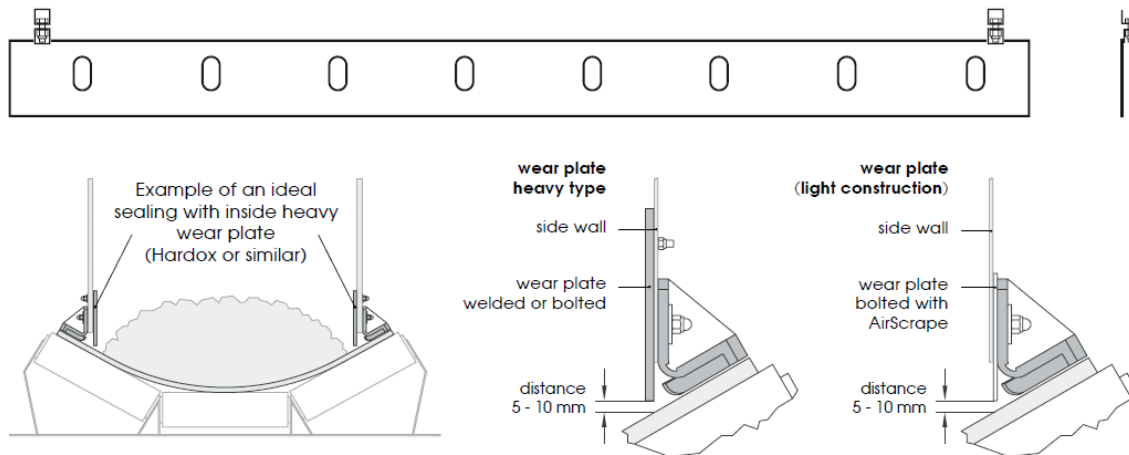
Installation Instructions & Datasheet - AirScape®

1.2.4. WEAR PLATE VARIANTS

Internal heavy version / external light version

If the gap between side wall and conveyor belt is larger than 10 mm, wear plates are used to protect the side seal. Depending on the installation situation, these can be internal wear plates (heavy-duty version, customer-side) or external wear plates (light-duty version). The additional wear plate is mounted starting (in relation to the conveying direction) at a distance of 5 mm from the belt. In conveying direction this gap increases by 5 - 10 mm / meter, length approx. 2 x belt width.

The light wear plates are available as special accessories to match the used AirScape® Small, Medium or Large.



1.2.5. INSTRUCTIONS TO USE EXISTING MOUNTING SYSTEMS

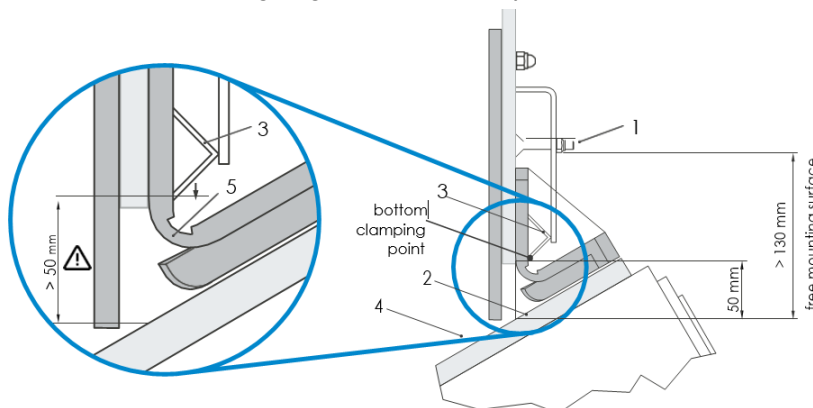
For the installation and use of existing mounting systems notice the following:

The fastening bolt (1) or any other attachments / clamping systems needs a distance > 130 mm towards the belt surface (2).



IMPORTANT

The position of the clamp angle (3) needs a minimum of 50 mm distance towards the belt surface (4) and needs to be above the bending angle of the AirScape®.



kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
☎ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Installation Instructions & Datasheet - AirScape®

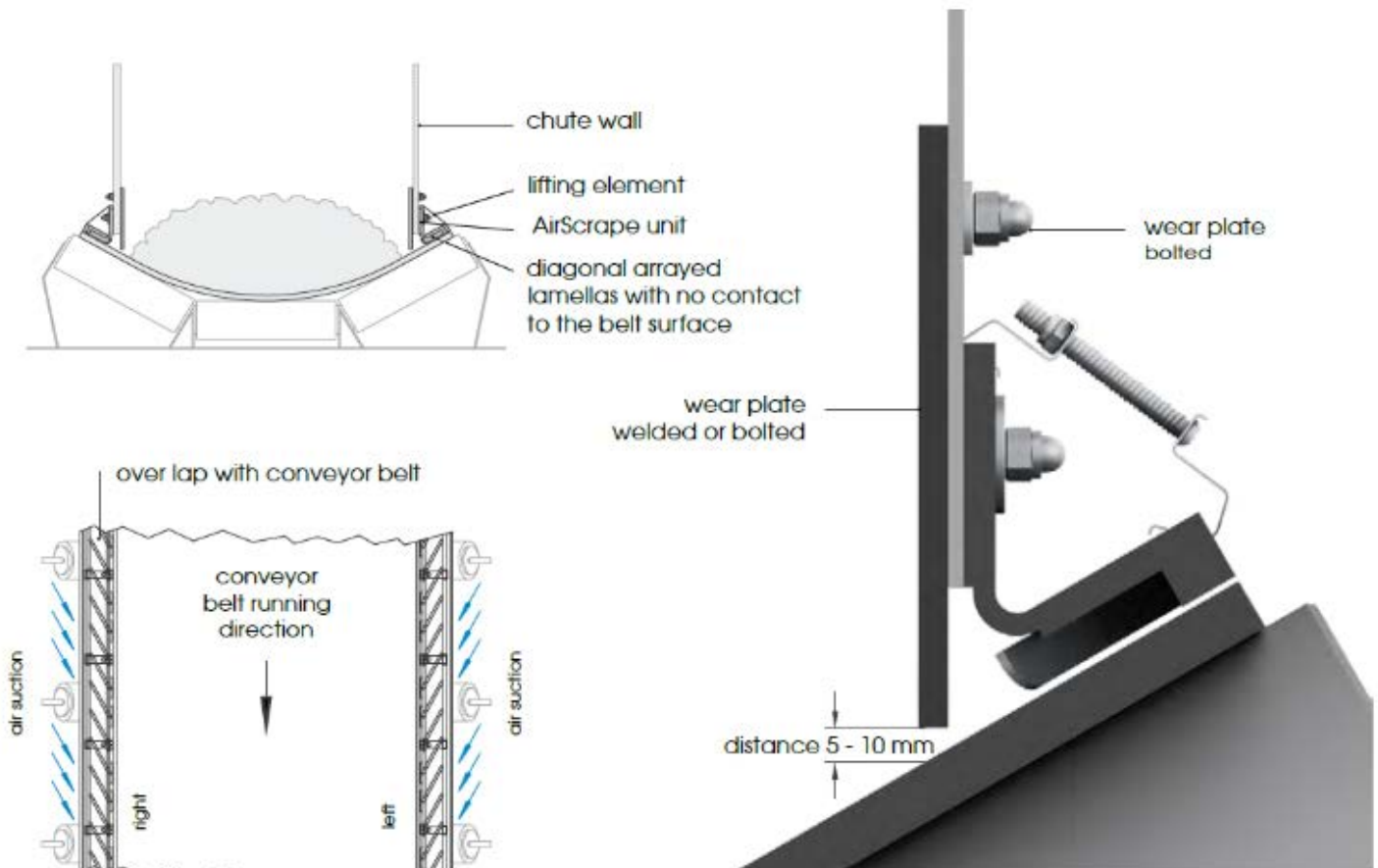
1.2.6. TECHNICAL DATA

Carrier material, optional: Polyurethane - Low-wear = standard
 - Flame-resistant and antistatic
 - FDA
 - Heat resistant material on request

Shore: Shore A 70 ± 5
 Working temperature: -30° to + 80° C
 Lamella material: > 360 HB or stainless steel
 System length: 2m right and left side

More detailed information and special specifications are available on request.

1.2.7. OVERALL VIEW



kinder.com.au

Subject to © Kinder Australia Pty Ltd

Issue: KDOC00120

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
 PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
 ☎ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

ABN: 28 006 489 238