



THERMAFLEX®

Sustainable insulation solutions

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Product images are for illustration purposes only. Actual products may vary in appearance.
Refer to product specifications or contact us for accurate details.

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About Thermaflex

Sustainable insulation solutions

Thermaflex is a global company, headquartered in the Netherlands, with 4 production locations, sales offices and distribution partners worldwide. We develop and produce high-quality sustainable insulation and pre-insulated piping solutions that help clients save energy and extend the system's lifespan. Our goal is to help minimize energy waste and optimize the use of natural resources.

Thermaflex founded by
Leendert Baars
1976

Direct extrusion of
polyolefin foam
1983

(H)CFC-free production
of foams
1990

Thermaflex acquires
Flexalen
2001

Worldwide sales & distribution with 4 production plants

The Netherlands, Poland,
Turkey, Thailand

Engineering and support

Thermaflex provides expert engineering assistance to help customers select the optimal solutions for their technical requirements. We offer installation trainings and project support.

Customized solutions

Thermaflex collaborates closely with customers to develop tailored solutions to their specific needs and requirements.

More than 45 years of innovation

Founded in 1976, Thermaflex quickly grew into a prominent international player, providing a wide range of smart and sustainable solutions for heating, cooling and potable water, including a revolutionary way to construct district heating networks.

Launch of
Fexalen 600
2002

Proven sustainability Cradle
to Cradle & EPD
2020

Development of TS Marine Black 2.0 to meet the
high standards of the maritime market.
2020

Sustainability at Thermaflex

At Thermaflex, our goal is to make a positive contribution to our environment by delivering sustainable insulation solutions that help minimize energy waste and optimize the use of natural resources.

We are Thermaflex. We develop and produce high-quality and sustainable insulation solutions across the world. Our innovative solutions help clients save energy and extend the lifespan of both insulations and the system it protects.

At Thermaflex, our purpose is to deliver energy savings and sustainability with high-quality, innovative insulation concepts. Lower energy consumption means lower costs for our customers and their end users, lower emissions of harmful substances, and longer service lifespans for buildings, systems, appliances, and machines. Win-win-win!

Our often customized insulation materials also offer protection, impact resistance, and sound insulation. They are suitable for many applications, including heating and cooling systems for buildings, district heating networks, transport, shipbuilding, machines, products, equipment, and packaging.

We carry out comprehensive life-cycle assessments (LCAs) for our products to demonstrate and share the environmental friendliness of our products through all stages of their life cycle. Based on these assessments we publish environmental product declarations (EPDs), certified by an external party. Through this transparent 'sustainability passport' of our products we are enabling companies to make sustainable decisions.



“Committed to combatting climate change, we reduce energy consumption and lead the transition to a low-carbon economy. The Cradle-to-Cradle certificate confirms that we produce high-quality, environmentally friendly products. Our dedication to sustainability goes beyond regulations, as we embrace renewable energy and innovate for a greener world.”

Hans de Haas
CEO *Thermaflex International*

We are supplier that has Cradle-to-Cradle certifications for its products.

The Cradle-to-Cradle Certified Product Standard is the world’s most ambitious and actionable standard for designing and making products that enable a healthy, equitable, and sustainable future. This certification is unique in the industry and is a testament to our commitment to sustainability.



**Are fully
recyclable**



**Consist of safe
materials**



**Are made in an
environmentally
friendly way**



**Minimize energy
waste and
maximize the
use of renewable
energy**

Markets & application areas



HVAC/R

Systems for heating, cooling, air conditioning and ventilation provide a comfortable and healthy indoor climate in buildings.

Construction

We offer engineers, contractors, installers and building owners energy-saving, sustainable and fire-safe insulation solutions with very high mechanical strength.



Marine

We develop exclusive insulation products for the maritime sector that exceed strict requirements.

Packaging

Products manufactured with skill and care deserve the best protection during production, transport and storage. Our insulation foam prevents damages and protects the products.



OEM

We develop tailor-made, prefabricated solutions for thermal insulation, shock resistance, sound absorption and protection against damages.

	Drainage	Heating	Sanitary	Cooling	Air Conditioning
ThermaSmart PRO tubes		●	●	●	●
ThermaSmart PRO tubes SA		●	●		
ThermaSmart PRO sheets		●	●	●	●
ThermaSmart PRO sheets SA		●	●	●	●
ThermaEco FRZ HF tubes		●	●		●
ThermaEco ZZ - tubes		●	●		●
ThermaSmart Marine - tubes		●	●	●	●
ThermaSmart Marine - sheets		●	●	●	●
ThermaCompact IS - tubes	●	●	●		
ThermaCompact IS10 - tubes	●	●	●		
ThermaCompact TF - tubes		●	●		
ThermaSmart Enev - tubes	●	●	●		
ThermaSmart Enev-Q - tubes	●	●	●		
Ultra M		●	●		
Therma PUR - tubes		●			
Therma PUR - prefabs		●			
ThermaWool Alu		●			
Specialized coatings		●	●	●	●
Alu sheet covering		●	●	●	●
ThermaLint		●	●		
ThermaLintTracing Set		●	●		

ThermaSmart® PRO



Advantages

- Condensation free system for life-time installed by qualified installer
- Low risk of corrosion
- Fast fabrication of fitting insulation - welding technique up to inner diameter 42 mm
- Prefabs available



high quality polyolefin elastomeric foam



$\lambda = 0.034$ at 0°C
 $\lambda = 0.038$ at 40°C



SBI B_L - s1 d0 (tubes)
SBI B - s2 d0 (sheets)



$\mu \geq 10.000$ (tubes)
 $\mu \geq 5.300$ (sheets)



-80 °C to +95 °C

ThermaSmart® PRO SA



Advantages

- Condensation free system installed by qualified installer
- Consistent performance - damage free, robust insulation material
- Fast installation due to self-adhesive layer
- Safety - excellent fire and smoke behavior



high quality polyolefin elastomeric foam



$\lambda = 0.034$ at 0°C
 $\lambda = 0.038$ at 40°C



SBI B_L - s1 d0 (tubes)
SBI B - s2 d0 (sheets)



$\mu \geq 10.000$ (tubes)
 $\mu \geq 5.300$ (sheets)



-80 °C to +95 °C

ThermaEco FRZ HF, ZZ



Advantages

- Halogen free product
- Multi-use system
- Affordable insulation
- Consistent performance - damage free, robust insulation material



closed-cell
polyethylene foam



FRZ $\lambda = 0.040$ at 40°C
ZZ $\lambda = 0.041$ at 40°C



E_L



WS 005



FRZ -80 °C to +100 °C
ZZ up to +95 °C

ThermaSmart® Marine 2.0 Black



Advantages

- Consistent performance with aluminum vapor barrier
- Hassle free
- Glueless installation
- Mechanical strength
- Halogen free product



polyolefin foam with
black alu foil



$\lambda = 0.034$ at 0°C
 $\lambda = 0.038$ at 40°C



PASS IMO 2010 FTP
Code Annex 1 Part 5



$\mu \geq 10.000$ (tubes)
 $\mu \geq 5.300$ (sheets)



-80 °C to +95 °C

ThermaCompact IS, IS10



Advantages

- Consistent performance – strong protective polymer coating and robust insulation material
- Easy cleaning due to smooth skin



closed-cell polyethylene foam with protective polymer coating



$\lambda = 0.040$ at 40°C



SBI B_L -s1 d0 (up to 9 mm)
 E_L - for 13-25 mm



WS 005



-80°C to +95°C

ThermaCompact TF



Advantages

- Consistent performance – strong protective polymer coating and robust material
- Effectively suppresses sounds generated in the installation



closed-cell polyethylene foam with protective polymer coating



up to 10 dBA (A)



E_L



up to +85 °C

Ultra M



Advantages

- Quick and easy installation
- Unique aesthetic appearance
- Easy cleaning due to embossed skin



cross-linked polyethylene foam with LDPE coating and zipper



$\lambda = 0.037$ at 40°C



E_L



WS01



-80 °C to +85 °C

OEM - customised solutions



We provide OEM solutions for:

- Thermal insulation
- Condensation control
- Acoustic insulation
- Shock absorption
- Protection and packaging

We offer solutions for manufacturers in the automotive, food, furniture and mattress sectors and many other equipment manufacturers. We offer durable, high-quality tailored solutions that meet specific requirements and strict safety standards.

We work to develop strong partnerships with our customers by offering practical advice about how to install and integrate our products into OEM production processes. If required, this can take the form of a co-development process, with engineering support, pre-installation and turnkey prefabricated solutions.

Our products have properties that meet our customers' most diverse requirements and the standards of the industry. Our products meet strict fire safety standards, contain no harmful substances, are fully recyclable and are often Cradle-to-Cradle certified.

Protection profiles



Advantages

- Shock resistance and mechanical strength
- Easy processability
- Lightweight, minimal volume
- Longevity
- Durability

We offer a wide range of protective and shock absorbent packaging materials that are stable and fully recyclable. Our products are used in the automotive industry, in playgrounds, for mattresses, furniture and in the transport and distribution sector.

Thermaflex insulation foam is available as a standard product (sheet, tube, profiles) in various shapes, sizes and thicknesses, and can also be supplied as a custom product to specification in various colours. We offer customers design and processing support if required. The material has a high mechanical tensile strength, while also being easy to handle. Another characteristic of our foam is its long service life, which translates into cost savings.

Thermaflex insulation foams enable a wide variety of products to be packaged and shipped in a durable, safe and robust manner. Our materials offer optimum protection against damage from shocks, bumps, falls and other mechanical factors, and also against moisture and temperature fluctuations. The light weight and limited volume deliver extra efficiency in transport and storage.

ThermaRod



Advantages

- Professional filling of construction gaps
- Flexible and easy in application
- Wide range of diameters
- Sealed cellular structure



filling space in construction



<1% after 168h
in water



Prevents water vapor on
windows and balconies



-80 °C to +95 °C

ThermaSmart® ENEV



Advantages

- German GEG compliant product range
- Consistent performance - damage free, robust insulation material
- Safety - excellent fire and smoke behavior
- Fast fabrication of fitting insulation - Welding technique up to inner diameter 42 mm



recyclable PE foam insulation for Germany



$\lambda = 0.034$ at 10°C
 $\lambda = 0.036$ at 30°C



SBI C_f -s1 d0



WS01



up to +95°C

ThermaSmart® ENEV-Q



Advantages

- German GEG compliant product range
- Condensation free system for life-time installed by qualified intaller
- Consistent performance - damage free, robust insulation material



recyclable thermoplastic foam insulation with yellow polyolefin skin



$\lambda = 0.040$ at 40°C



Class E_L



WS 005



-80°C to +95°C

ThermaWool Alu



Advantages

- Temperature resistance up to 250° C
- Wall thickness from 20 to 100 mm
- High performance aesthetics
- Quick and easy assembly
- Wool with PVC cover and plain wool (without cover)



mineral wool tubes for thermal and acoustic insulation



$\lambda = 0.037$ at 40°C



A2_L-s1 d0



up to +250 °C

Therma PUR



Advantages

- Temperature resistance to microbes and insects, as well as rot and decay
- Dimensional stability and accuracy of fit thanks to the automatic closure
- Protection against condensation and corrosion
- 100% HCFC and HFC free



polyurethane foam insulation for pipes



ThermaPur 035: $\lambda = 0,036$ at 40°C
ThermaPur 040: $\lambda = 0,040$ at 40°C



E_L (tubes)



B2



up to +110 °C

Alu sheet covering



Advantages

- Universally applicable system
- Excellent protection against mechanical damage
- Protects against the penetration of chemicals and UV rays
- Highly aesthetic design
- The riveted installation system guarantees that the insulation layer will not be damaged
- Zinc coverings & Stainless Steel also available



aluminium sheet
system for insulation
protection



0,6 mm +/-0,03
0,8 mm +/-0,03
1,0 mm +/-0,04



0.6 mm - 1.62
0.8 mm - 2.16
1.0 mm - 2.70



non-flammable



$\infty \div 600$

Specialized coatings



Advantages

- A four-ply laminate structure maintains high mechanical resistance to puncture and tearing
- High resistance to weather conditions
- Excellent UV and ozone resistance
- Guarantees 100% vapor tightness
- Lightweight and durable coating, fast and easy application
- Compliant with RoHS and REACH certification



universal self-adhesive UV-resistant
coating, silver, with vapor barrier



-80 °C to +95 °C

Heating cables



Advantages

- Solid protection of the installation against freezing
- Maintaining constant temperature of the medium
- Easy and quick assembly

Electric constant-rated heating cable fitted with appropriate controls to protect the system against freezing

Frost protection of: water service pipes and/or water meters, condensation drains, fire mains, temporary water lines on building sites, water pipes in cowsheds, sprinkler systems, pumps, valves, outside water taps, water works on boats

Electric cable designed to maintain the set temperature in the installation to protect the system against freezing

Designed to maintain the set temperature in the installation in the range of 0° C to + 40° C
Frost protection of: water service pipes and/or water meters, condensation drains, fire mains, temporary water lines on building sites, water pipes in cowsheds, sprinkler systems, pumps, valves, outside water taps, water works on boats

Tools & Accessories

Complete solutions for quick assembly

Full range of accessories to simplify the assembly process. Tools & accessories ensure trouble-free performance for many years with a minimum of energy loss.

Toolbox

Set contains:
Steel, dies, meter, clips, metribox template, glue, brush for glue, small knife, large knife, cap, installation instructions, DuctTape - grey, DuctTape - red.

Toolbag

Set contains:
Knives set, straight edge paring knife (8cm), whetstone, talmeter marking measure roll, outside calipers, folding ruler, compass scribing tool (300), compass scribing tool (150), White marker, brush for glue, straps for Knives set, squeegee blue



ThermaGlue

Adhesive designed for bonding all Thermaflex polyolefin-based insulation materials.



HeatPlate

Innovative connection technology for Thermaflex insulation using HeatPlate tool for a clean, solid bond. Available in 110V and 230V.

Our projects

City Brewery Jongens van de Wit

 's-Hertogenbosch, the Netherlands

 ThermaSmart @Pro

 Reduced 25% of energy consumption

 Application: Chilled water



"Astoria" sanatorium in Busko Zdroj

 Busko-Zdrój, Poland

 ThermaEco FRZ

 Heat loss was thoroughly minimized hassle-free

 Application: Heating networks



Customized cryogenic freezer

 Austria, Europes

 ThermaSmart@ Pro

 Cost Saving from Top Performance and Minimal Maintenance

 Application: Refrigeration OEM



Lithuanian Armed Forces Air Force Base in Siauliai (NATO base)

 Siauliai, Lithuania

 ThermaSmart PRO, ThermaEco FRZ HF tube insulation

 Energy saving and prevention of condensation

 Application: Heating and cold water applications



Virgin Voyages Cruise ship - Scarlet Lady

 Onboard Scarlet Lady at sea

 ThermaSmart Marine 2.0

 Condensation free, minimized energy lost

 Freeze, Chill and Chilled water systems





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Ready to explore tailored solutions?

Schedule a personal appointment with
our experts!



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