

# **Thermal isolator clip installation guide**

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## Product use & description

Technoform thermal isolator clips are an economical, innovative system to attach virtually any cladding. This versatile, polyamide composite thermal spacer allows for easy, fast installation. Thermal isolator clips are engineered to have superior thermal insulation performance—better than any other system on the market:

- It has zero thermal short fasteners, and creates zero cold spots for condensation.
- It can attach to a variety of substrates, including cold formed steel framing, wood framing and masonry/concrete walls.

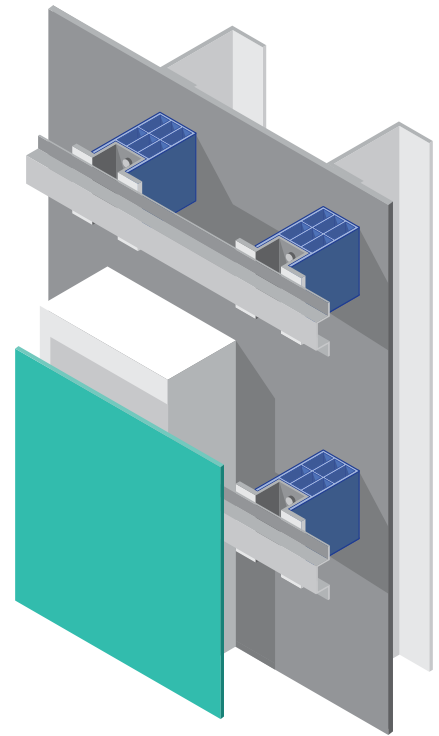
## Installing thermal isolator clips

Thermal isolator clips are available in a standard length of 4", and depths of 2", 3", 4", 5", 6" and 8".

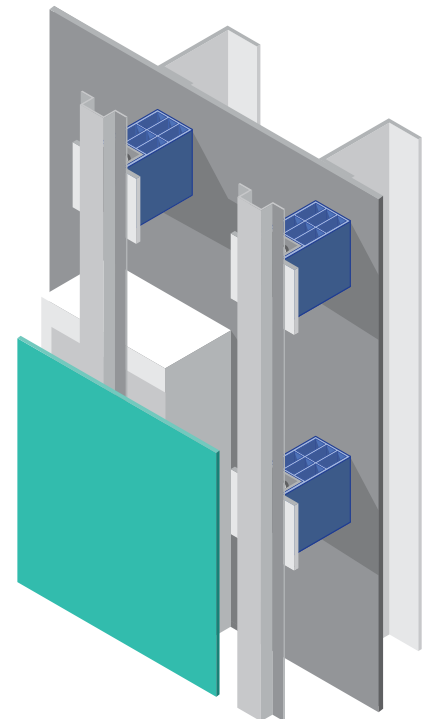
Thermal isolator clips are designed to be installed vertically, with horizontal metal sub-furring, over sheathed and/or masonry walls. Each clip has a maximum capacity of four square feet; exact spacing is determined by the type and size of insulation used and the material / scale of the final cladding.

The purpose of this guide with respect to design is to illustrate a general application of thermal isolator clips. Specific project applications should be completed and reviewed by a structural engineer. Technoform is available to assist with this process. Failure to follow these guidelines and proper construction procedures, including applicable federal, state and local ordinances, may result in unintended consequences related to system performance. Technoform cannot be liable for improper storage, usage or installation of our products.

Contact Technoform to discuss custom solutions, design limitations and appropriate loads and building conditions with which to utilize the thermal isolator clips.



ACM cladding, horizontal



ACM cladding, vertical

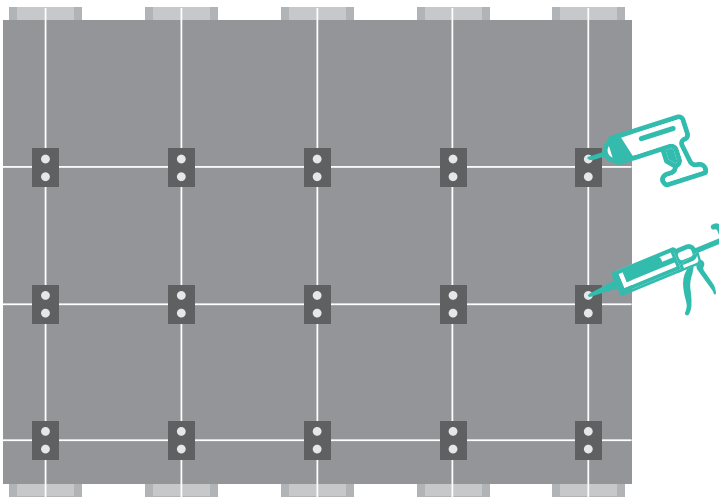
## Installation

### 3.2 Preparation

- A. Clean substrates of substances that are harmful to bonding of insulation, including removal of projections capable of puncturing water resistive air barrier, or that may interfere with attachment of thermal isolator clip.

### 3.3 Installation

- A. Install thermal isolator clip in accordance with the manufacturer's written installation instructions for intended application.
- B. Set thermal clip against air barrier with sealant compatible with water resistive air barrier. Shim as required to maintain tolerances for exterior wall system.
- C. Install self-drilling structural screw\* in accordance with manufacturer's instructions. Use a minimum of two (2) fasteners per block in accordance with manufacturer's standard details or as required by engineering analysis
- D. Fit mineral wool insulation tightly around clips in accordance with manufacturer's instructions and the requirements specified in Section 072100 "Thermal Insulation". Do not over compress insulation. Install insulation continuously and without voids.
- E. Place mineral wool filler in thermal isolator clip recess to maintain continuity of insulation.
- F. Secure girt system in accordance with the wall panel system requirements to aluminum flanges of thermal isolator clip. Utilize recommended fasteners to comply with system performance requirements. Shim off of face of aluminum hat channel to meet tolerances of exterior wall system.



The thermal isolator clip reduces installation time by as much as 20% compared to the industry benchmark.

#### \*Options:

- Steel: Elco Drill-Flex or SFS Flex 5 self-drilling structural screws
- Stainless steel: Elco Bi-Flex or SFS Bi-Metal self-drilling structural screws

## Availability & support

### Shipping

Lead time: Time to produce under normal conditions is 25 business days from receipt of order.

Delivery terms: Locally produced articles in Twinsburg, OH - F.O.B. Twinsburg, OH

Customer is responsible for shipment & delivery costs of materials unless coordinated through Technoform as a prepaid & add shipment

## Return of merchandise and cancellation policy

Technoform North America, Inc.

### Return of merchandise:

Technoform North America, Inc. always strives to manufacture and ship material per the customer's purchase orders and specification, but it is understood that there may be circumstances where material may be subject to return.

Please note the following conditions when considering return of material to Technoform:

- Technoform will NOT accept shipments of any returned material without prior written or electronic approval/consent, which can be given or withheld at the discretion of Technoform.
- All material approved for return must be sent freight prepaid and arrive at our facility in Twinsburg, Ohio in new, unused and undamaged condition to be accepted.
- No returns will be accepted after 60 days from date of invoice.
- When returning material to our Twinsburg facility, please utilize the original shipping container/packaging wherever possible.
- Material produced from any custom die or has a custom laser marking is not accepted or approved for return/credit.
- Material produced and shipped from any Technoform facility outside of North America will not be approved for return to Technoform North America.
- Material valued at \$500 or less will not be authorized for return or credit.
- A restocking/handling fee of 20% of the original purchase price will be applied to all material approved for return.
- Technoform has the right to visually inspect all returned material in a timely manner prior to authorizing any credit, and if necessary deny any credit based on material that does not meet our quality standards.
- Material approved for return to our Twinsburg facility, but upon inspection denied credit will either be returned to the customer freight collect, or will be disposed of without any credit given.
- Depending on the amount of material approved for return, Technoform reserves the right to issue any credit either immediately, upon next order, or evenly distributed over a certain time period.

**Cancellation policy:** All requests for cancellation of an order must be made in writing and received by Technoform. Upon receipt of a written request to cancel an order, Technoform will attempt to accommodate the cancellation request; provided, however, if Technoform has already begun to fulfill the order (e.g., order processing, purchase of materials, manufacturing, labor, etc.), Technoform will invoice for the amount of product produced and all consumable materials procured for the fulfillment of the order.

## Product delivery & storage

Palletized material can be moved with a fork lift, tow motor, or hand truck.

When handling Technoform product directly, be sure to use the proper Personal Protective Equipment (PPE). The proper PPE should include, at a minimum, gloves and eye protection. Technoform products are not hazardous/toxic and do not require a MSDS.

- A. Deliver materials to site in manufacturer's original unopened containers and packaging with labels clearly identifying product name and manufacturer.
- B. Storage and handling: store materials in clean, dry, interior area in accordance with manufacturer's instructions.
- C. Protect components during transportation, handling, and installation from weather, excessive temperatures and construction operations.
- D. Handle components in strict compliance with manufacturer's written instructions and recommendations, and in a manner to prevent any damage.

## NFPA 285

Technoform North America, Inc. thermal isolator clips (the "Products") were tested according to NFPA 285 (the "NFPA 285 Tests"). Reports containing the results of the NFPA 285 Tests are attached. The Products did resist flame propagation according to the NFPA 285 requirements. Other materials and other conditions may generate different results. Technoform does not warrant the structural integrity of the Products in the event of a fire involving the exterior wall.

## Limited warranty

Technoform North America, Inc.

Technoform North America, Inc. always strives to manufacture and ship material per the customer's purchase orders and specification, but it is understood that there may be circumstances where material may be subject to return.

- (a) Technoform warrants to you ("Buyer") that for a period of ten (10) years from the date of shipment ("Warranty Period") of thermal isolator clips (the "Products"), the Products will be free from defects in material and workmanship which would result in product failure (the "Limited Warranty"). Except for the Limited Warranty, the Products are being sold "as-is" and Technoform makes no warranty whatsoever with respect to the Products, including any warranty of merchantability or warranty of fitness for a particular purpose whether express or implied by law, course of dealing, course of performance, usage of trade or otherwise.
- (b) Technoform shall not be liable for a breach of the Limited Warranty unless: (i) Buyer gives written notice of the defect, reasonably described, to Technoform within 10 days of the time when Buyer discovers or ought to have discovered the defect; (ii) Technoform is given a reasonable opportunity after receiving the notice to examine the Products, and Buyer (if requested to do so by Technoform) returns the Products to Technoform's place of business for examination; and (iii) Technoform reasonably verifies Buyer's claim that the Products are defective.
- (c) Notwithstanding anything to the contrary, Technoform shall not be liable for a breach of the Limited Warranty if: (i) Buyer makes any further use of such Products after giving notice; (ii) the defect arises because Buyer failed to follow Technoform's instructions as to the storage, installation, commissioning, use or maintenance of the Products; (iii) Buyer fails to assemble the system into which the Products are

incorporated according to all applicable rules, regulations and codes or fails to utilize proper engineering and architectural techniques; (iv) Buyer alters or repairs the Products without the prior written consent of Technoform; or (v) the defect arises due to (1) accident, abuse, misuse, alteration, misapplication, faulty building or window construction or design, or settlement of the building structure, (2) improper or insufficient handling, preparation, installation or maintenance during the assembly process, (3) perils such as fire, earthquakes, storms, acts of nature or any other causes beyond Technoform's control, or (4) the incompatibility of the Products with other materials used either in fabrication or an end user's operating procedures or maintenance.

- (d) Subject to paragraph (b) and paragraph (c), with respect to any such Products during the Warranty Period, Technoform shall, in Technoform's sole discretion, either: (i) repair or replace such Products (or the defective part) or (ii) credit or refund the price of such Products at the pro rata contract rate, provided that, if Technoform requests, Buyer shall, at Technoform's expense, return such Products to Technoform. The remedies set forth in this paragraph (d) shall be Buyer's sole and exclusive remedy and Technoform's entire liability for any breach of the Limited Warranty. Without limiting the foregoing, Technoform shall not be liable for removal or reinstallation of any Products.

## General terms and conditions

Technoform North America, Inc.

1. Exclusive Terms and Conditions; Amendment. These Terms and Conditions, together with the quotations and invoices sent from Technoform North America, Inc. exclusively govern and control the sale of thermal isolator clips (the "Products"), and supersede all other communications, oral and written, relating to the subject matter hereof. Any additional or different terms contained in any purchase order or other request or communication by you ("Buyer") pertaining to the sale of Products, or any attempt to modify, supersede, supplement or otherwise alter these Terms and Conditions, will not modify these Terms and Conditions or be binding on Technoform. These Terms and Conditions may be amended, modified or supplemented only by an agreement in writing signed by Technoform that specifically references these Terms and Conditions.
2. Intellectual Property Rights - All intellectual property rights produced from or arising from the Products will, so far as not already vested, become the absolute property of Technoform, and Buyer will do all that is reasonably necessary to ensure that such rights vest in Technoform by the execution of appropriate instruments or the making of agreements with third parties.
3. Limitation of Liability.
  - (a) In no event shall Technoform be liable for any consequential, indirect, incidental, special, exemplary, punitive, or enhanced damages, lost profits or revenues or diminution in value, arising out of, or relating to, the Products, regardless of (a) whether such damages were foreseeable, (b) whether or not a party was advised of the possibility of such damages, (c) the legal or equitable theory (contract, tort or otherwise) upon which the claim is based, and (d) the failure of any agreed or other remedy of its essential purpose.
  - (b) In no event shall Technoform's aggregate liability arising out of or related to the Products, whether arising out of or related to breach of contract, tort (including negligence) or otherwise, exceed the total of the amounts paid to Technoform for the Products over the immediately preceding 12-month period.
  - (c) Without limiting the generality of the foregoing, Buyer assumes all risk and liability for the results obtained by the use of the Products, whether in terms of operating costs, general effectiveness, success or failure, and regardless of any oral or written statements made by Technoform, by way of technical advice or otherwise, related to the use of the Products.
  - (d) Any cause of action brought by Buyer arising from the sale, use or performance of the Products must be

commenced within one year after the cause of action accrues.

4. **Compliance.** Buyer is in compliance with and will comply with all applicable laws, regulations and ordinances relating to Buyer's business and the use of the Products. Buyer has and will maintain in effect all the licenses, permissions, authorizations, consents and permits that it needs to own and use the Products. Buyer shall assemble the system into which the Products are incorporated according to all applicable rules, regulations and codes and utilize proper engineering and architectural techniques.
5. **Indemnification.** Buyer shall indemnify, defend and hold harmless Technoform, its affiliates, and their respective shareholders, officers, directors, employees, agents, affiliates, successors and assigns (each an "Indemnified Party") against any and all losses, damages, liabilities, deficiencies, claims, actions, judgments, settlements, interest, awards, penalties, fines, costs, fees or expenses of whatever kind, including reasonable attorneys' fees, and the costs of enforcing any right to indemnification under these Terms and Conditions and the cost of pursuing any insurance providers, in any way relating to a claim arising out of or occurring in connection with (a) the Products, (b) Buyer's negligence or willful misconduct or (c) Buyer's breach of these Terms and Conditions. Buyer will not enter into any settlement without the Indemnified Party's prior written consent.
6. **Insurance.** Buyer will maintain liability insurance with limits in amounts of not less than \$5,000,000, combined single limit, for death, bodily injury and property damage and shall maintain such insurance for a period of at least two years following expiration or termination of these Terms and Conditions. Buyer shall have Technoform named as an additional insured under this insurance. This insurance shall be written by a reputable, financially secure insurance company. Upon request, Buyer shall provide verification of this insurance coverage by submitting a certificate of insurance to Technoform, along with the endorsement naming Technoform as an additional insured. Buyer's liability under these Terms and Conditions shall not be limited to the sum insured.
7. **Severability.** If any term or provision of these Terms and Conditions are invalid, illegal or unenforceable in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other term or provision of these Terms and Conditions or invalidate or render unenforceable such term or provision in any other jurisdiction.
8. **Waivers.** No waiver by Technoform of any of the provisions of these Terms and Conditions shall be effective unless explicitly set forth in writing and signed by Technoform. No waiver by Technoform shall operate or be construed as a waiver in respect of any failure, breach, or default not expressly identified by such written waiver, whether of a similar or different character, and whether occurring before or after that waiver.
9. **Choice of Law and Forum.** These Terms and Conditions and any other matter relating to the Products shall be governed by and construed in accordance with the internal laws of the State of Ohio, without giving effect to any choice or conflict of law provision or rule (whether of the State of Ohio or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of Ohio. Any legal suit, action or proceeding arising out of or related to these Terms and Conditions, or the matters contemplated under these Terms and Conditions, shall be instituted exclusively in the federal or state courts located in Summit county, Ohio, and each party irrevocably submits to the exclusive jurisdiction of such courts in any such suit, action or proceeding and waives any objection based on improper venue or forum non conveniens. Neither the Uniform Law on International Sale of Goods, Uniform Law on Formation of Contracts for International Sale of Goods nor the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto) shall apply to the sale of Products or these Terms and Conditions.