

ECOWOOL® Brownie V2 RigiSlab

ECOWOOL® BROWNIE V2 RigiSlab, the environmentally friendly range of ECOWOOL® glass mineral wool insulation, manufactured by PGF Insulation is made for fire safety, thermal and acoustic insulation application, it is manufactured using up to 80% of recycled glass and incorporates the new SensiTouch Technology, featuring an improvised version of the binding technology of ECOWOOL® BROWNIE V2. The glass mineral wool insulation blanket range covers multiple densities, thicknesses and dimensions to suit typical construction applications and to fulfil a broad spectrum of building requirements.

Once installed, ECOWOOL® BROWNIE V2 RigiSlab acts as a highly effective barrier to heat flow, keeping your building warm during cold weather and cool during hot weather. It combines cost efficiency with the highest standard of insulation performance when installed in either timber or steel frame dry wall system applications.

SensiTouch TECHNOLOGY

Ultra low VOC (volatile organic compound) emission. Innovative new binding technology that incorporates a natural anti-formaldehyde ingredient and is ultra low in VOC. Compliant with Singapore Green Building Council (SGBC) and Environmental Choice TVOC and Formaldehyde emission criteria. Tested in accordance with ASTM D 5116.

Firm product for an ease of installation. Exceptional stiffness and recovery characteristics, making it a preferred choice for the insulation installers out there.

Soft touch less itch. New binder formula with improvised manufacturing technology that produces skin-friendly fibres to minimize allergic reaction during product handling and installation.



APPLICATION

Application focused, ECOWOOL® BROWNIE V2 RigiSlab is designed specifically for press-fit installation without the need for stapling or fastening. It can be fitted between timber or steel studs in a wall cavity and ceiling system applications. It can resist vibration or shakedown and can be fitted readily around uneven surfaces.

FEATURES AND BENEFITS

Improves indoor air quality. SensiTouch technology incorporate with natural anti-formaldehyde binder reduces the overall formaldehyde expose. Satisfying the growing indoor air quality (IAQ) needs.

Optimal fibre diameter. Optimal fibre diameter ranging from 4-5 micron produces more air chamber which enables the insulation to provide a better and enhanced performance.

Sustainable product. PGF Insulation uses no ozone depleting products (ODP) in manufacture and has low volatile organic compounds (VOCs) content.

Better fibre network. Fine, longer and evenly distributed fibre network helps in creating better tensile strength allowing the insulation to demonstrate superior durability, flexibility that feels much softer.



Brownie

Absorbs disturbing sound. Exceptional sound-absorbing properties. Designed to reduce transmission of unwanted noise, ECOWOOL® BROWNIE V2 RigiSlab is ideal for drywall partition systems for rooms and offices in residential, commercial and industrial buildings. Tested in accordance with ASTM E90-90a. Please contact PGF insulation sales representative for more information on the transmission loss for dry wall system.

Individual volatile organic compounds (VOCS) emission. ECOWOOL® BROWNIE V2 RigiSlab is safe to use due to the low VOC content. Tested in accordance with ASTM D 5116. Please contact PGF insulation sales representative for more information.

Non-corrosive. Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition. Tested in accordance with ASTM C665-12.

Mould-free. Does not encourage growth of mould, fungus or bacteria. Tested in accordance with ASTM C1338-14.

Low water vapour absorption. Absorbs <0.2% by volume. Tested in accordance with ASTM C1104.

Zero odour emission. Does not emit any unpleasant odour. Tested in accordance with ASTM C1304.

Alkalinity. pH 9.

Hypoallergenic. Unlikely to cause an allergic reaction.

Maximum service temperature. Manufactured to withstand temperatures of up to 450°C. Tested in accordance with ASTM C411-17 & ASTM C447-15.

CERTIFICATIONS

MS1020:2010 certified. ECOWOOL® BROWNIE V2 RigiSlab is MS1020:2010 compliant product. The certification is accredited by SIRIM QAS.

CIDB certified. ECOWOOL® BROWNIE V2 RigiSlab is certified by CIDB according to CIDB Act 520. Please contact PGF Insulation representative for further information.

PERFORMANCE

Fire safety properties. Tested in accordance with:

- BOMBA Class "O"
- B.S. 476: Part 4 Non-combustibility
- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame
- ASTM E84

Thermal Conductivity. Tested and complies with ASTM C518 at 20°C mean temperature. Please refer to the below table for more information on the thermal resistance values.

Type	Density (kg/m ³)	K-Value (W/m K)	R-Value (m ² K/W)
ECOWOOL® BROWNIE V2 RigiSlab	20	0.0348	1.40

Acoustical performance. Not only an effective thermal insulation, ECOWOOL® BROWNIE V2 RigiSlab acts as a natural and effective sound barrier. ECOWOOL® BROWNIE V2 RigiSlab is amongst the most effective acoustic insulation solutions when sound proofing is required. Refer to the below table for the sound absorption coefficient values.

Please contact PGF insulation sales representative for more information on the transmission loss for metal deck roof system.

Type	Center Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
ECOWOOL® BROWNIE RigiSlab	0.37	0.63	1.13	1.11	1.03	1.03	1.00

ECOWOOL® BROWNIE V2 RigiSlab is ideal for drywall partition. Please contact PGF insulation sales representative for more information on the transmission loss for dry wall system.

Dry wall partition system – Plaster board

Plaster board Thickness (mm)	Number of Layers	Stud Size (mm)	Overall System Width (mm)	Acoustic Performance (STC)
12	1	64	88	41*
16	1	64	96	44*
19	1	64	102	45**

Note: * Predicted acoustic performance ** Tested acoustic performance

Dry wall partition system – Cement board

Cement board Thickness (mm)	Number of Layers	Stud Size (mm)	Overall System Width (mm)	Acoustic Performance (STC)
6	1	64	76	39*
9	1	64	82	46*
12	1	64	88	51*

Note: * Predicted acoustic performance

PRODUCT AVAILABILITY

Type	Density (kg/m ³)	Thickness (mm)	Width (m)	Length (m)
ECOWOOL® BROWNIE V2 RigiSlab	20	50	0.6	1.2

SGBLS ASSESSED

ECOWOOL® BROWNIE V2 RigiSlab is assessed according to the evaluation criteria of Singapore Green Buildings Product Labeling Scheme.



AVAILABLE FORM

Unfaced or Plain - designed for predictable thermal insulation performance with the added benefit of being an effective sound absorption material.

Customised product is available subject to minimum order quantity. Please contact PGF Insulation representative for more information.

SHORT FORM SPECIFICATION

Insulation material shown on drawings or specified herein shall be of approved, ECOWOOL® BROWNIE V2 RigiSlab glass mineral wool insulation 50mm thick.

ECOWOOL® BROWNIE V2 RigiSlab glass mineral wool insulation shall be certified to MS1020:2010. The insulation material shall be non-combustible, tested and complies with BS 476 : Part 4 :1970.

WARRANTY

This product is covered by a 70 years product warranty.

For Unfaced or Plain Product only.

For full details, please go to www.ecowool.com.my

* Terms & conditions apply.



Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of the glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information.