

# Novitherm Heat Reflector Panels



**If your building was built prior to 1980 and is heated by hot water or steam radiators/convectors, then you are losing heat through the uninsulated exterior wall, especially behind the perimeter heating units where the heat loss is the highest.**

## Solution

A heat reflector panel designed for installation within most perimeter heating systems, including baseboard convectors and behind hot water and steam heated radiators. This panel significantly blocks the heat lost to, and through, the exterior wall behind the heating units.

## How it Works

The heat reflector panels are affixed to the room side of the exterior wall behind the radiator or within the convector heating unit. The metallized surface of the panel reflects 90% of the heat (both long and short infra-red) which strikes its surface from the heating unit. The air space created by the molded shape, prevents the normal conductive heat loss to the cold exterior wall. The result is that the heating system uses less energy. Typically, a 10 degree F reduction in supply water temperature is achieved with no decrease in room temperature, hence an improvement in room comfort.

## Installation

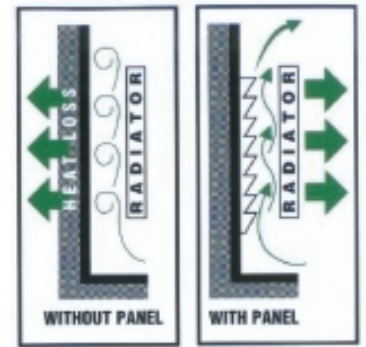
The heat reflector panels are easily installed without removing the radiators. There needs to be only 1/4" (10 mm) of space between the radiator and the exterior wall or between the convector fin and the back of the unit, for the panels to be inserted. For convector/baseboard radiators, the covers are removed and the panel affixed to the flat surface at the back of the heating unit. While the cover is removed, it is recommended that the fins be vacuumed/swept to remove accumulated dust and debris. Specialty tape is provided.

No special tools are required for installation. Panels are cut with regular scissors. The cut edges readily overlap horizontally and vertically to size the panel to fit all heating units. Novitherm Canada offers free training for 'in house' staff or trained crews are available for installation.

## Physical Properties

The Novitherm Heat Reflector Panel is made of clear PVC with an aluminized heat reflecting surface. The panel is molded into a 'saw tooth' shape to create a still air space when affixed to a flat surface. Installation of these panels is a low cost measure that is geared to reducing the heat loss through the exterior walls directly behind the perimeter heating units, where the amount of heat lost is the greatest.

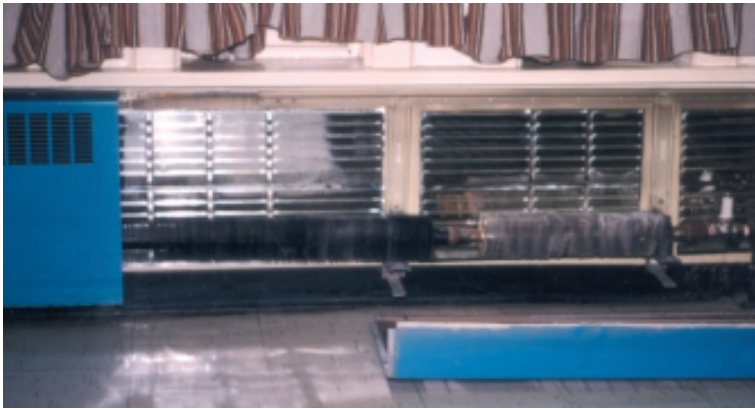
- ✓ Unique product
- ✓ Improves occupant comfort
- ✓ Cost efficient . . .  
payback based on 10% savings:  
approx. 1 to 2 years on product only  
approx. 2 to 3 years on product installed
- ✓ Easy installation



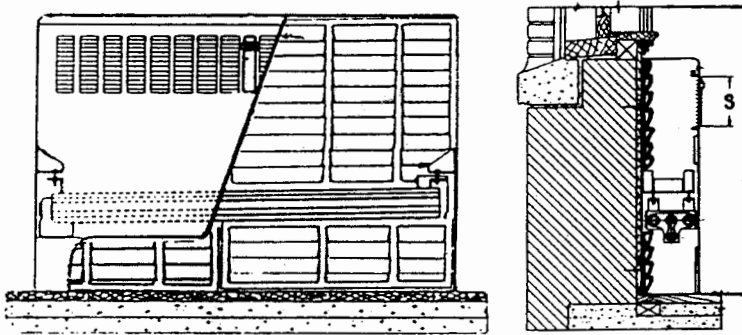
Easy installation of Novitherm Heat Reflector Panels

## Physical Properties (continued)

- Size** Heat reflector panels are 34" wide and come in three manufactured heights of 7.75", 12.0" or 20.1".
- Durability** Except where subjected to long-term direct exposure to ultraviolet light, the panels have an indefinite life span. The metallized coating should not be exposed to water.
- Fire/smoke ratings** The panels have been tested by ULC and classified to Standards: CAN/ULC-S102M (Flame @ 30; smoke @ 60 to 85), and ASTM E84 (Flame @ 15 to 40; smoke @ 105 to 135).
- Toxicity** When tested in accordance with draft EEC Document EN71, the panels were found to be safe to use where they would be accessible to children.
- Emissivity** Heat reflectors are opaque to thermal radiation with a thermal reflectance of 90% to 92%.
- Tape** A specialty product – a double sided, pressure sensitive, acrylic adhesive system.



On-site installation



Schematic drawing of panel installation

## Control Adjustments

Are recommended to maximize the benefits of the Heat Reflector Panels. Please discuss your system specifics with your Novitherm representative.

For further information visit our website:  
[www.novitherm.platek.com](http://www.novitherm.platek.com)

To order, please contact:

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905-290-2625 (from Toronto)  
Fax 416-913-2196  
E-mail: [info@platek.com](mailto:info@platek.com)

Novitherm Canada provides Heat Reflector Panels to significantly improve the comfort of your occupants while slashing your energy costs. Moreover, by implementing this type of energy efficiency measure through **MultiCHOICE**, you may be eligible for incentives (up to \$30,000 per building) offered by Enbridge Gas Distribution.

Enbridge Gas Distribution remains committed to providing our customers with expert assistance in fuel conversion, natural gas heating, ventilation and air conditioning (HVAC) technologies, and the latest in energy efficiency options.

For more information, contact Enbridge Gas Distribution at:

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