

Is Your Interior Too Hot, Too Cold or Just Right?

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San Diego Airstream Club – Past President

Agenda

- Introduction & Temperature Extremes
- What is Reflectix® Insulation?
- How To:
 - Use Reflectix® to Better Manage Temperatures
- Simple DIY:
 - Create Your Own Reflectix® Window Set
- Other Benefits & Options/Considerations
- Conclusion, Q&A & Raffle

Too Hot!



Too Cold!

Note: Similar Products - Reflectix® (Lowes, etc.) vs. Everbilt® (Home Depot)

Introduction & Temperature Extremes

- The Problem
 - Too Hot
 - Too Cold
- Potential Solutions
 - Just Right
(by Owner)

- **Too Hot & Too Cold**

- Transient temperature changes, e.g. during day & overnight
- Seasonal differences by geography
- Can cause extremely high & low short-term interior temperatures

- **Airstream (Almost Right)**

- Heater, air conditioner(s) with heat pump & fans
- Thermal coating & seals on windows
- Window curtains & shades
- Aluminum roof painted white, plus awnings

Just Right!

- **Owner - Supplemental Gear & Insulation (Just Right)**

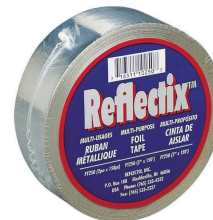
- Additional heaters & fans
- Headboards & pillows
- Skirting
- Window coverings



What is Reflectix® Insulation?

- A registered, trademarked product of Reflectix, Inc.
- www.reflectixinc.com

- "... [A] safe, easy-to-use, thermal insulating material providing cost-effective, high-efficiency performance...."
- "The product consists of two 96% reflective layers of film bonded to two internal layers of heavy gauge polyethylene bubbles (total thickness 5/16")"
- Works where you can't use fiberglass
- Typically available in 24" & 48" wide rolls at DIY Big Box stores
- Can join pieces with silver foil tape



How To: Use Reflectix® to Better Manage Temperatures (1)

- Interior
 - Panorama
 - Capsule
 - Rectangular
 - Door (Option)
- Exterior
 - Rectangular (Option)

Process Steps:

- 1) Count your windows by type
- 2) Decide interior vs. exterior mounting



Use a Worksheet for Counts & Mounting (See Next Page)

Process Steps (Cont.): Counts & Mounting

How To: Use Reflectix® to Better Manage Temperatures (2)

- Assess Windows
 - Interior
 - Exterior

Information List: Windows				Example	Mounting		Optional	
Type	Location	Description	Position	Quantity	Interior	Exterior	Identifier	Dimensions
Panorama	Front	Street-Side		1	X			
		Center - F		1	X			
		Curb-Side		1	X			
	Rear	Street-Side		1	X			
		Center - F		1	X			
		Curb-Side		1	X			
Capsule	Kitchen	Curb-Side	Top	1	X			
		Curb-Side	Bottom	1	X			
	Lounge/Dinette	Street-Side		1	X			
		Curb-Side		0				
	Bedroom	Street-Side		0				
		Curb-Side		1	X			
Bathroom	Street-Side		1	X				
	Curb-Side		0					
Door		Curb-Side		1	N/A			
Rectangular	Kitchen	Street-Side		0				
		Curb-Side		0				
	Lounge/Dinette	Street-Side		1			X	2-Piece
		Curb-Side		0				
	Bedroom	Street-Side		1			X	
		Curb-Side		1			X	
	Bathroom	Street-Side		0				
		Curb-Side		0				
		Center - R		0				
Other				0				
				0				
			Totals	15	11	3		

How To: Use Reflectix® to Better Manage Temperatures (3)

- Examples
 - Interior
 - Exterior

- Example: Interior Mount (Panorama & Capsule)



- Example: Exterior Mount (Vented Window)



Simple DIY: Create Your Own Reflectix® Window Set (1)

- Items Required
- Simple Fabrication Process

Items

- Reflectix® - Roll & silver foil tape, plus paper roll, marker & scissors
- Velcro (with adhesive on both sides) & label tape
- Optional: Label Maker & Art Portfolio (for storage)

Item Check List		Example		
Item	Identifier/Size	Quantity	Comments	
Reflectix®	24"x25'	2	Rolls (Based on Count)	
Silver Foil Tape		1	Roll	
Craft Paper		1	Roll	
Marker		1		
Scissors		1		
Velcro (Pack)	Black or White	2	Adhesive Backed	
Label Tape	Blue or Cassette	1		
Label Maker		1	Optional	
Art Portfolio	Large	1	Optional	

Process

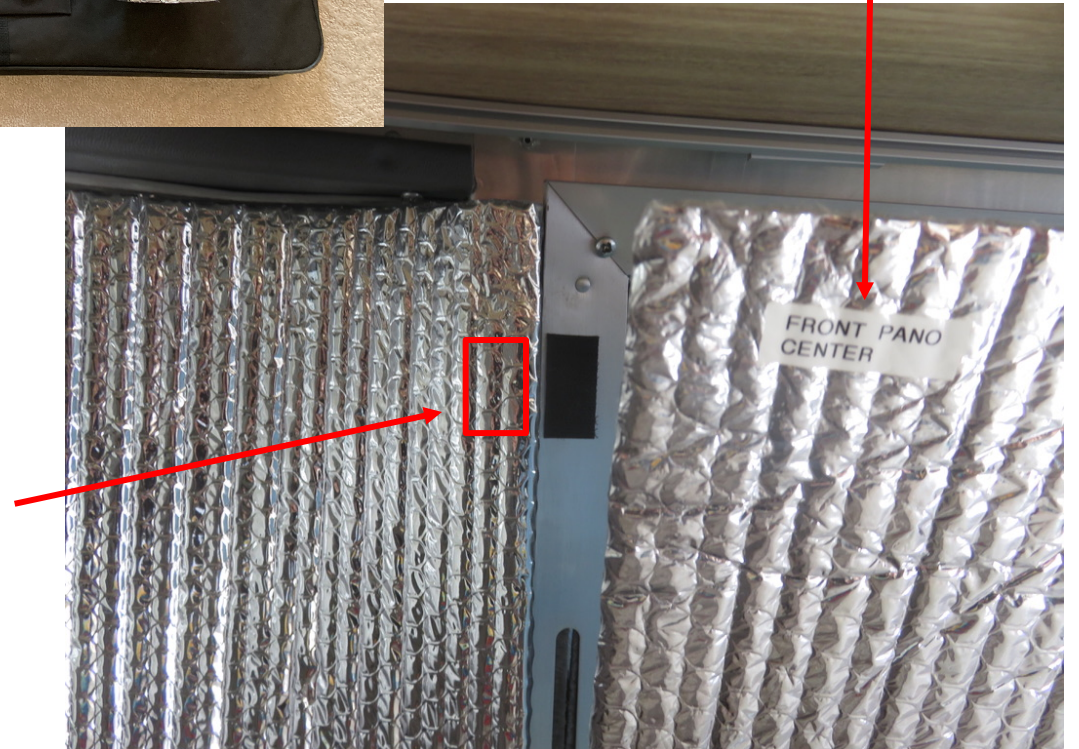
- Create templates using paper roll, marker & scissors
 - Larger size perimeter for windows with Velcro mounting
 - Exact size for capsule windows
 - Inside window frame size for rectangular windows (exterior mount)
- Apply template to Reflectix® and cut insulation
- Make fine cuts for window lift handles & latches (as applicable)

Simple DIY: Create Your Own Reflectix® Window Set (2)

- Items Required
- Simple Fabrication Process



Velcro
(Adhesive
Strip or
Square;
Black or
White)



Label
(Front
Center
Pano)

Simple DIY: Create Your Own Reflectix® Window Set (3)

- Mounting & Other Considerations
- Storage Options

Mounting

- Use squares or cut short segments of one (hard, hook) side of Velcro
 - Remove adhesive cover & apply to corners of interior window frames
- Use matching squares/segments of other (soft, loop) side of Velcro
 - Apply to Velcro on window frames and then remove adhesive cover
- Press Reflectix® piece to cover the window (attaches to loop side)

Other Considerations

- Make additional fine cuts (as applicable)
 - “Window Poppers”
 - Special access, e.g. cables, etc.
- Label each Reflectix® window piece
 - Place label in consistent position on all pieces for correct orientation
 - Standardize label terminology (description or # by window)

Storage (Option)

- Consider using an “art portfolio” for storing window pieces

Simple DIY: Create Your Own Reflectix® Window Set (4)

- Other Considerations
 - Cutouts



Cutouts
(Around Window Levers,
Latches, Poppers & Struts)



Other Benefits & Options/ Considerations

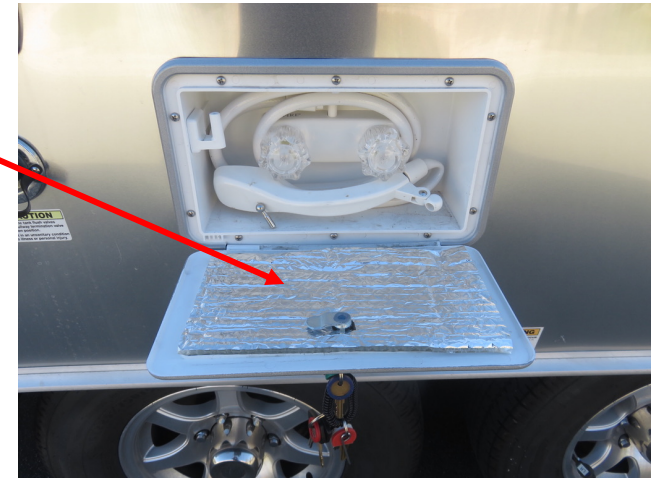
Other Benefits

- Near blackout and reduced UV damage to interior fabrics
- Security – thieves can't see inside trailer
- People/pets inside are buffered from sharp swings in temperature

Options/Considerations with Reflectix® Window Sets

- **Options** (install Reflectix®)

- Inside of exterior shower door
- Inside storage compartments
- On top of foam in skylights



- **Considerations** (based on personal experience)

- Attenuates Cell/WiFi signals (consider external antenna or booster)
- Moisture Management (consider shower and fan venting when cold)
- Safety: Practice emergency exit starting with Reflectix® in-place

Recent Price Comparison

- Big-Box Stores
 - On-Line Prices

Pricing Comparison		Insulation - Big Box & On-Line			v3 as of: 5/31/23
Retailer		Lowes	Walmart	Amazon	Home Depot
Product	Qty (Pack)	Reflectix®	Reflectix®	Reflectix®	Everbilt®
24"x10'	1	Not Stocked	\$25.61	\$21.88	\$9.97
24"x25'	1	\$27.00	\$48.91	\$27.00	\$27.00
48"x25'	1	\$51.98	N/A - Only 10'	\$51.98	\$51.98
Foil Tape 2"x30'	1	\$4.97	\$11.45	MultiPack	\$4.97
Velcro 12ea 7/8"sq	1	\$3.98	\$9.84	\$2.39	\$3.93
One-Stop Shop		✓			✓

Conclusion and Q&A

Thank You
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'Stream'in is Always Right!

Conclusion:

- Accomplished 3 key learning objectives?
 - What is Reflectix® Insulation?
 - How To Use Reflectix® to Manage Temperatures
 - Simple DIY to Create Your Own Reflectix® Window Set
- Satisfied "after this session participants will be able to ...?"
 - Owners will be able to fabricate, mount and use Reflectix® pieces to better manage interior temperatures in their Airstream

Handout: Bonus Worksheet

- Window Count & Item List

Questions & Answers

- Raffle

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