

## *ArmaSound* **RD**

**The high performance sound absorption for a quieter environment**



ArmaSound is a versatile acoustic absorber designed for use in a variety of different acoustic applications. A high performance sound absorber which also offers additional barrier (transmission loss) performance and both vibration damping and de-coupling (isolation) properties.

Delivering optimal performance at lower thicknesses than traditional materials, ArmaSound RD is a uniquely advanced open cell acoustic insulation material. With a peak absorption frequency determined by the insulation thickness and the material density ArmaSound RD can be engineered to target specific problem frequencies.

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



### Sound Absorption



- ▶ Open cell structure with complex pore geometry allows for effective absorption of air-borne sound across a broad frequency range
- ▶ Unique combination of physical properties allows absorption to be maximised at key “nuisance” frequencies

### Sound Barrier (Transmission Loss)

- ▶ Relatively high density and high flow resistance offers an effective barrier to sound
- ▶ May be suitable for use as an alternative to complex ‘foam-barrier’ multi-layers

### Vibration Damping and DeCoupling (Isolation)

- ▶ Visco-elastic properties help dampen or deaden resonance effects in metal panelwork (e.g. enclosures or ducting) which helps to reduce associated ‘re-radiation’ effects
- ▶ Reduces structure-borne noise transmission when used as isolation pads

Technical Data ArmaSound RD 240				
	Values	Remarks		
Max. Surface Temperature	+105° C	For temperatures below -20° C and above +105° C, please consult our Technical Department. Tel. +44 (0)161 287 7038 · Fax +44 (0)161 633 2685		
Max. Temperature for Flat Surface	+85° C			
Min. Surface Temperature	-20° C			
Fire Performance	in accordance with UL94 V0 in accordance with FMVSS 302 Pass			
Density	240 kg/m <sup>3</sup>			
Tensile Strength	190 kPa			
Elongation	54%			
Resistance to Chemicals	Organic solvents Very Good Dilute inorganic acids & bases Very Good Mineral oils Very Good	For more comprehensive list please consult our Technical Department. Tel. +44 (0)161 287 7038 · Fax +44 (0)161 633 2685		
Health Aspects	Dust & Fibre Free			
Armaflex Adhesive 520 is recommended.				

Typical Performance ArmaSound RD 240			
Application	Typical Reduction	Used System	Legislation met
Pipelines	Up to 55dB	Combination System ArmaSound RD & Arma-Chek Systems	Class A, B & C acc. to ISO 15665 Class A, B, C & D acc. to Shell DEP Spec. No. 31
Waste water pipes	Up to 20dB	Combination System ArmaSound RD & Arma-Chek Systems	na
Washing machines	8dB	10 mm	na
Vacuum cleaners	10db (peak)	6mm	na
General Enclosures	Up to 25db	10-25mm	na
Generators	Up to 20dB	15mm	Various European Noise Standards
Telecommunication	Up to 20dB	15mm	ETSI 300 (Noise Standards)



**Armacell UK Limited**  
 Mars Street Oldham, Lancs. OL9 6LY  
 Tel +44 (0)161 287 7100 · Fax +44 (0)161 633 2685  
 www.armacell.com/uk · info.uk@armacell.com



All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended by the recipient. For updates to this document please refer to our website [www.armacell.com/uk](http://www.armacell.com/uk).