

**Customer:** Iluka Resources Ltd.  
**Location:** Dongara, Western Australia  
**Product:** Lime  
**Date of installation:** March 1997

### Requirements:

The customer (formerly Westralian Sands) constructed a processing plant to convert local sand to quicklime. The plant was constructed adjacent to the Northern Railway Line, and sand had to be conveyed across the line from the digging area to the day bin. The conveyor had to:

- ensure that no material could fall on to trains underneath and,
- because of railway constraints, be in one span of 39 metres in length.

### Solution:

A fully enclosed Aerobelt conveyor provided the necessary security for the railway. Aerobelt Australia designed and manufactured the conveyors as well as the supporting steelwork. The light weight of the Aerobelt conveyor made it possible to use a light truss section and in fact the design strength was mainly required to carry the walkway and its live load.



### Technical information:

No. of conveyors:	2
Product:	Sand
Belt width:	650 mm
Length:	86.44/32.84 m
Inclination:	14.75/15.58°
Capacity:	210 TPH
Belt speed:	1.46 m/s
Drive power:	22/11 KW
Fan power:	5.5/5.5KW
Product density:	1.6 t/m <sup>3</sup>



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