

ArmaSound Industrial Systems

Acoustic Pipe Insulation Systems Which Minimise Corrosion Under Insulation

ArmaSound Industrial Systems are high performance acoustic and thermal insulation systems for industrial, marine and offshore environments. The sandwich system of Armaflex, ArmaSound RD 240 and Arma-Chek R covering reduces the risk of corrosion under insulation (CUI) and provides exceptional noise reduction while minimising total system weight and thickness.

Compliant to ISO 15665 Classes A to C and Shell DEP 31 Class D. Other standards met include Norsok R-004 Classes 6, 7 and 8 and ASTM E 1222.

» **Benefits and Special Product Attributes**

- » Combined thermal and acoustic properties
- » The "built-in water-vapour-barrier" provides continuous long-term thermal efficiency
- » Significantly reduced insulation thickness and overall system weight
- » Prevents condensation by using closed cell technology
- » No galvanic corrosion
- » Non-metal cladding system - reduces Health and Safety risks
- » Resists UV, oil, chemicals and weatherisation
- » Considerable reduction in maintenance costs
- » Dust & Fibre free
- » ISO 15665 and ASTM E1222 compliant

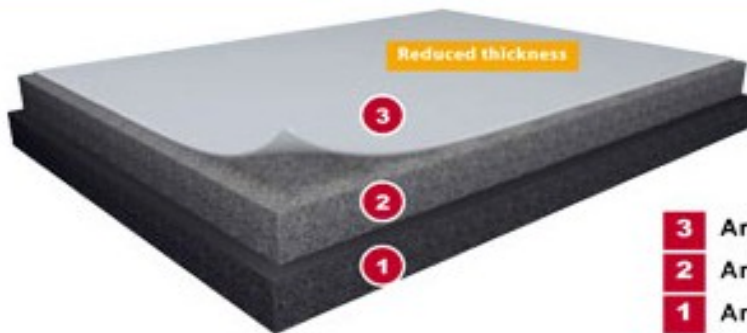
» ArmaSound Industrial System A (EL)



- 2** Arma-Chek R 2 mm
- 1** Armaflex 25 mm

Test Results	Octave band centre frequency, Hz						
	125	250	500	1 000	2 000	4 000	8 000
Class A2							
Insertion Loss, dB	1.4	- 3.7	3.9	12.8	18.9	28.6	38.9

» ArmaSound Industrial System B (EL)



- 3** Arma-Chek R 2 mm
- 2** ArmaSound RD 240 25 mm
- 1** Armaflex ⁽¹⁾ 13 mm

Test Results	Octave band centre frequency, Hz						
	125	250	500	1 000	2 000	4 000	8 000
Class B2							
Insertion Loss, dB	0.9	0.8	9.2	17.2	28.6	38.2	42.0

(1) If thermal considerations for cold applications should be made: Class B will also be achieved with a 25mm layer of Armaflex in place of the 13mm layer.

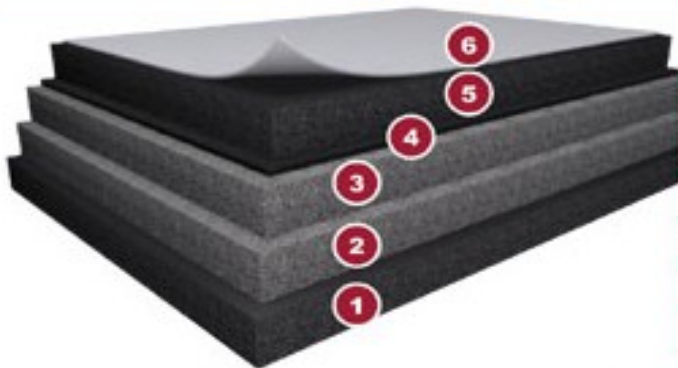
» ArmaSound Industrial System C (EL)



- 5** Arma-Chek R 2 mm
- 4** ArmaSound Barrier E 2 mm
- 3** ArmaSound Barrier E 3 mm
- 2** ArmaSound 240 25 mm
- 1** Armaflex 25 mm

Test Results	Octave band centre frequency, Hz						
	125	250	500	1 000	2 000	4 000	8 000
Class C2							
Insertion Loss, dB	-1.2	11.8	16.3	24.3	36.0	49.8	47.6

» ArmaSound Industrial System D (EL)



- 6** Arma-Chek R 2 mm
- 5** Armaflex 25 mm
- 4** ArmaSound Barrier E 4 mm
- 3** ArmaSound 240 25 mm
- 2** ArmaSound 240 25 mm
- 1** Armaflex 25 mm

Test Results	Octave band centre frequency, Hz						
	125	250	500	1 000	2 000	4 000	8 000
Class D2							
Insertion Loss, dB	-3.3	5.1	15.6	37.2	48.8	49.7	45.6

» Applications Areas

	Ductwork	Industrial Process Pipes	Waste Water Pipes
Breakout Noise	✓	✓	✓

» Components of ArmaSound Industrial Systems

ARMAFLEX

Armaflex is the worlds leading flexible elastomeric insulation material. Combining an excellent thermal conductivity with a closed cell structure, Armaflex is renowned for its built-in water vapour barrier, its resistance to water ingress and its long term durability. Unlike other insulation materials Armaflex requires no external vapour barrier and will maintain its thermal properties over a long period of time.

As a dust and fibre free material Armaflex has the ideal combination of properties that make it the thermal insulation material of choice for many large scale industrial and offshore projects.

ARMASOUND RD 240

Delivering optimal performance at lower thicknesses than traditional materials, ArmaSound RD 240 is a uniquely advanced open cell acoustic insulation material. Depending on the thickness chosen, ArmaSound RD 240 offers excellent sound absorption behaviour across the frequency range.

Thanks to a density much greater than traditional acoustic absorption materials, ArmaSound RD 240 is also suitable for some applications that may also call for an acoustic airborne noise barrier.

ArmaSound RD 240 provides a dust and fibre free solution that is suitable for use in a range of demanding environments.

ARMASOUND Barrier E

Vinyl sound barrier mat loaded with naturally occurring minerals. The product is free of lead, unrefined aromatic oils and bitumen. It is excellent at reducing the transmission of airborne sound and in enhancing the insertion loss performance of pipe insulation.

ARMA-CHEK R

Arma-Chek R is a particularly resilient, non metallic, covering system. Markedly reducing the corrosion and installation issues associated with metallic covering systems Arma-Chek R has been designed to work in harmony with Armaflex insulation, expanding and contracting as required. It is also used to enhance the insertion loss performance of our acoustic insulation systems.