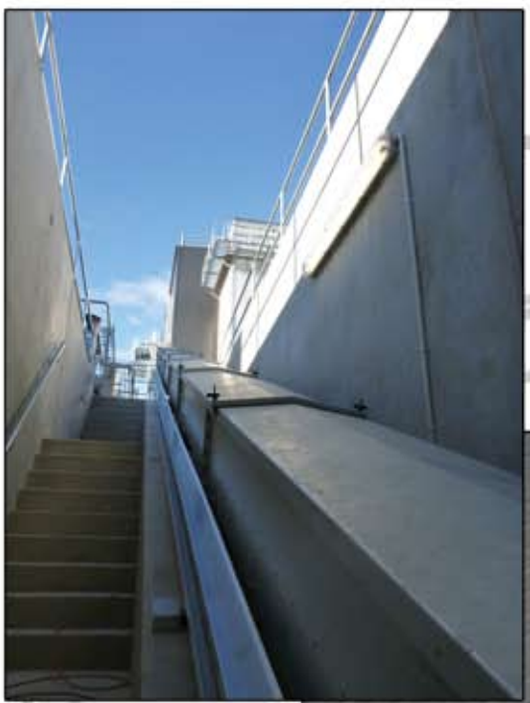
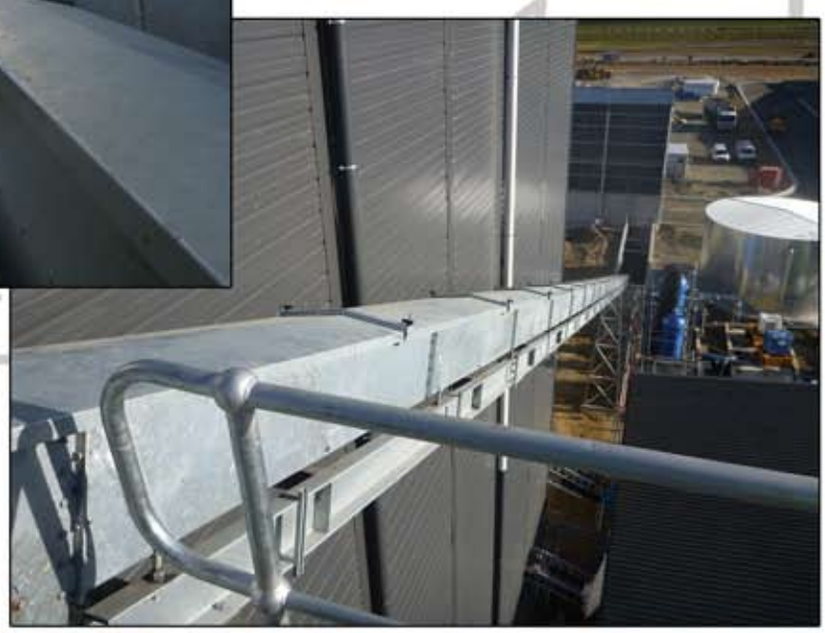
Customer: RCR Easteel Energy
Location: Christchurch, New Zealand (Two Sites)
Product: Coal
Date: March 2008 / June 2012

Requirements:

RCR Easteel Energy design and manufacture coal processing systems, and had a requirement for a conveyor to carry coal into a boiler. The energy created was used to produce powdered milk for export to countries all around the world. Aerobelt Australia were asked to design a suitable conveyor for this application and had to:

- Traverse an existing road.
- Have a sufficient angle of inclination to reach the top of the boiler.
- Convey wet and dry coal without spillage.





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Technical Information

Conveyors:	2
Belt width:	300 / 400mm
Length:	55 / 69m
Inclination:	To 20°
Capacity:	28 / 60 tph
Belt speed:	2.0 / 2.75 m/s
Drive Power:	5.5 / 11 kW
Fan Power:	0.75 kW / 2.2 kW
Prod. Density:	0.8 t/m^3

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Solution:

Aerobelt designed a 300mm conveyor that had the ability to span large distances enabling the conveyor to be loaded underground yet have an angle of inclination to reach the height of the boiler feed point. This then allowed vehicles to pass underneath.

The original conveyor design tonnage was 28 tph, and RCR Easteel Energy purchased a repeat of the same design but increased the tonnage to 60 tph in early 2012.

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