

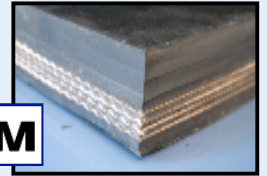
APPLIED CONVEYOR AND POLYMERS LTD

Quality That Goes Around



Holcim BC14

APEX QuarryMaster M



History: After extensive geological and planning work, Milburn Aggregates were granted Resource consent in 1993, and commissioned a new plant to be built 50 km south of Auckland at the top of the Bombay Hills. The new plant was fully operational in 1998. Applied Conveyor was not involved in the initial contract for supply of conveyor belt as we did not open our doors until October 1998. We were invited to the site early in 2002 to evaluate some structural changes to the plant. Applied Conveyor had worked with the manager on conveyor issues at previous quarries. Applied Conveyor has a reputation for reliable service and *Apex Fenner* belt has a proven reputation for superior quality, confirmed by other Milburn plants using *Apex Fenner* belt with good results.



Situation: The original belt supplied for BC 14 was 1200mm wide 4ply PN150 8x2 'N' of either Korean or Taiwanese manufacture. The conveyor belt carried -150mm Basalt rock, the life of this belt was approximately 12months. We initially replaced this belt in May 2002 when it had about 2-3months life left. The purpose of this was to put this old belt onto BC39 which was at the end of its life and would need to be changed out as well. BC39 carries -22mm stone and the belt would last another 12-18 months. Offsetting the purchase of a new belt for BC39 and saved \$19,620.00. The belt has now lasted 43months. In addition to this when BC39 requires a new belt a design check has shown the belt spec can change and a further \$5000.00 saving can be made. Meanwhile we replaced BC14 with an *Apex Fenner Quarrymaster II 630/4 8x2*. This belt lasted 18months; the saving by using quality belt is listed below. We installed a second belt on BC14 which also lasted 18months. However because this belt is prone to damage that can not be completely engineered out, we have trialed a heavier belt that should handle this application and offer even further savings. Not shown in the figures below are the benefits of reduced downtime and the savings on the reduced number of repairs to the belt.

Belt	Supplier	Length	Price per/m	Life months	Effective price per/m	Belt price for 24 months	Splice cost for 24 months	Total cost
4P PN150 8x2	Korean/ Taiwanese	108	\$127.00	12	\$216.00	\$23328.00	\$2400.00	\$25728.00
QMII PN630/4 8x2	APEX FENNER	108	\$142.00	18	\$189.00	\$20412.00	\$1200.00	\$21612.00
ROCKMASTER PN800/4 10x3	APEX FENNER	108	\$261.00					



Applied Conveyor and Polymers Ltd
21 Holmes Road, Manurewa, Auckland. P.O.Box 38-332, Howick, Auckland, New Zealand.
Phone: +64-(9)-267-6070 Fax: +64-(9)-267-6080

