

ELASTOTEC CERAMIC WEAR PANELS – CASE STUDY QUARRY – SCREEN UNDERPAN CHUTE



BACKGROUND:

This quarry located in the south-eastern region of New South Wales is a hard rock quarry that can produce up to 1.5 million tonnes per annum of quarry products (ballast, aggregate, manufactured sand and road base). The majority of production from the site is used for construction projects in concrete and road building. The quarry has been operating at this site since 1959.

Magnefast panels were chosen for the section of the underpan that saw sliding abrasion and steel liners were used in the chute areas that were subject to higher levels of impact. In a sliding abrasion application the ceramic liners are expected to provide longer service life than steel liners. For this installation 120 of the 150 x 100 x 25mm Magnefast ceramic liners were used. Each liner was held in place by two high strength magnets giving a combined holding force of around 110kg per liner – 13,200kg holding force for the full ceramic chute lining.



APPLICATION:

Following a presentation to site maintenance personnel on the Magnefast Wear Panel System, a new screen underpan chute was selected for an initial installation. Ceramic

Installation of the 120 Magnefast liners in the chute took 15 minutes. Removal time is estimated at less than 30 minutes.

Estimates of the time required to install ceramic tiles in this chute using direct bond ceramic tiles range from eight hours for the install and grouting with an additional eight hours for removal of this type of ceramic lining.



Contact Elastotec for further information on these products or to enquire about our full product range:

David Molesworth


WEAR PANEL SOLUTIONS
SALES DIRECTOR


Mobile +61 423 200 178
david@elastotec.com.au


Paul Duthy

WEAR PANEL SOLUTIONS
ENGINEERING MANAGER

Mobile +61 499 857 074
paul@elastotec.com.au

 Phone +61 2 8987 1922

 1/61 Somersby Falls Rd
Somersby NSW 2050
Australia

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