

P & H Protective Plaster Systems (Pty) Ltd.

P.O. Box 11845
Aston Manor, 1630
41 Pomona Road
Pomona, Kempton Park

Co. Reg. No. 79/00510.07
www.phrocklite.co.za

Schützen, Was Wichtig Ist

Office: 011 979 3319
011 979 2301
011 396 2330
Fax: 011 979 2931



ROCKLITE® 'G' FIREPROOF PLASTER

ROCKLITE® is a revolutionary fireproof plaster system affording passive fire-protection.

The material composition of ROCKLITE® is a combination of grid work and lightweight plaster which can be molded into any design, thus affording complete flexibility in both interior and exterior applications. It is architecturally compatible and provides fire protection, but also acts as a decorative finish and as part of the design of the building.

ROCKLITE® is an extremely versatile material requiring no auxiliary structural features i.e. pumps, monitors, water pipes or detection systems. The entire system is a permanent fixture which needs only low maintenance.

ROCKLITE® is non-flammable and non-combustible. When exposed to flames, ROCKLITE® plaster emits a vapor which significantly counteracts the build-up of temperature in the plaster and shields the underlying structure.

ROCKLITE® is resistant to most chemical reaction and damage. Furthermore, ROCKLITE® plaster can withstand high pressure water hoses and are easily repaired in the event of fire damage.

ROCKLITE®, which offers fire protection at as little as 0,05% of the cost of investment it protects, has to date saved customers many millions of Rands.

In commercial applications, the cost of installing ROCKLITE® can be absorbed by incorporating the fire-protective plaster in the initial architectural design.

ROCKLITE® plasters guarantee optimum risk management and reduced insurance premiums.

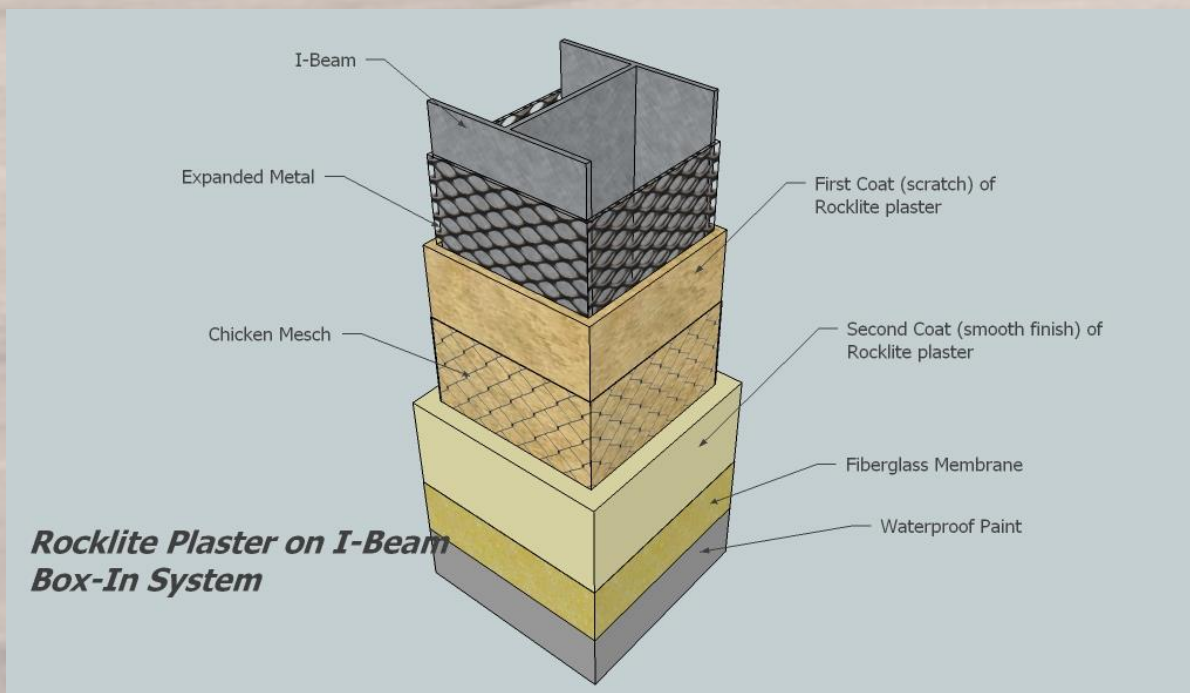
Soon after it was invented, ROCKLITE® was patented and since then, has undergone substantial improvements. It currently enjoys market-leader status in quality fireproof materials world-wide.

The ROCKLITE® product range includes fire-protection panels, plaster and retardant coatings for applications in: columns and beams; steel structures; ceilings and fascia's; horizontal and vertical cable

and pipe penetrations in walls and floors; air-conditioning ducts and grills, boxing-in-systems, fire shields; transformer screens; removable valve boxes; tanks and vessels used for flammable and combustible liquids and gases.

Because of its lightweight properties, additional applications for ROCKLITE® have been developed over a period of time. These fabricated fire protective removable panels for use in thin wall (non-load bearing) construction, infill panels and fire doors. These panels, which can be used in new or existing buildings, are quick and easy to install.

The ROCKLITE® system is based on 0,4mm RIBLATH® expanded metal together with ROCKLITE® plaster, the thickness of which is determined by the projected intensity of the potential fire. Certificates for comprehensive carbon and hydro carbon fire tests across the full spectrum of applications for ROCKLITE® reflect a passive fire protection far above the established norm in South Africa.



P&H Rocklite 'GC' 2 Hour Fireproof Ceiling,
Bottom View of Rocklite 'G' Plaster and Riblath Sheet.



P&H Rocklite 'GC' 2 Hour Fireproof Ceiling,
Top View of Rocklite 'G' Plaster and Riblath Sheet.



P&H Rocklite 'GC' 2 Hour Fireproof Ceiling,
Finished Product.



P & H Protective Plaster Systems (PTY) Ltd.



Office: (011) 979 3319 / 979 2301 / 396 2330/1
Fax: (011) 979 2931 / 396 2331
E-mail: phrocklite@worldonline.co.za

SABS FIRE RESISTANT TEST ON 2-HR FIRE RATED CEILING

The company P&H Protective Plaster Systems (Pty) Ltd, manufacturers of Class B fire doors and fire proof plasters, have successfully tested a 2-hr fire rated ceiling at the SABS in Pretoria. The ceiling size was 4.4 mx 3.3 m.

The new product "Rocklite GC" was determined in accordance with SANS 10177:Part 2-1981 "Fire Resistant Test for Building Elements".

Ceiling Construction

Timber joists were secured at 600 mm centres across the width of the furnace. Expanded steel mesh sections were screwed to the underside of the joists by means of drywall screws at 100 mm centres and tied together at the joint between the sections by means of wire ties. The mesh was plastered in two layers of approximately 25 mm from the underside of the ceiling with "Rocklite GC".



Criteria	Time of Failure (minutes)	Failure
Stability	180	No failure occurred
Integrity	180	No failure occurred
Insulation	164	No failure occurred

"Rocklite GC" can be used to upgrade existing partitioning walls and ceilings in computer rooms and server rooms. In older multistory buildings which still have wooden floors, "Rocklite GC" can be applied underneath the wooden floor with a smooth finish. "Rocklite GC" can also be used as a fire barrier between factories as well as cable penetrations, cable slots and ceiling voids.

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For more information on any of our products or services, please feel free to contact us:

Bernd Jonischkeit (Director / General Manager):	082 893 0777	bernd@phrocklite.co.za
Rainer Jonischkeit (Director / Financial Manager):	082 886 5500	rainer@phrocklite.co.za
Sandie Jonischkeit (Sales / Technical / Buyer):	079 063 0889	sandie@phrocklite.co.za
Peter Jonischkeit (Technical):	082 893 0776	peter@phrocklite.co.za
Nicolas Jonischkeit (Safety Officer / Sales):	083 259 5126	nicolas@phrocklite.co.za
J.D. Herholdt (Sales Supply & Install):	072 476 5907	jd@phrocklite.co.za
Bernedene Esterhuizen (Buyer):	084 999 5792	bernedene@phrocklite.co.za

www.phrocklite.co.za