



# SNMI

thermal protection perfection



Seymour Manufacturing International Limited

# Who we are, and what we do...



**Seymour Manufacturing International has been saving energy and money for some of the world's biggest and best known businesses since the 1980s.**

Our client list is a who's who of blue-chip brands, including retailers such as Waitrose, Morrisons, ASDA, Sainsbury's, Marks & Spencer, The Co-operative, and Lidl.

We also work with the NHS, the Ministry of Defence, and have become a leading thermal insulation supplier for the protection of food, chemicals, agricultural and home delivery products. It's all thanks to Tempro, SMI's remarkable lightweight thermal insulation material which has been scientifically proven to cut energy loss by at least 25% in chillers, and an amazing 33% in freezers.

No wonder it was the first choice for intrepid explorer Sir Ranulph Fiennes when he headed off towards the South Pole, and needed to protect his living quarters, tractor units and portable laboratories from dangerous sub-zero temperatures. From supermarket coldrooms to food haulage fleets, blood banks and chemical installations, SMI specialises in finding simple solutions to temperature maintenance problems, helping clients to save money, and energy in the process.

From our new headquarters in Telford, we are active all over the UK as well as in France, Germany, Spain, Portugal, Poland, the Czech Republic, Switzerland, Belgium, the Netherlands, Ireland, Sweden, Slovakia, Russia, Saudi Arabia, and South Africa. Don't just take our word for the thermal qualities we claim of our products – they have been tested and validated by the world-renowned Campden BRI.



**Sir Ranulph Fiennes with Brian Seymour, before his Antarctic expedition**

All of our products are easily cleaned, anti-fungicidal, of hard wearing construction, UV stabilised and flame retardant – and most can be made to order to fit any shape, size, or application.

SMI founder and managing director Brian Seymour says: "We have invented, produced and marketed a constantly evolving product range with the ability to surprise people by saving energy for so many industries . . . cutting both their carbon emissions, and their costs.

"Supermarkets, food processors, the MoD and logistics have traditionally been our core sectors, but we are now branching out into pharmaceuticals and expanding export markets. The Middle East is one of several potential growth areas for us."

Want to know more? You'll find video demonstrations of our product range on the SMI website, [www.seymour-mi.com](http://www.seymour-mi.com)

If you would like to visit our interactive showrooms to see Tempro in action for yourselves, please get in touch. Alternatively, we can effectively bring our showroom to you, by sending you a copy of our interactive USB product guide.

Because when it comes to the innovative SMI range, seeing really is believing...

# Cold-Stop Insulated Curtains™



*“Significant energy and carbon savings...”*

Cold-Stop curtains are a revolutionary and cost-effective alternative to plastic strip curtains used in many coldrooms. Field trials indicate that the thermal value of a Cold-Stop curtain is at least 10 times greater than PVC strip types.



- Minimum energy savings of 25% in chillers or 33% in freezers.
- It takes only a few months to maximise the return on your investment
- Soft, user-friendly, low maintenance, and easily cleaned or replaced
- Available in standard sizes of 300mm wide x 2.3m high – for heights above this, 350mm width curtains will be used
- Unique ‘cold lock’ system ensures that curtains fit neatly and effectively to the floor and ceiling, saving costly energy
- Unique patented header arrangement is a design and efficiency breakthrough
- Fitted with Bio-Gard anti-bacterial windows



## The Back-Stop Range™

*“No loss off the back of your vehicle...”*

When a vehicle's back doors are open, Back-Stop's Tempro curtains retain 100% of the air which has been expensively chilled or frozen – and even when a driver is carrying out a delivery, only 25% of the door needs to be opened.

- A breakthrough in cost and energy savings for the food and temperature-sensitive delivery sectors
- Unique header system holds four moveable curtains, creating an outstanding thermal energy barrier, saving enormous costs
- The twin track, pelmet and double line Tempro curtain system is simple and versatile
- Available in either a manual or touch button air-compressed configuration
- Driver-friendly, and easily repaired, replaced or recycled
- Curtains fitted with Bio-Gard anti-bacterial windows
- Available as an option for new goods vehicles, or retrofitted

Also available . . . **Bus-Stop**, which can be manually moved to any position along the length of the vehicle's interior . . . and **Multi-Stop**, with curtains opening entirely to the left, or the right.



# Bio-Gard Curtains™



**“Kills bacteria . . . DEAD!”**

Bio-Gard is SMI's unique weapon in the war on deadly strains of bacteria. Most surfaces are unseen breeding grounds for bacteria, that can multiply at an alarming rate. Before you know it, these germs are everywhere, causes sickness and pandemics.

- Bio-Gard is proven to stop the spread of 99.99% of all germs, and kill them dead
- Independently tested to JIS Z 2801, 2000, ISO 22196, 2007, and EU Directive 20002/72EC, world standards



**“These Bio-Gard Curtains kill 99.99% of all germs”**

- Proven to kill notorious strains such as MRSA, E.coli, Salmonella, Listeria, and Legionnaire's Disease
- Killing agent lasts for the entire life of the product, making the Bio-Gard curtains particularly valuable in the food industry
- Compatible with SMI's standard and economy curtain suspension systems
- Can be tailor-made to fit any size of doorway



- Virtually fire-resistant, classified as slow burning to self-extinguishing

## Roll-Cage Covers and Liners™

**“A temperature-controlled environment”**

Tempo thermal roll-cage covers and liners offer enormous savings when using vehicles to transport chilled, frozen and ambient products. Hanging handles, identification pockets and meter pouches can be easily added.

- Allows mixed temperature loads to be carried on any vehicle
- Tailor-made to client requirements, with some standard sizes available ex-stock
- Offers outstanding thermal protection in any environment
- Can be closed using Velcro or zips
- SMI chilled blocks can extend thermal protection
- Tempo covers by-pass the need for cold rooms, saving time and reducing labour and transport costs
- Easy to be repaired, replaced or recycled



## Tempo Adjustable Pallet Covers™

**“Adapts to meet your thermal needs...”**

The unique Tempo adjustable cover extends in height from 900mm to 1800mm, and is ideal for part-reducing or varying pallet loads. It folds flat when not in use.

- Allows mixed temperature loads to be carried on any vehicle
- Covers can be height-adjusted, using Velcro, to suit the load – and half the height means double the thermal protection
- UK and Euro pallet sizes are both available ex-stock
- Offers outstanding thermal protection in any environment
- Tempo covers by-pass the need for cold rooms, saving time and reducing labour and transport costs
- Easily repaired, replaced or recycled



# Green-Door™

*"It's blue . . . no more nightmare night-door"*

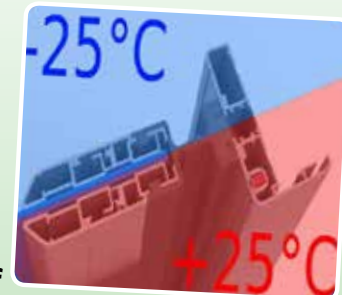


Green Door is a much more user-friendly replacement for the unwieldy 'night door'. It is light in weight, saves enormous amounts of capital, and requires much less physical effort to operate. It also reduces the build-up of ice, which can act as a slip hazard.

- Eliminates the use of a heavy night door, saving enormous capital, running costs and physical effort
- Greatly reduces the build up of ice
- Requires minimal effort to operate
- Integral Tempro thermal protection provides enormous energy savings

- For freezer applications, doors with heater wires are fitted
- unique profile and gasket prevents thermal bridging and servicing
- Built-in shock resistant impact buffers

**\* When ordering your Green-Door, please add an extra 260mm to the width of your widest product entering for a single door, and 450mm for a double door**



## Temperature-Control Zones (TCZ)™

*"Hang up a coldroom . . ."*

A TCZ is a modern, inexpensive answer to instant temporary or permanent chilled storage spaces in supermarkets, food companies, warehouses or packing areas, to divide temperatures.

- An instant coldroom or divider at times of high demand
- Operational in minutes, and folded away quickly
- Two-way pelmet system keeps cold air in, and ambient air out.
- Light in weight, hard wearing, and easily cleaned, repaired or replaced
- Thermal Tempro curtains are hung from SMI's specialised track and pelmet system
- SMI Cold-Lock skirt adjusts to uneven floors, and can be removed to clean or replace



## Tempo Box-Liners and Covers™

*"Temperature safety . . . bagged."*

Tempo thermal box liners, bags and covers can be used for the food, medical, defence, pharmaceutical, agricultural and home delivery sectors, offering enormous cost savings

- A giant step forward in chilled protection for temperature sensitive goods
- Tempo chill blocks can extend thermal protection
- Lightweight, versatile, and economically priced
- Choice of zip or Velcro closures
- Bespoke sizes made to suit your requirements
- Document pouches and easy-clean hygiene liners available
- Handles make carrying easy



## Cold-Korner™

*“Extra chilled space . . . cornered”*

An instant chill space that can be operational in minutes, and folded away even quicker

- Creates an instant chill space, only when you need it
- Provides 2C in under 15 minutes from our 13amp fast draw-down evaporator
- Track-Rack shelving can be added to maximise storage and temperature control
- Allows you to hold reserve stock, to maintain sales
- Requires little service or maintenance, and minimal capital outlay



## Cold-Kube™

*“Chilled space . . . anywhere, any time”*



A rapidly deployed chilled module that can be assembled in a very short time, around SMI's Track-Rack interlocking shelving or frame (Chill-Kube)

- Instant extra chilled space at times of high demand
- Robust evaporator on swivel wheels runs from 13amp supply or generator
- Inexpensive to buy, and economical to operate
- Adjustable shelf heights, which cater for most products and sizes
- A non-shelving version, called Chill-Kube, is also available



## Track-Rack Shelving and Racking System™

*“Economical stacking and racking”*

Tough, attractive, no-nonsense shelving system. Lightweight aluminium assembly makes it ideal for a wide range of food and non-food industries.

- Simple to erect, extend, or re-configure, with a rubber hammer only
- Two heights, two depths, and choice of six lengths
- All shelves can be cleaned in a commercial dishwasher
- Can be assembled to fit any size room or cut exactly to fit
- Shelf weight load tested to minimum of 425 kg (935 lbs)
- Rear-Gard, when fitted, prevents stock falling off the back of a shelf



## Safe Two and Three-Step Trolley™

*“A solid step in the right direction”*

Perfect for loading shelves in supermarkets, libraries, and shops - anywhere safety is needed to place stock upon shelves. Two or three-step versions are available

- Automatic fulcrum locks trolley in place, providing 100% safety
- Safe non-slip steps, and load-bearing top work surface
- The product of choice for big retail chains for more than 25 years
- Robust welded aluminium construction provides maximum durability
- Inexpensive to buy, and easily repaired, replaced or recycled



# Tempro™

*'A quantum leap in energy-efficient thermal protection...'*

Tempro is SMI's unique lightweight insulation material with exceptional thermal properties.

It is used across a wide range of industries including food retail and processing, pharmaceuticals, agriculture, logistics, the Ministry of Defence, and the National Health Service.

Curtains for cold rooms . . . thermal covers for pallets and roll cages . . . temporary cold rooms . . . they're all taking advantage of the cost and energy savings which Tempro provides.

It acts as a barrier material, reducing convection and preventing warm air from mixing freely with cold air by creating energy-efficient insulating gaps.

And its performance never wanes . . . Tempro's unique and fire-resistant make-up means it provides outstanding thermal protection for its entire lifetime.

So just how effective is Tempro? We asked the world renowned independent testing facility Campden BRI to put the product through its paces, and the results were impressive.



Product	Thermal Resistance			Thermal Transmittance
	Tog	Clo	U Value m <sup>2</sup> K/W	U Value W/(m <sup>2</sup> K)
TF25 <b>Tempro</b> ® 25mm Standard	6.6	4.26	0.66	1.52
TF12 <b>Tempro</b> ® 12mm Light Duty	5.4	3.48	0.54	1.85

Door Size	ROI (in months)	Annual reduction in Carbon Footprint	Equivalent vehicle mileage
<b>Cold Stop</b> ® Curtains to fit 900mm x 2300mm high	5.7	2,075.53Kg	9,204 miles
<b>Cold Stop</b> ® Curtains to fit 1000mm x 2300mm high	5.2	2,767.37Kg	12,272 miles
<b>Cold Stop</b> ® Curtains to fit 1400mm x 2300mm high	5.2	3,320.84Kg	14,726 miles
<b>Cold Stop</b> ® Curtains to fit 1600mm x 2300mm high	4.7	4,012.68Kg	17,794 miles
<b>Cold Stop</b> ® Curtains to fit 1800mm x 2300mm high	4.7	4,704.53Kg	20,862 miles



# What our customers say:



"The Tempro cover was quite remarkable, for not only did it provide the vital insulation to keep the team warm but it also withstood the frequent winter storms. It really was amazing." – explorer **Sir Ranulph Fiennes**, who chose Tempro to insulate his team's portable living quarters, research pods and two tractor units on his expedition to the Antarctic



"We were looking for a solution for our coldrooms that was highly energy-efficient, practical, cost-efficient, first quality and user-friendly. Tempro met and exceeded all these criteria." – **The Co-operative Group**

"Tempro insulated Cold-Stop curtains have enabled us to reduce cooler settings whilst maintaining optimum conditions in freezers and chill rooms – thus saving energy." – **Morrisons**



that SMI's Back-Stop has the potential to revolutionise the way in which companies such as ours operate. It is light years ahead of any similar products on the market right now." – **Ruskim Seafoods Limited**

"We approached SMI to support us developing an instant chilled space when we need it. The Cold-Korner is a flexible refrigeration solution which has helped us to maximise space." – **Waitrose**



"We initially installed one of SMI's Cold Stop curtains on a trial, and it worked really, really well. So much so, in fact, that we placed an order for another 12 sets. Not only are they helping us to save energy, they are also far more practical." – **NHS Blood and Transplant Service**

"One of the major benefits is the ease of installation and the minimum impact on the store – unlike most works in stores, this can be rolled out during the day and weekdays, reducing cost for our client." – **Northants Engineering Solutions**



"The truck fitted with Back-Stop system recorded a 58% improvement in terms of temperature retention when compared with the vehicle fitted with the original plastic curtain system." – food delivery group **apetito**

"One of our suppliers told us how much success Sainsbury's had been having with the SMI products in their fridges so we made contact. The benefits were soon apparent. We will recoup our investment in six or seven months, because of the amount of money they are saving us on our energy bills." – **Ferndale Foods**



"We are extremely happy with the results, both in product integrity and energy savings, that SMI's products are giving us," – **Royalblue Executive Services**, which offers executive jet catering to VIP clients

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