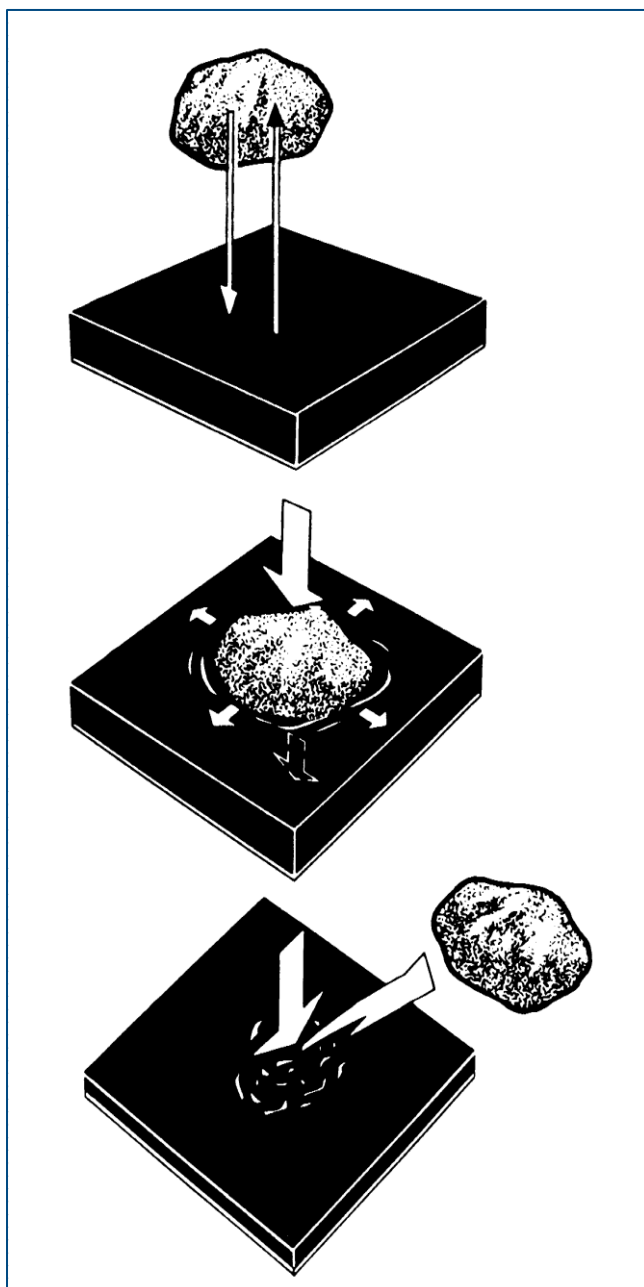




Why does rubber make such a good wear liner

It is safe to say that there is no one lining material that is suitable for each and every application. Each lining material has strengths and weaknesses in varying situations



In broad terms there are two methods of combating wear. The use of very hard materials such as alloys & ceramics or soft elastomeric materials like rubber.

When two surfaces are working against each other it is generally expected that the harder material will wear less than the softer one. Many of the minerals we encounter have a microstructure somewhat harder than the hardest alloys so it comes as no surprise that even the toughest liners eventually wear away.

Extremely hard materials tend to be brittle and are not always suitable for use in high impact environments. As a general "rule of thumb" the harder the wear liner the less resistance to impact it will have.

Softer wear liners like rubber work in an entirely different manner to steels,

Rubber has proven to be highly effective wear resistant lining material in a wide variety of materials handling applications

Some Benefits of rubber wear liners

- ✓ Rubber can last 4-10 times longer than steel.
- ✓ Rubber liners are much quieter...
- ✓ Rubber liners protect equipment from impact related vibrations and stress
- ✓ Light weight and ease of handling – OH&S

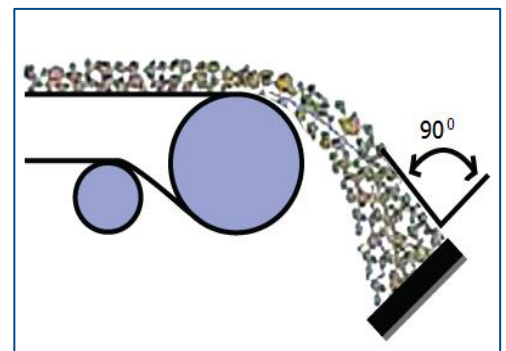
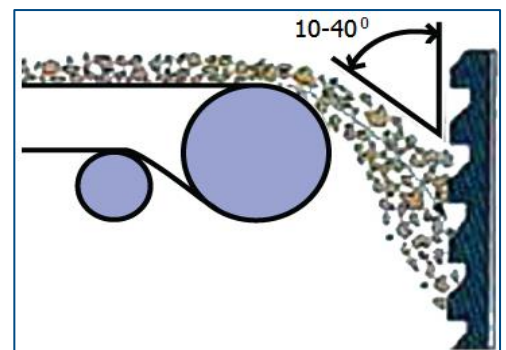
Things you should know about rubber as a wear liner

Rubber performs best when the angle of impact is either perpendicular (90°) or horizontal to rubber wear liner.

At 90° the forces encountered by rubber surface are primarily impact forces.

As the trajectory angle is reduced the forces encountered by the rubber surface change from impact to shear forces.

The heaviest wear occurs when the impact angle is between $10-40^\circ$ from the horizontal



Some useful tips to get the most out of your rubber liners

- ✓ The key to good wear life is speed
- ✓ Slow the flow & increase wear life
- ✓ Introduce material roll where ever possible
- ✓ Design the liners around favourable impact angles
- ✓ Ensure sufficient liner thickness

Some typical applications for rubber liners

Primary Feeder



Screen discharge chute



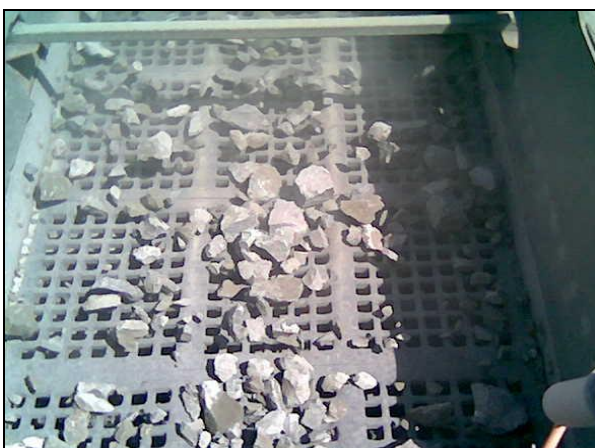
Flexi wall chute



Truck body liner



Screen panels



Grizzly bars

