



# Certificate of Compliance

This certificate is issued for the following:

**ROCKINSUL BUILDING ROLLS AND ROCKINSUL RB SLABS**

**Prepared for:**

**Rockwool (India) Ltd  
4<sup>th</sup> Floor Block B  
Laxmi Cyber City  
Hyderabad, Andhra Pradesh  
India 500084**

FM Approvals Class: 4880

Approval Identification: 3046215      Approval Granted: 11/30/2012

Said Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

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to reduce property losses.*

A handwritten signature in dark ink, appearing to read "Cynthia E. Frank".

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Cynthia E. Frank.  
Assistant Vice President, Group Manager  
FM Approvals  
1151 Boston-Providence Turnpike  
Norwood, MA 02062



*Member of the FM Global Group*



**CERTIFICATE N° 419**  
**for the right to use the EUCEB Trademark**

In accordance with the Constitution of the European Certification Board for Mineral Wool Products (EUCEB), the Management Board certifies that

**Rockwool India Pvt, Ltd, - India**  
**Plant Silvassa**  
**Stone Wool TA-9**

has successfully passed EUCEB's recognition procedure (Appendix N° 419) for obtaining the registered Trademark certifying the conformity of fibres produced with the requirements of Note Q of the Regulation (EC) No 1272/2008 of the European Parliament and of the Council as currently in force.



Brussels, 11/10/2016

Mr. Aymon de Reydellet  
- President -

Mr. Jens Lyager  
- Chairman of the Quality Board -

The validity of this certificate can be checked on the EUCEB web-site or at the  
EUCEB Secretariat.

[www.euceb.org](http://www.euceb.org)





## APPENDIX N° 419

The Quality Board has received for the subject:

**Initial Application for the right to use the Trademark**

from the company

**Rockwool India Pvt, Ltd, - India**

**Plant Silvassa**

**Stone Wool TA-9**

the following documents:

- Legal Undertaking of 01/08/2016
- Manufacturers Declaration of 01/08/2016
- Certificate of exoneration of the short term biopersistence test presented for Stone Wool TA-9 of 20/03/2001
- Report from Fraunhofer ITEM of the short term biopersistence test No 02G00027 of 01/06/2001
- Confirmation of the External Expert – Biopersistence Testing that Stone Wool TA-9 complies with EUCEB-exoneration criteria of 10/12/2001
- Report of Analysis Institute on initial conformity inspection No 160905089-1 of 23/09/2016
- Confirmation of the External Expert – Chemical Analysis that initial conformity inspection complies with EUCEB range of exonerated Stone Wool TA-9 of 11/10/2016

Examination for completeness and accuracy of the documents presented has revealed, that the requirements are complied with and that thus the right to use the EUCEB Trademark may be granted to Rockwool India Pvt, Ltd, - India, plant Silvassa

Brussels, 11/10/2016

- Mr. Jens Lyager -  
Chairman, Quality Board

- Mr. Stephen J. Williams -  
Vice Chairman, Quality Board

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EUCEB Secretariat.

[www.euceb.org](http://www.euceb.org)

## Reference Projects for ROCKINSUL in Singapore

1C Sakra Ave ( Evonik @ Jurong Island )

Apple HQ At Ang Mo Kio Hub - GALILEO Project

Asia Square Tower @ Marina Bay

ASME Technology

Auditorium @ SP (Gate 8)

Beatty Secondary School @ No.1 Toa Payoh North

Bendemeer Primary School

Boon Lay Community Centre

Bukit Panjang N5C13

Canberra & Yio Chu Kang Primary School

Centra Place @ 1 Hougang St.1

Changi Prison Complex

Chinatown Point

Dazhong Primary School @ Bukit Batok

DBS Showflat



Downtown Line Project

East Spring Primary School@ Tampines

GLYNOCBROURNE

Hamilton Scotts @ Orchard Road

ITE Central Ang Mo Kio

Lengkok Mariam 2

Light Industrial @ Lavendar St

Marina Bay Financial Centre Tower 3 (MBFC Tower 3)

Miri Malaysia Project

MOM Building @ Bendemeer Road

Mural Camp Upgrading

Nanyang Poly Technic

Nissim Hill Condo

No.151 bencoleen st ( NAFA CAMPUS 3 4<sup>th</sup> STOREY )

NTU Hall of Residence

NUS Block MD6



## Reference Projects for ROCKINSUL in Singapore



One North @ 3 Fusionopolis Link  
Pacnet Project , Paya Lebar  
River Safari Mandai Zoo  
Roche - Tuas Bay Link  
SAF Armour Centre  
Samsung GMR Energy Project - Jurong Island  
Scanning Station @ Brani Terminal Ave  
Scare Hotel @ Chin Swee Road  
Schenker  
Schenker Building @ Changi  
School at Woodlands Crescent  
Seacare Hotel @ Chin Swee Road  
Seletar Hanger Project  
Sengkang Primary School  
Sg Poly ( Blk ) 1 @ Dover Road  
Singapore American School  
Singapore Polytechnic Block 1  
SIP Denki Project

Space @ Kovan  
SUTD Campus @ Changi  
Tampines Substation  
Tan Tock Seng Hospital  
Tannery @ Choa Chu Kang Road  
Temp Holding Building @ NTU  
The Heeren  
The Signature Building @ Changi Business Park  
TUAS DEPOT C1685  
Tuas Mega Shipyard  
Tuas Naval Base  
Tuas South Boulevard Mega Yard Store  
Tuas West C1685  
UPS Hotel @ Upper Pickering Street (Park Royal Hotel)  
Westgate @ Jurong East  
Yio Chu Kang Primary School  
Yishun Polyclinic  
Yishun Ring Road (Lup G98) Blk 326



## Reference Projects for ROCKINSUL in Singapore

1 Marina Boulevard (NTUC Centre)  
211 Temp Sports Facility @ Sin Ming ave  
25 International Business Park. German Centre  
30 Princep House NTUC  
442 Orchard Road/ 1183 Orchard Hotel Shopping  
9 Bouna Vista Road  
Ai Tong School @ Lorong Bright Hill Drive  
Aims AMP Capital @ 103 Defu lane  
Anchorvale Centre @ Fermvale Street  
Asai Square Tower 2  
Asperia Bldng @ 8. 10 Kallang Road  
Assumption English School  
AXA Tower Level 50 - R10  
AZ Building @ Paya Lebar Rd  
Bay Condo @ upper serangoon  
Big Box Warehouse @ Jurong East St.  
Blk 531A #04-100 Upper Cross street  
Bosten Scientific tower 2. 8th Storey Metropolis  
Complex  
Boston Scientific  
Bottle Tree Condo @ Lorong Chencharu  
Bottle Tree Condo @ Lorong Chencharu  
Brani Terminal Avenue  
Buckey Classique @ Buckley road  
Canberra Condominium @ Sembawang



Canberra Secondary School  
Capita green @ Market Street Level 6 & 7  
Capital Hotel  
Capital Peninsula Plaza  
CAPITOL Building  
CGS Church @ Queen Street  
Chai Chee Sec. school @5 sennett Road  
Changi Business Park  
Chao chu kang Community Club  
Chevron House @ 30 Raffles Place  
Chevron House @ Raffles Place  
Chiangi Prison Complex  
CHIJ Primary School @ Toa Payoh  
China Culture Centre @ Waterloo Street

## Reference Projects for ROCKINSUL in Singapore

Cleantech Park 2 @ Nanyang Ave  
Compassvale School  
Condominium Housing @ Punggol walk  
DBS Tower 2  
DHL Logistics Hub @ Changi  
Dritrade @ New Industrial Road



Eco Sanctuary @ Chestnut Avenue  
Eng wah Cinema @ Clementi Ave 3  
Evonik @ Jurong Island  
Farrer Park MRT Station  
Firmenich Lab J144  
Flamingo Valley at 480 Siglap Road  
Fuji Oil R & D @ Science Park Road  
Geylang methodist Primary School  
Grant Hyatt Hotel @ Loading bay  
Great World City @ Kim seng Road  
Haite @ Changi Business park  
Halcim Technology Gate way  
Hansapoint @ CBP level 2

Haw Par Technocentre @ 401 Commonwealth Dr.  
Heron  
Hillsta Condominium @ CCK  
Hotel @ Hamilton Road  
Huawei Headquarters @ Science Park 2  
Hwa Chong International School  
Ice World @ Kallang Leisure Park  
Insead Phase 3 @ 1 Ayer Rajah avenue  
J.cube @ Jurong East  
Jurong Gateway  
Kallang Leisure Park  
Korean Church @ Gangsa Road  
Kovan Regency @ Kovan Rise



## Reference Projects for ROCKINSUL in Singapore

Lakeside Primary School  
Light Industrial @ lavender Street  
LKC School of Medicine  
Marina Bay Financial Centre  
Marina East Water venture ( Linkway)  
MAS Building @ Shenton Way  
Maybank Tower @ Shenton way  
ME5 Evonik Project @ Jurong Island  
MEDIACORP Complex @ Media HUB  
Metro @ Centerpoint  
Metropolis @ Bouna Vista  
Metropolis Tower (Shell Tower) @ North Bouna Vista  
Metropolis Tower 2 Mc Donalds @ 11 Bouna vista  
Millena Tower  
MOE @ Ghim Moh Rd  
Mount Alvernia Hospital @ Thomson  
MTU Asia Headquarters  
N6C10 Bukit Panjang  
NAFA Campus  
Nanyang Ave Cleantech Park 2,  
Nanyang Poly @ AMK  
National Art Gallery  
Nautical @ Jalan Sendudok  
Nee Soon Camp  
Nepal Park  
Ng Teng Fong Hospital  
No. 100 Street, The Treasury  
NOL @Metropolis  
Northland Pri.school  
NTU - Hall of Residence 5 & Hall Office in NTU  
NTU Learning Hub @ Nanyang Ave  
NTU SPMS N2.1  
Nus @ Create way  
Ocean Financial Centre level 33  
Old Chang kee Building @ 2 & 4 Woodlands terrace  
Old Parliament House  
Orchard Tower (Orchard Ktv)  
ORQ Building @ Raffles quay





## Reference Projects for ROCKINSUL in Singapore

Palms Residences @ Sixth Avenue  
Phase 6 to USS Attraction 2  
Poi Ching School @ 21 Tampines street 71  
PRIMZ Bizhub @ Woodlands  
Raffles @ Seletar Aerospace Park  
Raffles Boulevard marina Square  
Ren Ci Hospital 2 Tan tock Seng (Blk 51, 507 & 512)  
Resorts world Hotel Micheal  
Robinson Point  
SATS Inflight Catering Center @ Changi North Crescent  
Sengkang Secondary School  
Sentosa LUGE Park  
Sentosa Workshop @ Artillery Ave  
SGX Centre @ 2 Shenton way  
Shell Office @ Metropolis tower 1  
Singapore General Hospital Eye Centre  
Singapore Institute of management @ Clementi Road  
Singapore Turf Club  
Singpost @ Eunos  
Solvary Merlion  
Solvay Merlion (Jurong Island)  
ST.Anthonys Primary School  
Substation @ Simei Ave  
Sungei Gedong Camp  
Synapse Building @ 3 Biopolis drive  
Tannery Condo @ Choa Chu Kang  
The Herencia Condominium  
The Vista Project  
Tuas West C1685  
Twin Fountain Condominium  
Twin Waterfall Condominium  
UE Square @ 81A Clemenceau Avenue  
Valley Point Shopping Centre @ 491 River valley Road  
Whampoa Road- Bus Station  
Whitney Residences  
Woodlands Bus Interchange  
Woodlands Office Fitout Asia Square  
Woodsgrove Primary School  
Yew Tee CC  
Yu Hua Primary School



## Reference Projects for ROCKINSUL in Singapore

Google office @ mapletree business city ii  
Hewlett Packard (hp) sea headquarters @ depot road  
Virgin active @ guocco tower  
Schneider sea headquarters @ kallang wa  
JTC space tuas  
Swisshotel upgrading 300 rooms @ raffles city  
Raffles hotel renewal & upgrading  
Raffles hospital extension @ bugis



Woodlands Police Headquarters  
Northpoint Shopping Mall ( A&A )  
Glaxosmithklein SEA Headquarters @Buona Vista  
Singapore German School  
Changi Airport Cargo Complex Terminal 4  
CITIBANK @ Changi Business Park  
Parkway Parade Shopping Centre Upgrading  
PWC Office @Marina One





## Technical Data Sheet



### ROCKINSUL ROCKWOOL RB SLAB – 60 kg/m<sup>3</sup>

- |  |   |
|--|---|
| 1) Material Composition:                               | Stone wool board insulation composed of rock fibers processed from the molten state into fibrous form and bonded with binder.<br><b>Free from asbestos.</b> |
| 2) Nominal Density:                                    | 60 kg/m <sup>3</sup>  |
| 3) Facing:   | Unfaced; faced with Aluminium foil facing (FSK), Black Glass Tissue (BGT), ALG foil   |
| 4) Dimension   |   |
| (a) Length:  | 1.0 m or as per requirement from 0.6m to 1.2m   |
| (b) Width:   | 0.6m  |
| (c) Thickness:   | 25-150 mm (Tolerances: -3mm; +6mm)  |
| 5) Thermal Conductivity at 25 °C<br>mean temperature : | 0.034 W/m.K   |
| 6) Linear Shrinkage:                                   | Less than 2 %   |
| 7) Water vapor absorption:                             | Less than 1 % by volume   |
| 8) Surface Burning Characteristics                     |   |
| (a) Flame Spread index:                                | ≤ 25  |
| (b) Smoke developed index:                             | ≤ 50  |
| 9) Combustibility of unfaced slab                      | Non-Combustible; A1 when tested as per EN 13501   |
| 10) Odor Emission:                                     | No detectable odor of objectionable nature was observed   |
| 11) Corrosiveness to Steel:                            | No Corrosion  |
| 12) Rigidity:  | Soft to Rigid   |
| 13) Fungi Resistance:                                  | Do not promote fungi growth   |
| 14) Non-fibrous Content:                               | Less than 25 %  |
| 15) Stress Corrosion to Austenitic Stainless Steel:    | No Cracking observed; pH - 7 to 10  |

**Standard Compliance:** ASTM C 612

*All information and data mentioned in this technical data sheet are based on tests performed in the Laboratory.  
Nothing herein to be construed as a warranty or representation and we recommend, however,  
all potential users of the product make their own actual tests prior to using it on industrial scale –*