

COMPANY PROFILE

TR
TIMRITE
UNDERGROUND MINE SUPPORT SOLUTIONS



A MEMBER OF THE
THEBE GROUP

STEEL PRODUCTS

MINING TIMBER

POLYMER & CEMENTITIOUS

RESEARCH & DEVELOPMENT

TIMBER PRODUCTION

Introduction

TimRite operates in the mining supply and services sector. Its primary focus is to design, manufacture and supply of steel, electronics, polymer, cementitious, and timber support products. TimRite is the largest supplier of timber-based roof support products into the South African Mining Industry (Gold and Platinum). Its secondary focus is on the design, manufacture, and supply of sawn timber into the industrial lumbermarket.

We provide services such as fire-retardant treatment for timber, timber yard management and support monitoring and control.

TimRite has three saw mills, three front end operations and R&D facility where we conduct research, product development and performance tests.

VISION

To be the leading empowered company in our industry.

MISSION

To design, manufacture and supply innovative, cost effective, good quality, safe mining and forestry related products and services to related industries globally, in a socially and environmentally responsible manner.

EMPLOYEES

Over 800 skilled and dedicated TimRite employees.

BBBEE STATUS

TimRite is a level 1 BBBEE with 91.66% black ownership

SHAREHOLDING

TimRite (Pty) Ltd is a subsidiary of the Thebe Group.

Background



2013

Thebe Mining Resources a wholly owned subsidiary of Thebe Investment Corporation acquired a majority share in TimRite.

2005

MIMS and TimRite were merged with the introduction of BBBEE Partner Reatile.

1996

Mondi Imbani Mining Supplies (MIMS) acquired the business from HL&H.

1995

TIMRITE was formed by former HL&H executives.

Business Focus



Whilst the origins of TimRite are firmly based in the timber industry, it has diversified as a provider of other underground support solutions, including non-timber products and logistical services. TimRite, the largest supplier of timber-based support products in the South African mining industry has the following:

- 1 The development of safe, innovative, and cost-effective underground support solutions - TimRite has the most advanced research, development, and surface testing facility, based at our operations in Westonaria.
- 2 Together with the rock engineering skills and expertise of TimRite the mining solutions to key challenges of extracting deeper ore bodies are met. This is achieved through ongoing collaboration between TimRite and its customers also results in innovative product development and unique solutions for the industry.
- 3 Optimizing the full value of timber - TimRite's investment in eucalyptus plantations allows for diversification into servicing the industrial timber and special pole markets.

Customers

Timrite's customer base includes some of the greatest stakeholders in the African mining Industry.



Our Affiliates

- South African National Institute of Rock Engineering (SANIRE)
- The South African Institute of Mining and Metallurgy (SAIMM)
- International Steel Fabricators of South Africa (ISF)



PROPRITE® - PERMANENT SUPPORT

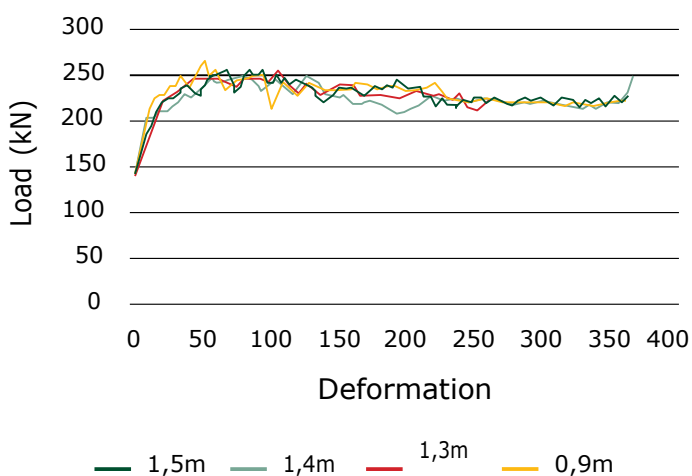
- PropRite is a permanent steel-based support system with two telescopic structural steel tubes and a locking mechanism to lock tubes in place.
- It has a conventional hydraulic PSU to pre-stress to up to 140kN and its load is generated by the flaring of the outer tube at 200kN on our medium duty prop and 340kN on our medium duty prop.
- Timber headboards are available with the prop.

	PR 1.1	PR 1.2	PR 1.5	PR 1.8	PR 2.0	PR 2.3
Min	0.81	0.81	1.06	1.06	1.26	1.56
Max	1.1	1.2	1.55	1.8	2	2.23
Range	0.29	0.39	0.49	0.74	0.74	0.67
Mass (kg)	13.5	14.4	18.0	20.4	22.3	25.1

Attributes

- Relatively lightweight
- Easy to install
- Uses conventional pre-stressing technology
- Can be re-installed if blasted or pulled out
- No cutting required to fit stope width

PropRite



PROPRITE® - EARLY WARNING DEVICE

The PropRite EWD is an electronic system built into a PropRite steel support unit, designed to alert miners to any unexpected or excessive ground movement.

Attributes

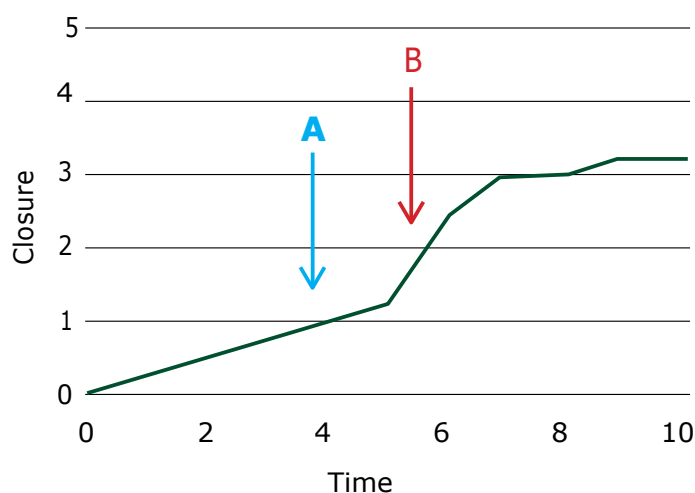
- The PropRite EWD is a support unit in its own right
- Created by two expandable steel tubes with built in yield
- Pre-stressable to 150kN
- Yield at 200 or 400kN – as per user requirements
- Easy installation
- The prop includes a programable system that will warn miners of any ground movement that is extraordinary
- Once pre-stressed the EWD activates and zeros itself
- Flashes green light once activated – system operational – closure within acceptable limits
- Programmable for closure activation – 'A' & 'B' limits given by mine Rock Engineer

UNDER CLOSURE

Flashing **Blue 'A'**
Closure detected – warning!
 $0.5\text{mm} < A < 100\text{mm}$

Flashing **Red 'B'**
Detects more than expected closure - Alert!
 $1.0\text{mm} < B < 200\text{mm}$

Closure Profile Example



TEMPRITE® - TEMPORARY SUPPORT

TempRite is a steel temporary support prop, designed for use in the South African mining industry. It is designed for simple installation and removal has a built-in yield characteristic for ground control under high closure conditions. TempRite is an all-steel construction with no pin holes. It has built in yield mechanism which has a yield load more than 80kN – Medium duty and yield load more than 160kN – Heavy duty.

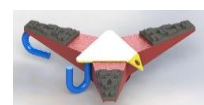
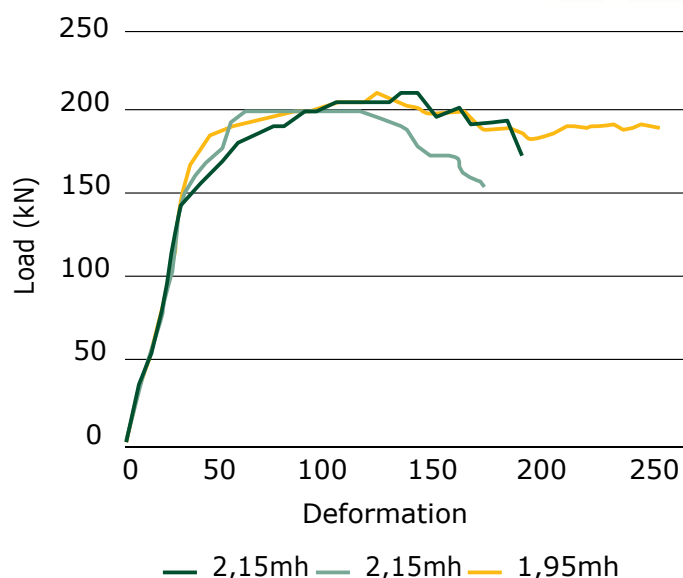
It has different variations depending on customer requirements which are: separate setting and release spanner and attached setting and release spanner.

STOP WIDTH (M)	TR 1	TR 2	TR 3	TR 3A	TR 4	TR 5	TR 6	TR 7
Min	0.65	0.9	1.1	1.15	1.35	1.65	2.15	3.15
Max	1.0	1.35	1.55	1.7	2.15	2.65	3.0	4.0

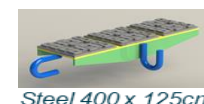
Attributes

- The prop is lightweight
- Easy to install (one-man installation)
- Yielding mechanism
- Uses conventional cam system
- Can be removed remotely with a releasing sling
- Can be easily retracted by turning upside down to release the locking mechanism
- Available in a variety of headboards

TempRite TR4 HD



Tri-headboard



Steel 400 x 125cm headboard



Steel 125 x 125cm headboard



TEMPLIGHT™ - TEMPORARY PROP

- The TempLight is effectively a TempRite temporary non-blast on support with a built-in load indicator light and ground movement early warning device
- Once installed, a green light will indicate that the prop has been installed to the correct load – 15kN
- Should the prop loose load for whatever reason, the light will indicate blue - the prop must be re-stressed
- If the load on the prop increases, the light will turn red (30kN), this load increase being an indicator that ground movement has occurred

STOP WIDTH (M)	TR 1	TR 2	TR 3	TR 3A	TR 4	TR 5	TR 6	TR 7
Min	0.65	0.9	1.1	1.15	1.35	1.65	2.15	3.15
Max	1.0	1.35	1.55	1.7	2.15	2.65	3.0	4.0

Attributes

- Steel prop
- Lightweight
- Very quick installation
- Remote release
- Rust indicator
- All components are durable
- Reliable yield loads, based on steel deformation



SMARTPROP® - TEMPORARY SUPPORT

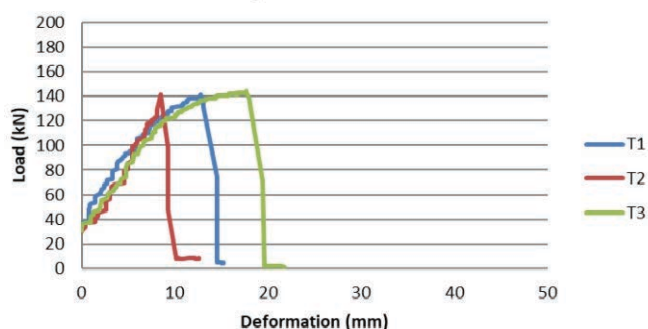
The TimRite SmartProp® is an alternative temporary support designed for ease and speed of installation with the added safety benefit of remote installation and release. It is a non-blast-on product designed to protect the face crews during the working shift. As an added benefit to users, the prop can be equipped with a pressure indicator to warn of ground movement for low closure mines such as Platinum, or with a release valve which will allow the prop to yield under closure associated with high closure mines such as deep level gold mines.

Attributes

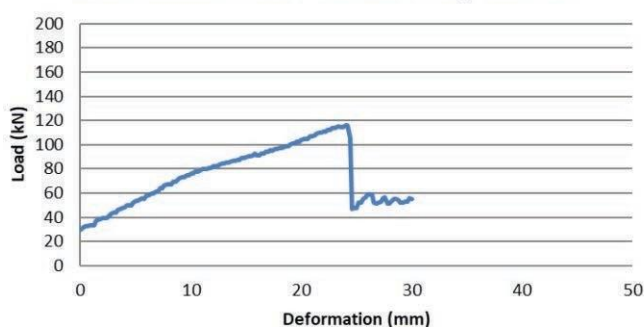
- Lightweight – easy to install
- Easy suspension of safety nets
- Remote installation from safe supported position
- Uses conventional pre-stress pumps
- Pressure indicator
- Remote removal from safe supported area
- No cams to cover



Semi SmartProp Destruction Tests 1.2mH



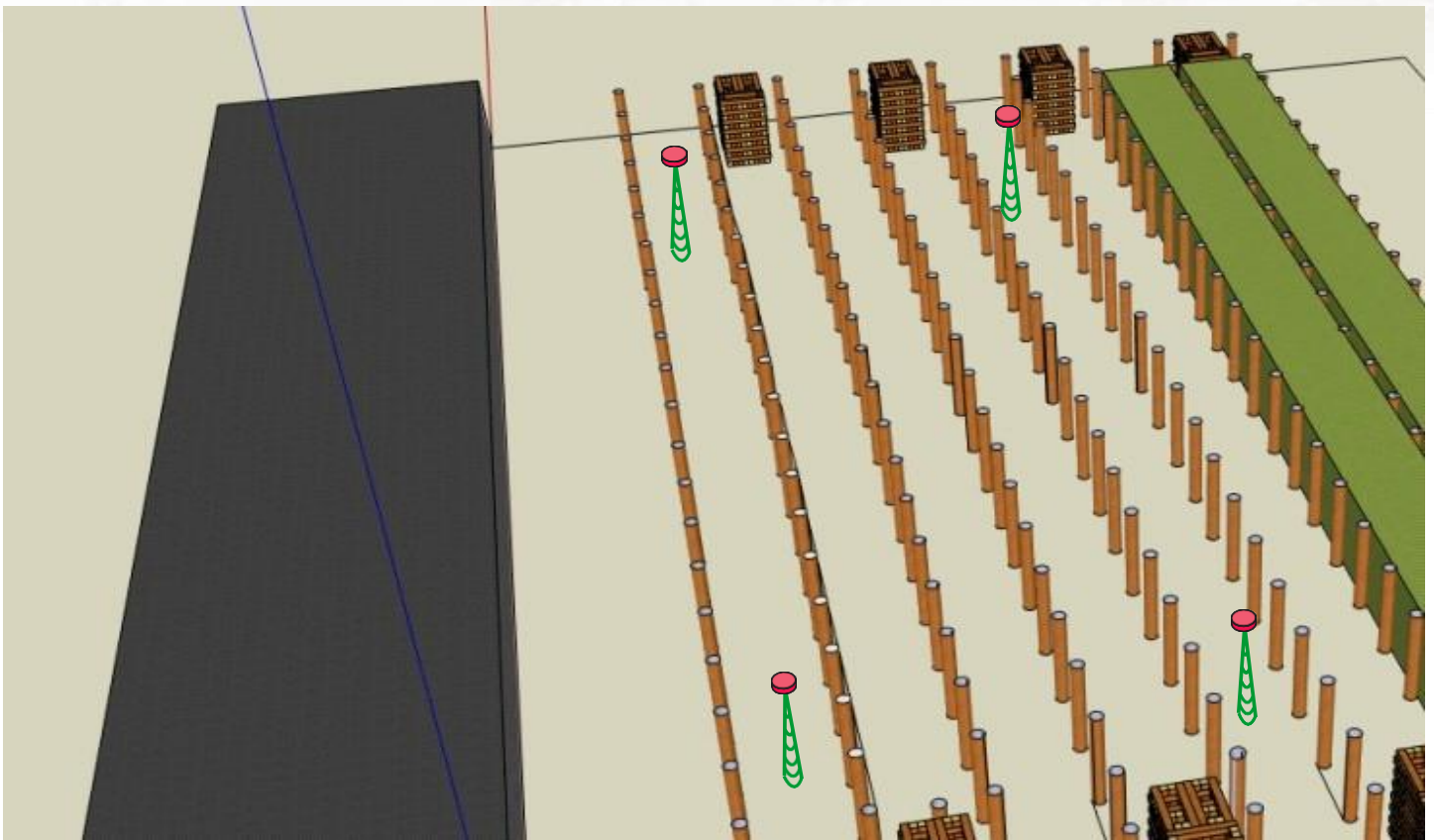
Destruction Test - SmartProp 2.5mH



OCCULUS™ - PORTABLE CLOSURE MEASURING AND LOGGING DEVICE

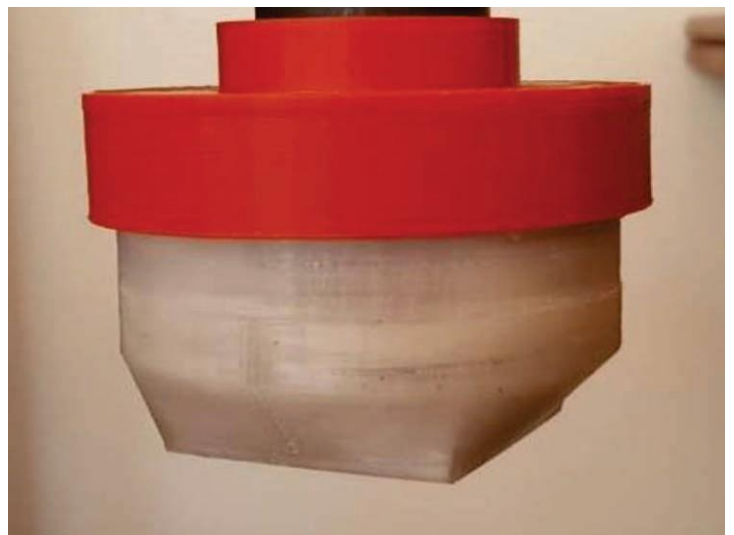
Attributes

- Monitors closure and can be programmed as an early warning device
- Programmable to flash warning lights at certain deformations or rate of closure.
- Data acquisition ability to monitor time and deformation
- Down data to remote monitoring station
- Long- or short-term monitoring
- Light weight and small – can carry in pocket
- Magnetic – attach to face plates, prop headboards, steel sets etc



Variations

- Time-of-Flight-based
- Laser-based



SmarTrac™-CLOSURE MONITORING DEVICE

The TimRite SmarTrac™ is a device that can be used in underground mines to warn of excessive ground movement or to log closures for separate data analysis. They consist of two PVC capped tubes that are spring loaded for easy installation. Positioned within the tubes is a device that monitors the relative movement of the two ends of the tubes. A flashing light is used to indicate the status of the device.

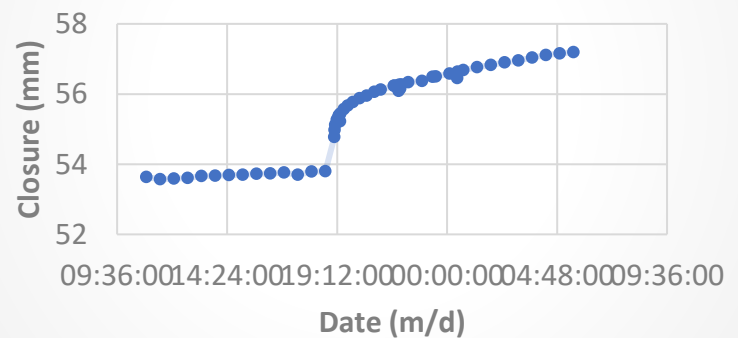
ATTRIBUTES OF THE SmarTrac™

- Lightweight;
- Easy installation;
- Monitors closure and can be programmed as an Early warning device;
- Long- and short-term monitoring;
- Data acquisition ability;
- 7,000,000 data points recording (long battery life); and

All components are durable.



SmarTrac2296 - 5 November



Battery check:
Green –
batteries good

Communication
Indicator Light

TIMRITE VENT CURTAIN

TimRite ventilation curtains are polypropylene Ventilation curtain used for temporary seal to direct ventilation underground which is lightweight and easy to install.

They are polypropylene material that are woven to 115 gsm, available with or without wire lattice.

The curtain is retardant according to the NCB245 Specifications for mines.

Attributes

- Lightweight
- Easy to install

Variations

- Standard 115 gsm vent curtain
- Sausage type vent curtain
- Webbing reinforced vent curtain
- Mesh reinforced vent curtain

Size Range

- 1.37m x 10m
- 1.50m x 10m
- 1.80m x 10m
- 2.00m x 10m
- 2.45m x 10m

Curtains can also be supplied in 500m rolls or as per customer requirement.



POLYMER AND CEMENTITIOUS

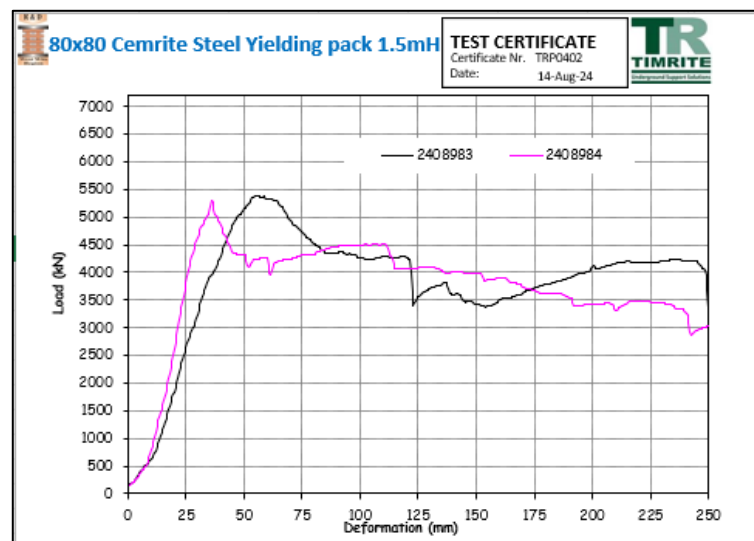
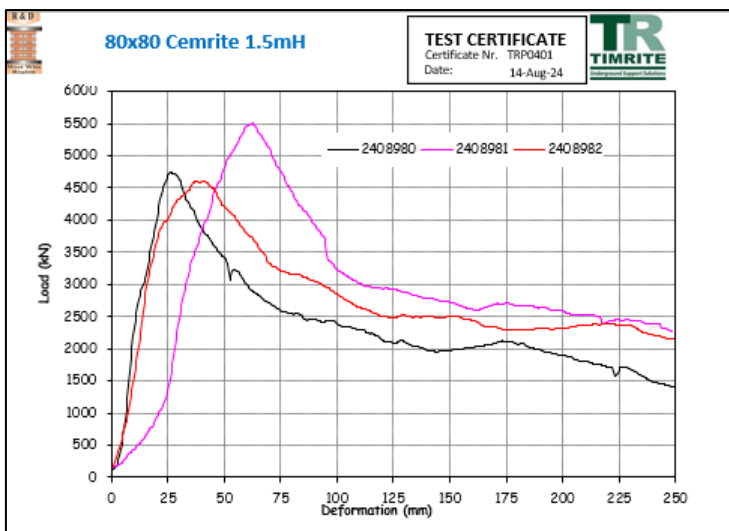
CEMRITE® - PUMPABLE TIMRITE GROUT PACK



CemRite® Packs are yieldable permanent stope support units consisting of a number of bag layers lying on top of one another, guided by an internal pre-stressed elongate. Each layer of CemRite® has internal webbing reinforcement which when pumped with grout, reinforces the grout so that it yields in a controlled manner under deformation. Various pack footprints are available from 70cm x 70cm up to 115cm x 115cm to cover the variable conditions found in the mines.

Attributes

- Full hanging wall contact
- Easy to install
- Different variations for different uses
- Bags pumped individually
- Bag contains reinforcing webbing straps
- Reduces shaft constrains
- Small compartments for excellent dewatering

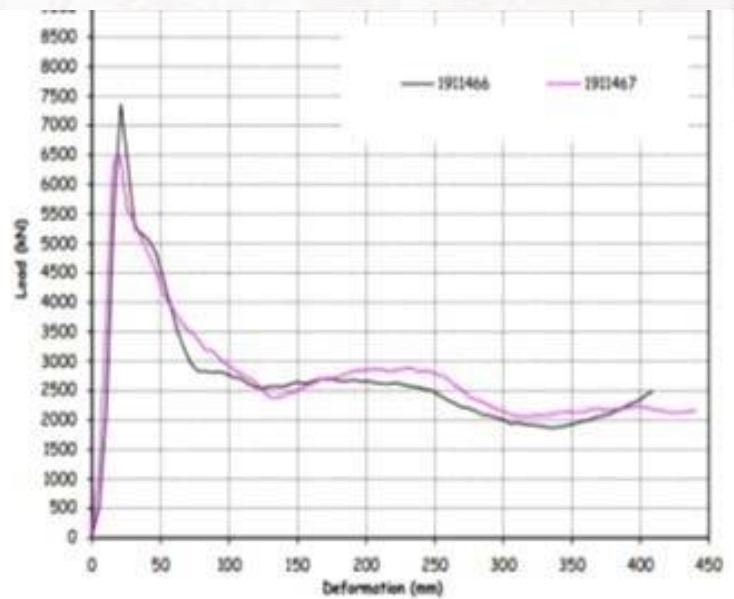


IMPAK® - TIMRITE GROUT PACK

IMPAK® Packs are yieldable permanent stope support units consisting of a number of bag layers lying on top of one another, guided by an internal pre-stressed elongate. Each layer of Impak® has internal webbing reinforcement which when pumped with grout, reinforces the grout so that it yields in a controlled manner under deformation. Various pack footprints are available from 70cm x 70cm up to 102cm x 102cm to cover the variable conditions found in the mines. The overall appearance of the Impak remains like the original design of the CemRite, with just different stitching, which makes a difference in terms of

Attributes

- Full hanging wall contact
- Easy to install
- Different variations for different uses
- Bags pumped individually
- Bag contains reinforcing webbing straps
- Reduces shaft constrains
- Small compartments for excellent dewatering



POWERITE® - PUMPABLE TIMRITE BACKFILL BAG

Powerite® Packs are relatively large structures designed originally to assist in the stabilization of workings, but have found many other applications in the mining industry. Essentially, each structure contains a number of pumped layers guided internal steel or timber elongates. Powerite® Packs are normally pumped with tailings based cementitious grout.

Uses of Powerite

- Stabilization of bad ground
- Assisting in pillar replacement
- Backfill walls
- Bulkheads
- Replacement for conventional backfill bags



Attributes

- High surface area to volume ratio ensures good dewatering and reduced slump
- Various lengths and widths of bags are available
- The number of layers pumped is dependent upon the stopping width of the area
- Powerite® can be internally re-enforced to enhance support performance
- Low volume per compartment – increased safety
- Cost competitive



P- SERIES® - PUMPABLE BACKFILL BAG



P-Series® Packs are designed to be a square backfill or tailings-based grout bag specifically for pillar reclamation projects. Two compartments per bag – one above the other. Internal holes for timber elongate guides and each layer have its own valve.



Attributes

- Small separate compartments;
- Smaller fill volumes – greater safety for installation crews;
- Greater surface area to volume ratio - more efficient dewatering;
- The mass of grout filling in one compartment improves dewatering of compartment below - better hanging wall contact; and
- Can be pressurized to a certain extent allowing for tight hanging wall contact.

POLYMER AND CEMENTITIOUS

FILLRITE® - PUMPABLE BACKFILL BAG

FillRite® is a compartmentalized backfill bag designed to be used between existing elongates. There are three compartments per layer, but only one filler valve per layer. There are no internal elongates or guides in the bag. The bags have ties for stability.

Attributes

- Low filling volume per compartment - increased safety to workforce and increased productivity
- High surface area to volume ratio with layers allow for good de-watering
- Good hanging wall contact
- Use of layers improves de-watering as bag fills
- Reduced labor required to install because there are no barricades required
- Can use between existing elongates
- One valve per layer
- Can create escape ways



VENTRITE® - PUMPABLE VENTILATION WALL



VentRite® is a system used for building ventilation walls underground. It has a width of 0.3m and various lengths are also available to construct stable ventilation structures or stoppages. Essentially, each structure contains several pumped layers guided by internal steel or timber elongates. VentRite® can be pumped using backfill, tailings-based grout, aerated cement.

Attributes

- Ventilation control
- Easy to install
- Cost effective



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.

Attributes

- Feed hose 30m long - all row installation from one point
- Pump stalls at correct pressure
- Grout will operate correctly under extreme water conditions
- Light weight grout supplied in 15kg bags making easy to handle
- Grout does not set in pump, Blockages a thing of the past
- Screw-in valve fitted for safety and remote filling
- Instant blast on system

Bag Size Range

- 80 x 80 Matsetter bag
- 115 x 115 Matsetter bag
- 80 x 115 Matsetter bag
- 125 x 125 Matsetter bag
- 95 x 95 Matsetter bag
- 65 x 65 Matsetter bag
- 160 x 160 Matsetter bag x 2 valve
- 115 x 160 Matsetter bag x 2 valve
- 95 x 125 Matsetter bag
- 230 x 115 Matsetter bag x 2 valve
- 95 x 65 Matsetter bag
- 80 x 160 Matsetter bag x 2 valve



BLOCKRITE®

BlockRite® is a lightweight cementitious stope support unit designed to have relatively high initial stiffness while yielding at low loads through large deformation. The units consist of a lightweight cementitious block held within a reinforced polypropylene bag. Different pack sizes can be built from one sized unit because of its modular nature.

BlockRite are typically 600cm X 300cm X 100cm blocks.

Attributes

- Easy handling
- Resistance against breakages
- No dust
- No steel
- Excellent performance
- Low / limited creep or load duration effects
- Cannot rot in humid atmosphere



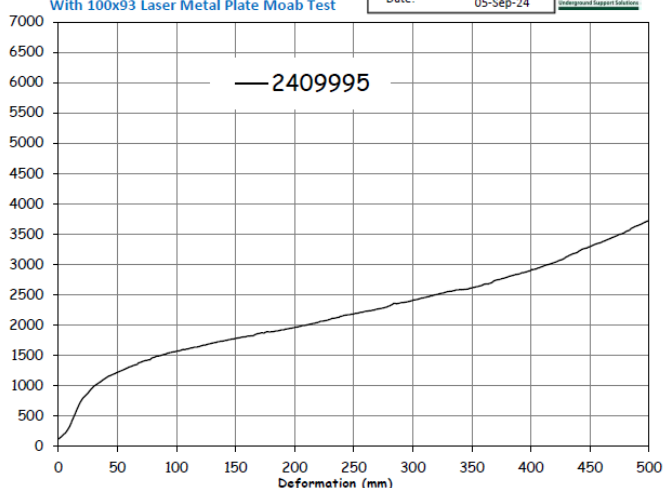
90x90 BlokRite Hybrid 1.5mH

With 100x93 Laser Metal Plate Moab Test

TEST CERTIFICATE

Certificate Nr. TRP0407

Date: 05-Sep-24



TIMBER ELONGATES®

MINE POLE

The simplest form of timber elongate.
Available in various sizes to suit customer requirements.

- 16 - 18 Poles
- 18 - 20 Poles
- 19 - 21 Poles
- 19 - 23 Poles



TERRAMAC POLE

The Terramac is an unturned mine pole with a machined end for the 140 or 160 diameter prestressing unit to be fitted onto. This means cost saving by using a smaller pre-stress unit.

- 16 - 18cm Terramac Poles
- 18 - 23cm Terramac Poles
- 19 - 22cm Terramac Poles



PENCIL PROP

The simplest yielding support available in either un-turned or turned format. Pencil Props are available in various diameters and lengths, and are good for limited closure of 150mm.

- 16 - 18 Pencil
- 17 - 19 Pencil
- 18 - 20 Pencil
- 19 - 21 Pencil



PROFILE PROP

Available diameters are 16-18cm & 18-20cm. Lengths are 0.8-3m. Pre-Stress to 200kN. Load bearing 300kN. Yielding capability 250-300mm. Blast-on timber prop up to 1m from face. Cost effective and user friendly.

- 16 - 18cm Profile
- 18 - 20cm Profile
- 18cm Profile (Turned)
- 20cm Profile (Turned)



TIMBER ELONGATES®

SQUARE PROP

The Square Prop consists of a timber elongate supplied with a pre-stressing device. The timber section of the prop is cut in a specific way to promote yielding. The prop is designed specifically for a deformation range up to 300mm.

- 16 - 18cm Square Prop
- 18 - 20cm Square Prop
- 20cm Square Prop



WEDGE PROP

Wedge Props are turned for a more consistent yielding elongate. Supplied with a fitted PSU, they can be easily pre-stressed underground using conventional pumping systems, and are good for 400mm yield.

- 18cm Wedge prop
- 20cm Wedge prop



NIMRITE®

NimRite® Prop is a pre-stress-able elongate support designed specifically to withstand large closure without buckling under yield. Various diameters, yield loads, and deformation ranges are available to suit customer requirements.

- NimRite® Horizontal (HC)
- NimRite® Vertical (VC)



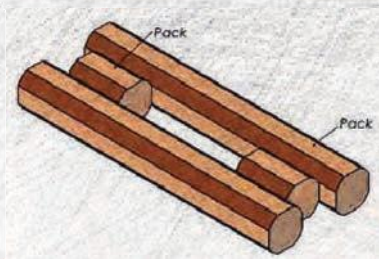
CLUSTERS

Including a number of elongate supports strapped together to form a very stiff timber structure, designed for use in low closure applications where quick and easy installation is the order of the day.

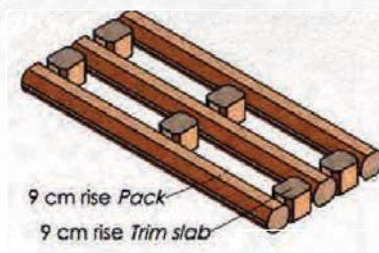
- Mine pole Cluster
- Pencil Cluster
- Profile Cluster
- Terramac Cluster
- Wedgeprop Cluster



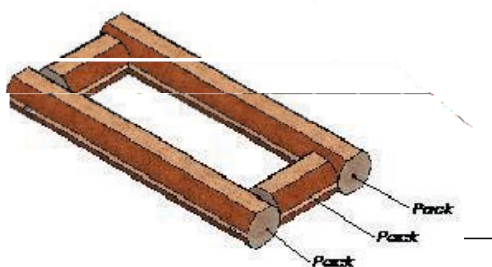
TIMBER MATS



75 Timrite Mat

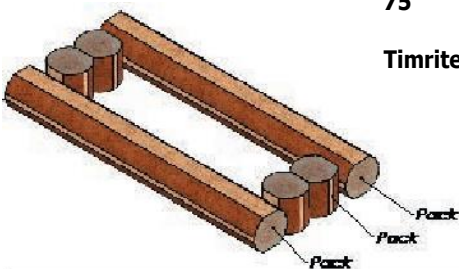


110 Timrite Mat

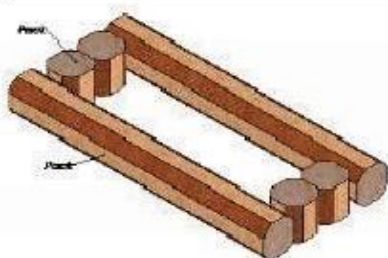


75

Timrite Square Mat



75 Square Apollo Mat



**90 Moab Square
Apollo Mat**

TIMRITE

The Timrite Mat is a timber stope support pack unit designed to optimally utilize timber. Simply, the Timrite Mat becomes a cost-effective pack by reducing timber content while minimizing loss in performance. To further ensure cost benefits, the units use existing materials and manufacturing systems. The Timrite Mat design rationalizes the timber configuration within the unit, but retains the inter-layer timber contact.

- 55 x 11 Timrite Mat
- 75 x 10 Timrite Mat
- 110 x 9 Timrite Mat

SQUARE APOLLO

The split slabs should have a face of minimum 30mm. This is valid for all faces. When making the units in a jig, the stopper for the outside splits should be on the outside of the splits.

- 75 x 9 Timrite Square Mat

SQUARE APOLLO

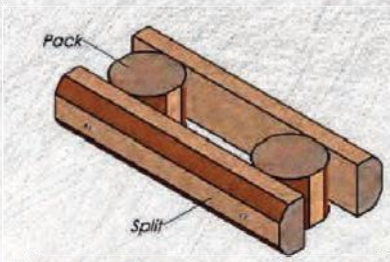
The split slabs should have a face of minimum 30mm. This is valid for all faces. When making the units in a jig, the stopper for the outside splits should be on the outside of the splits.

- 75 x 9 Square Apollo Mat

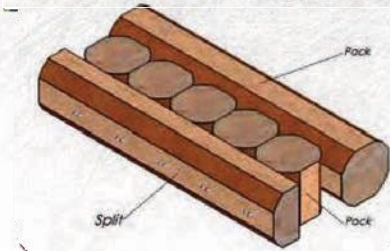
When making the units in a jig, the stopper for the blocks should be on the outside of the blocks.

- 90 x 40 x 11 Square Apollo Mat

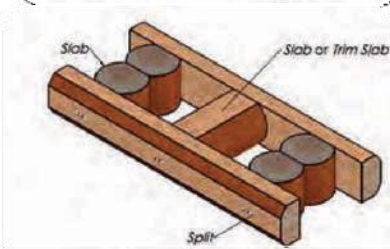
TIMBER MATS



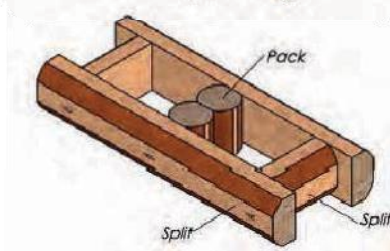
55 Timrite Lexus



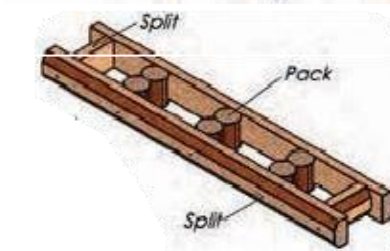
**55 Timrite Lexus
5 Block**



60 Timrite Lexus



75.90 Timrite Lexus



150 Timrite Lexus

TIMRITE LEXUS

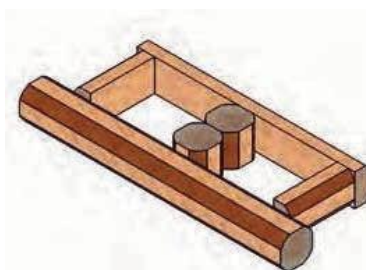
The Timrite Lexus is an economical timber pack with good initial stiffness and relatively low ultimate stiffness. The configuration is such that the material is used efficiently and the performance is enhanced by the use of end grain blocks.

- 55 x 27 x 11cm Timrite Lexus
- 55 x 49 x 11cm Timrite Lexus
- 55 x 49 x 12cm Timrite Lexus
- 60 x 10cm Timrite Lexus
- 60 x 9cm Timrite Lexus
- 75 x 10cm Timrite Lexus
- 75 x 12cm Timrite Lexus
- 75 x 13cm Timrite Lexus
- 90 x 12cm Timrite Lexus
- 150 x 12cm Timrite Lexus

EXTENDED LEXUS

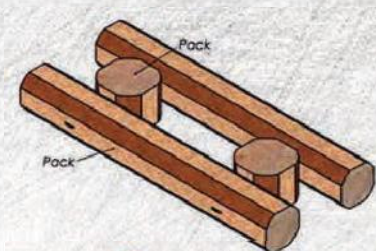
A modular unit designed to be relatively stiff and light with extra arial coverage, but with the ability to yield without generating high post yield loads.

- 90 x 11 Extended Lexus

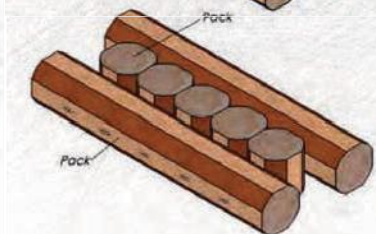


90 Extended Lexus

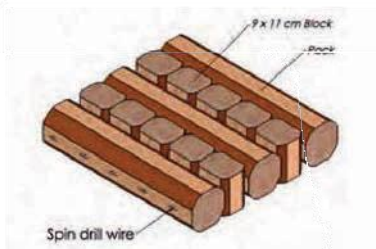
TIMBER MATS



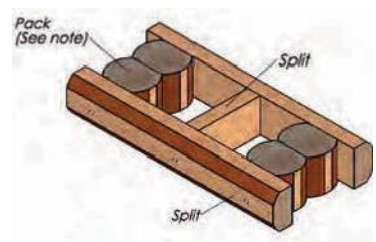
75 Apollo



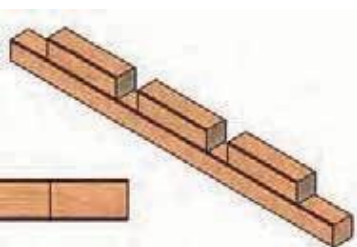
75 Apollo 5 Block



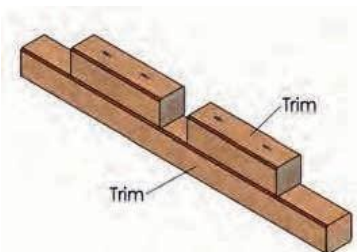
55 Apollo 10 Block



60 Matrix



110 Timber Composite



150 Timber Composite

APOLLO

The Apollo module is a timber unit designed to give a very stiff strong support. It is ideally suited to stopping areas where closure is relatively low, and high resistive forces are required.

- 75 x 10 Apollo
- 75 x 12 Apollo 5 block
- 55 x 54 x 12 Apollo 10 block

MATRIX

The Matrix Pack is an economical timber pack with good initial stiffness and relatively low ultimate stiffness. The configuration is such that the material is used efficiently and the performance is enhanced by the use of end grain blocks.

TIMBER COMPOSITE

The Timber Composite pack is designed for gully preservation. Very stable performance over large deformation. The pack accommodates both Quasi static and Dynamic loading. Minimum number of support units required for transport. Lowest cost installed pack with effective interlocking construction.

- 110 x 9cm Timber Composite
- 150 x 9cm Timber Composite

INDUSTRIAL

Pallet Timber

Timber for all applications in the pallet and crate industry. With the flexibility of the processing plant, timber can be produced to customer requirements should volumes warrant it. The main sizes are as follows:

- Thickness: 16 - 38 mm
- Width: 76 - 152 mm
- Length: 1.0 - 2.4 m

Timber for Furniture Industry

Wet clears are graded out and is available for customers who have their own drying facilities. Timber is produced with the drying over measure.

Dunnage

Dunnage is mainly produced for the industries where support for products during storage or transportation is required. A varying quality of dunnage is produced depending on the required application. It ranges from timber that has two faces on opposite sides of the logs to square sawn. The main sizes are:

- 70 x 70 mm
- 76 x 76 mm
- 76 x 102 mm

Lengths vary from 2.25 to 2.4 m

Scaffold Type Timber

Thicker timber for various applications is produced. These boards are gang nailed on both ends. Popular sizes are:

- 40 x 150 x 2250 mm
- 40 x 180 x 2400 mm
- 50 x 180 x 2400 mm
- 40 x 200 x 2400 mm
- 40 x 230 x 2400 mm
- 50 x 230 x 2400 mm



LUMBER

TimRite produce Wet-off-Saw (WOS) lumber for pallet and packaging industry and kiln dried (KD) lumber for the appearance grade industries. These industries include amongst others the furniture, door and moulding markets. Products are produced from *Eucalyptus grandis*, commonly known as "Saligna". This specie is classified as a hardwood and the lumber derived is durable. This is unlike pine which is classified as a softwood and mainly used in the construction industry for the manufacture of roof trusses.

Wet-Off-Saw (WOS) Products

Wet-Off-Saw, known as such as it is wet and sold as it comes from the saw. There is no universal standard for WOS lumber. It is however beneficial for both the producer and end user to adhere to a set of basic parameters. There are industry accepted rules for the grades produced in South Africa. TimRite grade the lumber according to three grades:

- A grade
- B grade
- Millrun

The main difference between A grade and B grade is the amount of wane allowed. TimRite also introduced a Millrun grade, which is not a grade per say, but an intermediate grade. This is a mixture of the two main grades in a certain ratio.



Kiln Dried (KD) Products

Lumber earmarked for kiln drying are air dried for a period of 15 weeks. The final drying occurs in three states of the art kilns. The period of drying varies according to the thickness of the lumber and can be anything from 5 to 20 days. Once dry the lumber is graded into mainly two grades:

- Clears (CLR) – the highest quality of lumber available. It is free from any defects and is predominantly used in the manufacture of solid wood furniture, doors and kitchen cupboards.
- Select (SEL) – small tight knots also known as furniture grade. In this grade TimRite combines the Selects and Semi-clears into one grade. This grade is used for furniture, flooring, shelving, laminated beams and decking. TimRite also offers short clear finger joint blanks in lengths of 300mm to 750mm.



EQUIPMENT

Quick Facts

- Established in 1990 in Westonaria with the ongoing object of solving the complex support problems of South Africa mines.
- Over 120 patents and trademarks have been registered by TimRite for the mining industry.
- Confidential 3rd party test work and safe data.
- All testing equipment is annually calibrated by a SANAS (South African National Accreditation).

Conference Facilities

- Conference room for up to 30 delegates
- Modern presentation equipment available
- Internal and external display areas
- Entertainment / catering amenities available
- Secure environment with ample parking

Technical Services

- Performance specifications for all products
- Risk Assessments on all products
- Product training and demonstrations
- Installation videos and posters
- Technical papers



PRESS CONTROL ROOM



SAFETY NET TESTING FACILITY



LOG FURNACE



BUILDING ENTRANCE



10MN QUASI STATIC HYDRAULIC PRESS

Daylight opening	1.7 m
Platen dimensions	1.6 x 1.2 m
Load Capacity	10 MN
Displacement rate	1mm / day 60mm/minute
Presentation	Graphical load and displacement data capture
Products tested	Packs, Elongates and Hydraulic Props

1500KN ELONGATE PRESS

DYNAMIC TESTING APPARATUS



Daylight opening	13 m
Platen dimensions	0.5 x 0.5 m
Load Capacity	1500 kN
Displacement rate	1 - 100

DYNAMIC TESTING APPARATUS

Daylight opening	1.2 m
Platen dimensions	displacement data capture 1.1 x 1.1 m
Load Capacity	16t mass block / 32kJ
Displacement rate	Elongates and Up to 6m / second
Presentation	Sampling rate 1000Hz Load & Deformation Measurements
Products tested	Packs, Elongates and Hydraulic Props

400KN HYDRAULIC PRESS



Daylight opening	0.3 m
Platen dimensions	0.3 x 0.3 m
Load Capacity	400kN
Displacement rate	0 - 0.3m / minute
Presentation	Sampling rate 1000Hz Load & Deformation Measurements
Products	Timber, Composite Blocks and Concrete Cube

Services

MINE YARD MANAGEMENT

THIS ON-SITE SERVICE OFFERS THE CUSTOMERS:

- Trained staff and handling equipment to off-load and load products
- Stock Management (rotation to reduce wastage, minimum stock levels, quality control and administration).
- JIT deliveries alleviate the necessity of high stock levels and timber perishing.

CONFIDENTIAL 3RD PARTY PRODUCT TESTING:

The R&D facility with its unique testing equipment are accredited and accepted throughout the mining industry.

Confidential 3rd party test work and safe data.

All testing equipment is annually calibrated by a SANAS (South African National Accreditation System)

UNDERGROUND TRAINING:

TimRite provides underground instructors to assist with product training.

Certify through the miner's training department.

SUPPORTRITE:

SupportRite is a support optimization service that forecasts and tracks the use of underground support products, including conventional timber support.

The programme highlights areas of non-conformance against the relevant support standard.

Safety and wastage are the predominant areas of focus.

The SupportRite software can be customised to the mine's layout, product suite and mining standards.

This service is of benefit to operational and financial staff.

When required, TimRite can offer dedicated staff to implement and maintain the system.

WHERE TO FIND US

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SAFETY



INNOVATION



INTEGRITY



QUALITY



ACCOUNTABILITY



UBUNTU