

Technical Data Sheet

	A2A 2 layers of bubbles, aluminum on both sides	A2V 2 layers of bubbles, aluminum on one side and white vinyl one side	A1A 1 layer of bubbles, aluminum on both sides	A1V 1 layer of bubbles, aluminum on one side and white vinyl one side
THICKNESS	8 mm (3/8 in)	8 mm (3/8 in)	4 mm (3/16 in)	4 mm (3/16 in)
WEIGHT	382 gr/m ² (1.35 oz/ft ²)	355 gr/m ² (1.16 oz/ft ²)	317 gr/m ² (1.04 oz/ft ²)	291 gr/m ² (0.95 oz/ft ²)
ROLL WEIGHT	19.10 kg (42.2 lb)	16.49 kg (36.3 lb)	14.75 kg (32.45 lb)	13.52 kg (29.74 lb)
FLAME SPREAD	10 based on ASTM E84	10 based on ASTM E84	10 based on ASTM E84	10 based on ASTM E84
SMOKE DEVELOPMENT	30 based on ASTM E84	110 based on ASTM E84	30 based on ASTM E84	110 based on ASTM E84
CRUSHING RESISTANCE	414 kN/m ² 4.22 kg/cm ² (60.05 lb/in ² 8647 lb/ft ²)	414 kN/m ² 4.22 kg/cm ² (60.05 lb/in ² 8647 lb/ft ²)	414 kN/m ² 4.22 kg/cm ² (60.05 lb/in ² 8647 lb/ft ²)	414 kN/m ² 4.22 kg/cm ² (60.05 lb/in ² 8647 lb/ft ²)
TENSILE STRENGTH	3.7 N/mm (21.13 lbf/in) CAN/CGSB-51.33-M89	3.7 N/mm (21.13 lbf/in) CAN/CGSB-51.33-M89		
FLEXIBILITY	No cracking CAN/CGSB-51.33-M89	No cracking CAN/CGSB-51.33-M89	No cracking CAN/CGSB-51.33-M89	No cracking CAN/CGSB-51.33-M89
THERMAL RESISTANCE	RSI 0.70 to RSI 2.57, (R4 to R14.6) depending on the installation	RSI 0.70 to RSI 2.57, (R4 to R14.6) depending on the installation	RSI 0.70 to RSI 2.57, (R4 to R14.6) depending on the installation	RSI 0.70 to RSI 2.57, (R4 to R14.6) depending on the installation
EMISSIVITY	0.03 - 0.04	0.03 - 0.04	0.03 - 0.04	0.03 - 0.04
REFLECTIVITY	0.96 - 0.97	0.96 - 0.97	0.96 - 0.97	0.96 - 0.97
WATER VAPOUR PERMEANCE before aging • after aging	CGSB 51.33-M89 ASTM E-96 < 0 ng/ Pa.s.m ² < 1 ng/ Pa.s.m ²	CGSB 51.33-M89 ASTM E-96 < 0 ng/ Pa.s.m ² < 1 ng/ Pa.s.m ²	CGSB 51.33-M89 ASTM E-96 < 0 ng/ Pa.s.m ² < 1 ng/ Pa.s.m ²	CGSB 51.33-M89 ASTM E-96 < 0 ng/ Pa.s.m ² < 1 ng/ Pa.s.m ²
TEMPERATURE RANGE at 24 °C (75 °F)	-50 °C to 82 °C (-58 °F to 180 °F)	-50 °C to 82 °C (-58 °F to 180 °F)	-50 °C to 82 °C (-58 °F to 180 °F)	-50 °C to 82 °C (-58 °F to 180 °F)
LINEAR SHRINKAGE	None	None	None	None
THERMAL CONDUCTIVITY (K)	0.0416 (0.293)	0.0416 (0.293)	0.0384 (0.27)	0.0384 (0.27)
IMPACT SOUND TRANSMISSION LOSS	ASTM E-492, ASTM C-423 ASTM STP-15C IIC-52	ASTM E-492, ASTM C-423 ASTM STP-15C IIC-52	ASTM E-492, ASTM C-423 ASTM STP-15C IIC-52	ASTM E-492, ASTM C-423 ASTM STP-15C IIC-52

Products and sizes available

The following **AYR-FOIL™** reflective insulation products are available **up to 98" wide**:

- **A2A Foil-bubble-bubble-foil**
- **A2V Foil-bubble-bubble-white poly**
- **A1A Foil-bubble-foil**
- **A1V Foil-bubble-white poly**

All products are available in a variety of sizes and designs including **staple tabs (1" or 2")** and **quick seam double-sided tape (1" or 2")**. The foil can also be coated with clear poly for extra protection.

Other products available:

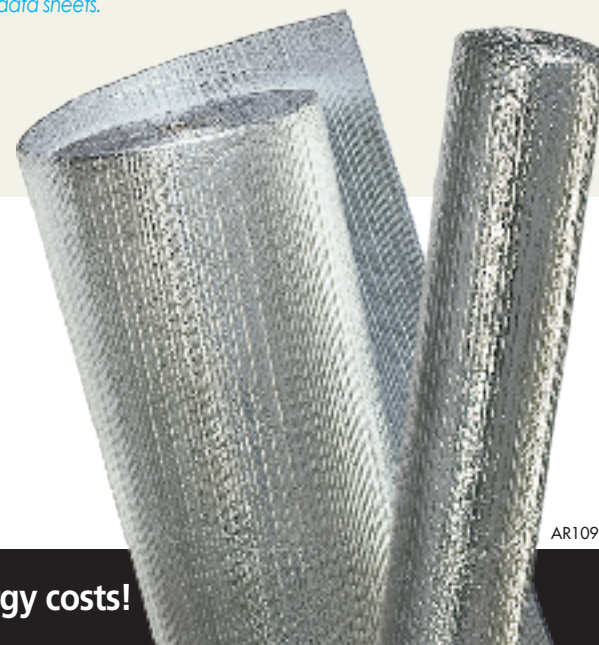
- **Radiant barriers (foil-foil, foil-Kraft)**
- **Foil and white vinyl tape**
- **Custom kits for water heater tanks**

See web site for data sheets.

ANOTHER EFFECTIVE SOLUTION BY



Customer Service
TOLL FREE: **1 877.478.8408**
www.ayr-foil.com
info@ayr-foil.com

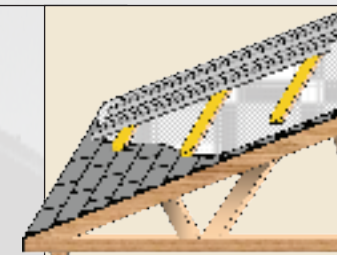


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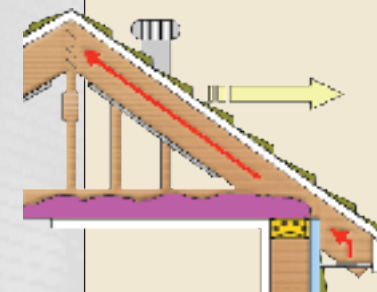


Smart ideas to lower your energy costs!

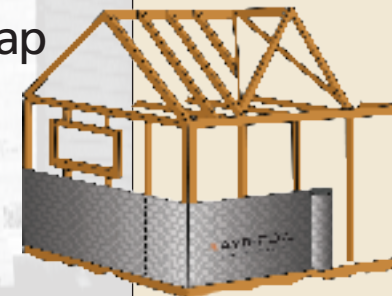
Metal Re-roof



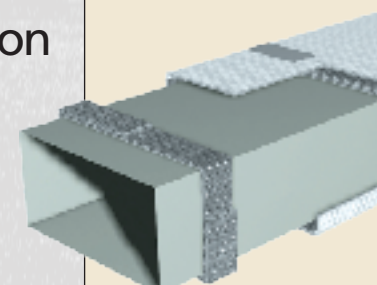
Attic Barrier



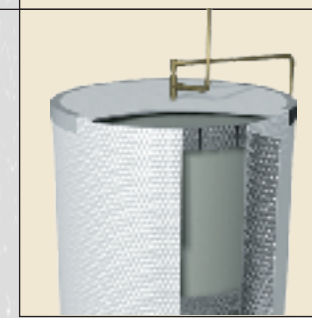
House Wrap



Duct Insulation



Water Heater



Smart ideas to lower your **energy costs!**

The best insulation for more energy efficient residential applications

Reduces energy costs

Easy to install

Reduces condensation

Reduces inside heat gain and lowers air conditioning costs

Increases the comfort of your home



Smart ideas to lower your energy costs!

...and many other possible applications!

Metal Re-roof

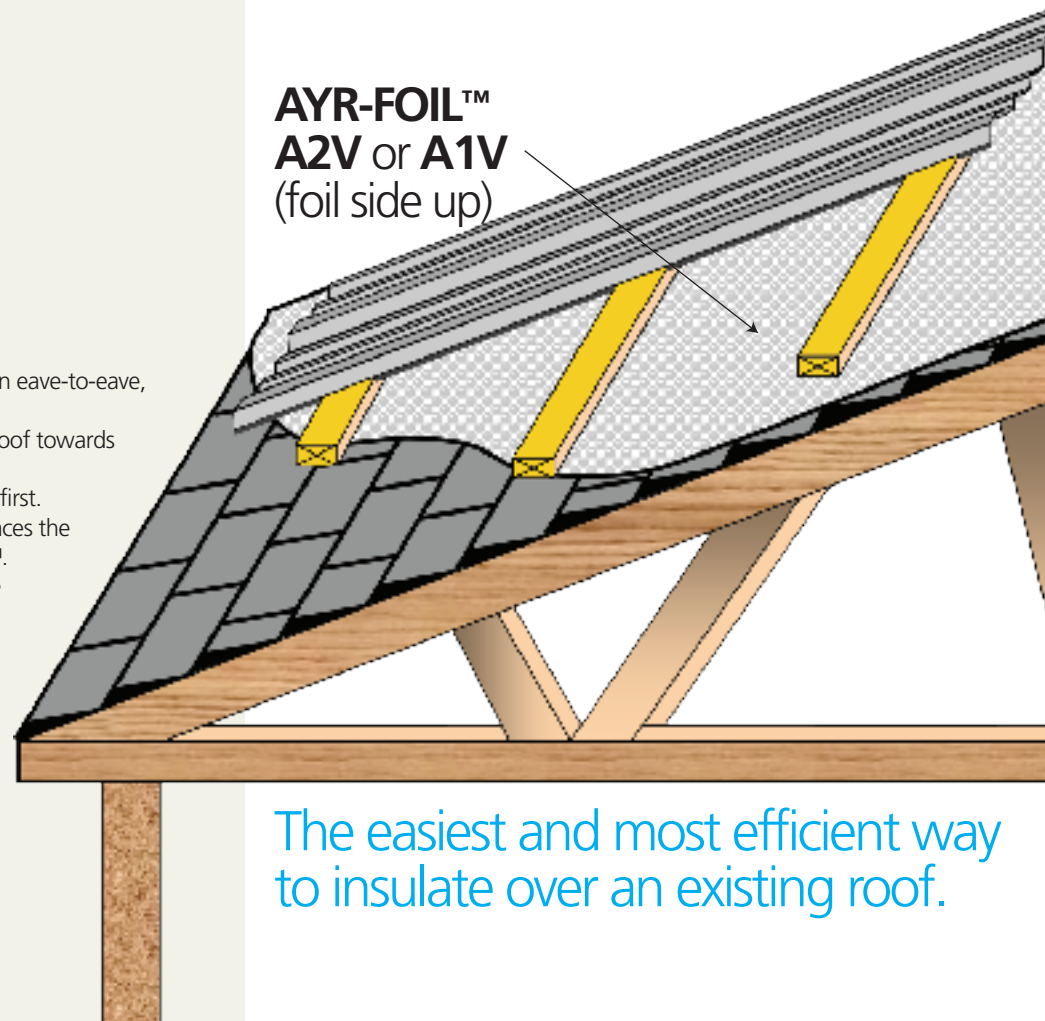
- Great value in limited spaces
- Reflects the heat and keeps the building cooler
- Prevents water infiltration

INSTALLATION METHOD:

- Pre-cut measured length of **AYR-FOIL™** to span eave-to-eave, up and over the ridgeline.
- Starting at one eave lay **AYR-FOIL™** flat onto roof towards to ridge and continue down to the next side.
- Lay the next **AYR-FOIL™** course parallel to the first. If using tab products, ensure the square edge faces the tab edge of the previous course of **AYR-FOIL™**.
- Seal the joints and make sure the entire roofline is covered with **AYR-FOIL™**.
- Attach furring material of choice over the **AYR-FOIL™** covered roof.
- Install metal roofing over furring strips.

BE CAREFUL:

For proper ventilation, do not cover any vents (ridge, cable, soffit, etc) with insulation.



AYR-FOIL™ A2V or A1V
(foil side up)

The easiest and most efficient way to insulate over an existing roof.

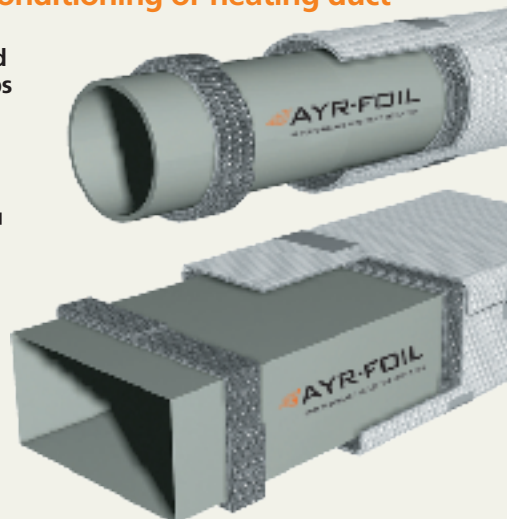
Duct Insulation

Product recommended: **AYR-FOIL™ A2A**

- R6 with spacer strips
- Prevents condensation
- Reduces noises and vibrations
- Not affected by moisture and water
- No allergenic or harmful content
- Washable
- Does not need to be painted
- Ideal for air conditioning or heating duct

Can also be installed without spacer strips (R-4.3)

AYR-FOIL™ A2A



Water Heater Tank Insulation Kit

Save up to 18% on your tank heat loss.

- For any size of electric and gas water heaters.
- Clean and washable finish.

AYR-FOIL™ is available in prefabricated kits for 40 or 60-gallon tanks.

AYR-FOIL™ A2V

AYR-FOIL™ 2" spacing strips



Attic Barrier

Save up to 18% on your cooling bill.

Product recommended:

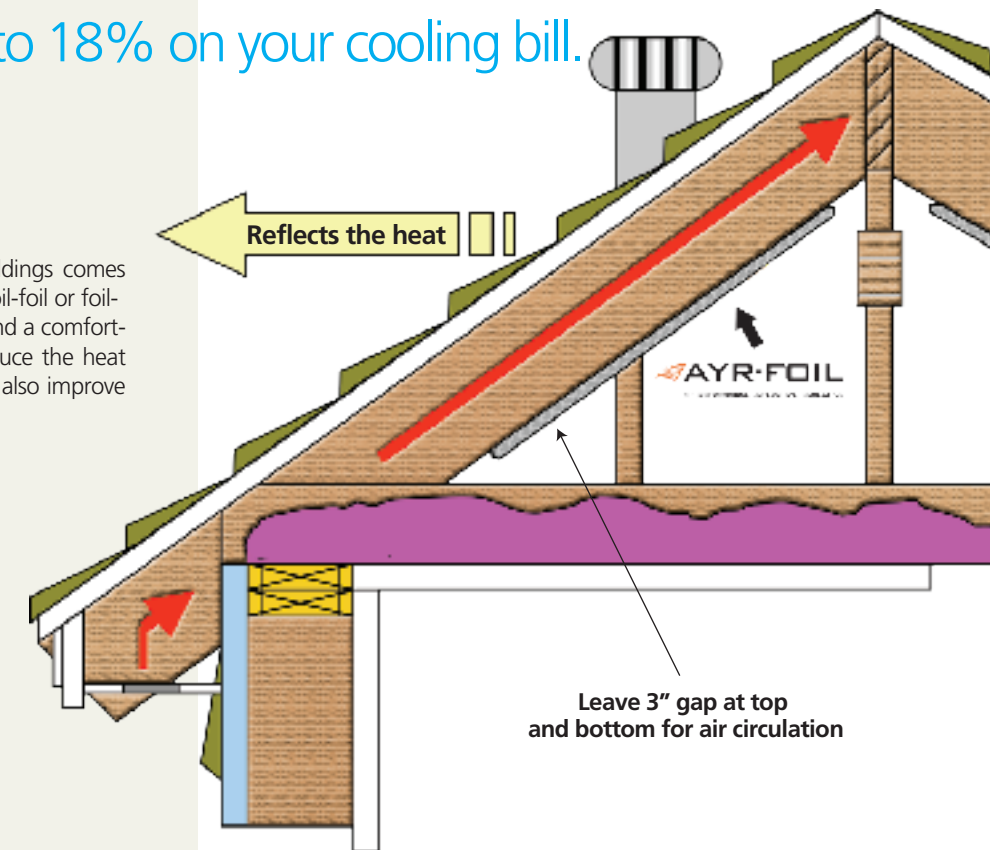
AYR-FOIL™ A1A or radiant barrier RBFK

In the summer, most of the heat entering homes and buildings comes through the roof. Adding a reflective foil like **AYR-FOIL™** foil-foil or foil-Kraft paper is the ideal solution for air conditioning savings and a comfortable temperature inside. **AYR-FOIL™**'s attic barrier can reduce the heat gain by as much as 78%. **AYR-FOIL™** radiant barriers can also improve fibrous insulation performance by 50%.

- **AYR-FOIL™ A1A or radiant barrier foil-foil / foil-Kraft** can be used. Foil-foil or foil-Kraft are available perforated or not

BENEFITS:

- Does not promote or trap condensation
- Creates a more energy efficient home
- Resistant to moisture, mold, fungi and rodent nesting
- Easy to install

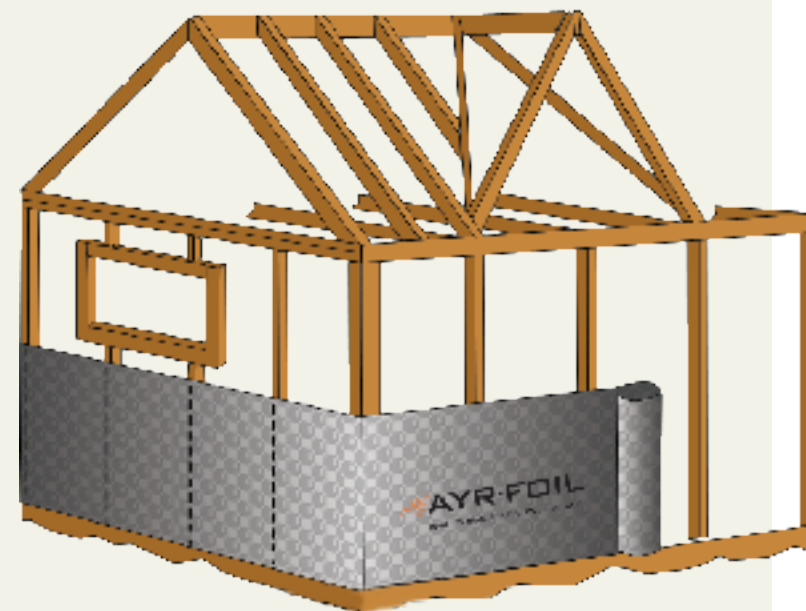


Reflects the heat

Leave 3" gap at top and bottom for air circulation

House Wrap

This house wrap application is designed to protect framing and insulation systems from moisture and condensation. **AYR-FOIL™** will give you all the functionality of conventional house wraps with the added benefits of a radiant barrier.



AYR-FOIL™ reflective insulation and radiant barriers are vapor retarders. In northern climates and regions where Heating Degree days are above 4000, we recommend using a perforated radiant barrier (foil-foil, foil-Kraft). If you use our bubble foil insulation, do not seal the joints.

Other possible residential applications

- Behind vinyl siding
- Basement walls
- Crawl space
- Radiant heating
- Concrete floor insulation and under pad for carpet or laminated flooring
- and much more...

