



**Customer:** Brightwater Engineering  
**Location:** Glenevy, New Zealand  
**Product:** Coal  
**Date:** 2013  
**Page:** 1 of 2

### Requirements:

The coal elevating conveyor was required to be an air supported belt conveyor, and had to be able to transport the coal from coal reception to the top of the day hopper.

The conveyor was designed to handle wet, sticky and fine coal without blocking or de-rating the design tonnage.



### Technical Information

Conveyors:	1
Belt width:	400mm
Length:	71m
Inclination:	18°
Capacity:	60 tph
Belt speed:	2.7 m/s
Drive Power:	11 kW
Fan Power:	1.1 kW
Prod. Density:	0.6/0.8 t/m <sup>3</sup>

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### **Solution:**

- The Aerobelt conveyor was supplied including supporting steelwork and included the trestles.
- The conveyor was fed from a reclaim screw conveyor that was located underneath the coal reception area.
- An adjustable tramp metal magnet was incorporated into the design and was there to catch any metal that may come in with the coal.
- A special stainless steel trough was made to cater for this feature and was located in the area just above ground level.



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