



# Product Technical Statement



PTS # 2242

EXPIRY DATE: 31 Aug 2024

## Composite Insulation's Goldfoam XPS Boards



### Product

1.1 Goldfoam XPS from Composite Insulation Limited is a range of 10 to 120mm thick extruded polystyrene boards. The product is a high performance rigid foam board with high compressive strength and excellent insulation properties. Extruded polystyrene is especially useful in cavity walls, skillion roofs, and under concrete slab floors and foundation edge insulation.

1.2 The product can be used in all seismic and wind load zones.

1.3 Goldfoam XPS boards shall be installed in accordance with the scope and limitations described in this Product Technical Statement.

### New Zealand Building Regulations

2.1 In the opinion of BEAL, the Goldfoam XPS Boards, when designed, installed and maintained in accordance with the statements and conditions of this Product Technical Statement, will meet the following performance requirements of the New Zealand Building Code (NZBC):

**Performance Clause B2.3.1 (b)** Durability for at least 15 years

**Performance Clause E3.3.1** Adequate thermal resistance for temperature regulation

**Performance Clause F2.3.1** (Non) Hazardous building materials – The Goldfoam XPS boards meet this requirement and will not present a health hazard to people

**Performance Clause H1.3.1** Energy Efficiency (a contribution to the building's performance)

2.2 Goldfoam XPS Boards have been appraised as an Alternative Solution in terms of New Zealand Building Code Compliance.

2.3 This Product Technical Statement is in conformance with the requirements of SG14 of the Building Act 2004.

Applicant:



Composite Insulation Limited Assessed by: BEAL

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## Scope and Limitations

3.1 Goldfoam XPS Boards have been appraised for use as insulation boards, supplied in thicknesses of 10mm to 120mm and standard board size of 2,400mm x 900mm. The boards can be cut using standard box knives to any size or shape to suit the situation.

3.2 Goldfoam XPS Boards can be used as a high performing insulation product in buildings. The product is suitable for use in timber and steel stud frame applications and over building paper (underlays) where brick and stone veneer has been installed to prevent thermal bridging. The product can also be placed over battens for EIS systems where high compressive strength is a requirement. In blockwork or concrete walls, XPS can be placed between the battens where condensation isn't absorbed by the insulation.

3.3 Goldfoam XPS Boards must be installed by a suitably experienced and qualified LBP and installed in accordance with the manufacturer's technical literature.

3.4 Once installed, no maintenance should be required.

## Technical Literature

4.1 The Goldfoam XPS Board technical information is available from the Composite Insulation website: <https://www.composite-nz.co.nz/xps-extruded-polystyrene>

## Basis of this Assessment

### Assessments

5.1 The following assessments of the Goldfoam XPS Boards have been undertaken by BEAL:

- Review of the testing and technical data supplied by the manufacturer to ensure compliance with clauses B2.3.1 (b), E3.3.1, F2.3.1 and H1.3.1.

### In-service History

5.2 The product range has been in use in New Zealand for the past 30 years without failure.

### Quality

5.3 The manufacture of Goldfoam XPS is subject to a strict factory QA process.

### Maintenance

5.4 Building owners are responsible for the maintenance of the Goldfoam XPS – where it can be accessed – in accordance with the manufacturer's instructions and this Product Technical Statement.

Authorised signatory,



C R Prouse - Director

**BEAL** (Building Element Assessment Laboratory Limited)