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CASE STUDY:

PROVEN PERFORMANCE LEADS TO MAGNEFAST™ SELECTION FOR CG12

After experiencing longer liner life and faster changeouts with Magnefast™, maintenance personnel selected the system for the CG12 chute. The installation replaces studded rubber liners that required replacement every six months, extending a maintenance approach already delivering measurable benefits elsewhere on site.

LOCATION:	West Tasmania
YEAR:	2026
APPLIC.:	CG12 Chute
SOLUTION:	Magnefast™ ZTA
MATERIAL:	Polymetallic Ore

ISSUES ON SITE :

The CG12 chute's studded rubber liners required replacement every six months, creating a recurring demand for maintenance time and labour. Each changeout required resources that could otherwise be directed towards other plant maintenance priorities.

The site team identified an opportunity to reduce this maintenance burden by moving to a wear liner system capable of longer service life and a simpler changeout process. The objective was to reduce both the frequency and duration of liner maintenance, while supporting greater plant availability and production performance.

Figure 1. CG12 rubber floor liners show wear and damage after six months in service.

Figure 2. Wear-related holes in the CG12 chute steelwork, visible with the liners removed.

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THE SOLUTION

Magnefast™ ceramic wear liners were selected to replace the existing studded rubber liners in the CG12 chute, addressing both liner service life and the efficiency of future changeouts. The ceramic wear surface was selected to provide improved wear performance, while the magnetic attachment system eliminates the need for traditional studs, simplifying liner removal and replacement.

The CG12 chute was identified as a suitable application based on the maintenance team's firsthand experience with Magnefast™ in similar chutes. Having already seen improvements in liner life, maintenance time and labour requirements in other applications, the team saw an opportunity to bring the same benefits to CG12.

Figure 3. Reskinning work underway to prepare the CG12 chute for Magnefast™ ceramic wear liners.

Figure 4. Magnefast™ ceramic wear liners installed on the CG12 chute floor and side wall.

TURNING MAINTENANCE EXPERIENCE INTO FURTHER IMPROVEMENTS

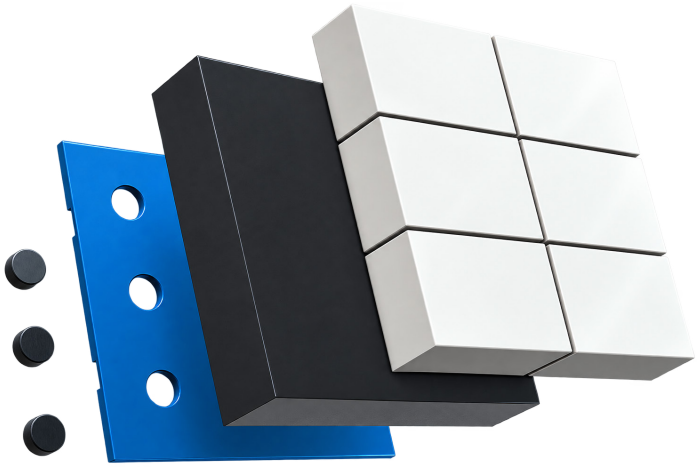
Experience with Magnefast™ in existing applications is helping guide wear liner decisions across the plant. During planned shutdowns, maintenance personnel identify other areas where improvements in service life, changeout time, and labour could be achieved.

Rather than assessing wear liners on initial purchase price alone, the team considers the broader maintenance impact over the life of the liner, including how long it remains in service, how frequently it needs to be replaced and the resources required to complete each changeout.

The CG12 chute reflects this whole-of-life approach. With Magnefast™ already delivering more than three times the service life in similar applications and reducing comparable changeouts from three days with four people to approximately three hours with two, the team had firsthand evidence to support its use in CG12.

These proven results are helping identify further opportunities to reduce maintenance requirements and support greater plant availability.

- **MORE THAN 3×** Wear liner service life
- **3 DAYS -> 3 HOURS** Liner changeout duration
- **50% REDUCTION** Labour requirement



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