

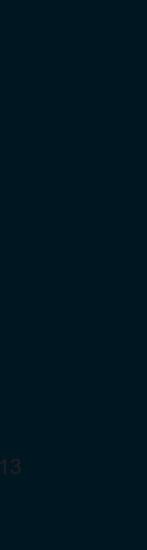
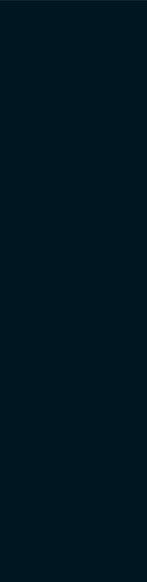


Leading the way in refrigeration insulation

How PU helps to bring our much loved delicacies to the consumer in the freshest possible condition

Whether it's red mullet, South African strawberries, Argentine steaks, French poussins or prawns from Greenland – ELASTOGRAN's PU systems deliver perfect insulation to ensure our much loved delicacies arrive ice-cold through environmentally friendly refrigeration that cuts expensive wastage. The systems are designed to work

effectively throughout all stages of the refrigeration chain – and they are suitable for much more than fine food. PU systems are also ideal for transporting sensitive items such as medication, as the insulation provided is so efficient.



A vital link in the refrigeration chain

The refrigeration chain incorporates the complete process of storage and transport from the producer to the consumer, and an effective chain guarantees the constant maintenance of the ideal storage temperature for the product transported. The more sensitive the commodity is (for example units of stored blood or perishable food), the faster the cool-boxes must connect to the terminal or onward transport.

The most crucial aspect for producers, hauliers and consumers alike is a refrigeration system that is both efficient and protects resources. This can only be achieved through perfect insulation of refrigeration containers, whether they are boxes, hangars, cupboards or shelves. And it is in this field that the PU systems of Elastopor® H, Elastopir® and Elastocool® lead the way.

Welcome to the next generation of refrigeration technology

As the need for high quality, cost-effective refrigeration





transportation that cares for the environment increases, so does the demand for high performance materials that really deliver at every step of the refrigeration chain. ELASTOGRAN's Elastopor, Elastopir and Elastocool materials all combine greater insulation capacity with innovative technology to guarantee superior refrigeration.

16:1 – the factor you can count on

Our intelligent polyurethane hard foam insulation systems offer greater sustainability, economy and environmental protection. But how?

Saving energy

When one euro pallet of deep frozen goods travels through the entire refrigeration chain – from the manufacturer's deep-freeze storage depot all the way to the consumer – 16 times more energy is saved (than was used during production) when PU insulation is used. That's an energy

conservation factor of 16:1.*

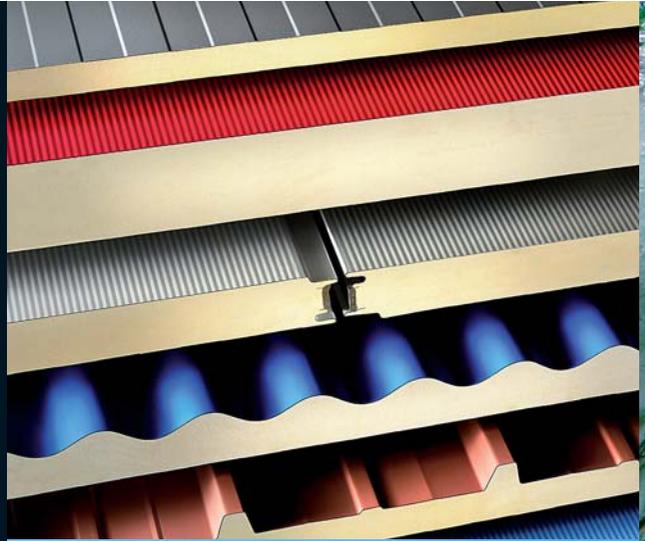
In other cases the saving can be greater still. In super-market freezing, the energy conservation is 25:1 and in refrigeration and freezing combination systems, the factor is 20:1.*

Cutting CO₂ emissions

PU insulation reduces CO₂ emissions by more than 13 per cent, as well as saving on resources by over 12 per cent.*

Green is gold

Bringing ecology and economy together under one roof is not that difficult when you already have the right people with the right ideas. Our people have developed the most groundbreaking polyurethane hard foams – Elastopor H, Elastopir and Elastocool – for use in deep-freeze halls, deep-



freeze transport, transport containers, refrigeration cells, supermarket freezers, refrigeration and freezing combination systems and even the smallest of medical transportation boxes.

A fresh forecast

As consumers demand more, transport becomes faster and more efficient; and as saving money, energy and the environment become even more important, the future will allow only the very best refrigeration chain solutions and products. After all, it's these products that will add value to companies and their customers.

ELASTOGRAN's rigid foam systems are clearly the first choice for sustainability, efficiency and cost-effectiveness. They are the systems of the future.

**The basis for these results are the current conditions of PU insulation against the lowest insulation strength available on the market today. Data established in cooperation with Öko-Institut, Freiburg.*

