

### GENERAL DESCRIPTION

AXEL FOAMCELL 505 is an elastomeric prefabricated cell insulation engineered with top qualities and highest standard to meet the various industry standards to ensure insulation performance.

AXEL FOAMCELL 505 is designed specifically to control condensation. The closed cell characteristic is the key component to an effective insulator by providing a barrier between the pipe's surface and atmospheric conditions.

### RECOMMENDED USES

- \* air-ducts of industrial air-condition and ventilation systems such as used in hotels, airports, hospitals, offices, certain electronic factories, shopping complexes, underground mining premises, train stations etc.
- \* Property and buildings insulation such as under decking of floors and walls and roofs to prevent cavity floors and to provide vibration, noise and heat insulation for mostly commercial or industrial buildings such as factories and offices.
- \* Industrial refrigerators such as used by frozen food manufacturers, hypermarket and liquid gas producers;
- \* Specific areas of motor vehicles, heavy automation, engines and other automated or mechanical process for vibration, noise and heat insulation and cushioning purposes.

### CHARACTERISTICS & ADVANTAGES

- \* Easy and speed installation
- \* Long term thermal performance
- \* Aesthetically pleasing
- \* Fibre and dust free duct
- \* Eco Friendly
- \* No vapour barrier required
- \* Light weight
- \* Low allergen
- \* Self-extinguishing, does not drip

### COVERAGE

Depend on design

### COLOURS

Black

### PACKING

Manufactured to order

### STORAGE

Store in a dry, cool and shaded place

### SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.



## SURFACE PREPARATIONS

The substrate shall be free from all dirt and grime. Remove all loose particles and all uneven mortar with pressure jet. Allow surface to be clean and dry before proceeding with installation.

## METHOD OF APPLICATION

The method of installation is dependable on the design criteria. For more information, please contact Axel Technical Support Division.

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and or cured material can only be mechanically removed.

## STANDARD PRE-CUT SHEET SIZES

Sheet Insulation			
Thickness		R- value (m <sup>2</sup> K/W)	U – value (W/m <sup>2</sup> K)
Inches	mm		
¾"	19	0.528	1.89

Thickness		Size		Sheets per Carton
Inches	mm	Feet	Metres	
¾"	19	4' x 3'	1.22 x 0.914	14

## TECHNICAL SPECIFICATIONS

Material	Nitrile foam rubber		
Cell Structure	Closed Cell		
Density	40kg/m <sup>3</sup> – 70kg/m <sup>3</sup>		
Service Temperature	- 50°C to 85°C		
Water vapour permeability	≤ 2.9 x 10 <sup>-14</sup> g/Pa.m.s	μ ≥ 7000	ASTM E96
Water absorption by volume	≤ 0.2 %		ASTM C209
Ozone Resistance	Good		
Corrosion Resistance	No corrosion		
Environment	Dust & Fibre Free, CFC Free, Zero ODP & GWP		
Thermal conductivity (W/m.K)	0.034 @ 0°C	0.036 @ 20°C	0.038 @ 40°C
			ASTM C518
<b>Fire Testing</b>			
Fire performance	Class 0		
Surface spread of flames	Class 1		BS476 Part 7
Fire propagation	Total Index (I) ≤ 12		BS476 Part 6
	Sub Index (i <sub>1</sub> ) ≤ 6		
Reaction to fire	V-0, 5VA/HF-1, Self-extinguishing, Does not drip		

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