

Wall Control Chile

Site Profile

This mine is located in Chile. The operation required optimisation in their wall quality. This was in terms of the damage induced to the wall; compliance to wall design; and improved equipment performance.



The Situation

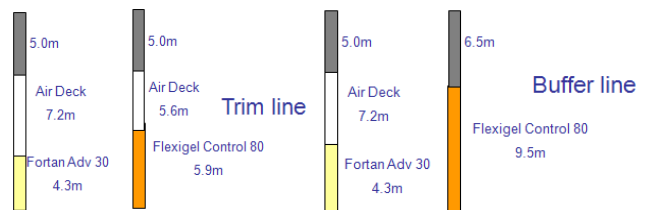
Orica's Technical Team combined with the Drill and blast department, identified solutions to improve wall quality and reduce blast induced damage.



Technical Solutions

A R2S Wall Control engineering service was implemented to assess and optimise the design of the current drill and blast practices. To this end, dual tests were performed by changing the parameters of pre-split lines and buffer designs with the objective of comparing the results in terms of vibration, P80, top

size, design and induced damage compliance. The combination of i-kon™ electronic initiators; low energy explosives product (Flexigel™ Control 80) and continuous Senatel™ Powersplit™ packaged products for pre-split enabled the improvement of the blast design.



The Result

With the use of Orica products in conjunction with technical support and advanced modelling, the following results were achieved:

- Reduced impact on the walls; 27% reduction of vibration level.
- 11% increase of P80.
- 20% reduction of Top Size.



Figure 2: Associate controls for the Wall Control service.

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Chile

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