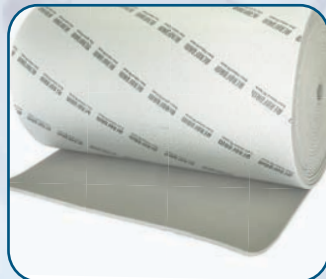
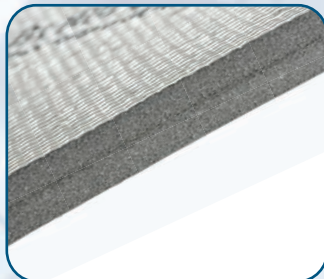


# THERMAL INSULATION FOR MEDICAL FACILITIES

**AEROFOAM<sup>®</sup>-XLPE**  
POLYOLEFIN INSULATION



**CROSS LINKED CLOSED-CELL POLYOLEFIN FOAM SUITABLE FOR CONDENSATION CONTROL, THERMAL INSULATION AND SOUND ABSORPTION.**



## THE PROBLEM - Hidden Health Risks

The indoor air pollution out gassing from building materials is a topic at least as important as the outdoor air pollution, as we spend up to 90% of our time indoors.

Even if they are not seen, the pollutants in the air we breathe like microscopic dust and fibres, biological particles such as mould spores and pollen, are always present in varying amounts. Small quantities are enough to cause or aggravate respiratory problems and discomfort.

## THE BACKGROUND - Indoor Air Quality

Even in the high tech world we live in today, many modern buildings are air tight and rely on recirculating filtered but stale air. This means that almost all gases remain within the envelope of the building. When it comes to patients from a hospital, suffering because of the poor indoor air quality can become not only an unpleasant but even a critical problem.

Our air is always contaminated not only with naturally generated pollutants (like carbon dioxide), but also with man-made pollutants like volatile organic chemicals, industrial fibres, highly acidic particles of dust, spores of mould and bacteria.

Whilst breathing these may not result in any immediate signs of illness, but may contribute towards "building related symptoms".

## THE SOLUTION - AEROFOAM® XLPE

Carefully specifying pipe and duct insulation materials can minimize the contribution to indoor air pollution and so attention should always be taken when selecting your insulation.

Being a non-fibrous, closed cell material and featuring built-in antimicrobial and antifungal protection, Aerofoam® XLPE is acknowledged as the insulation material which can not only provide the safest possible hospital environment but also help your project come in on time and on budget.

As a closed cell dust and fibre free product which inhibits the growth of mould and microbes, Aerofoam® XLPE is the ideal insulation for hospital environments where the indoor air quality is paramount.

Aerofoam® XLPE effectively saves energy whilst also preventing condensation without the need of external water vapor barriers. It is quick and easy to apply, releasing no dust or fibres during installation.



### In-built water vapor barrier

Offers a built-in resistance to the transmission of water vapour through the material (no need of external water vapor barrier).



### In-built antimicrobial & antifungal protection

Due to its low water absorption rate and its in-built water vapor barrier, mould and bacteria are inhibited. Effective resistance against microbial growth and fungi is provided even if the surface is damaged or pierced.



### Dust & fibre free

Dusty and fibrous materials create an additional health hazard, often combining with mould spores and bacteria to aggravate respiratory conditions. Aerofoam® is entirely dust and fibre free making it particular suitable for use in schools, offices and hospitals.



### Formaldehyde free

Formaldehyde is classified as a probable human carcinogen and maximum recommended exposure limits are set by the health and safety executive. Aerofoam® will not contain or outgas formaldehyde and will not contribute to overall formaldehyde levels.



### Minimal VOC

Volatile organic compounds (VOC) vaporise into the indoor environment contributing towards sick building syndrome. Being classified as minimal VOC means Aerofoam® is not contributing to this effect.

**For more technical information, please refer to the Aerofoam® XLPE catalogue.**

Manufactured by: HIRA INDUSTRIES L.L.C.

P.O. Box 50673, Dubai - UAE

Tel : +971 4 884 8414, Fax : +971 4 884 8434

E-mail: enquiry@rhira.com

Website: www.aerofoam.ae

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