

‘Hardox’ Impact Panels

Region: Australia

Technology Groups: Product groups used

Companies: Multotec companies & representatives responsible

- **Multotec assisted Pilbara-based iron ore miners in improving service life on solid impact panels on screen decks.**

Background:

Wet scrubbing plants discharge slurry from iron ore scrubbers onto scalper screen top decks with up to 3 m discharge height via a chute. They have a particle size of up to 300 mm.

Service life using solid rubber panels is typically 2-4 weeks.

Multotec’s solution:

Multotec developed solid impact panels with forged plate inserts, creating a composite panel with sufficient impact resistance and energy absorption to allow a service life improvement of 12-14 weeks with panels up to 100 mm thickness.

Key Project Outcomes

- ◆ 4x longer screen life
- ◆ Increased MTBF
- ◆ Reduced maintenance-related downtime
- ◆ Greater plant availability
- ◆ Reduced consumables spending

Panels per screen	Cost per screen	Change out per year	Number of screens	Total yearly
36	\$7 200	14	3	\$302 400
36	\$9 000	4	3	\$108 000
			Parts Savings	\$194 400

Cost per shutdown	Reduction in no. of shutdowns	Number of screens	Total yearly
\$5 000	10	3	\$150 000
		Labour savings	\$150 000
		Total Savings	\$344 400