

UNDERGROUND MINE SUPPORT SOLUTIONS

TR
TIMRITE
UNDERGROUND MINE SUPPORT SOLUTIONS



www.timrite.co.za

WHO WE ARE

TimRite is a **leading South African company** supplying high-performance support products and services to the deep-level mining industry.

We design, manufacture and distribute a wide range of mining support solutions, including:

- Timber elongates and mats
- Grout and backfill bags
- Temporary and permanent steel supports

Our industry leading Research and Develop facility enables us to offer our clients and other industry participants, a turnkey solution when developing new products.

Timrite has the biggest mining timber production capacity in the industry. Our diverse geographic locations greatly reduce supply chain risks caused by interruptions such as fires, excessive rainfall, and other natural phenomena.

We own three sawmills and three manufacturing and distribution operations to be close to our customers.

Our commitment extends beyond the mine.

We are a **LEVEL 1 BBBEE**, 100% black-owned company and a proud subsidiary of Thebe Mining Resources, employing over 870 people nationwide.

We invest in communities through our Corporate and Social Investment programmes, which include bursaries, internships, and learnerships for young people. We also support local enterprises through our Enterprise and Supplier Development initiatives, building sustainable partnerships with entrepreneurs in the areas where we operate.

At TimRite, we are more than a supplier - we are a solutions partner dedicated to safety, performance and transformation in the mining industry.



Timber

Engineered & non-engineered poles

Timber packs

Industrial lumber & gum planks



Polymer & Cementitious

CemRite®
(Yielding Permanent Stope Support Pack)

PoweRite®
(Massive Pumpable Support)

FillRite®
(Conv Backfill Replacement Bag)

P Series

VentRite®
(Vent Walls & Rescue Bays)

MatSetter™
(Pre-Stressing Bag)

BlokRite®
(Cementitious Support Unit)



Steel, Intelligent support & closure loggers

TempRite®
(Steel Temporary Prop)

SmartProp®
(Hydraulic Temporary Prop)

SmarTrac™
(Closure & Deformation Monitoring)

Oculus
(Distance-measuring Device)

LoadX
(Permanent Load Cell Solution)

X10
(In-hole Extensometer)

PRODUCT RANGE AND SERVICES

1

PRECISION TIMBER SOLUTIONS FOR MINING AND INDUSTRY

With more than three decades of experience, **TimRite is a trusted leader in timber solutions**, delivering robust products for both the **mining industry** and the **broader industrial and construction sectors**.

Our mining timber products may be **fire-retardant treated**.

In mining, our timber-based support systems are engineered for various geotechnical conditions.

Highly reliable timber supports, engineered and tested for performance compliance and durability underground.

Wide range of durable mats used for underground stope and gully support.

Timber Mats

Elongates

Our product range includes:

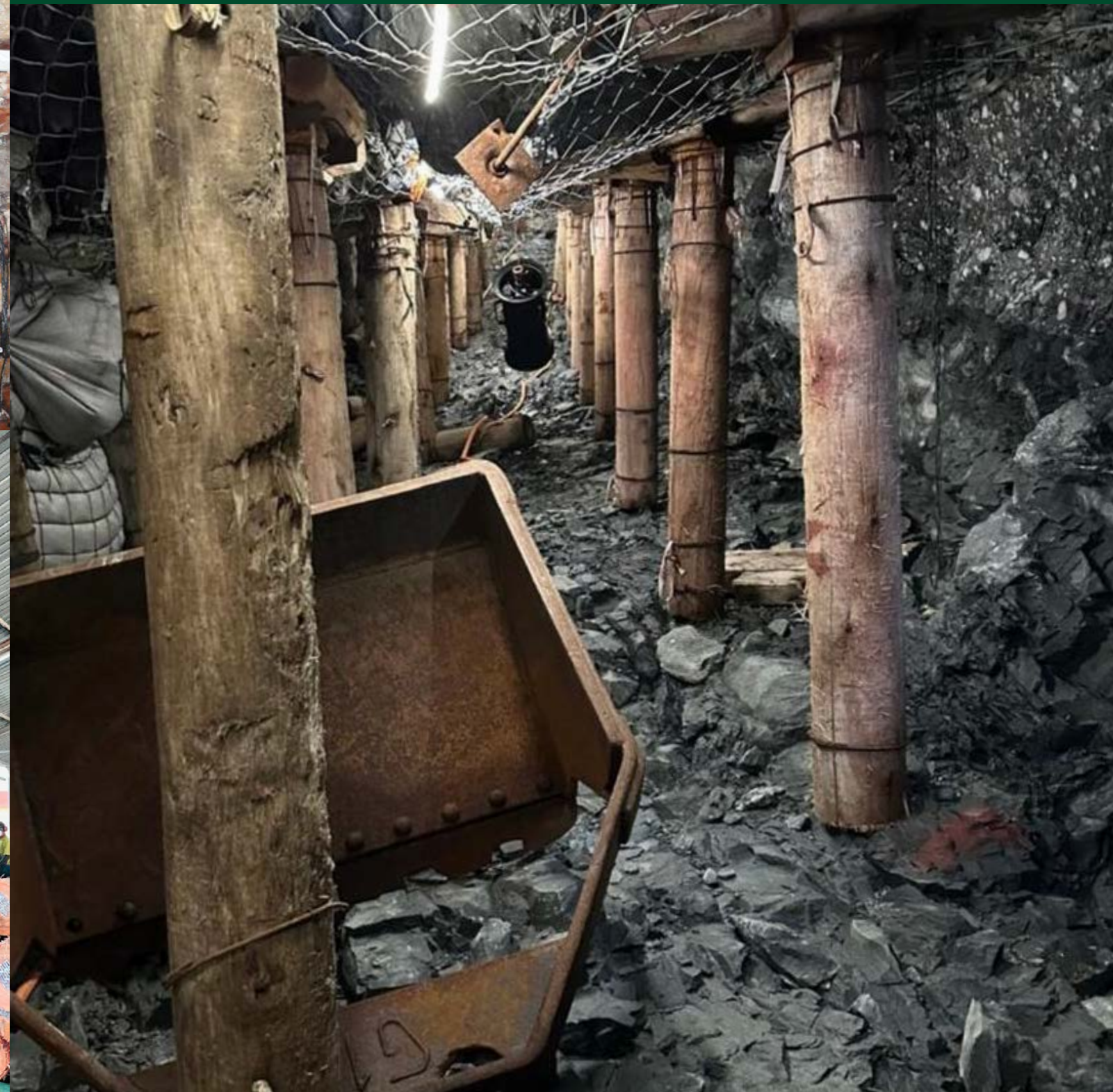


MINING TIMBER PRODUCTS

- Underground mining environment with installed elongates and NimRite HC-H props
- Close-up of the NimRite prop showing engineered design
- Mats in an underground shaft

NON-MINING TIMBER APPLICATIONS

- Sawn timber or poles stacked at a sawmill
- Wooden fencing or transmission poles installed in a rural area
- Construction worker using TimRite wood for framing or roof trusses



POLYMER-BASED SUPPORT SOLUTIONS

Innovative, flexible and built for safety underground

Timrite's polymer product suite is purpose-designed to meet the rigorous demands of underground mining environments—offering structural integrity, superior dewatering, and enhanced safety for your workforce.

CemRite®

CemRite® packs are yieldable permanent stope support units, engineered with layered bags reinforced with internal webbing and guided by a central elongate. Once pumped with grout, each layer forms a reinforced, deformable mass that adapts to ground movement.

PoweRite®

The PoweRite® system delivers robust active support, ideal for bad ground conditions, pillar replacements, backfill walls, and even bulkhead applications. Each pack integrates pumped layers guided by steel or timber elongates, filled with tailings-based grout.

FillRite®

Designed for use between existing elongates, FillRite® is a compartmentalized backfill solution requiring minimal labour and no barricades. Each layer features three compartments and a single filler valve.

P Series

The P Series is tailored for pillar reclamation projects. With two vertically stacked compartments per bag and internal elongate guide holes, it ensures greater safety, efficient dewatering, and optimal wall contact.

VentRite®

VentRite® offers a modular, pumpable ventilation wall system built from layers supported by internal elongates. It adjusts to irregular rock surfaces and seals tightly to pillars—ideal for creating air-tight stoppages in diverse conditions.

BlokRite®

BlokRite® is a lightweight, cementitious support unit in a reinforced bag, yielding under load while maintaining high stiffness. Its modularity allows for various pack sizes, proven effective in demanding trials across major South African mining operations.

MatSetter™

MatSetter™ is a fine non-sandy grout pumped into a weeping bag. The prestressing bag is a woven polypropylene designed to handle high loads and pressure.



STEEL SUPPORT SYSTEMS FOR SAFER, SMARTER MINING

Timrite leads the way in providing intelligent steel support solutions, designed to deliver high-performance, real-time ground control for underground mining environments. Our range of steel props and monitoring devices not only strengthens underground structures but also transforms the way ground movement and closure are tracked, offering unmatched safety and data-driven insights.

TempRite®

TempRite® is a lightweight, steel temporary prop engineered for quick, one-person installation without the need for pinholes, reducing stress points and installation time. Now enhanced with our **TempLight Closure Logging Device**, this unit can electronically monitor and log closure over time, delivering invaluable insights for ground control teams.

GREEN

Correct load set

BLUE

Load dropped
(reinstall required)

RED

Load increased
(ground movement warning)

SmartProp®

SmartProp® takes intelligent support further with remote installation and removal features, a load-setting indicator, and a colour-coded early warning light system.

GREEN

Correct load set

BLUE

Load dropped
(re-pump required)

RED

Load increased
(ground movement warning)

SmarTrac™

SmarTrac™ offers advanced closure and deformation monitoring. It records up to 7 million data points and flashes lights to indicate ground movement, enabling both short- and long-term monitoring.

Occulus

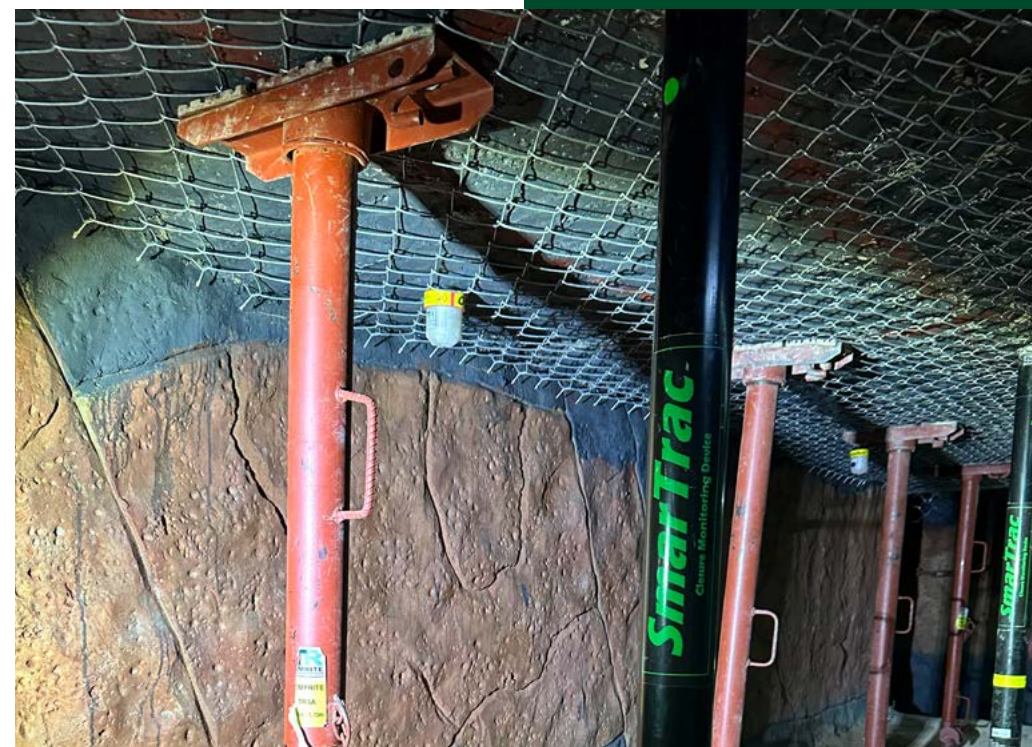
Occulus is a compact, magnetic, and portable distance-measuring device. It can be attached to props, faceplates or steel sets to track closure in real time, trigger alarms, and transmit data to remote monitoring stations - perfect for predictive ground movement tracking.

LoadX

LoadX is a permanent load cell solution for rock bolts and anchors. It provides immediate visual confirmation of correct load setting and alerts teams when force levels fluctuate - a critical tool in maintaining ground integrity.

X10

X10 is an in-hole extensometer that detects underground deformation. Installed flush to reduce damage, it sends flashing alerts when changes occur, acting as an early warning system for rock mass shifts.



INNOVATION THAT SHAPES THE INDUSTRY

Since the establishment of our dedicated Research & Development Centre in 1990, Timrite has been at the forefront of mining innovation. With **over 140 registered patents and trademarks**, we have consistently delivered pioneering solutions that improve safety, performance, and cost-efficiency in underground mining operations.

Our facility is fully equipped with industry-leading testing capabilities, and all equipment is calibrated annually by SANAS (South African National Accreditation System), ensuring precision, compliance, and integrity in every test. The centre is also open to **third-party and independent testing**, reinforcing our commitment to transparency and industry collaboration.

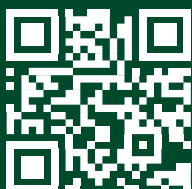
Key testing facilities include:

- 10 000kN & 1 500kN Quasi Static Hydraulic Presses
- Dynamic Testing Apparatus (16-ton weight drop test)
- Safety Net Testing Facility
- 400kN Cube Test Hydraulic Press
- Log Furnace for small-scale burn tests
- Press Control Room (for real-time load vs. deformation curve analysis)

By combining rigorous testing with real-world mine conditions, Timrite develops solutions that are not only tested but also trusted underground.



Product	Specifications	Use
Timber		
Elongates	Highly reliable timber supports, engineered and tested for performance compliance and durability underground	Stope, gully and development underground support
Timber mats	Modular units, one unit can be used to build various footprints.	Stope, gully and development underground support
Sawn timber	Logs are cut into various sizes and shapes.	Fencing, building, and transmission lines, framing, trusses, packaging, and industrial use
Polymer-based solutions		
CemRite®	Yieldable permanent stope grout support unit	Stope and gully support
PoweRite®	Robust active support filled with tailings-based grout	Bad ground conditions support, pillar replacements, backfill walls, and bulkhead applications
FillRite®	A compartmentalised bag designed to be used between existing elongates	Replacement for conventional backfill bags
P Series	Contains a number of pumped layers guided internal steel or timber elongates	• Stabilisation of bad ground • Assisting in pillar replacement • Backfill walls • Bulkheads • Replacement for conventional backfill bags
VentRite®	A system for building ventilation walls underground. It can be pumped using backfill, tailings-based grout and aerated cement.	Used for building ventilation walls
MatSetter™	A fine non-sandy grout pumped into a weeping bag.	The prestressing bag is a woven polypropylene designed to handle high loads and pressure
BlokRite®	Lightweight, cementitious support unit	Stope, gully and development underground support and pillar reclamation projects
Steel support systems		
TempRite®	Mechanical steel temporary prop with yielding capabilities	Stope, gully and development underground temporary support
TempLight® Closure Device	Mechanical steel temporary prop with Closure Logging Device	Stope, gully and development underground temporary support
SmartProp®	Hydraulic steel temporary prop with Closure Logging Device	Stope, gully and development underground temporary support
SmarTrac®	A closure and deformation monitoring device	Monitors closure and can be programmed to alert all underground crews to any deformations by flashing lights
Occulus	A compact, magnetic, and portable distance-measuring device	Monitors closure and can be programmed to alert all underground crews to any deformations by flashing lights
LoadX	A permanent load cell solution for rock bolts and anchors	Alerts all underground crews to any in-hole deformations by flashing lights
X10	An in-hole extensometer that detects underground deformation	Alerts all underground crews to any in-hole deformations by flashing lights



info@timrite.co.za

+27 11 754 1261

www.timrite.co.za

10 Van der Bijl Street
Westonaria
1779
South Africa