



Trellex Dust Control





Take the dust and noise out of materials handling

Dust means trouble! Modern large-scale mining and mineral-processing facilities generate dust and noise in a big way. And there isn't much good that can be said about dust. It's an acknowledged health hazard. It also accelerates wear on machinery and equipment. It also accelerates corrosion. It makes maintenance and repair more difficult and more time-consuming.

We supply off the shelf standardized solutions for dust control of screens, feeders, chutes and other equipment that handles dust. The elasticity of Trellex rubber enables it to be configured to fit virtually any type of equipment. Elasticity also makes the rubber highly resistant to vibration.

The combination of Trellex dust sealing-rubber and standard metals, STMs, enables construction of easily

opened inspection covers, tight seals and ensures a long service life for your dust-sealing system.

Unique, money-saving benefits

A Trellex dust-sealing system gives you virtually total encapsulation, provides almost total effectiveness and is the closest you can come to a 100% dust-sealed operation.

With simple, standardized components Trellex dust-sealing system can be tailored to your equipment at a reasonable cost, and you can seal a combination of machines, such as a screen or a crusher.

And there's a big bonus! Trellex dust-sealing systems achieve substantial reduction in noise.

The simple, cost-effective answer

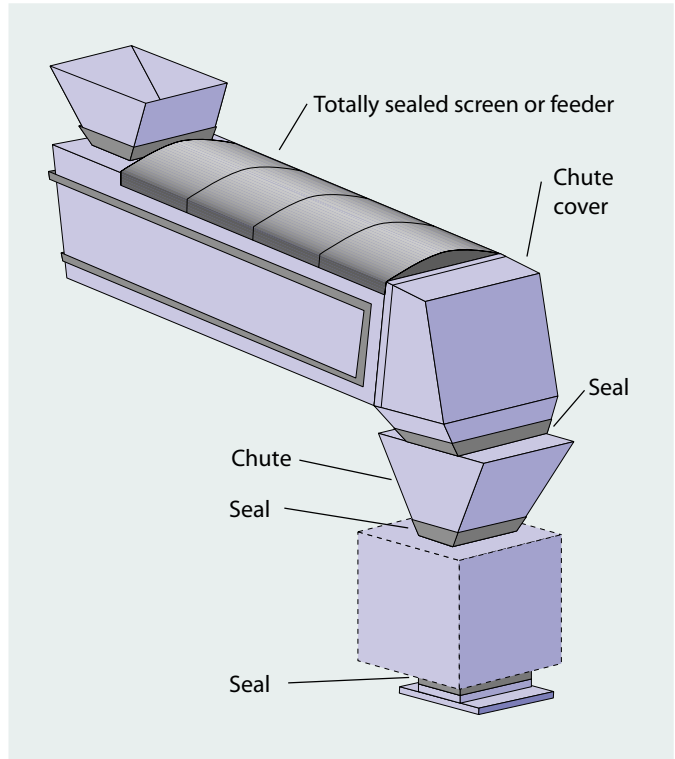
Several decades ago, Metso Minerals began delivering dust-sealing systems that provide dramatic improvements to equipment handling dust. These systems are based on three types of components:

- Trellex dust sealing cloth and fabric
- Rubber grip strips
- STM steel profiles

These drawings show how a typical screen can be totally encapsulated with a Trellex dust-sealing system, which effectively prevents dust from escaping out into the environment and into the drive mechanism and the motor.

When the screening elements have to be replaced, the lightweight inspection covers and part of the top frame can be removed easily.

In principle, the seals are mounted around the space where the dust arises. STMs are used to simplify positioning of the rubber and the grip strips. The rubber cloth or fabric is clamped in place by the grip strips to form an enclosure.



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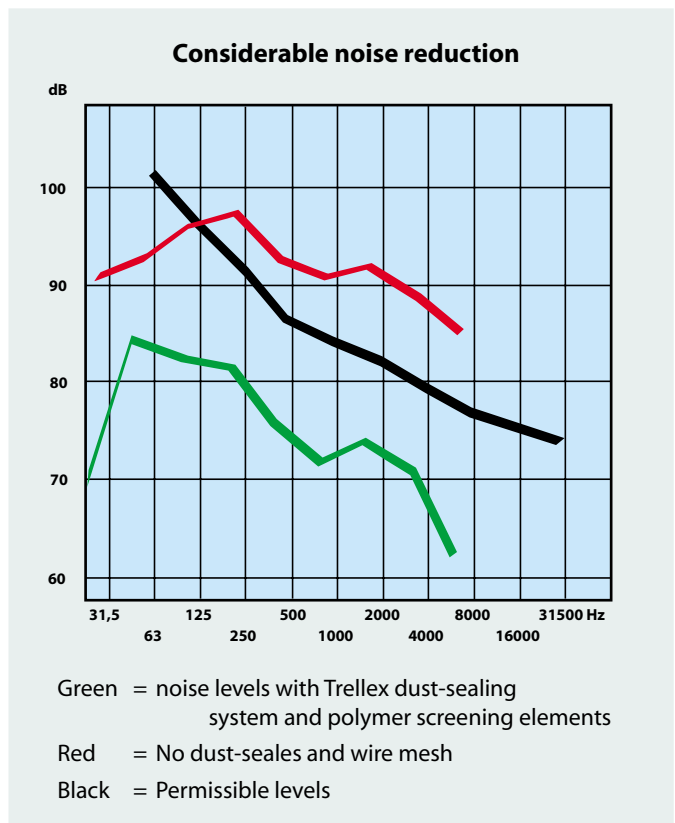
No need to suck out dust

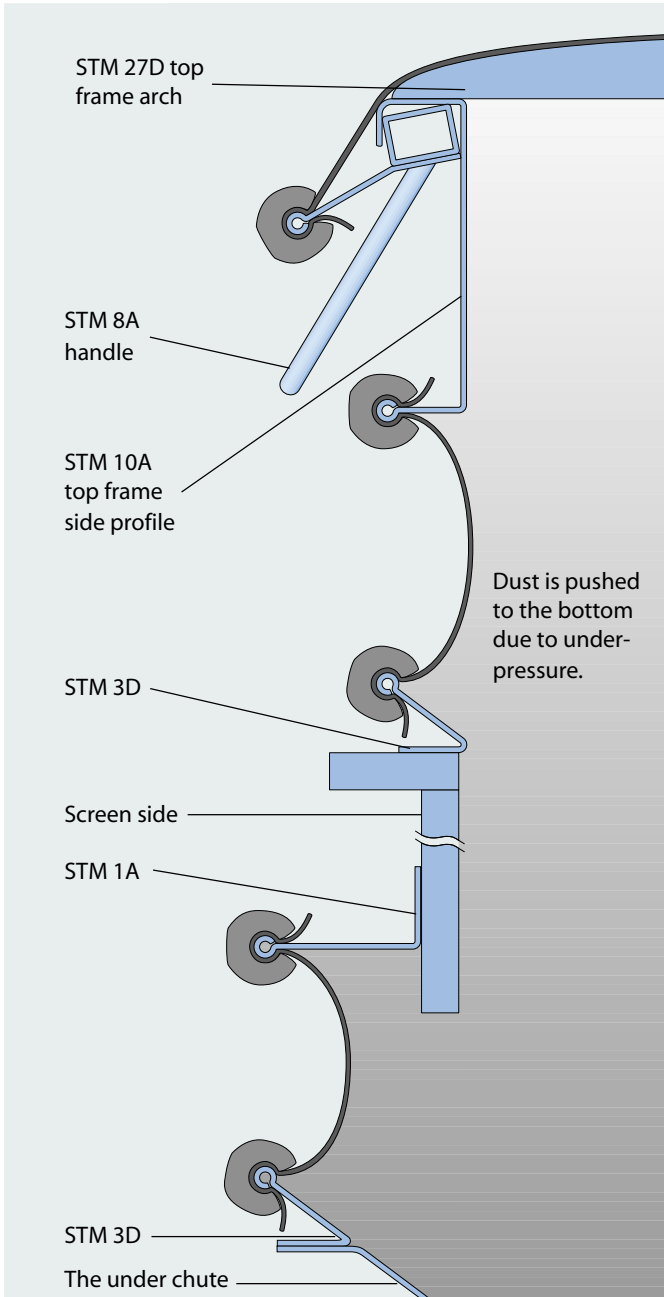
A quarry (capacity 500 MTPH [550 STPH]) with a very high content of silica in its rock, reduced the need for sucked air from 530 thousand m³/h to 35 thousand m³/h (19x10⁶ ft³/h to 12x10⁵ ft³/h), the dust content from 25 mg/m³ to 0.5 mg/m³ (9.03x10⁻¹⁰ lbs/in³ to 2x10⁻¹¹ lbs/in³) and the noise level from 95 dB to 76 dB using Trellex dust seals, screening media and chute linings.

Summary

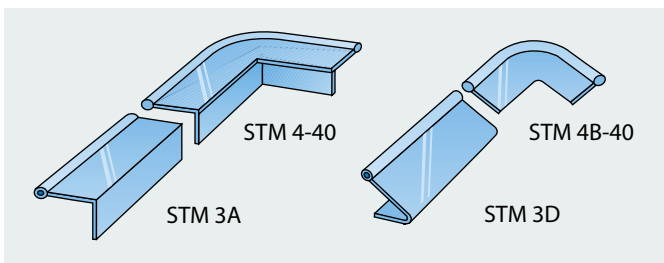
Trellex dust-sealing system ensures much less dust and much less noise. Which means:

- A better working environment
- Reduced wear and corrosion
- Safe, fast and easy service and maintenance





Section through dust-sealed screen



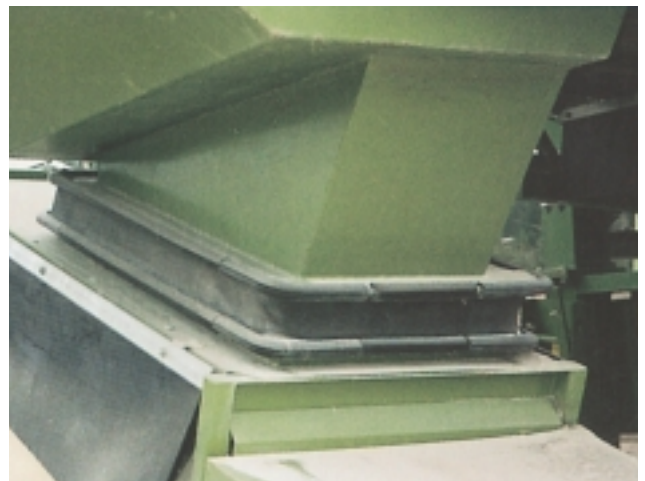
Typical STM combinations



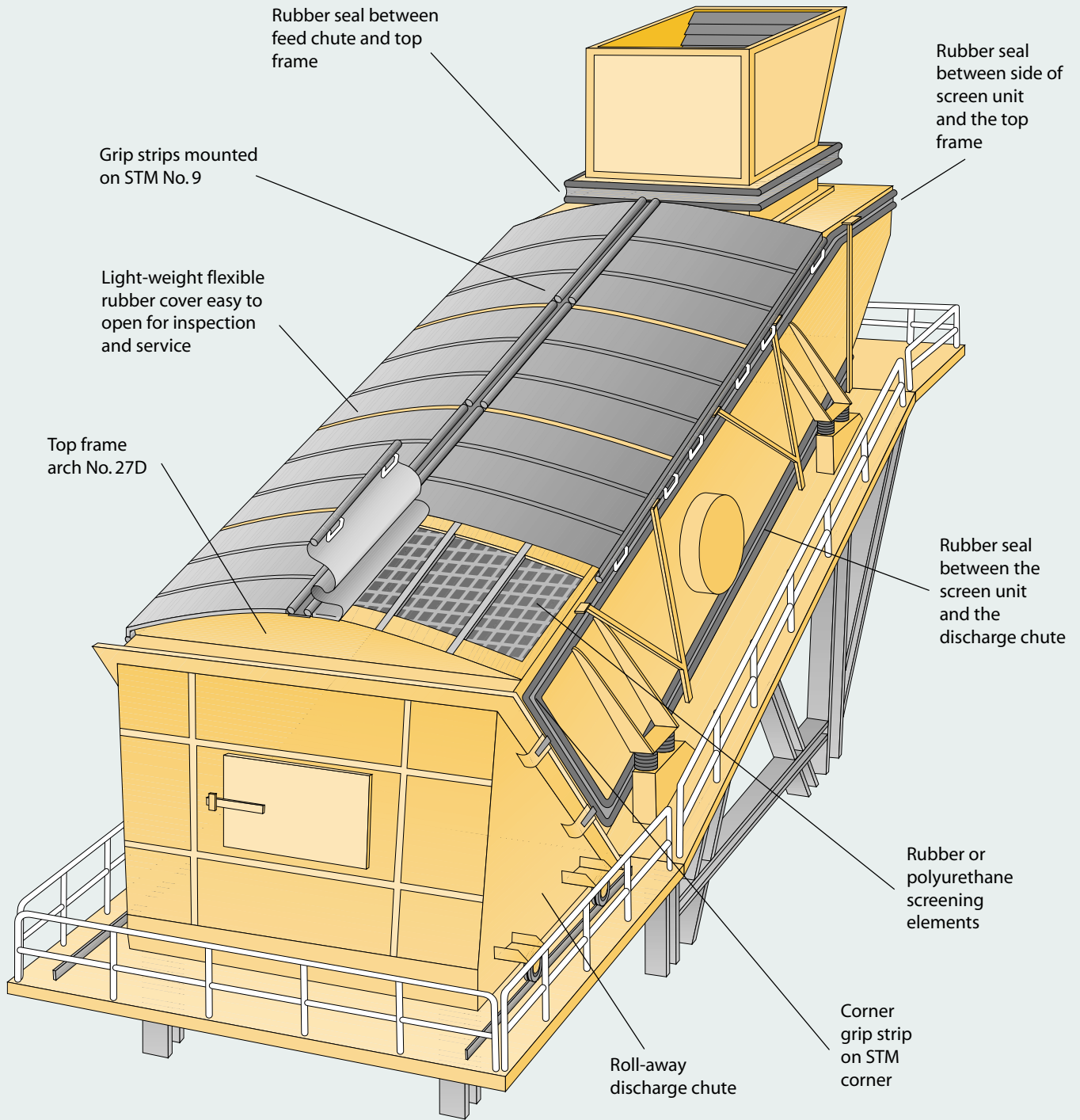
Top frame on RHS profiles



Feeder to conveyor



Chute to conveyor



Trellex Screening Media

Our range:

Square opening screens
Slotted screens

Self cleaning screens
Industrial products

Modular step system
Rubber panel system

Tensioned panel system
Dust control

Metso Minerals North and Central America

3073 South Chase Avenue
Milwaukee, WI 53207
USA
Phone: +1-414-769 4300
Fax: +1-414-769 4730

Metso Minerals South America

Av. Independência, 2500
Bairro do Éden,
Sorocaba - SP
CEP 18087-050 Brazil
Phone: +55-15-219 1300
Fax: +55-15-219 1699

Metso Minerals Asia-Pacific

Level 2, 1110 Hay Street
West Perth, WA 6005
Australia
Phone: +61-8-9420 5555
Fax: +61-8-9320 2500

Metso Minerals Europe, Middle East and Africa

P.O. Box 4004
SE-203 11 Malmö
Sweden
Phone: +46-40-24 58 00
Fax: +46-40-24 58 78

Metso Minerals Screening Media

P.O. Box 74
SE-231 21 Trelleborg
Sweden
Phone: +46-410-525 00
Fax: +46-410-526 02

www.metsominerals.com
E-mail: minerals.info@metso.com

