





Class O Armaflex SHEET

Sound Absorption with Closed Cell Protection

New! Built-In Anti-Microbial Protection Reduces Mould and Bacteria Growth

- Dust and fibre free insulation with thermal and acoustic properties
- Impressive airborne noise absorption at problem frequencies











Class O Armaflex Sheet Sound Absorption with Closed Cell Protection

Armaflex is a flexible closed cell elastomeric sheet with a Class O fire rating and energy saving thermal performance. Being a closed cell material, Armaflex requires no external vapour barrier and will not absorb moisture by "wicking".

Armaflex has the unique capability of providing significant sound absorption while remaining completely closed cell. Aerodynamic and fan noise within the ducting can be reduced when Armaflex is used as an internal lining. Due to its excellent thermal values, Armaflex also performs as a thermal insulator which negates the need for additional thermal insulation on the exterior of the ductwork.

When Armaflex is used as an external acoustic lining, noise break-out from the duct wall can be significantly reduced.

Class O Armaflex now also comes with Microban anti-microbial protection built-in, offering enhanced resistance against bacteria and mould growth. This makes Class O Armaflex suitable for use in offices, schools and hospitals.

Armaflex is dust, fibre and formaldehyde free, and inhibits the onset of "sick building syndrome".

New Built-in anti-microbial protection reduces mould and bacteria growth

- Dust and fibre free insulation with thermal and acoustic properties
- Impressive airborne noise absorption at problem frequencies
- Meets recommended Part L energy performance when internally lining ductwork*
- Excellent de-coupling and isolation performance on pipes and ducts in contact with other structural and service elements
- Suitable for use in areas of high humidity and areas with possible oil and chemical contact
- *Applies to warm ductwork only at 32 mm thickness. Assumes a high emissivity ductwork finish.









- Anti-Microbial Protection
- Combined thermal & acoustic insulation
- In-built Water Vapour Barrier
- Dust & Fibre free
- 0 GWP
- Class O fire category
- No mechanical fixings needed



PRODUCT PROFILE		Ellindheimer.		
	Values	Remarks		
Material	Foamed nitrile rubber			
Max. Surface Temperature	+105° C	* For temperatures between -50° C and - 200° C.		
Max. Temperature for Flat Surface	+85° C	please consult our Technical Department.		
Min. Surface Temperature	-200°C*	Tel. +44 (0)161 287 7038 · Fax +44 (0)161 633 2685		
Thermal Conductivity at 0° C	0.034 W/(m · K)			
Thermal Conductivity at +20° C	0.036 W/(m · K)	Test acc. to EN ISO 8497		
Thermal Conductivity at +40° C	0.038 W/(m · K)			
Water Vapour Permeability	Moisture Resistance Factor μ 7,000 BS EN ISO 9346:1996 2.79 · 10 ⁽⁻¹⁴⁾ kg/(m s Pa)			
Water Absorption	0.2% by volume	Test acc. ASTM C 209		
Surface Spread of Flames	Class 1	Surface Spread of Flame acc. BS 476 Part 7: 1997		
Fire Propagation	Total Index Performance (I) ≤ 12 Sub Index (i ₁) ≤ 6	Fire Propagation acc. BS 476 Part 6: 1989 Test results for Surface Spread of Flames and Fire Propagation meets		
Fire Performance acc. to Building Regulation	Class O	Building Regulations 2000 (England and Wales) Building Standards (Scotland) Regulations 1990 Building Regulations 2000 (Northern Ireland) Building Regulations 1997 (Republic of Ireland) for the Class O fire category		
		Tested in accordance with UL 94		
Reaction to fire	Self-extinguishing, does not drip			
Noise Reduction	Sound Absorption Coefficient ISO 354:2003 up to 0.8	Also suitable for use in the prevention of sound passage		
Resistance to	Building Materials Very Good Chemicals Consult Product Test List Ozone Very Good	Microban antimicrobial product protection		
Environmental Aspects	ODP zero, GWP zero			
Health Aspects	Dust & Fibre Free Microban anti-microbial protection	APPROVED APPROVED APPROVED APPROVED APPROVED		

Outdoor applications: Class O Armaflex should be painted with Armafinish FR paint to the recommended thickness within 3 days. Two or more coats may be required.

Absorption coefficient and to EN ICO 254	Octave band centre frequency, Hz					
Absorption coefficient acc. to EN ISO 354	125	250	500	1000	2000	4000
at 10 mm sheet	0.02	0.04	0.08	0.19	0.53	0.44
at 32 mm sheet	0.08	0.17	0.51	0.56	0.25	0.24

acc. to EN ISO 11654	at 10 mm	at 32 mm
Weighted Sound Absorption Coefficient α _w	0.02 (H)	0.35
Sound Absorption Class	E	D

acc. to ASTM C423	at 10 mm	at 32 mm
NRC Rating	0.2	0.35



CLASS O ARMAFLEX Flat Sheet



Colour black	, skin on both	sides						
			Standard Sheet (skin on both sides)		Sheet with Self-Adhesive Backing			
Insulation Thickness mm	Width m	Length m	Reference	Carton Content m ²		Reference	Carton Content m ²	
9	0.5	2	CO-09MM	13		CO-09MM/A	13	
13	0.5	2	CO-13MM	9		CO-13MM/A	9	
19	0.5	2	CO-19MM	7		CO-19MM/A	7	
25	0.5	2	CO-25MM	5		CO-25MM/A	5	
32	0.5	2	CO-32MM	4		CO-32MM/A	4	

CLASS O ARMAFLEX Continuous Sheet





Colour black	, skin on both	sides						
							nuous Sheet with Adhesive Backing	
Insulation Thickness mm	Width m	Length m	Reference	Carton Content m ²		Reference	Carton Content m ²	
3	1	30	AC-03-99/E	30				
6	1	15	AC-06-99/E	15		AC-06-99/EA	15	
9	1	10	CO-09MM/E	10		CO-09MM/EA	10	
13	1	8	CO-13MM/E	8		CO-13MM/EA	8	
19	1	6	CO-19MM/E	6		CO-19MM/EA	6	
25	1	4	CO-25MM/E	4		CO-25MM/EA	4	
32	1	3	CO-32MM/E	3		CO-32MM/EA	3	

CLASS O ARMAFLEX Tape



Reference	Thickness mm	Length m	Width mm	Carton content	
CO-TAPE	3	15	50	12 rolls	





