

Vulcabrix® ZTA Ceramic Liners

Location	South West Region, WA
Platform	Flash Float Floor
Conditions	Gold and Copper Ore Processing
Solution	Vulcabrix ZTA Ceramic Liners

Situation

Our customer, a large gold and copper mine, runs a wet plant for the processing of its ore.

Previously, a competitor has provided wear liners for a Flash Float Floor manufactured with 92% Alumina ceramic tiles. These wear liners had a service life of approximately 26 weeks, or two shut cycles.

The customer approached Bradken for a solution to extend the service life of the liners.

Solution

Bradken was familiar with the customer's operational plant and processing environment and was therefore able to recommend and supply new liners which suited the harsh environment, they utilised their locally manufactured Vulcabrix ZTA (Zirconia Toughened Alumina) ceramic tiles.

Vulcabrix ZTA ceramics are a proven solution where increased service life is required in extreme abrasion and increased impact wear environments.

Results

The Vulcabrix ZTA ceramic liners have been installed in the Flash Float Floor for 50 weeks and have more than 50% of their initial service life remaining.

These preliminary results estimate the service life of the Vulcabrix ZTA ceramic liners to be 100 weeks, or an increase of 285% in service life compared to the 92% Alumina ceramic liners, enough to last at least 7 shut cycles.

Overall the installation of the Vulcabrix ZTA ceramic liners has resulted in the following benefits for the customer:

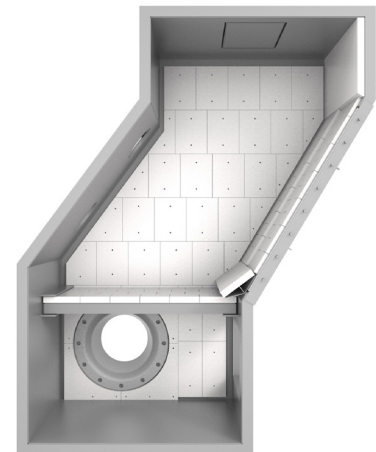
- Improved Safety – Reduced frequency of conducting confined space and EWP work
- Reduced Maintenance – Increased wear life leads to less relines and maintenance work needing to be conducted on-site,
- Cost Savings – Less liners required therefore, presenting a cost saving to the customer.

Results Summary

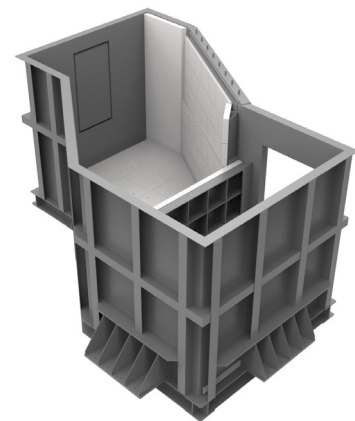
- 285% increase in service life (26 weeks to 100 weeks)
- Liners are estimated to last 7 shut cycles, after initially lasting only 2, increasing up-time and availability



Vulcabrix® ZTA Liners



Location of Vulcabrix® ZTA Liners



Flash Float Floor



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Our Innovation. Your Advantage.

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