



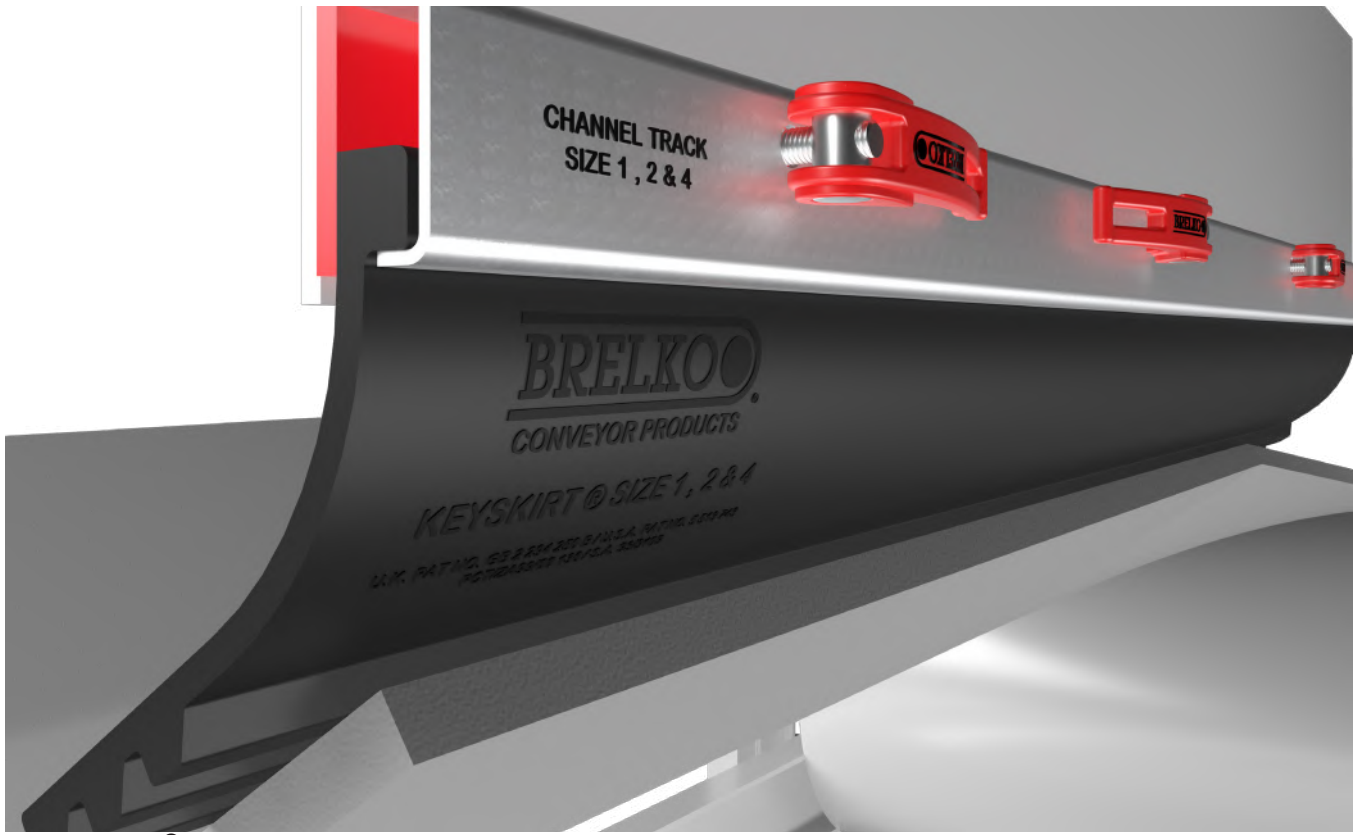
KEYSKIRT[®] CHUTE SEALING SYSTEMS

Patented

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INSTALLATION, OPERATING & MAINTENANCE MANUAL



KEYSKIRT® CHUTE SEALING SYSTEMS

PATENTED

Project Name	:	
Project Number	:	
Order Number	:	
	:	
Model Number	:	
Purchase Date	:	
Purchased From	:	
Installation Date	:	

Model number information can be found on the label on the Keyskirt® box.
This information will be helpful for any enquires or questions about the Keyskirt® replacement parts, specifications, or troubleshooting.

1. Disclaimer

Brelko Conveyor Products (Pty) Ltd hereby disclaims any liability for: damage due to contamination of the material; user's failure to inspect, maintain and take reasonable care of the equipment; injuries or damage resulting from use or application of this product contrary to instructions and specifications contained herein. Brelko's liability shall be limited to repair or replacement of equipment shown to be defective.

2. Safety Measures and Warnings

Observe all safety rules given herein along with owner and Government standards and regulations. Know and understand lockout/tag-out procedures as defined by National Standards Institutes, National Standard for Personnel Protection - Lockout/Tag-out of Energy Sources - Minimum Safety Requirements and Occupational Health and Safety.

2.1. The following symbols may be used in this manual:



DANGER

: immediate hazards that will result in severe personal injury or death.



WARNING

: hazards or unsafe practices that could result in personal injury.



CAUTION

: hazards or unsafe practices that could result in product or property damages.

IMPORTANT

: instructions that must be followed to ensure proper installation/operation of equipment.

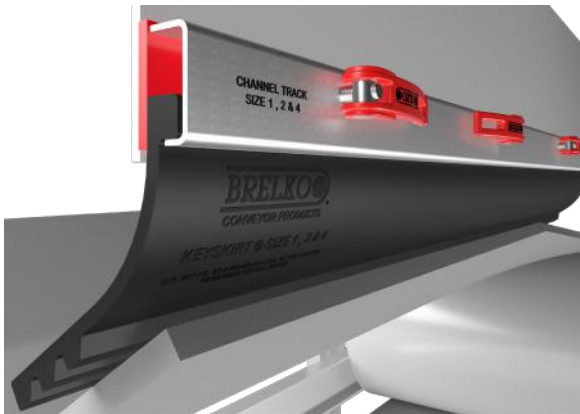
NOTE

: general statements to assist the reader.

3. General Information

Brelko Keyskirt® are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Keyskirt® is installed a regular maintenance program should be set up. This program will ensure that the Keyskirt® operates at optimal efficiency and problems can be identified and fixed before the Keyskirt® stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. Keyskirt® operate along the length of the conveyor and are in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and by following the correct lockout/tag-out procedures.

3.1. Technical Specifications



KEYSKIRT® SIZE 1, 2 & 4



KEYSKIRT® SIZE 3

APPLICATIONS

- Keyskirt® are primarily intended for use in conveyor bulk material handling applications as an effective chute sealing system to prevent spillage at conveyor load areas.

FEATURES

- **Keyskirt® Size 1, 2 & 4** is a flexible self-adjusting rubber conveyor belt skirting system that prevents spillage without requiring regular service to maintain an effective seal. Self-cleaning low contact grooves trap spillage allowing it to be carried away by the conveyor belt.
- **Keyskirt® Size 3** is a robust, cut and abrasion-resistant polyurethane conveyor belt skirting system designed to prevent spillage of large lump material where KEYSKIRT® SIZE 1, 2 & 4 are liable to severe damage.

SPECIFICATIONS - KEYSKIRT SIZE 1, 2 & 4

Colour ID Strip	Recommended Belt Width	Material	Durometer Shore (A)	Maximum Belt Speed (m/sec)	Maximum Service Temperature
Blue	Standard	SBR	55	6.0	-20 TO 60°C
Yellow	Low Hardness (LHB)	SBR	40	6.0	-20 TO 60°C
Red	Heat Resistant & Waste Works	IIR	55	6.0	FINE: -20 TO 180°C COARSE: -20 TO 220°C
Green	Fire Retardant & Anti-static (AS 1334.10:1994 / ISO 4589-2:1996(E) / ISO 2878:2011)	SBR	55	6.0	-20 TO 60°C
White	Food (Non FDA / Certified Food Contact)	PU	60	6.0	-20 TO 60°C
Clear	Chemical	PU	60	6.0	-20 TO 60°C

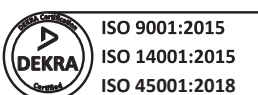
SBR = Styrene-butadiene Rubber / IIR = Butyl Rubber / PU = Polyurethane

SPECIFICATIONS - KEYSKIRT SIZE 3

Grade	Material	Durometer Shore (A)	Maximum Belt Speed (m/sec)	Maximum Service Temperature
Standard (Fire Retardant & Anti-static)	PU	95 - 97	6.0	-20 TO 60°C

PU = Polyurethane

Please note: Stainless steel main frame and mounts are available for corrosive environments.

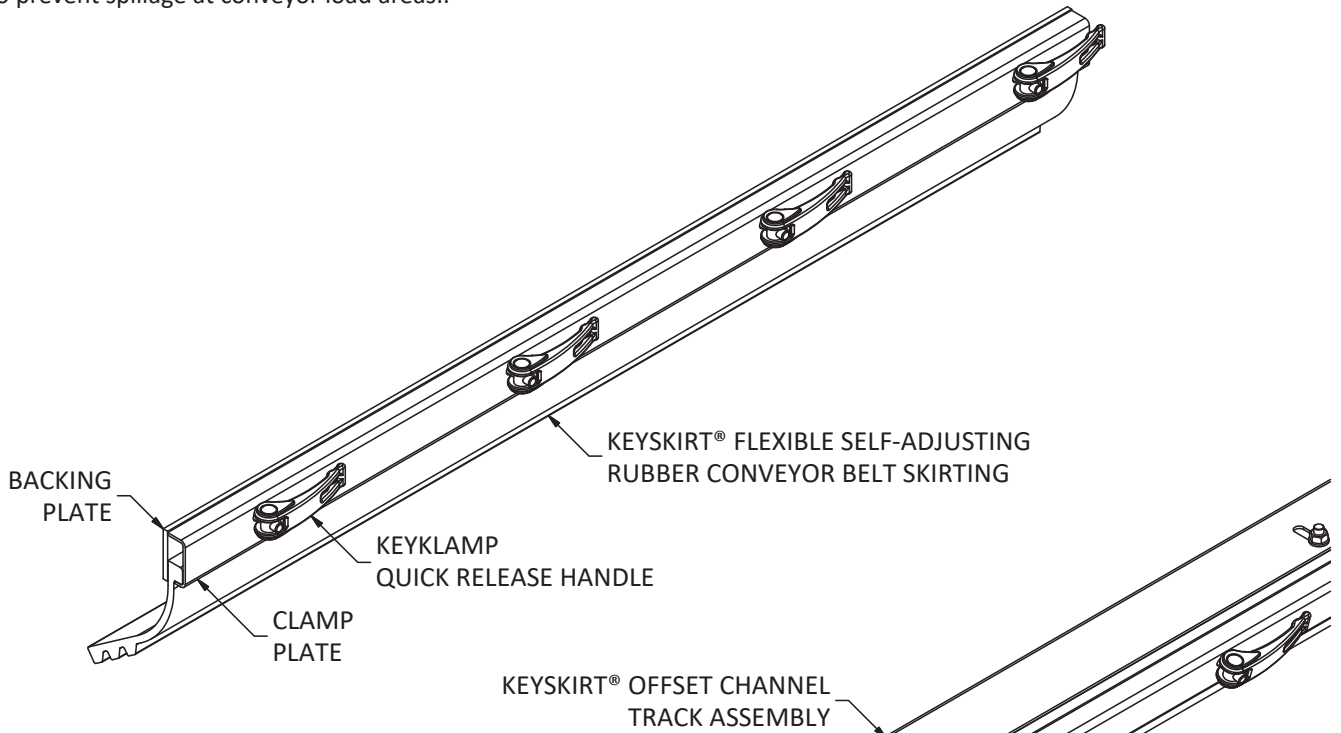


All technical and dimensional information is subject to change.
All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.



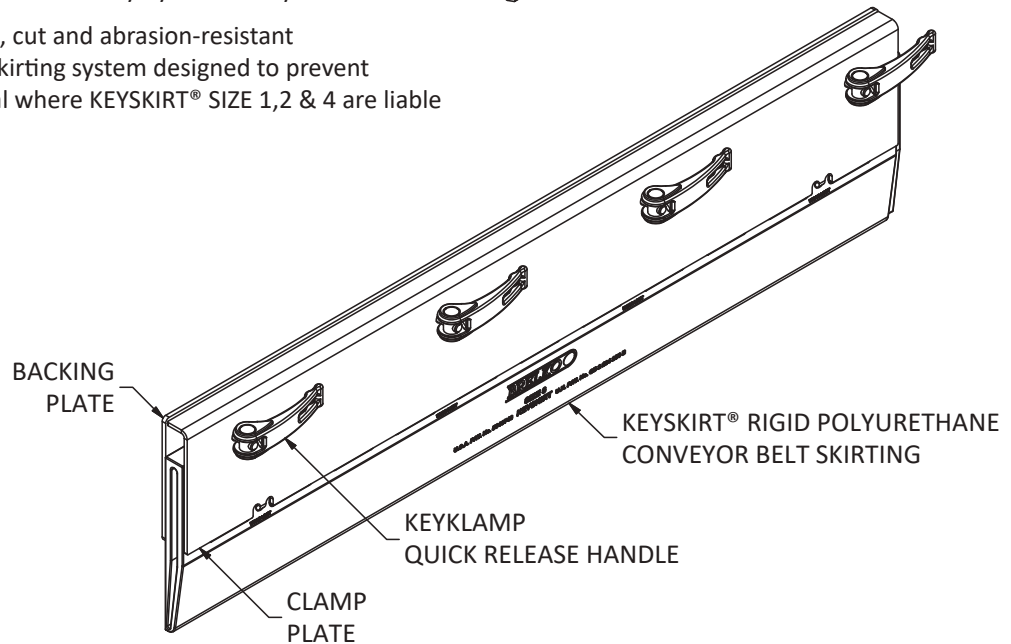
3.2. Intended Use

Keyskirt® are primarily intended for use in conveyor bulk material handling applications as an effective chute sealing system to prevent spillage at conveyor load areas..



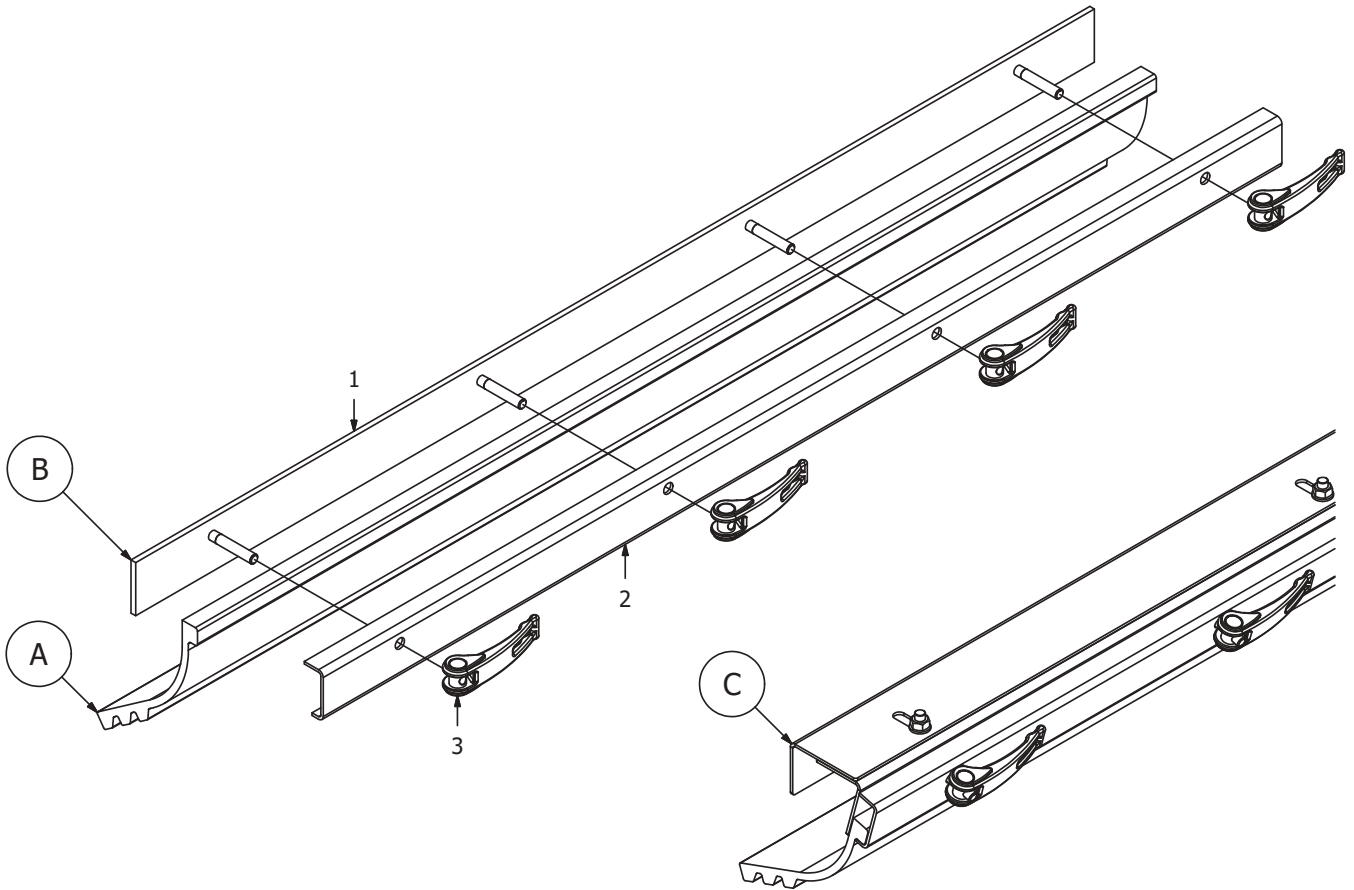
KEYSKIRT® SIZE 1,2 & 4 is a flexible self-adjusting rubber conveyor belt skirting system that prevents spillage without requiring regular service to maintain an effective seal. Self-cleaning low contact grooves trap spillage allowing it to be carried away by the conveyor belt.

KEYSKIRT® SIZE 3 is a robust, cut and abrasion-resistant polyurethane conveyor belt skirting system designed to prevent spillage of large lump material where KEYSKIRT® SIZE 1,2 & 4 are liable to severe damage.



Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.3. Component Overview - KEYSKIRT® SIZE 1, 2 & 4



(SHEET 1 OF 2)

3.4. Parts List and Hardware - KEYSKIRT® SIZE 1, 2 & 4

ITEM No.	DESCRIPTION	SKIRT WIDTH (mm)	SKIRT LENGTH (MTR)	CODE
A	FLEXIBLE RUBBER SELF-ADJUSTING CONVEYOR SKIRTING	160	10	
	KEYSKIRT® SIZE -1			
	STANDARD GRADE			9-2.2-1
	HEAT RESISTANT & WASTE WORKS GRADE			9-2.3-1
	FIRE RETARDANT & ANTI-STATIC GRADE	9-2.4-1		
	LOW HARDNESS (LHB) GARDE	9-2.7-1		
	KEYSKIRT® SIZE -2	210	10	
	STANDARD GRADE			9-2.2-2
	HEAT RESISTANT & WASTE WORKS GRADE			9-2.3-2
	FIRE RETARDANT & ANTI-STATIC GRADE			9-2.4-2
	LOW HARDNESS (LHB) GARDE	9-2.7-2		
	KEYSKIRT® SIZE -4	300	10	
STANDARD GRADE	9-2.2-40			
HEAT RESISTANT & WASTE WORKS GRADE	9-2.3-40			
FIRE RETARDANT & ANTI-STATIC GRADE	9-2.4-40			
LOW HARDNESS (LHB) GARDE	9-2.7-40			
B	KEYSKIRT® SIZE 1,2 & 4 CHANNEL TRACK ASSEMBLY CONSISTING OF BACKING PLATE CW STUDS, CHANNEL TRACK & QUICK RELEASE HANDLES	N/A	1.25	9-1.2.1KK

OPTIONAL ACCESSORIES

C	KEYSKIRT® SIZE 1,2 & 4 OFFSET CHANNEL TRACK ASSEMBLY CONSISTING OF BACKING PLATE CW STUDS, CHANNEL TRACK & QUICK RELEASE HANDLES	N/A	1.25	9-1.2.2KK
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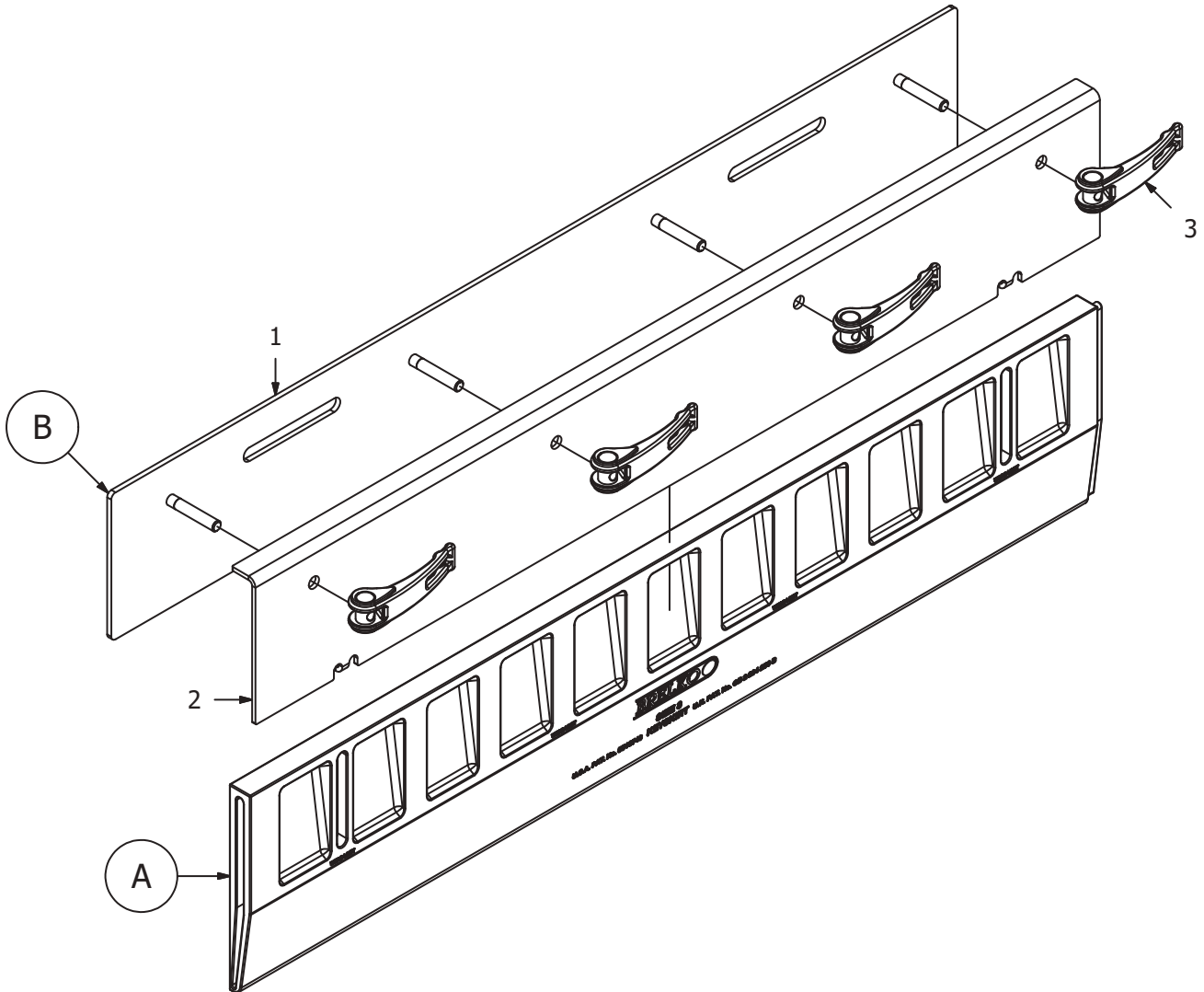
Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

Component I.D.

ITEM No.	DESCRIPTION	QTY.
1	KEYSKIRT® SIZE 1,2 & 4 BACKING PLATE CW STUDS	140-150-0001
2	KEYSKIRT® SIZE 1,2 & 4 CLAMP PLATE - GALV	140-185-0004
3	KEYKLAMP - QUICK RELEASE HANDLE - M10	9-1.7
	KEYKLAMP - QUICK RELEASE HANDLE - M12	9-1.7.1

(SHEET 2 OF 2)

3.5. Component Overview - KEYSKIRT® SIZE 3



(SHEET 1 OF 2)

3.6. Parts List and Hardware - KEYSKIRT® SIZE 3

ITEM No.	DESCRIPTION	SKIRT WIDTH (mm)	SKIRT LENGTH (MTR)	CODE
A	RIGID POLYURETHANE CONVEYOR SKIRTING KEYSKIRT® SIZE -3 : 160MM STANDARD GRADE (FIRE RETARDANT & ANTI-STATIC)	160	1	9-2.9-2
	KEYSKIRT® SIZE -3 : 210MM STANDARD GRADE (FIRE RETARDANT & ANTI-STATIC)	210	1	9-2.9-1
B	KEYSKIRT® SIZE 3 - 160MM CHANNEL TRACK ASSEMBLY CONSISTING OF BACKING PLATE CW STUDS, CLAMP PLATE & QUICK RELEASE HANDLES	N/A	1	9-1.2.4KK
	KEYSKIRT® SIZE 3 - 210MM CHANNEL TRACK ASSEMBLY CONSISTING OF BACKING PLATE CW STUDS, CLAMP PLATE & QUICK RELEASE HANDLES	N/A	1	9-1.2.3KK

Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

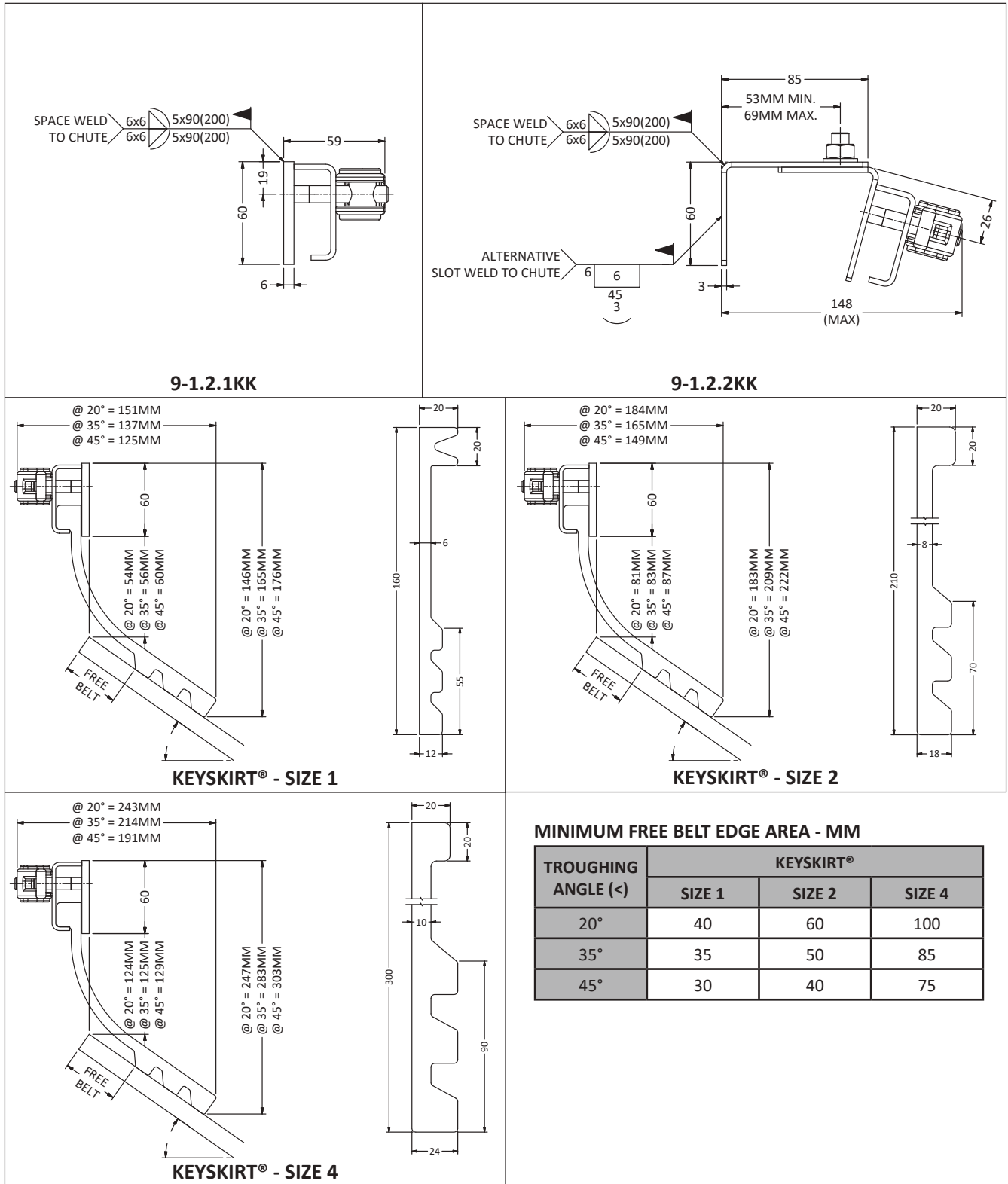
Component I.D.

ITEM No.	DESCRIPTION	QTY.
1	KEYSKIRT® SIZE 3 : 160MM BACKING PLATE CW STUDS	140-150-0004
	KEYSKIRT® SIZE 3 : 210MM BACKING PLATE CW STUDS	140-150-0003
2	KEYSKIRT® SIZE 3 : 160MM CLAMP PLATE - GALV	140-185-0066
	KEYSKIRT® SIZE 3 : 210MM CLAMP PLATE - GALV	140-185-0065
3	KEYKLAMP - QUICK RELEASE HANDLE - M10	9-1.7
	KEYKLAMP - QUICK RELEASE HANDLE - M12	9-1.7.1

(SHEET 2 OF 2)

3.7. Dimensions

3.7.1. KEYSKIRT® - SIZE 1, 2 & 4

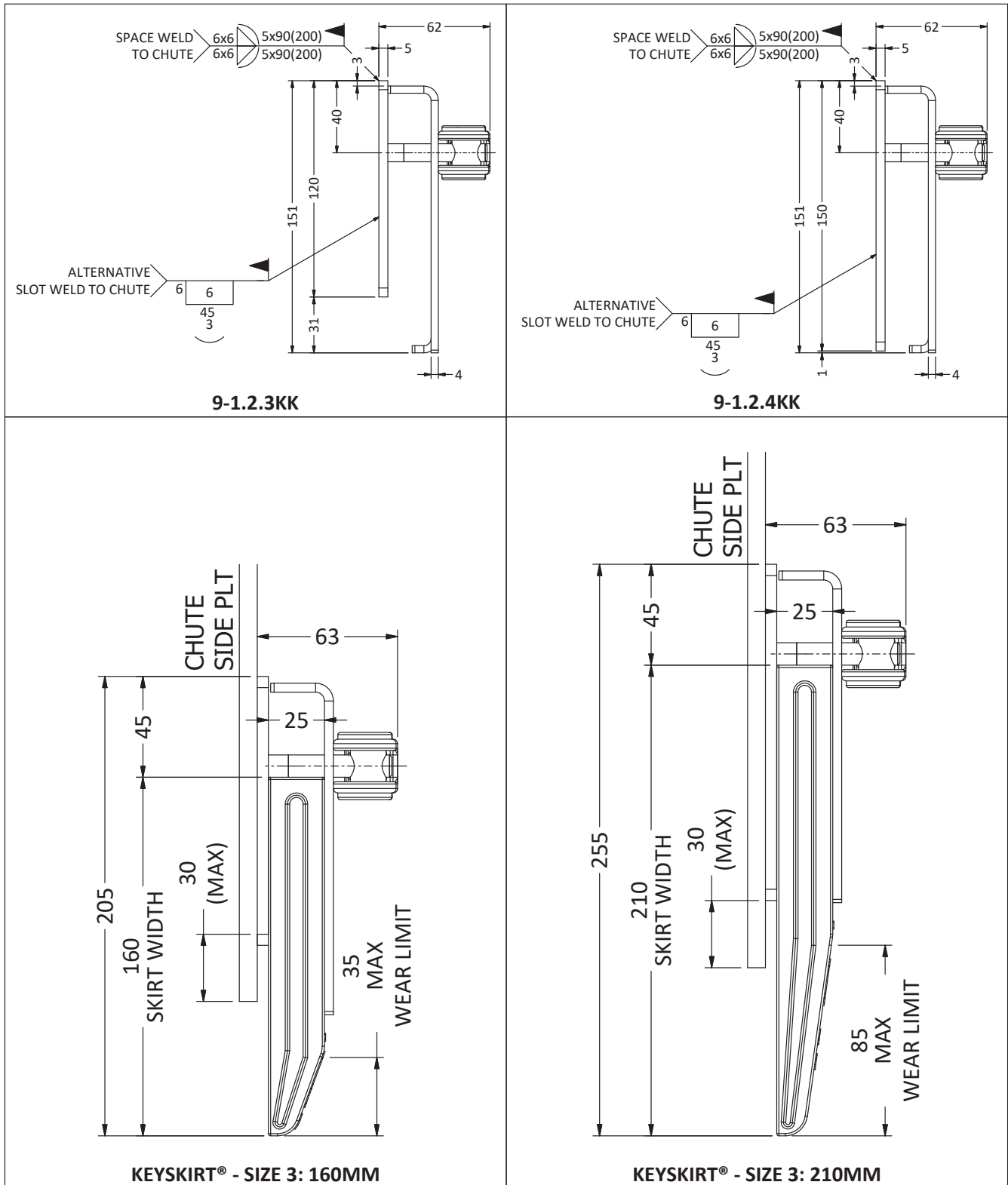


MINIMUM FREE BELT EDGE AREA - MM

TROUGHING ANGLE (<)	KEYSKIRT®		
	SIZE 1	SIZE 2	SIZE 4
20°	40	60	100
35°	35	50	85
45°	30	40	75

Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.7.2. KEYSKIRT® - SIZE 3



Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.8. Order Information

3.8.1. KEYSKIRT® SIZE 1,2 & 4

PART No.	DESCRIPTION	LONG DESCRIPTION
KEYSKIRT® - STANDARD GRADE		
SIZE 1		
9-2.2-1	KEYSKIRT® SIZE 1 - 10MTR ROLL	55 SH(A)
9-2.2-1PM	KEYSKIRT® SIZE 1 - 1MTR	55 SH(A)
SIZE 2		
9-2.2-2	KEYSKIRT® SIZE 2 - 10MTR ROLL	55 SH(A)
9-2.2-2-2PM	KEYSKIRT® SIZE 2 - 1MTR	55 SH(A)
SIZE 4		
9-2.2-40	KEYSKIRT® SIZE 4 - 10MTR ROLL	55 SH(A)
9-2.2-4PM	KEYSKIRT® SIZE 4 - 1MTR	55 SH(A)
KEYSKIRT® - HIGH TEMPERATURE & WASTE WORKS GRADE		
9-2.3-1	KEYSKIRT® SIZE 1 - 10MTR ROLL - HI TMP / WASTE WRK	55 SH(A)
9-2.3-2	KEYSKIRT® SIZE 2 - 10MTR ROLL - HI TMP / WASTE WRK	55 SH(A)
9-2.3-40	KEYSKIRT® SIZE 4 - 10MTR ROLL - HI TMP / WASTE WRK	55 SH(A)
KEYSKIRT® - FIRE RETARDANT ANTI STATIC GRADE (FRAS) TESTED IN ACCORDANCE WITH AS 133.10-1994, ISO 4589-2:1996, AS 1334.9-1982 and ISO 2878:2011		
9-2.4-1	KEYSKIRT® SIZE 1 - 10MTR ROLL - FRAS	55 SH(A)
9-2.4-2	KEYSKIRT® SIZE 2 - 10MTR ROLL - FRAS	55 SH(A)
9-2.4-40	KEYSKIRT® SIZE 4 - 10MTR ROLL - FRAS	55 SH(A)
KEYSKIRT - LOW HARDNESS GRADE		
9-2.7-1	KEYSKIRT® SIZE 1 - 10MTR ROLL - LHB	40SH(A)
9-2.7-2	KEYSKIRT® SIZE 2 - 10MTR ROLL - LHB	40SH(A)
9-2.7-40	KEYSKIRT® SIZE 4 - 10MTR ROLL - LHB	40SH(A)
KEYSKIRT SIZE 1, SIZE 2 and SIZE 4 MOUNTING COMPONENTS and ACCESSORIES		
9-1.2.1KK	CHANNEL TRACK ASSY - KK - SIZE 1, 2 & 4	GALV - 1250MM LG C/W QUICK RELEASE QUICK RELEASE KEYKLAMPS
9-1.2.1KK-SS	CHANNEL TRACK ASSY - KK - SIZE 1, 2 & 4 - SS304	SS304 - 1250MM LG C/W QUICK RELEASE QUICK RELEASE KEYKLAMPS
9-1.2.2KK	CHANNEL TRACK ASSY - KK - OFFSET - SIZE 1, 2 & 4	GALV - 1250MM LG C/W QUICK RELEASE QUICK RELEASE KEYKLAMPS
9-1.7	KEYKLAMP - QUICK RELEASE HANDLE - M10	C/W ADJUSTMENT NUT
9-1.7-SS	KEYKLAMP - QUICK RELEASE HANDLE - M10 - SS304	C/W ADJUSTMENT NUT - STAINLESS STEEL

3.8.2. KEYSKIRT® SIZE 3

PART No.	DESCRIPTION	LONG DESCRIPTION
KEYSKIRT - STANDARD GRADE (FIRE RETARDANT ANTI-STATIC) TESTED IN ACCORDANCE WITH AS 133.10-1994, ISO 4589-2:1996, AS 1334.9-1982 and ISO 2878:2011		
9-2.9-1	KEYSKIRT® SIZE 3 - PU - 1MTR - 210MM	95SH(A)
9-2.9-2	KEYSKIRT® SIZE 3 - PU - 1MTR - 160MM	95SH(A)
KEYSKIRT SIZE 3 MOUNTING COMPONENTS and ACCESSORIES		
9-1.2.3KK	CHANNEL TRACK ASSY - SIZE 3 - 210MM - KK	GALV - 1000MM LG C/W QUICK RELEASE KEYKLAMPS
9-1.2.4KK	CHANNEL TRACK ASSY - SIZE 3 - 160MM - KK	GALV - 1000MM LG C/W QUICK RELEASE KEYKLAMPS
9-1.7	KEYKLAMP - QUICK RELEASE HANDLE - M10	C/W ADJUSTMENT NUT

4. Before Installing Ploughs

4.1. Receiving the Goods

Check that the shipment contains all the items specified on the delivery note. If this does not match the delivery note or if the items show any transportation damage, **list it on the freight bill**. Describe the damage and the number of incorrect or faulty items and **contact your supplier immediately**.

Defective parts should not be used under any circumstances. Claims must be made within 8 days from the arrival of goods. Brelko do not cover claims or exchange of product if installation was not carried out according to installation instructions.

4.2. Work Safety

Always use protective gloves and clothing. Always use a lifeline and soft-sole footwear when work will be carried out on raised platforms. Before you move a Keyskirt®, check that it is securely attached to the lifting equipment. Always follow local safety regulations.



Before removing/installing equipment, lock out/tag out energy source to conveyor, and/or conveyor accessories.



Turn off and lock out/tag out energy source according to local standards. If equipment will be installed in an enclosed area, test gas level or duct content before using a cutting torch or welding. Using a cutting torch or welding in an area with gas or dust may cause an explosion.

4.3. Handling

Keyskirt® are supplied semi-assembled in a cardboard box. Care should be taken not to damage the box when unloaded from the transportation vehicle onto customer's platform.

4.4. Storage

Keyskirt® can be stored unpacked or in transportation package. Keyskirt® must not be stored unpacked on top of one another, protect the Keyskirt® by storing them in the transportation package in a cool dry area on a flat surface.

4.5. Preparation for installing Keyskirt®

1. All Keyskirt® will be boxed and clearly marked with the model number and belt width.

Note: Keyskirt® will be supplied with hardware to complete the assembly and installation.

2. Referring to the parts list and installation data sheet, check that the correct parts and quantities have been supplied.

4.6. Recommended Tools List

QTY	DESCRIPTION
2	EXTENSION CORD (20m MINIMUM)
1	PORT-A-PACK (OXY-ACETYLENE)
1	PRICKER
1	COMBINATION GAUGE (WITH SPIRIT LEVEL)
1	STRAIGHT EDGE (1M MINIMUM)
1	90° SET SQUARE
1	5M TAPE MEASURE
1	ADJUSTABLE SPANNERS
1 SET	PIPE WRENCH (3" MINIMUM)
1	SOCKET RATCHET SET (6mm - 30mm)
2	RING SET SPANNERS - M13, 15, 16, 17, 18, 19, 24
2	STANLEY KNIFE
1	M46 SET SPANNERS
1	M65 SET SPANNERS
1	HARD FACE HAMMER - 4lb
1	SOFT FACE HAMMER - 1kg
1	NYLON ROPE
1	"G" CLAMPS - 6" - 8"
1	JIMMY LEVER

5. Installation

Keyskirt® are primarily intended for use in conveyor bulk material handling applications as an effective chute sealing system to prevent spillage at conveyor load areas.

Keyskirt® Size 1, 2 & 4 is a flexible self-adjusting rubber conveyor belt skirting system that prevents spillage without requiring regular service to maintain an effective seal. Self-cleaning low contact grooves trap spillage allowing it to be carried away by the conveyor belt.

Keyskirt® Size 3 is a robust, cut and abrasion-resistant polyurethane conveyor belt skirting system designed to prevent spillage of large lump material where KEYSKIRT® SIZE 1,2 & 4 are liable to severe damage.

1. Select the most appropriate size and type of Keyskirt® for the application. Generally, Keyskirt® Size 1 is used for belt widths up to 750mm, Keyskirt® Size 2 for belt widths up to 1200mm and Keyskirt® Size 4 for larger belt widths. Keyskirt® Size 3 are used where the material particle size and drop height is such that Keyskirt® Size 1,2 & 4 may be damaged.
2. Ensure that the chute / belt clearance is sufficient as shown on the relevant drawings.
3. Mark out and weld the Keyskirt® backing plates to the chute sides.
4. Where there is a long run of Keyskirt Size 1, 2 & 4, check that the drag is not excessive. It may be necessary to adjust the bent through angle of the Keyskirt® to reduce the drag. Alternatively, use Brelko's offset channel track. Note: Offset Channel track must be ordered separately.
5. Keyskirt Size 1, 2 & 4 is supplied in 10m lengths. Consult your Brelko representative for assistance if longer lengths are required.
6. Keyskirt® should be replaced when worn away.
7. No running adjustments are required for Keyskirt® Size 1,2 & 4.
8. To further enhance the sealing benefit of the Keyskirt®, Brelko recommends installing Brelko Feedboots at the conveyor load points.
9. Ensure that the conveyor belt has been properly aligned and is tracking true so as to avoid Keyskirt® slipping off the belt edge.

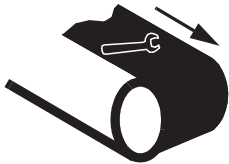
6. After Installing Keyskirt®

IMPORTANT

Read entire section before starting work.

1. Remove all tools and fire-retardant cover from installation area and conveyor belt.

WARNING



Failure to remove tools from installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.

DANGER



Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

2. Turn on conveyor and check if the Keyskirt is in full contact with the belt surface. Ensure that the conveyor belt has been properly aligned and is tracking true so as to avoid Keyskirt® slipping off the belt edge.

Note: allow belt to run through at least three to five revolutions.

WARNING



Before adjusting Keyskirt®, turn off and lock out / tag out energy source to conveyor and conveyor accessories.

3. If further adjustment is required lock out / tag out energy source.
4. Adjust the Keyskirt® until the Keyskirt® is in full contact with the conveyor belt and formed a dust tight seal.

Note: Do not over adjust the Keyskirt®.

IMPORTANT

5. Make sure all fasteners are tight. Tighten if necessary.

7. Maintenance

Brelko Keyskirt® are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Keyskirt® is installed a regular maintenance program should be set up. This program will ensure that the Keyskirt® operates at optimal efficiency and problems can be identified and fixed before the Keyskirt® stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. Service tasks can be done only with the conveyor stopped and by following the correct lockout/tag-out procedures.

7.1. New Installation

After the new Keyskirt® has run for a few days, a visual inspection should be made to ensure the Keyskirt® is performing properly. Make adjustments as needed.

7.2. Routine Visual Inspection (every 2 to 4 weeks)

A visual inspection of the Keyskirt® and belt can determine:

- Check Keyskirt® for wear;
- Make sure that the quick release handles are tight;
- Make sure that the Keyskirt® is resting on the conveyor belt.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for Belt Skirting Maintenance. When maintenance tasks are completed, test run the conveyor to ensure the Keyskirt® is performing properly.

8. Troubleshooting Guide

Problem	Possible Cause	Possible Solution
Skirting is disengaging belt	Belt is misaligning	Correct alignment Install a Brelko Belt Tracking System
	Skirting is worn out and too short	Replace skirting
Material is leaking out of skirting	Skirting is not installed correctly	Install skirting correctly
	Skirting is worn out and too short	Replace skirting
	Liner inserts are worn out	Replace liners
	Skirting is not set to the proper height off the belt	Set skirting to the proper height
Excessive dust is coming out of the end of the skirting	Internal dust curtains are missing	Install new dust curtains
	Material is impacting belt too severely in the load area	Install a Brelko belt support system
		Consider a complete Brelko Chute System

All technical and dimensional information is subject to change. All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.

9. EU Declaration of Conformity

according to 2006/42/EC, appendix IIB for incorporation of partly completed machinery

We, Brelko Conveyor Products (PTY) Ltd

of, 44 Chambers Street, Reuven Extension 1, Booysens, Johannesburg, South Africa

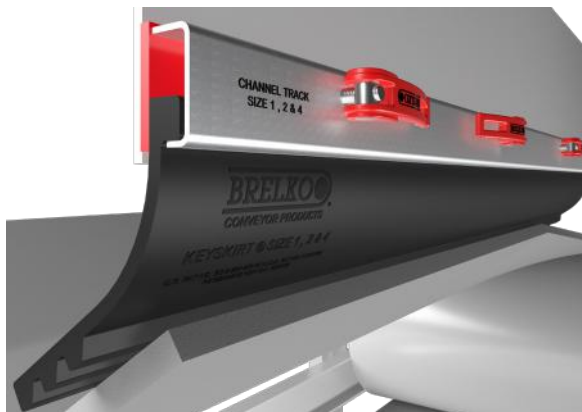
Declare that the declaration of Conformity is issued under our sole responsibility and belongs to the following product range:

Model Number(s) : 9-A.B-C-D

Type : Keyskirt® Fire Retardant & Anti-static Chute Sealing Systems

Part Number : See shipping documents (example: 9-2.4-2)

Machinery of the declaration:



KEYSKIRT® - SIZE 1,2 & 4



KEYSKIRT® - SIZE 3

Complies with the applicable Essential Health and Safety Regulations (EHSR) of the:-

- 2006/42/EC - Machinery and its amending directive; and additional EU regulation,
- 2014/34/EU - Manufacturer ATEX and its amending directive

Directive 2014/34/EU - Specific marking of explosion protection



The following harmonised standards has been applied:

- | | | |
|---|---|--|
| BS EN IEC 60079-00:2018 Explosive atmospheres | - | Part 01: Machinery
General requirements; |
| BS EN ISO 80079-36:2016 Explosive atmospheres | - | Part 36: Non-electrical Machinery for explosive atmospheres
Basic method and requirements |
| BS EN ISO 80079-37:2016 Explosive atmospheres | - | Part 37: Non-electrical Machinery for explosive atmospheres
Non-electrical type of protection constructional safety "c" |

The above listed products are also produced under an integrated management system compliant with the international standards:

- ISO 9001:2015 - Quality Management System
- ISO 14001:2015 - Environmental Management System; and,
- ISO 45001:2018 - Occupational Health and Safety Management System.

This partly completed machinery must not be put into operation until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive 2006/42/EG, where appropriate.

This declaration is invalidated by any modification outside the scope of those intended by the manufacturer.



All technical and dimensional information is subject to change.
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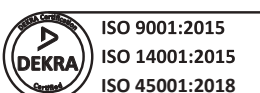
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