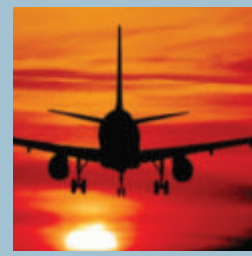




...for your life



closed cell  
chemically cross linked  
fire retardant  
**polyolefin foam**  
insulation solutions



# Trocellen... for your life

Trocellen is a group company of Furukawa, Japan and is a manufacturer of cross-linked polyolefin foams. Trocellen finds applications as insulating material in HVAC industry and offers specialized foam solutions for leisure, defense, sports, automotive & marine industries.

Trocellen meets industry specific requirements and continuously develops innovative products for most diversified needs. All Trocellen products are environment friendly that ensure maximum health benefits and comfort to end-users.

Trocellen is produced in over 15 plants located all over Europe, North America & Malaysia.

## Superior Features

- Chemically cross-linked
- High mechanical strength
- Light weight
- Lowest k-Value
- Non ageing
- Flame laminated foil
- Fire rating - Class 1 & Class 0
- Least smoke density
- Non-toxic smoke
- Single layer up to 19mm thickness

## Trocellen Green is available as

- Plain Foam
- With Metalized PE Foil
- With Aluminum Foil
- With Self-Adhesive Backing

## Economical Benefits

- Reduced waste of energy and material
- Reduction in utility bills
- No maintenance, longest lasting
- Reduced construction waste

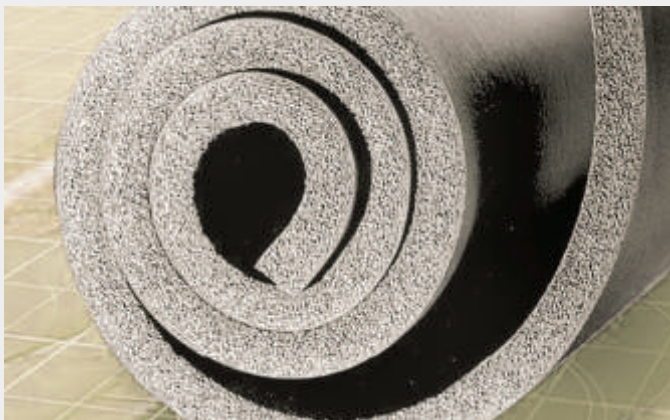


## Environmental Benefits

- CFC's, HCFC's and VOC free
- No plasticizer, heavy metals or formaldehyde
- Reduced CO<sub>2</sub> emissions
- Reusable and Recyclable
- Non hazardous
- Fibre free
- Anti-Microbial
- Low smoke emission
- Improved indoor air quality



"Ultra-Fresh is a registered trademark of Thomson Research Associates Inc."



Trocellen products come with Ultra Fresh protection that assures long lasting cleanliness and freshness. It assures protection against bacteria, mold, mildew and fungi.

- Active protection against microbial growth
- Improves indoor air quality & reduces infection risk
- Tested as per ISO 22196, ASTM G21-96 & C1338.





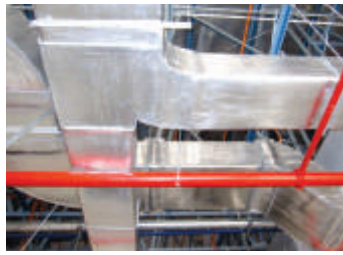
# The Longest Lasting Insulation

No deterioration in insulation properties even after 23 years of installation !!

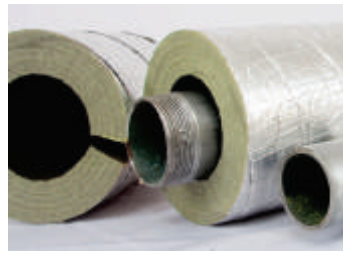
## Applications



Roof



Air Duct



Tubular Pipe



Raised Floor

### Applications

- Air Duct Insulation
- Chilled Water Pipe Insulation
- Hot Water Pipe Insulation
- Roof Insulation for RCC Slabs & Pre-Engineered Buildings
- Wall Insulation
- Raised Floor Insulation
- Under Lay for Carpets
- Under Lay for Laminate Flooring
- Expansion Joint Fillers
- Spandrel
- Packaging

### Most Suited Material for Pharma & Healthcare Applications



- Helps achieve validation compliance
- Inhibits bacterial and microbial growth
- Reduces chiller energy consumption
- Prevents condensation
- Adds value to the projects

### Thousands of Installations in :

- Commercial Buildings
- Hospitals
- Hotels
- Pharmaceuticals
- Cleanrooms
- Hypermarkets
- Airports
- Factories
- Universities
- Residential
- Sports Stadiums
- Automotive
- Defence

Approved for use inside the aircrafts as per Airbus directive ABD0031



Luxury Hotel



Super Speciality Hospital



IT Company

# Energy Savings Potential of Trocellen

- Minimize heat losses • Stable thermal conductivity due to non ageing
  - No stress corrosion • High vapor resistance
- High surface coefficient of heat transfer • Strong closed cell structure



## Contribution of Trocellen GREEN to LEED Rating

### EA - Energy and Atmosphere

A wide range of Trocellen thermal insulation contributes to enhancing the efficiency of HVAC Systems by reducing energy losses, thereby increasing the overall energy efficiency of the building.

Compliance with

- Prerequisite 2 : Minimum Energy Performance  
Credit 1 : Optimize Energy Performance (1-19 points)



### MR - Material and Resources

By causing negligible non-recyclable waste and by using in some recycled materials, Trocellen insulation product range promotes an efficient and responsible use of materials and resources.

Compliance with

- Credit 2 : Construction Waste Management (1-2 points)  
Credit 4 : Recycled Content (1-2 points)  
Credit 5 : Regional Materials (1-2 points)



### QI - Indoor Environmental Quality

Trocellen acoustic insulation solutions comply with the required criteria providing an advanced acoustic performance in building.

Compliance with

- Prerequisite 3\* : Minimum Acoustic Performance  
Credit 3 : Construction IAQ Management Plan (1 point)  
Credit 4.1 : Low-emitting Materials, Adhesives and Sealants (1 point)  
Credit 6.2 : Controllability of Systems, Thermal comfort (1 point)  
Credit 9\* : Enhanced Acoustic Performance (1 point)



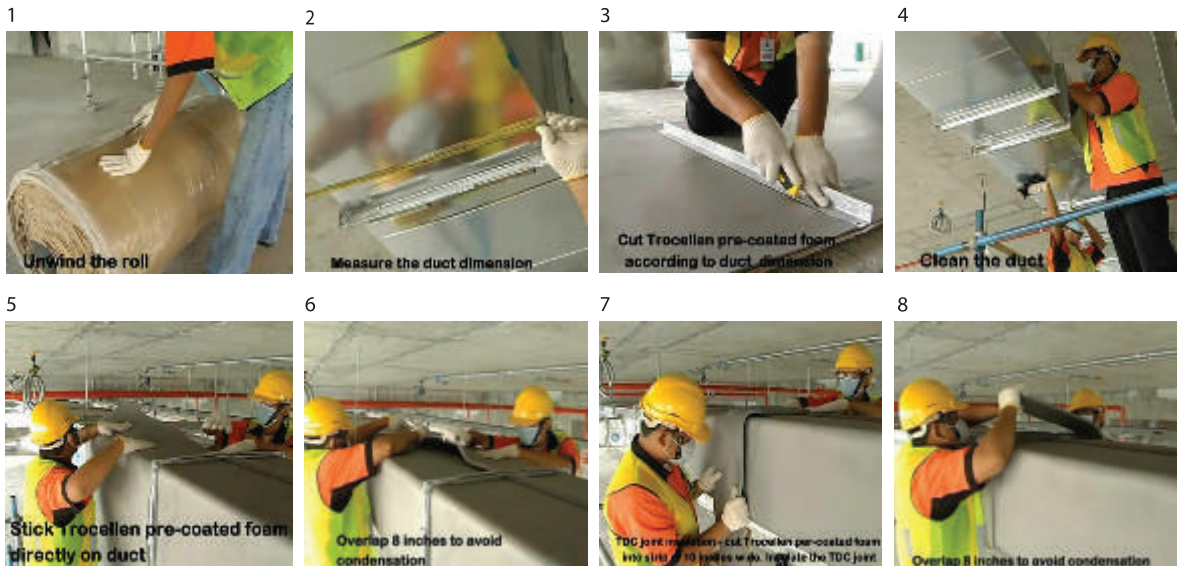
\*Credits present only in the standard LEED® for Schools



# Installation Guidelines

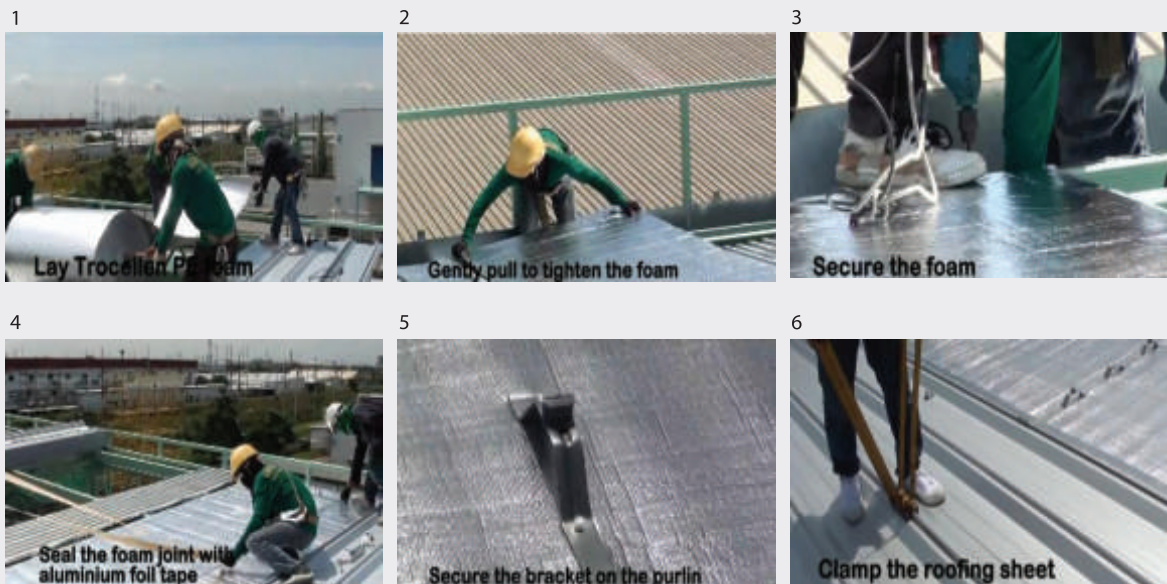
## Duct Insulation

- Trocellen Green for duct insulation is used to prevent condensation and for a long lasting and constant thermal insulation.
- Trocellen Green Duct insulation materials can be easily applied to the metal ducts through a process of pre-adhesion.
- Trocellen Tape (3mm thick x 50mm wide) can be used for sealing the longitudinal & transverse joints.



## Roof Insulation

- Trocellen Green Roof Insulation provides high performance thermal insulation and an effective vapour barrier.
- Trocellen Green Roof Insulation helps to improve indoor temperature and enables energy savings.
- Helps achieve ECBC compliance.
- Provides effective insulation under RCC slabs & Pre-Engineered roofing systems.





...for your life

#### GENERAL SPECIFICATION

Technical Data	Test Standard	Trocellen AMTG-F2
Density	DIN 53420	25-30 kg/m <sup>3</sup>
Temperature Range		-40°C to +110°C
Ageing		No Effect
Compression Set (24hr 25%)	ISO 1856	<10%
Tensile Strength	ISO 1798	0.24 Mpa
Elongation at break	ISO 1798	190%
Compression Stress	ISO 3386	10 kPa
Tear Strength	DIN 53507	0.6 N/mm
Thermal Conductivity 0°C to 25°C	IS-3346	0.032 W/mK
(k-Value) 40°C to 50°C		0.035 W/mK
Water Absorption	IS 2896	<2.2% Vol.

#### ANTIMICROBIAL ASSESSMENT

Technical Data	Test Standard	Trocellen AMTG-F2
Resistance to Fungal	ASTM C1338	No Growth
Resistance to Mould	ASTM G21-96	No Growth
Resistance to Bacteria	ISO 22196	<0.1%

#### FIRE BEHAVIOUR

Technical Data	Test Standard	Trocellen AMTG-F2
Smoke Density & Toxicity	Airbus Directive ABD0031	Dm < 200
Surface Spread of Flame	BS 476 Part 7	Class 1
Fire Propagation*	BS 476 Part 6	Class 0
Critical flux at extinguishment (CFE)	EN 45545	49.53 kW/m <sup>2</sup>
Heat release rate MARHE (max.)	EN 45545	40.1 kW/m <sup>2</sup>
Smoke generation DS(4) (max.)	EN 45545	13
VOF4 (max.)	EN 45545	7
Gas analysis CITG(4) (max.)	EN 45545	0.01
Ignitability Index	AS 1530.3	0
Spread of Flame Index	AS 1530.3	0
Heat Evolved Index	AS 1530.3	0
Smoke Developed Index	AS 1530.3	0-1
Oxygen Index	ASTM D2863	25

\* With foil lamination



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