

**Product Technical  
Statement**

Technoform Thermal Isolator Clip

## Product Technical Statement

### Technoform Thermal Isolator Clip

#### Company

Technoform Bautec Asia Pacific PTE. Ltd

#### Date of Issue Product

PTS Version 15 December 2021

#### Product Description

Technoform Thermal Isolator Clip TIC 100.01, TIC 075.01, TIC 050.01, U- Channel

#### Scope of Use

The Thermal Isolator Clip is a glass fibre reinforced polyamide and aluminium cladding attachment system. The Thermal Isolator Clip is designed for use as a thermal break component between the exterior cladding and structure of buildings. Typical use of the Thermal Isolator Clip is as a support system for a rail which a facade is attached to, and where external insulation is specified. The clip can be used with facade and cladding systems approved by Technoform NZ. When installed according to the manufacturers guidelines the clip will contribute to reducing the impact of thermal bridges, improving insulation, acoustics and reducing the risk of interstitial condensation and spread of flame in buildings.

#### Compliance with the New Zealand Building Code

Technoform has submitted product documentation and test data for independent engineering review Architectural Fire Research Group NZ. Testing was carried out where required to verify data contained in the documentation and found to satisfy the performance clauses of the New Zealand building code listed below. New Zealand Building Code clauses that are relevant to the intended use and with which the product complies or contributes to (where used as part of a system)

**B1 Structure** – B1.3.1, B1.3.2, B1.3.3 (a), (b), (c), (f), (g), (h), (j), (l), (m), (q), B1.3.4

**B2 Durability** – B2.3.1 (a), B2.3.2 (a)

**C1 Protection From Fire** – C/AS2 C1 3.1,3.2,3.3,3.5,3.7

**E2 External Moisture** – E 2.3.1 (contributes to), E2.3.2 (contributes to), E2.3.5 E2.3.7

**E3 Internal Moisture** – E3.3.1 (contributes to)

**F2 Hazardous Building Materials** – F2.3.1

**G6 Airborne and Impact Sound** – G6.3.1 (contributes to)

**H1 Energy Efficiency** – H1.3.1 (a), (b) (contributes to), H1.3.2E (contributes to)

## Conditions

The Thermal Isolator Clip is an engineered cladding attachment system that is mechanically fixed to a building structure. The Thermal Isolator Clip facilitates the connection of facades to the building structure providing a thermal break and allowing insulation of various thickness to be installed and not compromised by compression or multiple penetrations. The clips have been engineered for specific dead and live loads therefore no clip substitutions possible engineering the structural performance outputs.

The number of clips required for a given cladding type and wind exposure zone is based on multiple factors including fastener pull out resistance, substrate strength, fastener strength, span capacity of rail and cladding.

Manufacturer's guidelines and Technoform's technical information and guidance must be adhered to.

There can be no substitution of fastener without re-engineering the structural performance outputs.

Where any cladding system is specified, care must be taken to use the correct frequency of clips.

Proper support to the cladding system requires clip spacings to correlate with the span capacity of the cladding and support rail, other factors such as wind load may overrule the span capacity of the cladding and rail.

Various cladding support rail types can be used with the clips, provided they have been adequately tested and meet building code requirements for structure and durability.

Installation of the clip must be completed by suitably qualified tradespersons. Installation guidance and recommendations from Technoform must be adhered to.

No warranty will apply to poorly designed or installed systems.

### 1. Technoform Thermal Isolator clips are designed for use on buildings:

- a) Of specific structurally engineered designed in accordance with Verification Method B1/VM1, and
- b) non-specifically designed in accordance with NZS3604:2011, and
- c) located in any exposure zone as defined in NZS3604:2011

### 2. Technoform Thermal Isolator Clips TIC 100.01, TIC075.01, TIC050.01

- a) shall be used: only for the purpose for which each of them is designed and manufactured (as specified in the manufacturers technical information)

## Quality Assurance

Technoform has stringent quality assurance processes in place to monitor structural requirements by product type. Technoform Industries is independently third party audited and is certified under ISO 9001, 14001, 45001, 5001

## Environmental

Technoform holds an EcoVadis Gold 2021 rating for sustainability.

## Product Support

For product support and to download technical information please refer to our website:

[www.Technoform.co.nz](http://www.Technoform.co.nz) or contact us:

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525 Great South Road, Penrose  
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**Helpful links** [technoform.com/nz/clip](https://technoform.com/nz/clip)