

Non-combustible NZ-made glasswool pipe sections. Group 1-S plain & foil-faced, 2–450°C services.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



AccuThermax™ confirms that this minimum level of assurance has been met or exceeded by the following:

Accumen Shapes Ltd

[BPIR Declaration — AccuThermax™ Fibreglass PPS \(Building \(BPIR\) Regulations 2022; incl. s26 statement - Rev 1.0, July 2026\)](#)



The following information has been provided by AccuThermax™ demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 1

Product Description

AccuThermax™ Fibreglass PPS is a preformed glasswool pipe insulation section, manufactured in New Zealand by Accumen Shapes Ltd from non-combustible inorganic glass fibres bonded with a thermosetting resin. Sections are supplied plain or foil-faced, with a lengthwise slit for fitting over installed pipework, and serve HVAC, hot and chilled water, steam and industrial process services in commercial and industrial buildings. Fire performance is independently established: CSIRO Certificates of Assessment No. 1851 (foil-faced) and No. 1852 (plain) classify the product Group 1-S to ISO 5660-1/-2 at 50 kW/m² under NZBC C/VM2 Appendix A, with the glasswool substrate deemed non-combustible to AS/NZS 1530.1:1994 (CSIRO FNC10853/FNC10854, cited in the Certificates). Declared early fire hazard indices to AS 1530.3 are 0/0/0/0-1. Service range is 2 to +450 deg C. Thermal conductivity is declared at 0.033 W/mK at 15 deg C mean to AS/NZS 4859.1 (ASTM C518 method); the full temperature curve and a declared R-value schedule by bore and wall thickness are published in the TDS and R-Value sheet. Chloride content below 2 ug/g (ppm) to ASTM C871 / BS 2972 (test reference SGS G706/95) supports use on stainless steel pipework, subject to service conditions, moisture exposure and the complete insulation system design. Manufactured and stocked in Auckland - the only locally manufactured glasswool pipe section - in sizes to ASTM C585 for steel (BS 3600) and copper (NZS 3501) pipework; standard length 1000 mm, wall thicknesses 19-63 mm standard, greater on request. TDS, R-value schedule, SDS and BPIR are available at accumen.co.nz; test reports and Certificates of Assessment are available to BCAs and specifiers on request, complete and unaltered.

Scope of use

AccuThermax™ Fibreglass PPS is intended for thermal insulation of pipework in building services, HVAC, industrial process and commercial plant applications: chilled water, hot water, heating, steam, refrigeration and process lines operating between 2°C and +450°C. It suits mild steel, carbon steel and stainless steel pipework, copper pipework to NZS 3501 and steel pipework to BS 3600, in new-build and retrofit installations. Plain sections suit concealed and jacketed services; foil-faced sections provide a vapour-check facing for chilled and dual-temperature duties and a Group 1-S finished surface where insulation is exposed within a building. Wall thickness is selected against the declared R-value schedule and the project thermal design. Limitations: AccuThermax™ Fibreglass PPS is not a structural product and provides no load-bearing function. It is not a fire-rated duct protection or passive fire-stopping system, and no fire resistance rating (FRR) is claimed. Sections must be kept dry in storage, installation and service; outdoors they must be clad in a weathertight jacket. On stainless steel pipework where moisture is likely, first wrap the pipe with aluminium foil as a sacrificial layer. Maximum recommended thickness at 450°C is 100 mm; raise plant temperature in stages of approximately 50°C per hour at commissioning. Install in accordance with Accumen's published installation guidance.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(b), B2.3.1(c)

B2 Durability — B2.3.1(b), not less than 15 years → Pathway: B2/AS1 — in-service history of glasswool pipe insulation as an established material (60+ years international service), kept dry and maintained per published guidance → Document: TDS v2 (Apr 2026) + BPIR Rev 1.0 (Jul



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2026, Maintenance Requirements & Durability statement) → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

B2 Durability — B2.3.1(c), not less than 5 years → Pathway: B2/AS1 — as above, for accessible, readily replaceable jacketed services elements → Document: TDS v2 (Apr 2026) + BPIR Rev 1.0 (Jul 2026) → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.4(a)

C3.4(a) → Pathway: C/VM2 Appendix A (A1.2/A1.3; A1.1(b) substrate mechanism) → Document: CSIRO Certificate of Assessment (foil-faced) → No. 1851 / report FNKI 10866 → Issued 17 Sep 2013 → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

C3.4(a) → Pathway: C/VM2 Appendix A (A1.2/A1.3) → Document: CSIRO Certificate of Assessment (plain) → No. 1852 / report FNKI 10867 → Issued 18 Sep 2013 → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

- **Clause F2 Hazardous building materials:** Performance F2.3.1

F2.3.1 → Pathway: product information / SDS → Document: SDS v1.0 → July 2026 → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

- **Clause H1 Energy efficiency** : Performance H1.3.4(a), H1.3.6(b)

H1 (services heat-loss clauses) → Pathway: H1 AS/VM at system level; product declared values to AS/NZS 4859.1 → Document: TDS v2 + R-Values v1 → April 2026 → URL: [accumen.co.nz product documentation page](http://accumen.co.nz/product/documentation/page)

Notes

B2: inert glasswool retains its performance for the life of the services system where kept dry and maintained; assessed against B2.3.1(b) for concealed services and B2.3.1(c) for accessible elements (TDS, installation and maintenance guidance). C3.4(a): Group 1-S internal surface finish in both plain and foil-faced form, established by CSIRO Certificates of Assessment 1851/1852 to ISO 5660-1/-2 under C/VM2 Appendix A; no FRR is claimed and the product is not a fire-rated duct or penetration system. F2: non-hazardous under HSNQ; fibres classified IARC Group 3 (not classifiable); asbestos-free; safe handling per SDS. H1: limits heat loss from hot water, heating and HVAC distribution pipework (declared λ 0.033 W/m·K at 15°C to AS/NZS 4859.1); the contribution is at product level. Compliance of the installed system rests with the design professional.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

NZBC C/VM2 Appendix A (A1.2/A1.3) - Group 1-S: CSIRO Certificate of Assessment No. 1851, foil-faced, issued 17 Sep 2013 (report FNKI 10866) and No. 1852, plain, issued 18 Sep 2013 (report FNKI 10867); ISO 5660-1/-2:2002 cone calorimeter at 50 kW/m²; foil-faced classification per the Clause A1.1(b) substrate mechanism. AS/NZS 1530.1:1994 - substrate deemed non-combustible (CSIRO FNC10853/FNC10854, 26 Sep 2013, cited within the Certificates). AS 1530.3 - declared early fire hazard indices 0/0/0-1. AS/NZS 4859.1 (ASTM C518 method) - thermal conductivity declared 0.033 W/mK at 15 deg C; declared R-value schedule (R-Values v1, Apr 2026). ASTM C871 / BS 2972 - chloride below 2 ug/g (test reference SGS G706/95). ASTM C585 - dimensions for steel (BS 3600) and copper (NZS 3501) pipework. B2: B2/AS1 established-material basis; TDS v2 (Apr 2026) durability, installation and maintenance provisions. F2: Safety Data Sheet v1.0 (Jul 2026). BPIR Rev 1.0 (Jul 2026), incl. s26 statement. Full test reports and Certificates of Assessment are available to BCAs and specifiers on request, complete and unaltered, under written authorisation.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



Accumen Shapes Ltd

[BPIR Declaration — AccuThermax™ Fibreglass PPS \(Building \(BPIR\) Regulations 2022; incl. s26 statement - Rev 1.0, July 2026\)](#)

Use in Service History

Glasswool preformed pipe insulation has more than 60 years of continuous international service across HVAC, marine and industrial pipework — the in-service history basis recognised by B2/AS1 for established materials. This product line carries its own independent test programme: cone calorimeter testing at CSIRO on 25 July 2013 with Certificates of Assessment 1851 and 1852 issued 17/18 September 2013 (Group 1-S, plain and foil-faced), substrate non-combustibility to AS/NZS 1530.1:1994 (CSIRO FNC10853/FNC10854), and chloride verification to ASTM C871 / BS 2972 (SGS reference G706/95). Thermal values are declared to AS/NZS 4859.1. AccuThermax™ Fibreglass PPS is manufactured and stocked in Auckland, with every production batch identified by batch number and production date and traceable through Accumen's shipment and order records.

Product Criteria

Design requirements

Single 80 kg/m³ density grade covers the full 2–450°C service range. Select wall thickness against the declared R-value schedule and the project thermal design; thickness recommendations by service

temperature and pipe diameter are available from Accumen Technical Services. Choose plain sections for concealed and jacketed services; choose foil-faced sections where a vapour-check facing is required for chilled or dual-temperature duties, or where a Group 1-S finished surface will remain exposed. For stainless steel pipework, the low verified chloride content (<2 µg/g to ASTM C871 / BS 2972) supports the application — where moisture is likely, first wrap the pipe with aluminium foil as a sacrificial layer, and address the complete system design. Exclusions: not structural; no FRR claimed; maximum recommended thickness at 450°C is 100 mm. Accumen Technical Services can review project-specific selections on request.

Installation requirements

Fit sections closed over the pipe with joints butted tight. Indoors, cover with foil laminate or clad with zinc-anneal or stainless jackets; protect sections from moisture and water at all times. Outdoors, clad in a weathertight jacket (zinc anneal, aluminium, stainless sheeting or mastic coatings) capable of preventing rain and water penetration. On stainless steel pipework where moisture is likely to be present, first wrap the pipe with aluminium foil to act as a sacrificial layer. At plant commissioning, reach maximum operating temperature in stages of approximately 50°C per hour; binder volatilisation above 180°C is expected on first heat-up — ventilate the area — and does not affect thermal performance. Cutting and handling generate fibrous dust: use approved eye protection, dust mask and gloves, and refer to the Safety Data Sheet. Store off the ground, dry and protected from weather. Consult Accumen Technical Services for project-specific guidance.

Maintenance requirements

AccuThermax™ Fibreglass PPS is an inert mineral insulation with no moving parts and no in-service consumables; maintenance centres on keeping it dry and mechanically protected. Inspect insulation, jacketing and vapour protection annually and after any adjacent building or services work, checking for mechanical damage, open joints and water ingress; repair promptly. Maintain the weathertightness of outdoor jacketing and reseal joints as required. Replace water-damaged or saturated sections — wet glasswool must not be left in service. The insulation surface is not trafficable and must not be stood on or used to support loads. Where selected, installed, kept dry and maintained in accordance with the BPIR and Accumen's published documentation, the product is expected to remain serviceable for the life of the building-services system it insulates, supporting assessment against B2.3.1.

Warrantees

Accumen Shapes Ltd provides a product warranty in respect of the supply only (not installation) of AccuThermax™ Fibreglass PPS, ex-factory. The warranty is limited to the quality of the goods supplied and operates alongside the Consumer Guarantees Act 1993 and the Sale of Goods Act where applicable; nothing in the warranty limits statutory rights. Warranty conditions: the product must be selected, installed, kept dry and maintained in accordance with Accumen's published documentation (BPIR, TDS, installation and maintenance guidance). Exclusions: installation workmanship, damage occurring after delivery, water damage in storage or service, and use outside the published scope of use. Every unit is batch-identified with a production date, and batch-to-shipment records held by Accumen support any warranty claim. Full warranty terms are available at accumen.co.nz or on request from info@accumen.co.nz.

Company Product Information

Environmental

AccuThermax™ Fibreglass PPS is an inorganic glass-fibre insulation bonded with a cured thermosetting resin. The material is inert and insoluble, contains no asbestos, and the glasswool substrate is deemed non-combustible to AS/NZS 1530.1:1994 (CSIRO FNC10853/FNC10854, cited in Certificates of Assessment 1851/1852). The product is not classified as hazardous under HSNO, and its fibres are classified IARC Group 3 (not classifiable as to carcinogenicity to humans). As a fibrous insulation it contains no blowing agents and has zero ozone depletion potential. In service, the product reduces energy losses from heated and cooled pipework for the life of the system, typically repaying its manufacturing energy many times over. Offcuts and end-of-life material may be disposed of as inert construction waste in accordance with the Safety Data Sheet (Section 13) and local authority requirements; packaging should be recycled where facilities exist.

Relationships



New Zealand Made

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Accumen Shapes Ltd

Business Email:

info@accumen.co.nz

Company Website:

www.accumen.co.nz

AccuThermax™ Fibreglass PPS

Product Technical Statement: 115447



Contact Number/s:

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Product Identifier

CLASS 1 DESIGNATED BUILDING PRODUCT, BATCH-IDENTIFIED. EACH UNIT IS IDENTIFIED BY THE PRODUCT LABEL NAME — E.G. “ACCUTHERMAX™ FIBREGLASS PPS — 50NB × 25 MM × 1000 MM, PLAIN” — TOGETHER WITH A BATCH NUMBER AND PRODUCTION DATE PRINTED ON EVERY UNIT LABEL. BATCH-TO-SHIPMENT AND PURCHASE-ORDER RECORDS ARE HELD BY ACCUMEN SHAPES LTD, PROVIDING TRACEABILITY FROM ANY INSTALLED BATCH BACK TO PRODUCTION. THE IDENTIFIER APPEARS ON PRODUCT LABELS, DELIVERY DOCUMENTATION AND INVOICES. A FORMAL SKU SCHEME IS PENDING MYOB ALIGNMENT AND CODES ARE NOT YET PUBLISHED.

Warnings

This product has no warnings associated with it.



Date last validated: **28 July 2026**



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