

1.0 INTRODUCTION

Installing Novitherm™ Heat Reflectors is fast and simple. To ensure maximum benefit from your Heat Reflectors, it is important that you read and follow these instructions carefully.

1.1 MATERIALS REQUIRED

Before you begin, you will need the following:

- tape measure
- soft lead pencil
- notepad
- large scissors
- duster with handle (i.e. feather duster)
- bamboo garden cane - 1/4" diameter (supplied)
- double sided tape or adhesive (tape supplied)
- flat working surface
- plus, of course, the correct amount of Novitherm™ Heat Reflectors (supplied)



1.2 ADHESIVE – Tape or Glue?

The tape supplied is the only tape that should be used to affix the Novitherm™ Heat Reflectors to the wall. It is suitable for most smooth surfaces found behind heating units. However, the tape is not recommended for application on uneven surfaces as it does not have gap-filling qualities and cannot make good surface contact on a rough wall. If the wall surface is rough we recommend 'No Nails' adhesive distributed by Macco Adhesives. It is available at most hardware/building supply stores and application requires a caulking gun.

2.0 GETTING STARTED

2.1 ENSURING WALLS ARE CLEAN

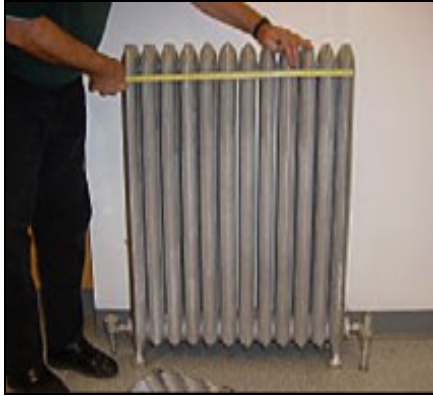
For the Novitherm™ Heat Reflector to be installed properly, it MUST have good adhesion to the wall. Therefore, the surface behind the heating unit needs to be clean and dust free. Although it is difficult to remove all traces of surface dirt and dust, it is important to remove as much as possible. Wiping a household duster between the wall and the heating unit will provide enough pressure to remove most dirt and dust.

3.0 INSTALLATION

these instructions are for both types of heating units – radiators or baseboard convectors.

3.1 MEASURING UP

Using your notepad, pencil, and tape measure, follows this procedure:



Width of Heating Unit

From the top of the heating unit, measure the distance from the last ridge on the right to the last ridge on the left. (see photo left)

For baseboard convectors, measure the full width/length from left to right, even if there is just the pipe and no fin for part of the width. (see photo right)



Height of the Heating Unit

Measure from the top of the base board to the top of the heating unit. Many people prefer to install the Heat Reflector about 1 inch below the top of the heating unit. (see photo left)

For baseboard convectors, remove the cover and measure the back of the interior of the box. (see photo right) Please check that there is at least ¼" space between the back wall and the fin.



On your notepad, identify the heating unit and write these measurements down. Repeat these measurement procedures for each heating unit.

Now you are ready to size your Novitherm™ Heat Reflectors ...

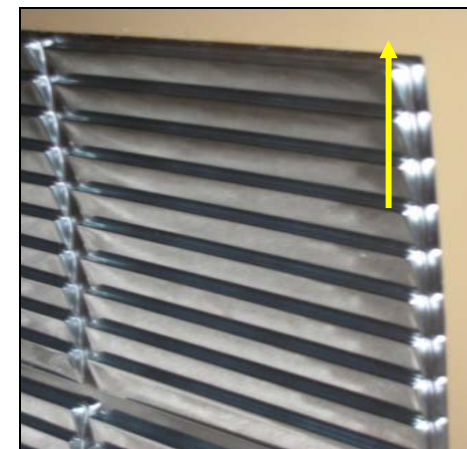
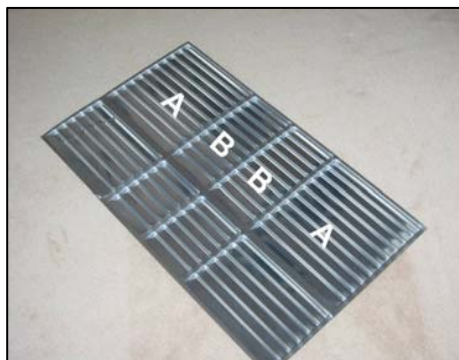
3.2 SIZING Before You Cut ...

The Heat Reflectors are 8 inches or 12 inches high by 34 inches wide. Novitherm™ Heat Reflectors can be easily reduced or enlarged to fit any size heating unit. It is important to note that the correct way to install Novitherm™ Heat Reflectors is with the flat top of the ridged profile up, as shown to the right ...

As shown on the left, Novitherm™ Heat Reflectors are divided across their width into four sections:

A is 11" / B is 6" / B is 6" / A is 11"

This design will allow you to size the Heat Reflectors to fit any size heating unit with little waste.



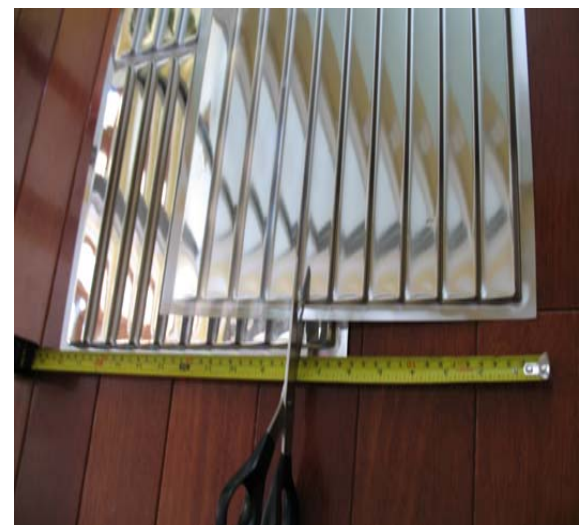
3.3 CUTTING NOVITHERM™ HEAT REFLECTORS

Vertical Height - depending upon the heating unit dimensions, you may need a combination of Heat Reflectors. In most cases, you will want to make the sized Heat Reflector smaller than the heating unit; about ½" - 1" in from each edge. If you have cover over your radiator, this may not be an issue, although covers will decrease air flow.

To combine Novitherm™ Heat Reflectors, simply tape the Heat Reflectors together. For example: to get 24" high, combine two 12" reflectors by taping the bottom edge of one 12" over the top edge of the second 12" reflector.

To get 18" high, cut as follows: ... see photo to the right...
lay the first 12" Heat Reflector flat;
lay the second 12" Heat Reflector with its bottom edge lying over the top of the first;
measure 18" height plus one extra ridge;
cut the bottom off of the top reflector (horizontally along the bottom of a ridge);

keep the bottom piece as you may be able to use it later.



3.3 CUTTING NOVITHERM™ HEAT REFLECTORS ...

Vertical Height (cont)



now tape the top piece as shown in photo to the left;

then peel the tape and overlap the top Heat Reflector over the second Heat Reflector pressing together to give you the 18" height.

When overlapping Heat Reflectors always have the uppermost Heat Reflector overlap the lower one.

Horizontal Width/Length – the vertical flat lines give you 11", 17", or 23" widths. Cut up the middle of the flat area leaving some flat edge on both Heat Reflector pieces for tape. For in between widths, proceeds as follows ...



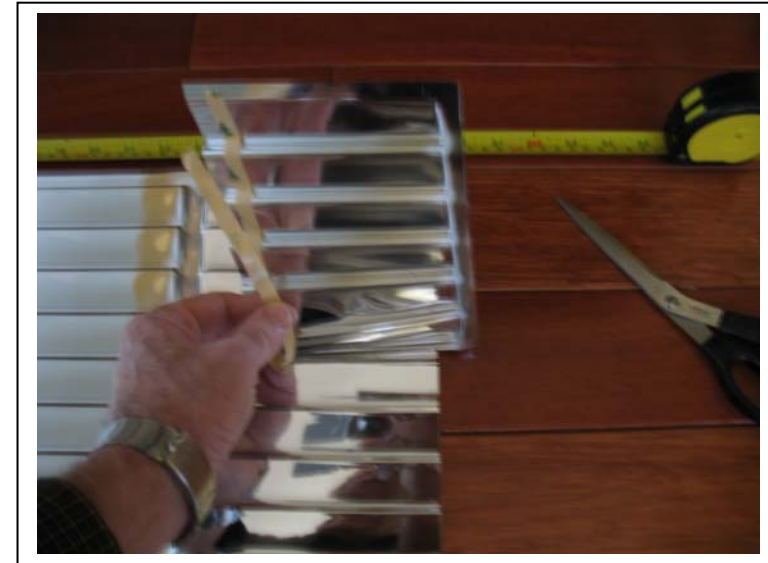
example for 30":

see photo to left ... measure approx 29" wide;
cut vertically through the "A" section.

See photo to the right ... once cut;
tape the top piece as shown;
overlap to give the 30" width;
peel tape and press together.

IMPORTANT INSTALLATION NOTE:

You want a flat edge around the outer perimeter of the sized Novitherm™ Heat Reflectors. This traps the air behind the Heat Reflector to give a thermal barrier between the heating unit and the exterior wall.



3.4 TAPING



Now that you have determined the size of the Heat Reflector, you need to decide whether to use tape (on a smooth wall surface) or adhesive (on a rough wall surface).

Apply the tape onto the flat surfaces (back, top, sides and bottom as well as on the vertical and middle flat tracks) ... see photo on the left.

Note: DO NOT PEEL THE PAPER BACKING OFF OF TAPE YET.



The back of the Heat Reflector has vertical and horizontal flat surfaces designed for adhesive. These are the surfaces that affix to the wall... see photo to left.

For a rough wall surface, it is best to use 'No Nails' Adhesive.

First, place 2" pieces of the tape in strategic points to help hold the Heat Reflector in place while the adhesive sets. Using a caulking gun, follow the manufacturer's instructions and apply a thin bead of adhesive to the flat surfaces (back, top, sides and bottom as well as on the vertical and middle flat tracks), just as pictured for taping in the photo top right.

3.5 INSTALLATION



Peel the cover from the tape. Take one Heat Reflector and gently slide it behind the heating unit, being careful not to touch the wall. Once you have the Heat Reflector lined up and level, take the installation cane and gently press down on the vertical tracks (starting at the top) until the Heat Reflector is firmly fixed to the wall. It is best to work from the middle outward. Do not press too hard or you may puncture or flatten the ridges.



Using the same procedure, take the next sized section and fit it to the wall making sure that the edges line up to the Heat Reflector already installed.

Do this for each heating unit.

4.0 ADJUST CONTROLS

If your boiler has water temperature adjustments, we suggest you reduce water temperature by approx 10 degrees F. If your home is still comfortable, you could do additional 2 to 5 degree adjustments until you find the comfortable temperature throughout your home.

If your boiler does not allow adjustments, you can adjust your room thermostat. With Novitherm™ Heat Reflectors in place, even 1 or 2 degrees less on your thermostat will save heating costs while you are still comfortable.

If assistance is required during the installation process, please contact us at ...

Novitherm Canada Inc.

Toll free tel: 1.866.382.5505

info@novitherm.com

www.novitherm.com

LIMITED WARRANTY

Novitherm Canada Inc. warrants that every Novitherm™ Heat Reflector is free from physical defect in material and workmanship under normal use for five years from the date of purchase, and in no event shall the liability of Novitherm Canada Inc exceed the purchase price paid for the Novitherm™ Heat Reflector. Except as set out in this Limited Warranty, Novitherm Canada Inc. makes no representations or warranties of any kind, express or implied, with respect to the Novitherm™ Heat Reflectors.

Novitherm Canada Inc shall not be liable under any circumstances for damages of any kind, including without limitation consequential, direct, indirect or special damages, resulting for the proper or improper use of the Novitherm™ Heat Reflectors, or from following or failure to follow the instructions set out in this Installation Guide.