

TECHNICAL DATA SHEET



Chi-Gasket® 021

Product Description

Chi-Gasket® is a patented (GB 2541513) component system allowing rain screen installations to benefit from the low thermal conductivity values associated with aerogel insulants (synthetic amorphous silica) to reduce thermal bridging within the design.

The gasket is held within a cage clipped directly to the Nvelope bracket isolator meaning application is as simple as fitting standard rain screen bracketry.

Features and Benefits

Chi-Gasket®

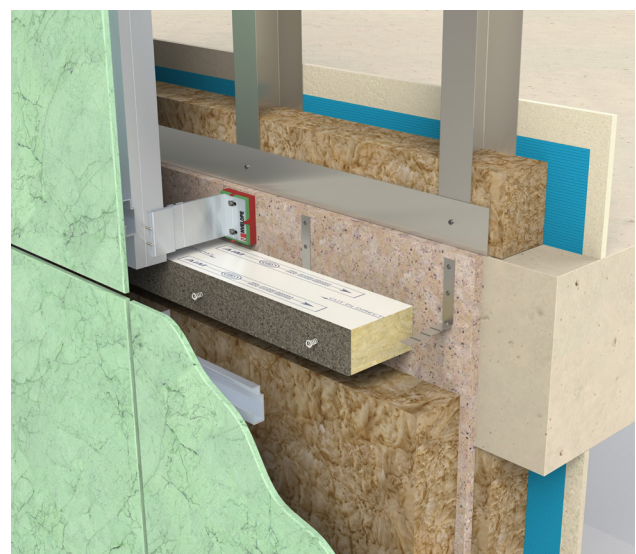
- provides an enhanced thermal barrier between the external cladding and inner components of the assembly positioned closest to the building external wall.
- offers superior thermal performance at reduced profile thickness compared to other insulation solutions.

The Insulant

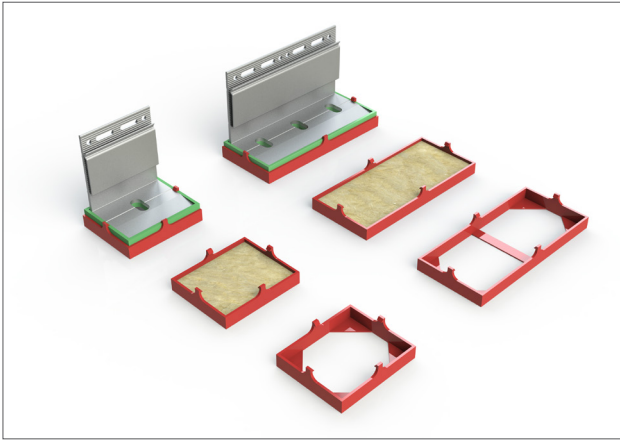
- is hydrophobic repelling liquid water.
- is breathable allowing vapour to pass through helping to control corrosion under insulation.

Technical Data

Chi-Gasket®	Specification/ Method	Value/ Result
Reaction to fire (cage)		Small gasket exclusion
Hygrothermal performance	ETAG 004 2013 • Heat Rain 80 cycles • Heat Cold 5 cycles	No visual deterioration observed
Wind Load Testing	Section 11 CWCT standard	No detracton to serviceability
Wind safety	Section 12 CWCT standard	Factor 1.5 x service load



Insulant	Specification/ Method	Value/ Result
Thickness		10mm
Colour		Maroon
Density		180 Kg/m ³
Thermal conductivity	ISO 8301:1991 / BS EN 12667:2001	0.021 W/mK
Thermal resistance	ISO 8301:1991 / BS EN 12667:2001	0.494 m ² K/W
Reaction to fire	BS 476-6:1989 & BS 476-7:1997/ EN 13501-1:2007	Class 0 / B-s1,d0



Red Chi-Gasket for use with Nvelope bracketry

Instructions for use

- Keep in original packaging in a dry well ventilated area until ready for use.
- Open packaging in the immediate work area to minimise any potential dust generation.
- Aerogel insulants being hydrophobic are not suited to water dust suppression techniques.
- Dusts should ideally be controlled by local exhaust ventilation.
- Cleaning of dusts from using the product is best achieved by dry vacuum with HEPA filter.
- Any waste from damaged gaskets should be collected in to sealable disposal bags.

Applicable Patent

Great Britain No. GB 2541513

Health and Safety considerations

Aerogel insulants are hydrophobic and may release dusts during installation. These dusts may cause temporary drying and irritation of the skin, eyes and mucous membranes.

If inhaled dusts may cause temporary upper respiratory tract irritation.

First Aid measures

Inhalation

Remove to fresh air. Allow conscious casualty to drink water to clear throat, and blow nose.

Eyes

Do not rub as this may cause abrasive injury. Immediately flush with water.

Skin

Wash skin with soap and water.

Ingestion

No adverse effects anticipated from incidental ingestion.

If irritation of skin, eyes or respiratory tract persists seek medical attention.

Control

EH40 UK Workplace Exposure Limits dusts:
10 mg/m³ TWA (inhalable) 4 mg/m³ TWA (respirable)

Personal Protective measures

Respiratory

Where natural ventilation fails to control dust levels an FFP3 dust mask to EN 149 is recommended.

Hand

Impervious gloves to EN 374 are recommended.

Skin

Long-sleeved and long-legged work clothing is advised.

Eye

Safety glasses with side shield or where extremely dusty goggles to EN 166 are recommended.

CHIGASKET ®
reduces thermal bridging

For further information
please contact our technical/sales team

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www.sigpt.co.uk/chigasket

IMPORTANT: Directions for use are given for guidance only and are not intended to form part of any contract. They should be varied or adapted to suit your particular materials or conditions of use. Goods supplied by the company are made to approved standards from the highest quality raw materials but no warranty or guarantee is given as to their suitability for any particular purpose or application, and no liability is accepted for any loss or damage arising directly or indirectly from the use of the Company's products irrespective of any information given to us as to intended use of such products. It is therefore recommended that prospective users should test a sample of this product under their own conditions to satisfy themselves that the product is suitable for the purpose intended.


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