

CASE
STUDY

SNAP-LOC™
DUST SEAL SYSTEM

PRODUCT:	Snap-Loc™ Dust Seal Skirting System
PRODUCT CATEGORY:	Conveyor Skirting & Sealing
LOCATION:	North-West, Western Australia
CONVEYED MATERIALS:	Salt
CONVEYOR WIDTH:	41.25" (1050mm)
CONVEYOR SPEED:	630 ft/min (3.2 m/s)
INSTALLATION DATE:	March 2014

PROBLEM DESCRIPTION:

Our customer is a market leader in the supply of bulk solar salt, based in the north west region of Western Australia. The salt is a wet material when harvested, with relatively small particles of less than .16" (4mm). When conveyed, the salt has a tendency to hang up in the chutes, skirts and screens. As the salt is highly corrosive, it causes problems for regular mild steel materials handling components.

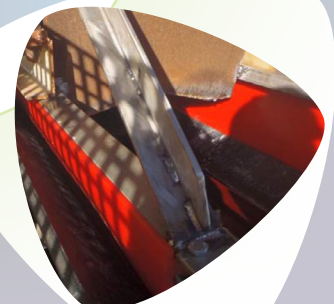


Above and below: Images of previous transfer chute set up.



The customer was experiencing a significant **spillage problem** around the transfer point area. Here the challenge was to contain the low mass salt particles effectively and stop them from bouncing off the belt. Due to salt causing hang up, fitting any type of skirting around the chute had not been successful previously.

Not only was there wasted product, but the steel structure of the transfer point was quickly being affected by an increasing amount of corrosion caused by the salt. To maintain this area, it needed to be washed down frequently, creating **additional labor costs**.



RESOLUTION:

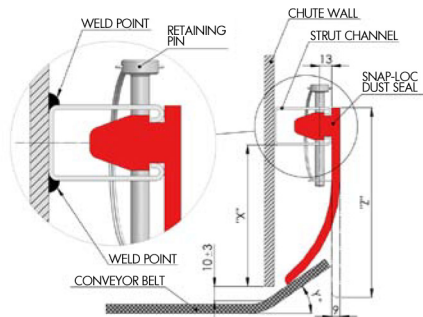
SNAP-LOC DUST SEAL

KEY FEATURES:

- Prevents spillage
- Easy “snap on” installation method
- Lightweight, requiring less labor to install and replace in the future
- Self-adjusting qualities of the polyurethane “memory set” means no need for manual adjustment
- 60% less drag on the conveyor
- Field tested with 8 to 10 times the wear life over quality rubber
- Suitable for all belt widths and trough angles
- Available in fire retardant and flame resistant, anti-static (FRAS) formulations

After consultation with our Australian distributor, the Snap-Loc Dust Seal was selected as a better dust suppression solution. Snap-Loc is made from high quality engineered polyurethane, making it very **lightweight** and **easy to install**, requiring **minimal labor**. Also, because it is highly durable and resistant to corrosion, it will **last longer** once in place, requiring less replacement skirting in the future. This will achieve significant cost savings and reduce scheduled maintenance shutdowns.

The customer has confirmed that the Snap-Loc Dust Seal System was very easy to install: *“only required measuring and some welding of the stainless unistrut and did not require knocking down of skirts and adjustment. Kinder & Co. provided lots of assistance in getting quotes, drawing, supplying offcuts of material from the warehouse and working with us to get our requirements right (stainless steel unistrut instead of the standard mild steel in stock).”*



Above: Installation drawing for Snap-Loc Dust Seal, showing weld point and retaining pin.

Below: Close-up image of conveyor chute and Snap-Loc after installation.

