

Crushing and Screening Wears Trellex Wear Lining Solutions



EN

An aerial photograph of a large industrial crushing and screening plant at dusk. The central feature is a tall, cylindrical structure with vertical corrugated metal siding. To its right is another similar but taller structure. The ground is a mix of dirt and concrete, with various pieces of machinery, including a yellow wheel loader, and scaffolding visible. The sky is a deep purple and blue, and the scene is lit by artificial lights, creating strong shadows and highlights.

Keep material
flow up and
maintenance
down

A photograph of an industrial facility at night. Two large, cylindrical silos made of corrugated metal are the central focus. A long conveyor belt extends from the top of the silos across the frame towards the right. The scene is illuminated by bright, warm lights, likely from the facility itself, creating a high-contrast scene against the dark night sky. In the background, there are some trees and a rocky embankment. In the foreground, there is a dirt or gravel area with some tracks.

Wide range of wear
protection products
designed to maximize
productivity and profit



Wear lining solutions from Metso

Mining and aggregate production is tough on equipment, which can make it even tougher on budgets. Keep material flow up and maintenance time down with a range of wear protection products designed to maximize productivity and profit.

Installed in chutes, spouts, hoppers, transfer points and other applications subjected to wear, Metso wear lining products minimize wear and reduce noise while increasing service life. The wear lining system includes a wide range of products and solutions designed to best support customer needs in keeping the total cost per tonne down. Our solutions are especially developed for screens, crushers, mills, washing drums, concrete mixers etc.

To utilize the product benefits for specific areas and applications, new concepts have been developed to an offering including a comprehensive package with tools, market offer, material and support.

**Trellex
Poly Cer**



**Trellex
SQ300**



**Trellex
Wear
Elements**



**Trellex
LF**



**Lining
solutions**



Support you to profitable heights Trellex Poly-Cer

Trellex Poly-Cer is designed to be extremely resistant to abrasion even in high material flows and speeds. The unique design of ceramic inserts improves wear life and impact resistance.



Trellex Poly-Cer 10S, 20S, 38S and 70S are engineered using T60 wear rubber with built-in ceramics and enhanced with fixed hot-vulcanized steel reinforcement. Poly-Cer 4S is engineered using wear rubber with built-in ceramics hot-vulcanized together and combined with a contact layer.

Excellent wear resistance in applications with sliding wear and high material speeds, particularly where the material has only a slight impact angle.

Poly-Cer WB 100/38S is designed with built in ceramics into wear rubber at the top of the bar and at the bottom part an hot-vulcanized aluminium track for the T-bolt fastening system.

Different fixing methods alternative guarantee secure fixing. Poly-Cer also reduces noise and vibration.

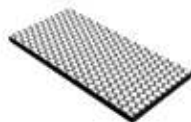
chutes, silos, transfer points and any other applications that are subject to heavy wear and noise. Poly-Cer is ideal for medium-heavy rock and gravel industry, or for secondary and lighter applications. Poly-Cer 4S is optimized for medium to light mining, rock and gravel industries with lighter applications.

Application areas

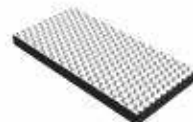
Poly-Cer provides excellent wear protection for feeders, bins, transfer



Trellex Poly-Cer 4 S 8/0



Trellex Poly-Cer 10 S 20/5



Trellex Poly-Cer 20 S 35/5



Trellex Poly-Cer 38 S 64/5



Trellex Poly-Cer 70 S 95/5



Trellex Poly-Cer WB

Fully recyclable modular system Trellex SQ300

Fully recyclable modular system for wear protection.

- Reduced noise protects workers hearing
- Modular system means lighter work
- Cutting reduces emissions
- No welding, no risk
- PAH - free eliminates cancer concerns



At last, the mining and construction industry has access to a modern environmentally friendly wear protection system which reduces impacts and improves health and safety in a variety of important ways - all without increasing costs or sacrificing operational efficiency. Trellex SQ300 provides excellent protection in many applications, keeping material flow up and maintenance time down.

Trellex SQ plates are available in three different materials: rubber, polyurethane or ceramic (not recyclable).

Application areas

Suitable for use in chutes, transfer points and other areas subject to wear.

Installation

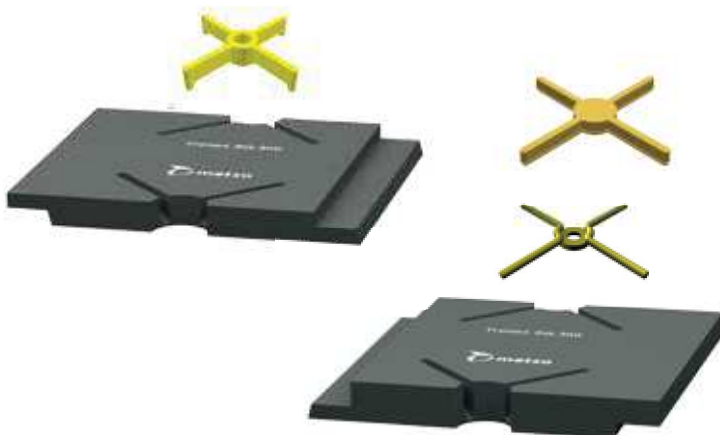
Trellex SQ has been designed for simplicity of installation and minimum

downtime by using patented fastening system. Installation manual in each box provides guidelines for easy installation. Rubber and polyurethane are easily cut with a knife or Alu-Cut machine.



Trellex SQ Box contains 66 pcs of modules, plugs, spiders.

One box cover ~6m² lining area.



Excellent wear resistance

Trellex Wear Elements

Trellex PP

Trellex PP wear plates are manufactured from T60 wear rubber and with hot-vulcanized steel reinforcement.

- Excellent wear resistance in applications with both impact and sliding wear
- Wear plates reduces noise and vibrations
- First class wear protection in applications such as chutes, feeders, channels, silos etc.



Trellex PT

Trellex PT wear plates are manufactured from T60 wear rubber and include hot vulcanized aluminum fixing profiles.

- Excellent wear resistance in applications with both impact and sliding wear
- Vulcanized aluminium profiles allow fewer fixing points
- Reduce noise and vibration
- Excellent wear protection for feeders, chutes etc.



Trellex SP

Trellex SP wear plates are manufactured from T60 wear rubber. They feature a serrated surface and with hot-vulcanized steel reinforcement.

- Excellent wear resistance in applications with both impact and sliding wear
- Reduce noise and vibration
- Optimal for material with impact angles between 15°C and 50°C
- Excellent wear protection for chutes, transfer points etc.



Trellex PPU

Trellex PPU wear plates are made of polyurethane and backed with a cast-in steel reinforcement.

- Excellent wear resistance in lighter applications with sliding wear
- Reduces noise and vibrations
- Excellent wear protection in chutes, channels etc.



Trellex SB

Trellex SB wear plates are manufactured from T60 wear rubber with molded holes for fixing. The holes are reinforced with fixed hot vulcanized internal steel washers.

- Excellent wear resistance in applications with both impact and sliding wear
- Bendable and easy to cut
- Reduce noise and vibration
- Excellent wear protection for feeders, bins, chutes, silos etc.



Trellex WB

Trellex WB wear bars are manufactured from T60 wear rubber and include hot-vulcanized aluminum fixing profile.

- Excellent wear resistance in applications with both impact and sliding wear
- The embedded aluminium profile allows for fewer fixing points
- Reduce noise and vibration
- Excellent wear protection for bins, chutes, silos etc.



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Trellex Flexback

Trellex Flexback is manufactured from T60 wear rubber or polyurethane. It is hot-vulcanized or casted-in with an embedded perforated steel reinforcement.



- Excellent wear resistance in lighter and medium applications
- The reinforcement makes it possible to construct self-supporting channels or chutes with simple supports of angle iron and flat iron
- Reduce noise and vibration
- Excellent wear protection for chutes, channels, bins etc.
- Bendable and easy to cut (alu-machine)

Trellex Flexback Serrated

Trellex Flexback Serrated is manufactured from T60 wear rubber and is hot vulcanized with embedded, perforated steel reinforcement and is optimized for handling material impacting at angles between 15°C and 50°C.

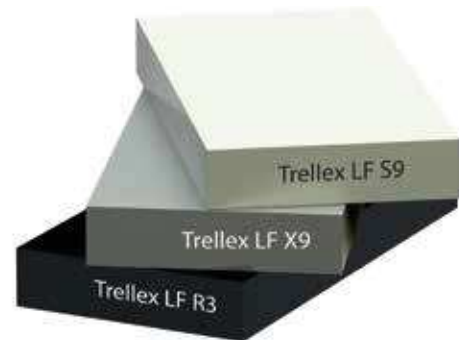


- Excellent wear resistance in lighter and medium applications with both impact and sliding wear
- Reduce noise and vibration
- Excellent wear protection for chutes, channels, bins etc.
- Bendable and easy to cut (alu-machine)

Low friction lining Trellex LF

Trellex LF plates are made of an ultra high molecular weight polyethylene that minimizes surface friction to prevent material sticking.

- Excellent for applications that require extremely low friction
- Increase material flow
- Prevents material sticking
- Excellent solutions for chutes, bins, silos and other low wear application that have flow problems with sticky material.



Keep your trucks moving Metso Truck body lining solution

It's tough enough to squeeze maximum profitability out of a mining operation. Stopped trucks make it even tougher. The repeated impact and stress of loading and dumping heavy, abrasive material can cause expensive damage to the body and truck as a whole.

Metso Truck body lining solution is designed with one thing in mind - to maximize the availability and productivity of your trucks, while reducing your costs for service and maintenance.



Metso Truck body lining out-toughs steel

Trellex rubber formulations, developed from years of on-site experience in the toughest mining conditions globally, offer up to 4x or more service life than steel. Metso Trellex wear rubber linings are optimized to absorb stress at every point in the truck work cycle, during loading, transport and dumping.

Lower costs, higher profits

With Metso Trellex wear rubber lining, panels can be replaced individually as needed rather than the entire lining, keeping profit-eating downtime for repairs and maintenance to a minimum.

Minimize noise to maximize productivity

Metso Trellex wear rubber lining absorbs impact shock better than steel ever can, damping vibrations and noise by 10-15 decibels—the effect of cutting noise by half. You can even feel and hear the difference when sitting in the cab during loading.

Easy to work with

Metso Truck body lining solution is designed in a modular panel system. This not only makes them easier to handle than steel options, but saves on replacement time and costs as well.



When a Metso Truck body lining wears out, simply replace the panel instead of the whole lining

Metso Lining Solution screens

The lining solution for screens includes a variety of options suitable for dry or wet screening applications. The solution is based on either Trellex PP wear rubber system or Trellex Poly-Cer system or a combination of both.

- Trellex PP in application with both impact and sliding wear
- Trellex Poly-Cer for improved wear life and impact resistance

The mining solution offers a unique overlap sealing system to avoid material build-up between lining and screen. Available as a standard solution for Metso screens and tailor-made solution for other screen brands.

Example: Feedbox lining system (Trellex PP and Poly-Cer)



Example: Cardan shaft protection system



Reduces risk of breakdown

Trellex Wear Resistant Sheeting

Installing Trellex wear resistant sheeting from Metso is identical with good operating economy and reduced risk of breakdowns. Since the early 1960's, Metso has gained considerable, worldwide experience not only in the applications of such, but also in how to consistently produce high quality products.

Increases your uptime

Trellex wear sheeting has proved a long wear life in comparison with other wear materials like steel. The result is that you simply don't need to change lining as often. Fewer stops and less production losses increase your profitability. Depending on application you can choose from rubber or polyurethane wear sheeting.

Caring for working environment

Improving the working environment is more important than ever, both for the health and safety of co-workers and to satisfy regional legislative demands. Hearing damage is one of the biggest problems experienced by the workers. Trellex wear rubber sheeting from Metso generates less noise than traditional steel lining and therefore contributes significantly to reduce this problem. Additionally Trellex wear resistant rubber is lighter in weight compared to steel, making it easier to handle in most applications. This means a reduced risk of injuries associated with carrying heavy loads.

Applications:

If you have fine material in wet applications or when you need a more oil and ozone resistant material than rubber, we recommend wear sheeting made of polyurethane.



T40



T60



TR60

A large pile of gravel in the foreground and a quarry in the background under a cloudy sky.

Fewer stops and less
production losses increase
your profitability

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