

## INSTALL IT. ENJOY QUIETNESS.

# ArmaSound Barrier E

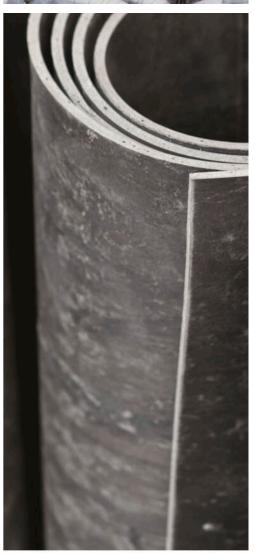
High performance noise barrier for ArmaSound Industrial Systems

- // Excellent at reducing the transmission of airborne sound
- // Enhances the insertion loss performance of pipe insulation
- // Flexible, easy to install
- // Mean sound reduction index R > 28 dB
- // Free of lead, unrefined aromatic oils and bitumen
- // Integral component of ArmaSound Industrial Systems
- // Compliant to ISO 15665 Class C and Shell DEP 31.46.00.31-Gen Class D
- // Satisfies acoustic class B according to NORSOK M-004
- // Sound Transmission Class (STC) from 25 to 31 dB

www.armacell.com.sq











#### **TECHNICAL DATA - ARMASOUND BARRIER E**

Brief description	High performance mass loaded sound barrier for a quieter environment.									
Material type	Vinyl sound barrier mat. Thermoplastic polymer compound.									
Product colour range	Black									
Special features	Does not contain lead, unrefined aromatic oils and bitumen.									
Product range	Sheets / rolls in 2, 3 and 4 mm thickness (nominal values). ArmaSound Barrier E is also available with and without a self-adhesive backing on demand.									
Applications	Flexible sheet for	r noise control in industrial	applications - designed as ar	n integral component of ArmaSound Ir	ndustrial Systems.					
Installation	Please refer to th	nical Services.								
Property	Value / Assessm	Standard / Test method								
Temperature range										
Service temperature	Min. °C	Min. °F	Max. °C	Max. °F						
	-20	-4	65	149						
Fire performance										
Practical fire behaviour	Self-extinguishing	FMVSS 302								
Physical attributes										
Mass per unit area	2mm: 4.8 to 5.50 k 3mm: 7.2 to 8.25 k 4mm: 9.7 to 11.0 k									
Mechanical properties										
Tensile strength	≥ 1.8 MPa (≥ 261 p	si)			ISO 37 <sup>1</sup>					
Elongation	≥ 25%				ISO 37 <sup>1</sup>					
Acoustic performance										
Reduction of structure-borne sound transmission <sup>2</sup>	for 3 mm thicknes	ss (7.5 kg/m²)*1: Mean soun	reduction index Rw: > 28 dB. d reduction index Rw: > 30 df l reduction index Rw: > 31 dB		ISO 10140-2					
Sound transmission class, STC <sup>2</sup>	2mm (5 kg/m²): 28 3mm (7.5 kg/m²): 3 4mm (10 kg/m²): 3	ASTM E 413 <sup>3</sup>								
System acoustic insertion loss	When used as part Gen Class D.	- ISO 3741, ASTM E1222, ISO 15665								
Other technical features										
Adhesion and fixing	clips (or blind rive		nd final securing. 50 mm lon	n wide stainless steel bands with wing g x 0.5 mm thick x 19 mm wide -	3					
Application conditions <sup>4,5</sup>	Application tempe Max. relative hum	rature: +5 to +35°C (+41 to 9 idity: 80%	95°F)							
Shelf life <sup>6</sup>	Max. 3 years									
Storage	Material shall be s	stored indoors, in clean and	dry conditions, away from di	rect sunlight.						
1			_							

<sup>&</sup>lt;sup>1</sup>Type 1 dumb-bell test piece. Maximum specimen thickness according to the test standard is 3mm.

<sup>&</sup>lt;sup>2</sup>Nominal values.

 $<sup>^{\</sup>rm 3}\textsc{Based}$  on single test results. Can be used for information / reference only.

Application temperature refers to the ambient temperature during installation and the surface temperature of the substrate (e.g. ArmaClad Arma-Chek R covering) to which the product is installed.

<sup>&</sup>lt;sup>5</sup>For environmental conditions outside the given range, please contact Technical Services.

<sup>&</sup>lt;sup>6</sup>Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

#### Sheet - standard. Black

Other information

Remarks

Item	2-E-03 3			Width (m)		Length [m]		2.5 m <sup>2</sup> 2.5 m <sup>2</sup> 2.5 m <sup>2</sup>	
ASD-BAR-E-02			1.25						
ASD-BAR-E-03				1.25 1.25					
ASD-BAR-E-04									
Roll - jumbo. Bla	ack								
ltem	Thickness [mm]	Thickness [Inch]	Density [kg/ sqm]	Density [lbs/ sqft]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [imperial]
ASD-BAR-E-04/ EW7	4	0.16	10	2	1.22	48	7.62	25	1 piece
Roll - jumbo. Bla	ack								
Item	Thickness [mm]	Thickness [Inch]	Density [kg/ sqm]	Density [lbs/ sqft]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [imperial]
ASD-BAR-E-02/ EW80	2	0.8	5	1	1.22	48	80	262.47	1 Piece 2
ASD-BAR-E-03/ EW55	3	0.12	7.5	1.5	1.22	48	55	180.45	1 Piece 2
ASD-BAR-E-04/ EW40	4	0.16	10	2	1.22	48	40	131.23	1 Piece 2

Other dimensions can be supplied on request.

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

