

# Combaflex<sup>TM</sup>

Mill Lining Systems S.A (Pty) Ltd

*RIGHT FROM THE START*

## COMPANY PROFILE

Our Commitment to Quality, Integrity,  
and Customer Satisfaction is evident in  
every aspect of our operations.

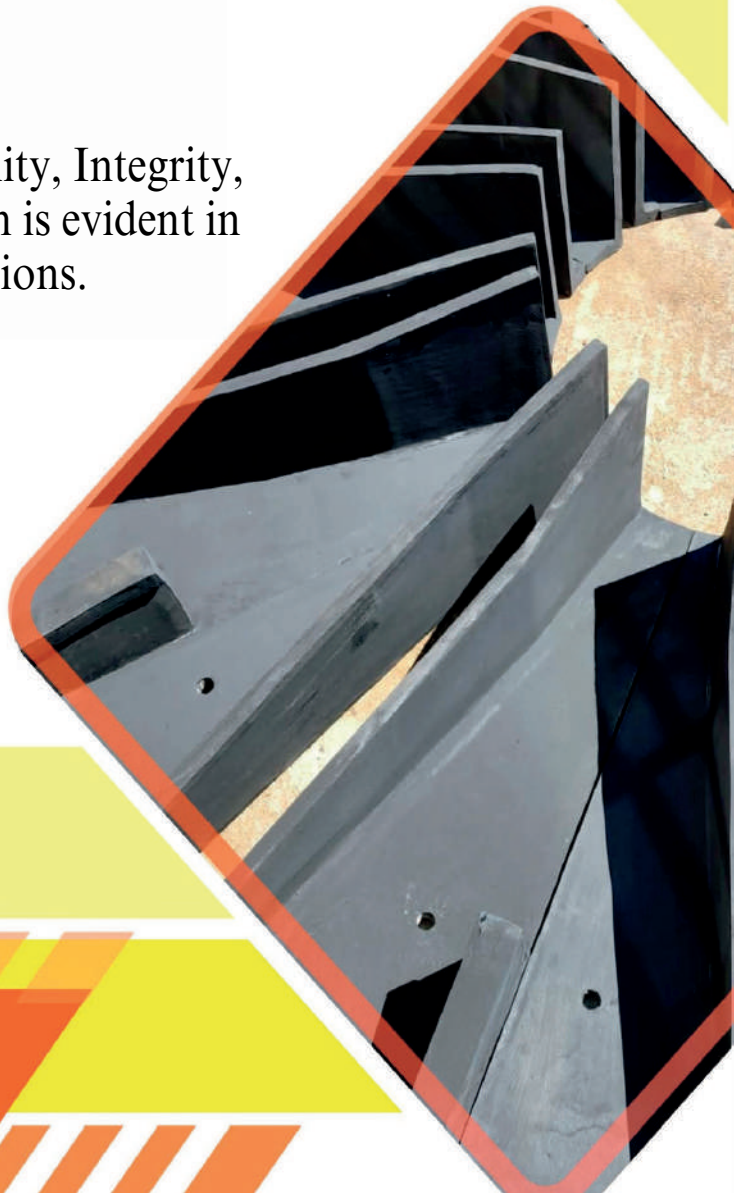
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# Combaflex Mill Lining Systems SA (Pty) Ltd

**Mill & Scrubber Lining Design and Process Consultants**

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## **Company Overview**

Founded in 1997, **Combaflex** has over two decades of experience in the development and supply of **mechanical moulded rubber lining systems** for horizontal rotary grinding mills. Our solutions are engineered to improve operational efficiency and reduce the total cost of ownership in mineral processing environments.

Combaflex is a proudly South African company, with all manufacturing conducted locally. Through strategic investment in production capacity and supplier partnerships, we support local empowerment and deliver world-class products to the mining and mineral processing sectors.

We believe that the success of our nation lies in its people, and we contribute to that success through quality, innovation, service, and the continuous development of local skills.

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## **Product Offering**

Combaflex designs, manufactures, and supplies a wide range of specialized **moulded rubber and polyurethane components** for rotary mills and mineral processing applications. Our product line includes:

- **Mill Linings** for FAG, SAG, Primary, Secondary, and Regrind mills.
  - **Rubber Liners for Scrubber Drums.**
  - **Liner Bolt Seals and Fastening Accessories.**
  - **Trunnion Liners** – Mild steel backing plate with rubber moulding.
  - **Mill Discharge and Feed Arrangements.**
  - **Feed Hopper Lining** – Moulded rubber designs.
  - **Manhole Door Covers and Sealing Systems** – Moulded rubber construction.
  - **Heavy-Duty Rubber & polyurethane Screen Decks** – For vibrating scalping and grizzly sorting units.
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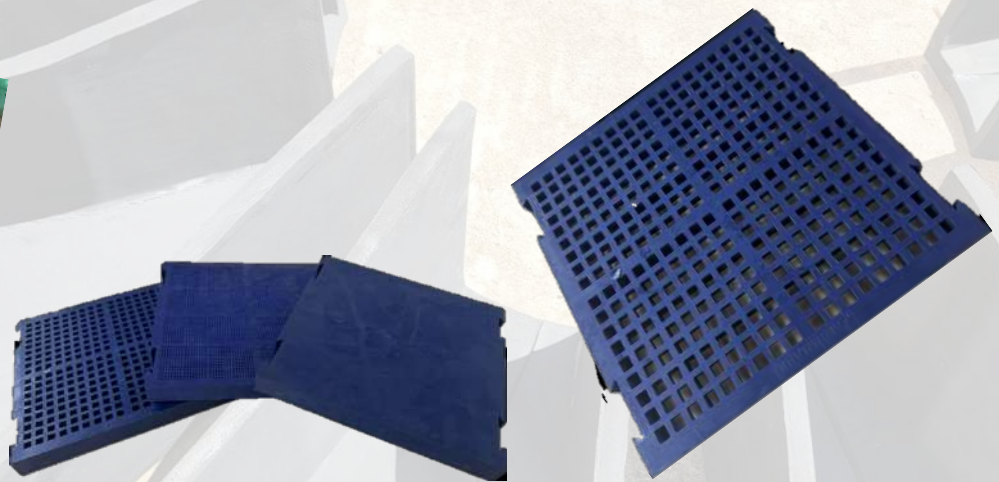
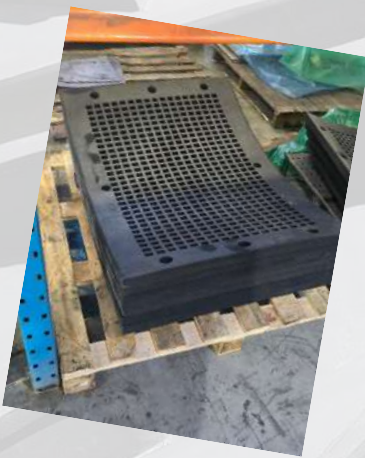
## Polyurethane Screen Panels

We are proud to offer a newly developed range of **Polyurethane Screen Panels**, manufactured exclusively from **100% virgin polyurethane** setting a new industry benchmark for quality and performance.

These panels provide:

- **Exceptional Durability** – Superior resistance to wear, impact, and corrosion.
- **Extended Service Life** – Outperforming recycled or blended polyurethane alternatives.
- **Higher Screening Efficiency** – Precision-moulded apertures reduce pegging and blinding.
- **Custom Configurations** – Designed to meet specific deck layouts and operational needs.

Combaflex polyurethane panels are ideally suited for aggressive screening conditions and are engineered to reduce maintenance frequency while optimizing throughput and cost-efficiency.



## Mill Lining System Design

Our mill liner designs are based on a comprehensive analysis of lifter bar spacing and height ratios to maximize grinding efficiency and wear life. We utilize proprietary formulae and computer simulations to optimize:

- Lifter bar profiles and spacing.
- Shell plate thickness.
- Impact zones and grinding media trajectories.

This precision-driven approach results in increased liner life, reduced energy consumption, and lower operational costs.

### **Recommended Operating Speeds:**

The optimal performance range is typically **70–75% of critical speed (Nc)**. Exceeding **85% Nc** often results in excessive liner wear, making rubber linings less economical.

## **Installation & Technical Support**

Our installation Teams consist of:

- Qualified Site Managers.
- Supervisors & Artisans.
- Charge Hands & Mill Fitters.

Each installation is supervised by a Combaflex technical representative to ensure quality and safety. We also offer **on-site replacement, upgrade services, and training for local personnel** to develop hands-on expertise in mill liner installation and maintenance.

## **Back-Up and Monitoring Service**

We provide **ongoing monitoring and inspection** of all installed liners upon request, at no additional cost. Our technical team delivers reports with:

- Wear assessments.
- Corrective recommendations.
- Forecasted change-out schedules.

This ensures effective planning, avoids unplanned shutdowns, and maintains optimal mill performance.

## **Our Commitment**

At Combaflex, we stand by our core values of:

**PROFESSIONALISM • SERVICE • QUALITY**

We are committed to:

- Delivering cost-efficient lining systems with the **lowest cost per ton.**
- Providing high-standard technical components.
- Offering full-system solutions—not just individual parts.
- Solving complex wear and process challenges.
- Continuously developing new and improved products.
- Supporting clients with engineering, performance follow-up, and emergency services.

**Combaflex** is more than a supplier—we are your **Technical Partner in Mill Performance Optimization.**

For further information or technical consultation, please contact us directly.

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