Installation Instructions: K-Snap-Loc® Dust Seal System

Kinder Australia product:	K-Snap-Loc® Dust Seal System
Product category:	Conveyor Skirting and Sealing
Issue date:	05.09.17
Revision:	1

Overview:

The K-Snap-Loc® Dust Seal System is an effective and energy efficient dust seal solution that prevents spillage by self-adjusting to all troughed belt conveyor systems.

Procedure:

1. **Notes before starting:**
    a. The K-Snap-Loc® Dust Seal System is not designed to contain the full burden load on the belt. For containment of the full burden load, see our K-Containment Seal brochure.
    b. It is recommended that approximately ⅙ of the total belt width extends beyond the outside of the chute wall from a minimum of 100mm. This is to remove any risks associated with belt mis-tracking once the K-Snap-Loc® Dust Seal System is installed.
    c. Short and/or fast belts with parallel skirting setups may cause the skirting to overheat and melt onto the belt resulting in drive stall.
    d. Use of the Kinder supplied unistrut channel is recommended, as use of a square unistrut channel due to increased stiffness makes it harder for installation of the skirting.
2. Run the conveyor until all the material is removed.

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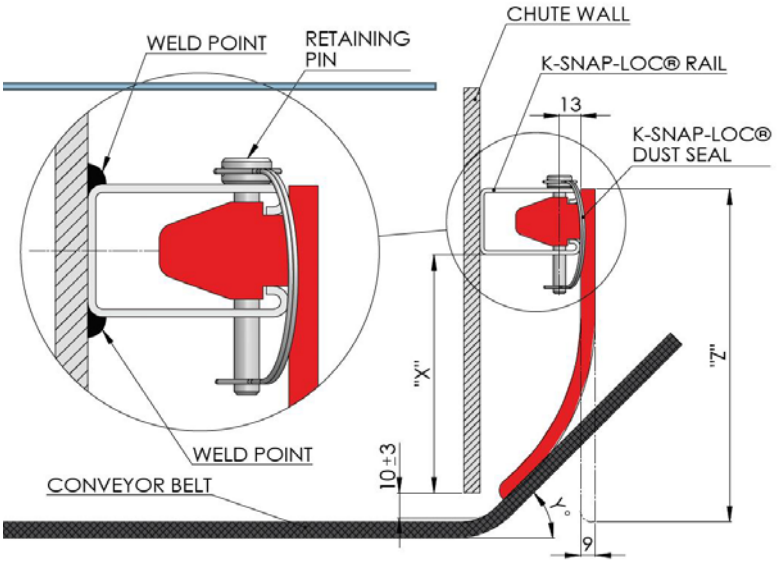
3. Isolate, lock and danger tag the conveyor at the main positive isolator in accordance with the appropriate health and safety regulations in force at your site to prevent unauthorized starting.

4. Check the structure for where the unistrut channel is to be installed and remove structure if necessary and safe to do so. For best product results, a continuous channel is recommended where possible.

5. At one end of the chute wall, measure length 'X' (see Table 1) from the belt and mark the chute wall. Repeat this step at the other end of the chute wall. Draw a line parallel to the belt surface between the marked points on the chute wall. This line marks where the bottom of the unistrut channel is to be located.



	Reference 'X' Dimension		
K-Snap-Loc® Size ('Z')	**'Y' = 20°**	**'Y' = 35°**	**'Y' = 45°**
127mm (5")	68mm	75mm	79mm
150mm (6")	92mm	95mm	98mm
230mm (9")	157mm	159mm	164mm
355mm (14")	294mm	297mm	302mm

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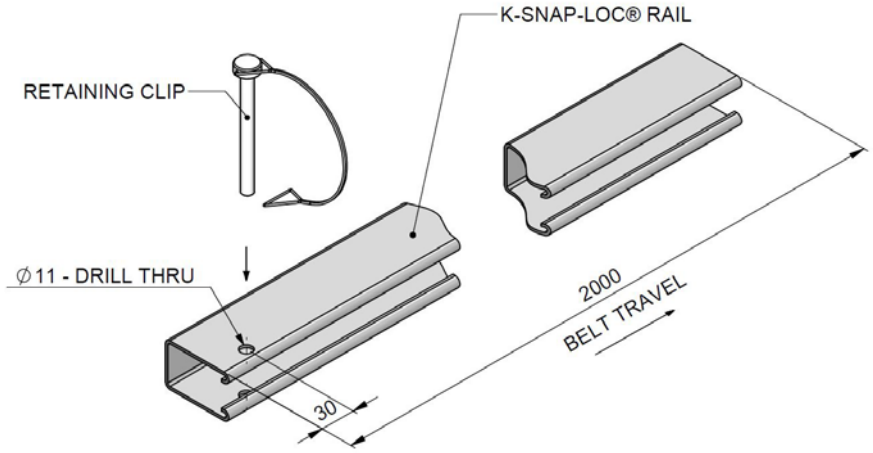
6. Clamp the unistrut channel to the chute wall in the required location lining the bottom of it up with the previously marked line. Place 50mm stitch welds every 400mm along the top and bottom of the unistrut channel. Continue this process for the full skirted chute length.

7. Lay the K-Snap-Loc® Dust Seal on the belt so the urethane bulb is facing up. Then start at the tail end of the conveyor and snap fit the bulb into the unistrut channel using a rubber mallet if necessary. If you experience excessive tightness in the fit, spray some soapy water on the bulb before snapping into place.
NOTE: When properly installed there should be a depth of 40-80mm of K-Snap-Loc® Dust Seal in contact with the conveyor belt when properly installed.

8. Mark the unistrut channel 30mm from the tail end and 16mm deep from the edge (see below). Drill a Ø6mm pilot hole through both sides of the unistrut channel and the K-Snap-Loc® Dust Seal bulb. Then open the hole out to Ø11mm. Insert the retaining pin through the hole and fasten with the spring catch.
NOTE: For reversing conveyors, pins are required at each end.



9. Test run the conveyor. Check for smooth running of the K-Snap-Loc® Dust Seal on the belt top cover.

10. Inspection should be included in the normal inspection schedule. The K-Snap-Loc® Dust Seal may stretch over time. If this occurs simply cut the excess length that hangs past the head end of the unistrut channel. For reversing conveyors, the K-Snap-Loc® Dust Seal may become “bunched up” or warped due to stretch in both directions, but also being fixed at each end. This may allow gaps in the seal. When necessary, remove the head end retaining pin and pull the K-Snap-Loc® Dust Seal so the warping of the seal no longer exists. Then remove the excess length, redrill the head end retaining pin hole through the urethane and replace the retaining pin.

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