

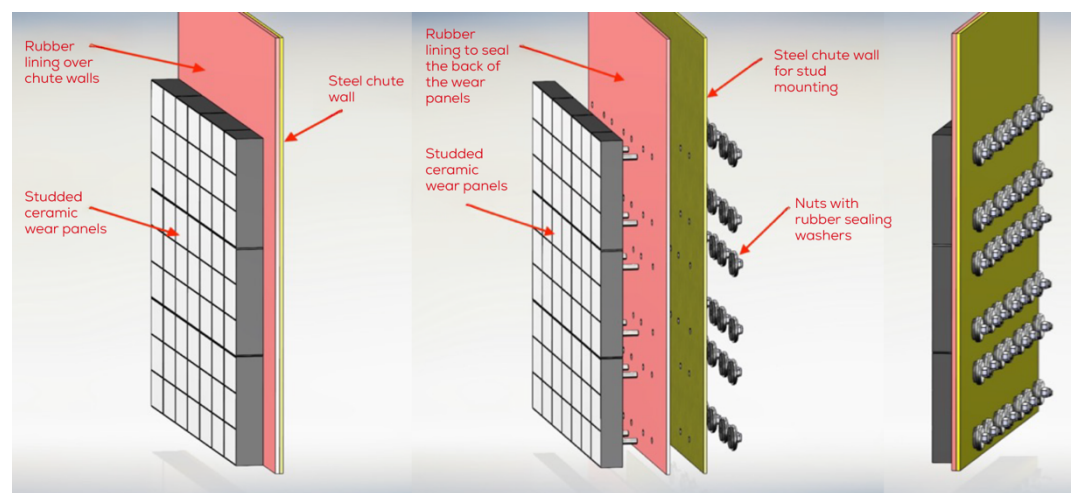
Technical Bulletin – Magnefast™ Wear Liners in Slurry Boxes & Wet Chutes

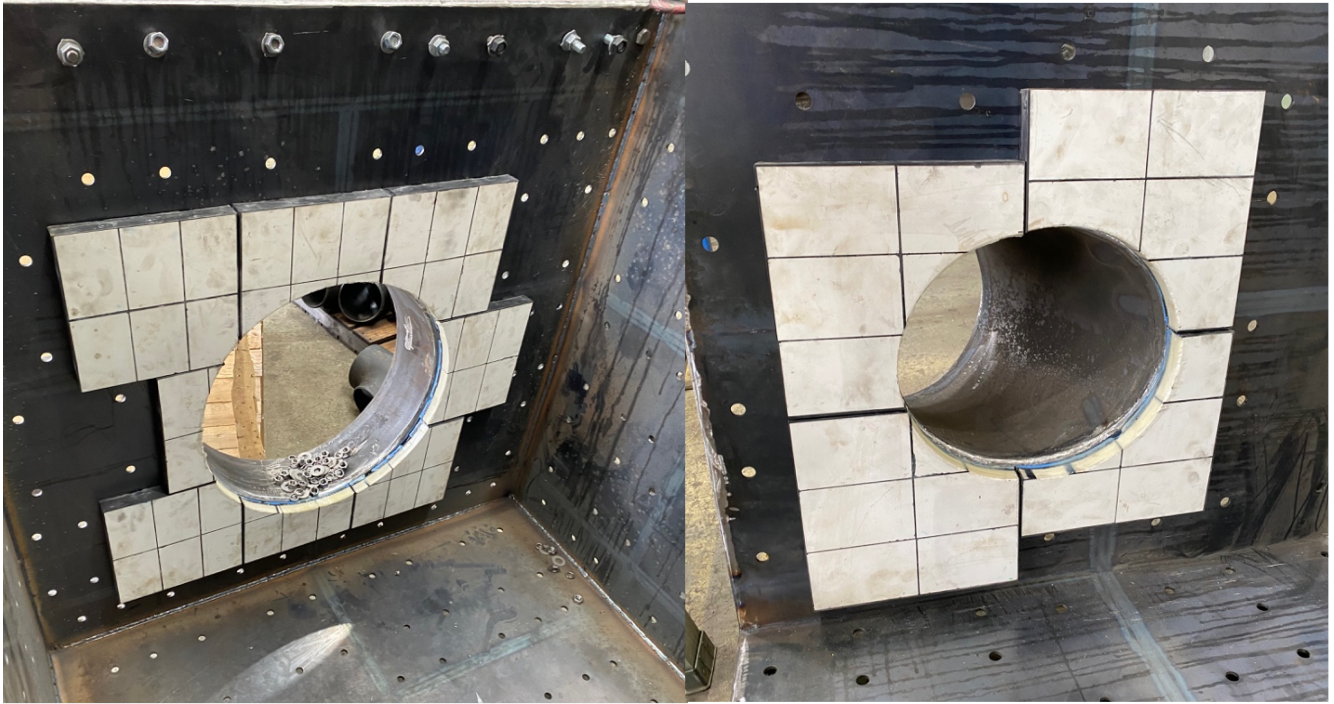


Traditional lining systems for slurry boxes used in mineral processing where abrasion is significant issue are based on studded wear liners that require holes in the chute wall for fixing. The holes necessitate a method of sealing to prevent leakage of the slurry during operation and this is accomplished by rubber lining the internal chute walls and then using nuts and enclosed rubber sealing washers on the outside of the chute. This often leads to leakage, corrosion and damage to surrounding equipment with the studs/nuts becoming difficult to remove.

The below drawings show the traditional layout for studded liners in slurry boxes.

TRADITIONAL SLURRY BOX WEAR LINER ARRANGEMENT





Studded Wear Liners

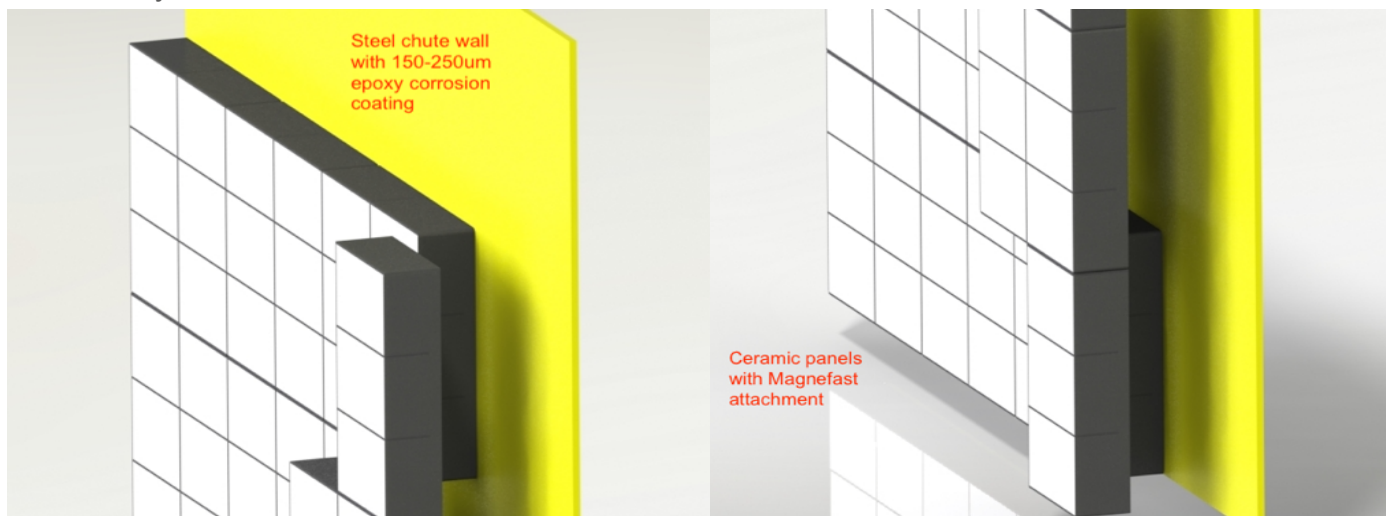


Leakage from studded wet plant causes corrosion, damage and risk

MAGNEFAST™ WEAR LINERS IN SLURRY BOXES AND WET CHUTES

NEW PLANT

With the availability of Magnefast™ Wear Liners with single sided attachment the design of slurry boxes has been simplified, and the time required to remove and replace wear liners can be greatly reduced. The holes in the chute walls that are required for the attachment of studded wear liners are no longer required and as a result the need to seal the holes to prevent leakage of the slurry is eliminated.



Slurry boxes can have a simple design in the required shape and the only holes required are those for the attachment of piping to handle the slurry flow – the drawings above show the arrangement for a slurry box design with Magnefast™ wear liners.



Slurry Box with Magnefast™ Liners

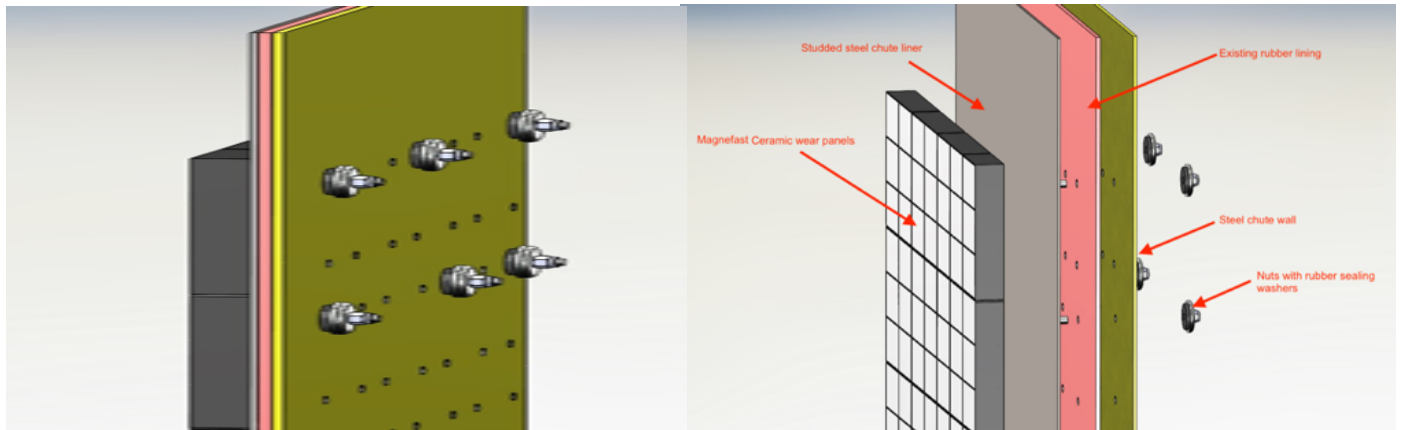
Wet Chute with Magnefast™ Liners

EXISTING PLANT - REWORK

It is also possible to retrofit existing slurry boxes that have been fabricated to suit studded liners so that the advantages of the Magnefast™ wear liners can be utilised. The retrofit is achieved by fitting an 8 mm steel plate to the inside of the slurry box – this steel liner can be held in place in either of two ways:

1. Using 8 mm steel skins with studs and the existing mounting holes with nuts and enclosed rubber washers.
2. Removing the existing rubber lining and welding a new 8 mm steel skin in place. Once the skin is in place, an epoxy corrosion protection coating up to 250 um thickness is applied prior to installing the Magnefast™ wear panels.

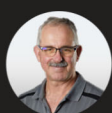
With the new 8 mm steel skin in place it is a simple job to install the Magnefast™ wear liner kit – the drawings below show the retrofit arrangement.



ADVANTAGES OF USING MAGNEFAST™ WEAR LINERS FOR SLURRY BOXES, LAUNDERS AND WET CHUTES

- Simplify wet plant manufacture – no holes and no rubber lining required.
- Eliminate slurry leakage.
- Eliminate corrosion and difficult removal of nuts and studs.
- Up to 80% reduction in wear liner replacement time.
- Typically requires < 50% of the labour.
- No scaffolding or access required for the outside of the wet plant.
- Reduced OH & S risk as no power tools or hot work required to change wear liners.

DO NOT USE MAGNEFAST™ IN SLURRY BOX APPLICATIONS WHERE MAGNETITE HAS BEEN ADDED TO THE SLURRY AS THIS WILL BUILD UP ON THE MAGNETS AND MAY DISLODGE THE PANEL

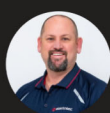


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