

FOUR TIMES THE LINER LIFE WITH IMPROVED OVERLAY PLATE

Location:	Western Australia	Mine Type:	Iron Ore Mine
Machine:	Scrubber Discharge Chute	Product:	SPOT60 Wear Plate



SPOT 60 OVERLAY LINERS AFTER 2 WEEKS – NO WEAR



COMPETING PLATE AFTER 2 WEEKS – 4MM OF WEAR

At an iron ore mine located in Western Australia, the customer had an ongoing issue with high wear rates in their scrubber discharge chutes. During each shutdown in a 12 week shutdown cycle, the existing 20mm alloy-chromium carbide overlay plate supplied by a competitor was found to be completely worn through, resulting in damage to the exposed parent metal of the chute.

It was recommended improving the material selection by replacing the existing overlay plate with SPOT60 overlay liners, which are composed of one of the highest wear resistance materials produced in the world today.

The result was a remarkable improvement in wear rates:

- The SPOT60 overlay liners exceeded the life of the competitor’s plate with only 2.5mm wear on the leading edge after 12 weeks,
- The plant extended maintenance shutdowns to every 38 weeks, instead of 12 weeks.
- Significant reduction in the exposure to health and safety risks due to the reduced frequency of repairs.
- The hire of a 250 to 300 tonne crane every 12 weeks is now required once every 48 weeks.
- The client estimates a saving of \$600,000 in combined labour and crane hire, with the relief on maintenance resources alone expected to be around 300 hours per annum.