

INSULATION JUST GOT BETTER

# ArmaGel<sup>®</sup> Rail

Double-sided laminated flexible aerogel insulation blanket

Handling Manual

[www.armacell.com/armagel](http://www.armacell.com/armagel)



 **armacell**<sup>®</sup>  
ArmaGel<sup>®</sup>

## About ArmaGel Rail

Welcome to the next generation of aerogel insulation technology.

Environmentally safe. Superior thermal performance.

Certified in accordance to EN45545-02



## Before you start

Personal protective equipment (PPE) and safety considerations: ArmaGel Rail will produce some amounts of dust particles - for your comfort some PPE measures are recommended.

## Working with ArmaGel Rail



Figure 1:  
Personal protective equipment

ArmaGel Rail will produce some amounts of dust and fibers during handling and cutting which must be managed in accordance with local regulations. See ArmaGel safety data sheet at [www.armacell.com/armagel](http://www.armacell.com/armagel).

For worker comfort we recommend the PPE shown above.

## Material Handling and storage

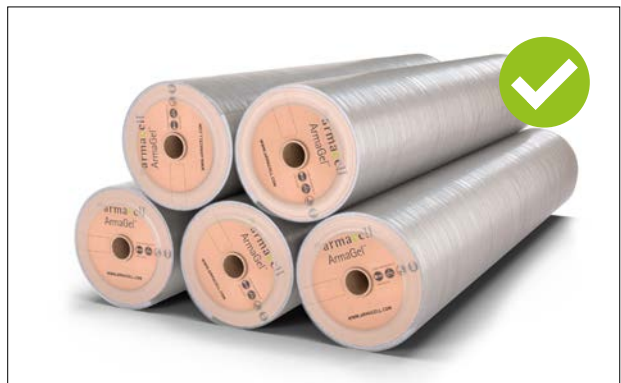


Figure 2:  
Correct storage conditions

ArmaGel Rail rolls must always be laid / stacked sideways, never on end and always stored under cover and in dry conditions.

## Application details

### Fabrication



Figure 3:  
Cutting ArmaGel Rail

Use a cutting machine to cut ArmaGel Rail to the required shape and size.

### Tools



Figure 4:  
Fabrication tools

To fabricate small quantities, simple tools can be used.

### Application

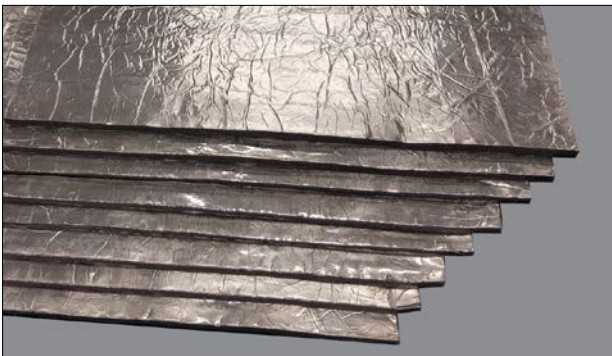


Figure 5:  
Application of aluminium tape

Clean the surface of ArmaGel Rail with a clean cloth before applying the aluminium tape.

### Application of aluminium tape

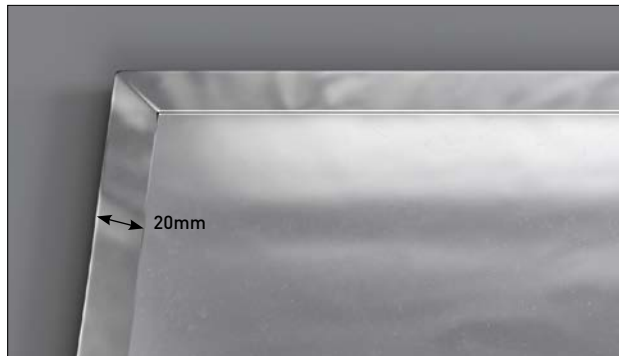


Figure 6:  
Correct application of aluminium tape with overlap

Apply 50mm wide of self-adhesive aluminium tape to all edges. Ensure that the aluminium tapes are adhered tightly to all edges without any gaps.

### Recommended minimum pipe size for various ArmaGel Rail blanket thickness on straight piping.

| Pipe Size: NB (INCH) (mm) | ArmaGel Rail Insulation Blanket Thickness (mm) |    |    |    |
|---------------------------|--|----|----|----|
|                           | 5  | 10 | 15 | 20 |
| 1 (35)                    | ✓  | ✗  | ✗  | ✗  |
| 2 (60)                    | ✓  | ✓  | ✗  | ✗  |
| 3 (89)                    | ✓  | ✓  | ✓  | ✗  |
| 4 (114)                   | ✓  | ✓  | ✓  | ✓  |
| 5 (140)                   | ✓  | ✓  | ✓  | ✓  |
| 6 (169)                   | ✓  | ✓  | ✓  | ✓  |
| 8 (219)                   | ✓  | ✓  | ✓  | ✓  |
| 10 & Above                | ✓  | ✓  | ✓  | ✓  |

Notes:

- ✓ Indicates blanket thickness that can be used when bending round a given pipe size.
- ✗ not recommend.
- Outer diameter (mm) of pipe size can also be used for the outer diameter of a flanged fitting when applying ArmaGel Rail.

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## ABOUT ARMACELL

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As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,200 employees and 27 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 high-tech and lightweight applications and next-generation aerogel blanket technology.

For more information, please visit:  
[www.armacell.com/armagel](http://www.armacell.com/armagel)

