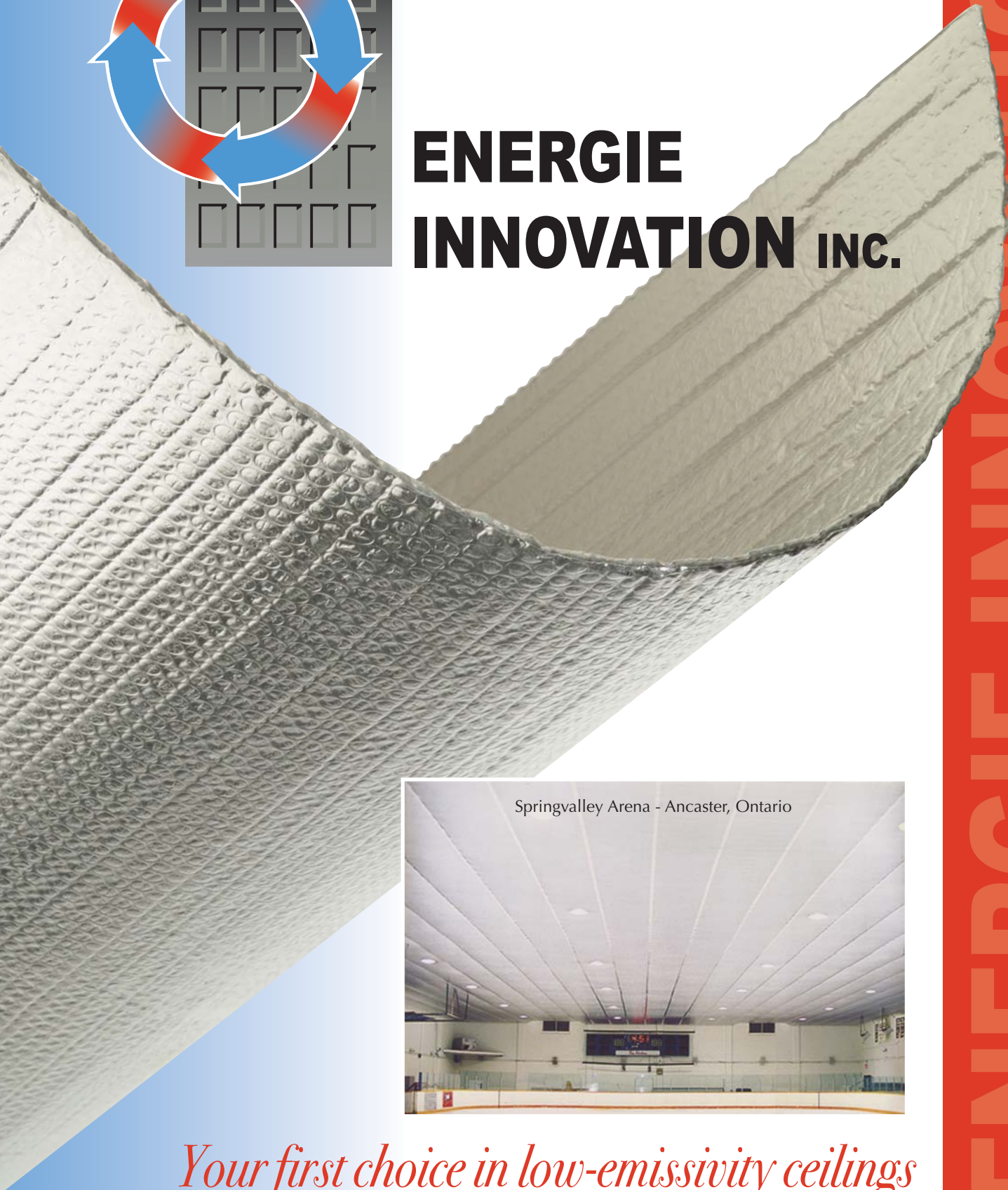


# ENERGIE INNOVATION INC.



Springvalley Arena - Ancaster, Ontario

*Your first choice in low-emissivity ceilings*

ENERGIE INNOVATION

## Some of our numerous satisfied customers:

### Canada

Arena Frank Robinson, Arena Campeau & Arena Stade Lafontaine - Gatineau, QC  
Dawson Arena - Dorval, QC  
Arena Lévesque - Sainte-Anne-des-Monts, QC  
Morgan Firestone & Spring Valley Arena - Ancaster, ON  
Pete Palangio & West Fares Community Rink - North Bay, ON  
Canmore Recreation Centre - Canmore, AB  
Trenton Community Rink - Trenton, NS  
Grand Falls Arena - Windsor, NL  
Hartland Arena - Hartland, NB  
8 Rinks - Burnaby, BC  
Canlan Ice Sports - Burnaby, BC (27 Rinks across Canada & USA )

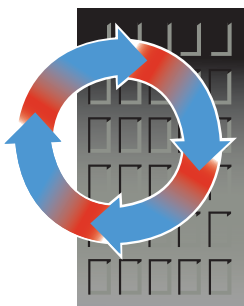


### USA

Oakland Ice Centre - Oakland, CA  
Columbia Ice Rink - Columbia, MD  
Arctic Pond Arena - Plymouth, MI  
International Skating Center - Raynham, MA  
Colby College - Waterville, ME  
Stamford Twin Rinks - Stamford, CT  
Janesville Ice Centre - Janesville, WI  
Hobomock Arena - Pembroke, MA  
Ashburn Ice House - Ashburn, VA  
The Pond Ice Rink - Auburn Township, OH  
Lane County Fair Arena - Eugene, OR  
Arena JFK & West side Arena - Manchester, NH

and our list continues to grow....

*Serving Canada and the USA  
since 1989*



**ENERGIE  
INNOVATION INC.**

[www.energie-innovation.com](http://www.energie-innovation.com)

# ASTRO-RINK

BEFORE



AFTER



*"Throughout the installation process Mr. Baljak and his crew were extremely professional and provided prompt and expert service." "... "I consider the installation a great success. The impact of the project was noted immediately in the increased lighting levels, arena aesthetics and overall positive change in the arena."*

*Jim McFadden  
Facilities Operations Supervisor, Town of Canmore, Alberta*

*"I was very impressed by the crew that handled the installation. They were very knowledgeable and worked around our schedule." "... "It is such a relief to work with a professional organization that takes their work seriously and is proud of what they do."*

*Karl G. Oesterling  
General Manager, Columbia Ice Rink, Columbia, Maryland*

1-800-363-0931

ENERGIE INNOVATION

## ASTRO-RINK\* REFLECTIVE CEILING

**ASTRO-RINK** reflective insulation is composed of 2 layers of bubble film with reinforced aluminum metalized films on both sides (MPET/Bubble/Bubble/MPET). These bubbles form trapped air spaces between the metalized surfaces to give the structure excellent “R” values. **ASTRO-RINK** also meets all current building codes relating to flame spread and smoke developed classifications for insulation in exposed applications, in Canada and the United States. Because **ASTRO-RINK** is also impervious to moisture and air currents, it is an ideal convection and vapor barrier. The material is reinforced to prevent damages caused by pucks and other flying objects; therefore protective netting is not required. Most importantly, **ASTRO-RINK** reflects heat away from your ice surface and thus reduces your energy costs.

### The Benefits

- Low emittance reflects heat
- Increase roof insulation value
- Prevents condensation and dripping
- Seals out roof leaks and drafts
- No maintenance required; washable
- Improves acoustics in rink area

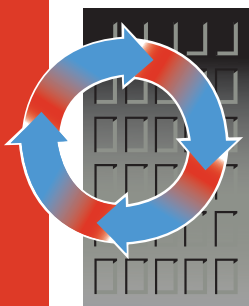
### Savings

- Significant reduction in refrigeration costs
- 40% reduction in lighting requirements over rink
- 2-3 year payback period on initial capital expense
- Significant power company funding in many regions

### Physical Properties

Thickness . . . . .	8mm (5/16 inch)
Weight . . . . .	342 g/m2 (1.12 oz./ft2)
Temperature Range . . . . .	-50 to 82 °C (-58 to 180 °F)
Flame spread and Smoke Developed Index (ASTM E-84-05) . . . . .	Class 1 / Class A, 0 and 15 respectively
Flame spread and Smoke Developed Value (CAN/ULC-S102) . . . . .	0 and 33 respectively
Linear Shrinkage . . . . .	None
Puncture Resistance . . . . .	3 200 kPa (464 lbs/in2)
R-value . . . . .	RSI 0.94 (R 5.34)
Emittance . . . . .	4.7%
Reflectivity . . . . .	97%

\* Canadian Patent - 2067683



**ENERGIE  
INNOVATION INC.**

### ENERGIE INNOVATION INC.

2970 Halpern Street  
 Saint-Laurent, Quebec  
 Canada H4S 1R2  
 T. 514-334-3783  
 F. 514-334-3925

**Toll Free: 1-800-363-0931**  
[www.energie-innovation.com](http://www.energie-innovation.com)