



Flexible Lining Systems



Welcome to our world.

With over 100 years of polymer knowledge and application experience Trelleborg is a market leader in developing specialty rubber compounds for use in the most arduous applications.



A self energised solution.

Trelleborg Engineered Products has developed a Flexible Lining System to allow a free flow of product in high capacity applications and overcome build up problems.

The simple to install system uses self energised rubber to keep wet sticky materials travelling through chutes and simplifies the replacement of worn panels during maintenance. A clearer chute means improved efficiencies to directly improve your bottom line.

For Product Process Building

- Australian made and designed
- Self energised rubber wall
- Easy installation
- Reduced maintenance and downtime
- OH&S compliant
- Selection of both rubber & composite installation types available
- Detailed installation drawings provided
- AU Patent: 2008100415
- USA Patent: US7,938244B2

Modular System

FLS was conceived as a modular system with simplified installation to assist throughout the life of the chute and in particular for future re lines.

By only replacing the liners that are worn and with a choice of simple fixing methods (no bonding, welding or hot cutting required), long and costly re line times are a thing of the past.

New Chute Design

- Fully detailed shop drawings supplied with delivery
- Our lining design is able to be utilised within existing fixing systems
- FLS can be supplied as long as 2 meters. Stock lengths of 1500mm available

New Chutes

The modular nature of the system reduces manufacturing time and costs to ensure tight delivery schedules can be maintained.

Existing Chutes

The Flexible Lining Systems is superior for retrofitting into your existing chutes to replace your current linings.

The FLS Chute Liner

Developed with input from both operators and contractors, the Trelleborg FLS Chute Liner provides an easy install system that is flexible enough to be used across you plants chutes and material handling systems, wherever stick up is a problem.

With the backing of one of the world's largest specialist polymer businesses, you can be assured that the whole system has been engineered with the highest possible level of quality and commitment to provide the customer with a solution that will continue to payback well after all other lining systems have worn themselves out.

FLS is available with a choice of polymeric compounds and when combined with optional facing materials, offers the designer, maintenance planner and mine owners the optimal wear resistant anti-stick chute liner.

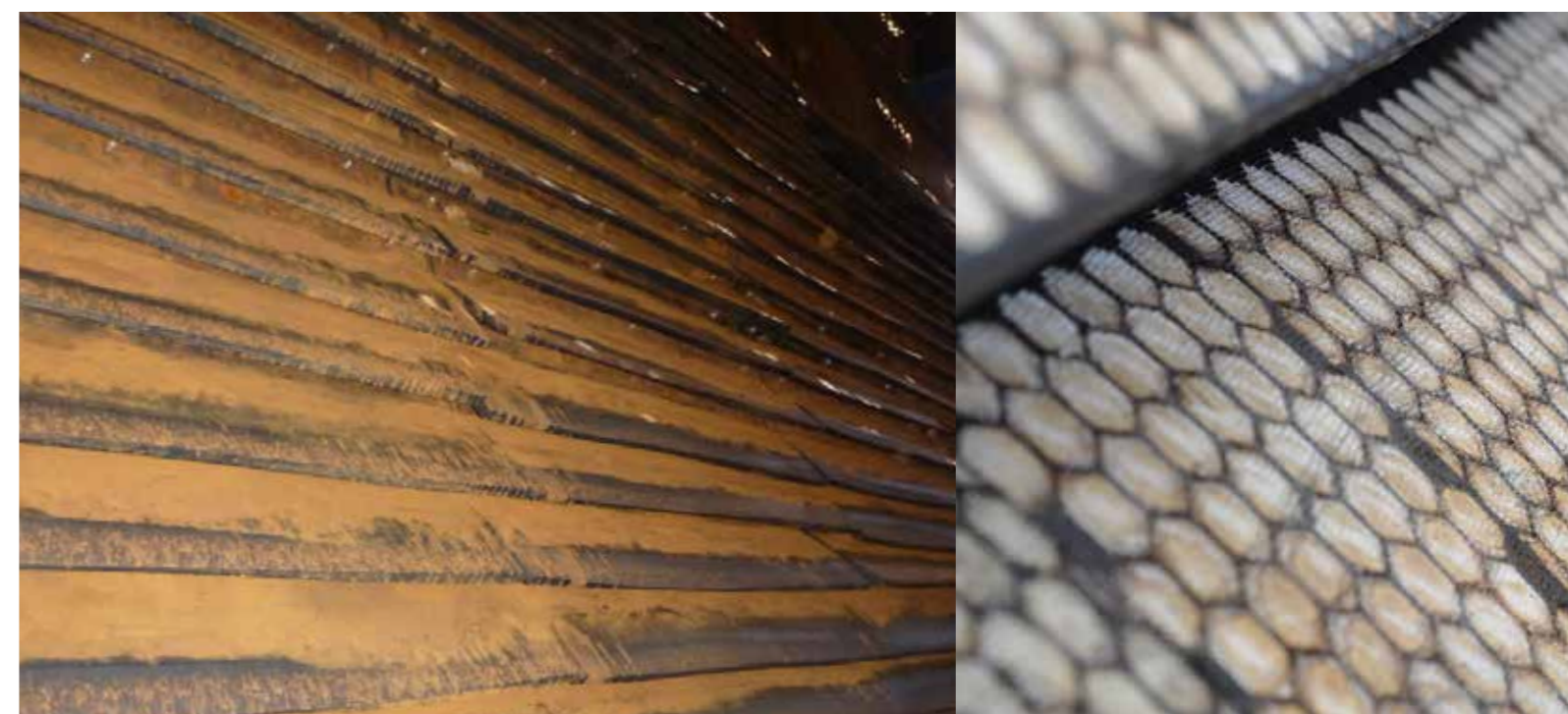
Site reference can be supplied upon request.



Typical Chute Lining Arrangement



Typical Cross Section



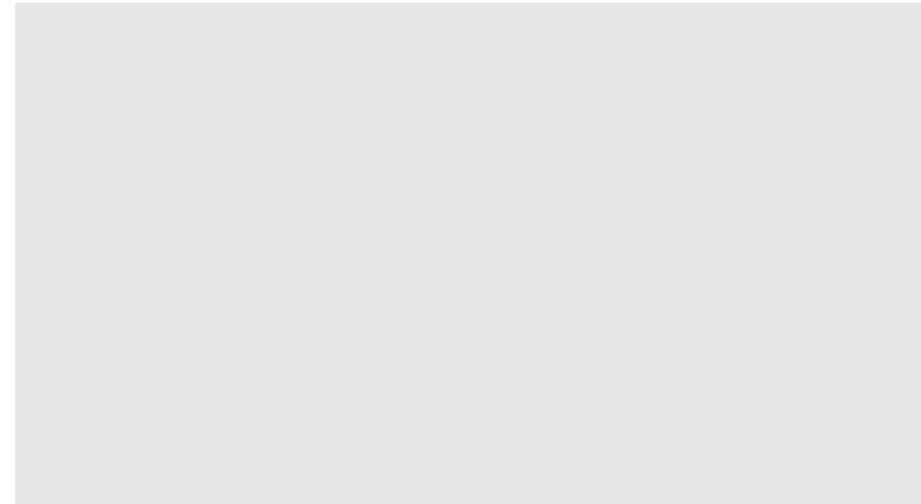
Engineering and Design Packages

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Fines Chutes – FLS Case Study

AUGUST 2014 / INITIAL INSTALLATION

As a response to the requirement for improved wear performance in the product screens fines chutes, Trelleborg redesigned the rubber FLS system and incorporated alumina ceramic molded into the rubber.

Factoring in some localised disbonding and wear and tear, these issues are only representative of approximately <10% of the surface area of installed rubber/ceramic FLS – the majority of the liners are performing very well.



OCTOBER 2014

The image to the right shows some localized wear and tear where there is no ceramic protection - the ceramics surrounding this area are performing very well and showing no signs of disbonding



MARCH 2015 / 31 WEEKS IN SERVICE

During the March 2015 shut, it is being observed that wear and tear in localised areas is occurring, some ceramic disbonding has occurred, however the majority of the FLS is still performing as designed .





Trelleborg Engineered Products is part of the Trelleborg Offshore & Construction business area of the Trelleborg Group. Trelleborg Engineered Products is a leading global developer, manufacturer and provider of engineered polymer solutions to the energy, infrastructure and mining industries. Performing in some of the harshest environments on earth, its principal products are sealing systems for tunnels, a wide range of bearings, polymer solutions for floatover technology and wear resistant products for the mining industry. With local support, a track record of over 100 years and its everyday ingenuity, customers can rely on Trelleborg Engineered Products to deliver innovative polymer solutions that significantly improve the quality, safety and efficiency of its customers' operations worldwide.

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