

INSULATION JUST GOT BETTER

# ArmaGel HT

Faster and simpler installation experience with Armacell's innovative ArmaGel HT insulation blanket. Forget about fabricating complicated elbows under time-pressure and challenging site conditions.

Our two-piece bend installation is proven to save you valuable time on your install.

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

two-piece  
bend  
installation



Enhanced corrosion under insulation (CUI) protection with less insulation seams and joints\*

 **armacell**<sup>®</sup>  
ArmaGel

Ultra-thin  
and Flexible

Superior  
Thickness  
Range

Advanced  
Thermal  
Performance

# ARMAGEL: THICKER AND FLEXIBLE. TIME SAVINGS ON INSTALLATION.



ArmaGel HT is rewriting the script when it comes to aerogel-based insulation. Our unique manufacturing process delivers an insulation blanket offering greater flexibility than conventional technologies and a positive thickness tolerance. With these unique features, customers' experience greater confidence in achieved thermal insulation performance, CUI and a lower total installed cost.

## Introducing our new two-piece bend installation technique.

Unlike other semi-flexible insulation blankets, ArmaGel HT can be fabricated and installed on elbow fittings with two piece fitting covers. This method is suitable for all pipe sizes.



## Your advantages:

- // **Greater thickness range:** 20mm thickness can be applied 2x faster than any other aerogel blanket
- // **Installation time savings:** one method for all pipe sizes and wraps without folding/creasing so that thicker sheets can be applied
- // **Reduce fabrication time:** fittings can be pre-cut
- // **Reduce labour costs:** due to elbow fabrications versus conventional segments
- // **Reduce heat loss:** with two-piece elbow fitting
- // **Less waste:** ArmaGel HT is more forgiving and can be fitted under compression without gaps (e.g. less rework)
- // **No cracking** on small bore pipe applications

\* Two-piece elbows have less joints than a conventional segmented elbow, reducing the risk of water ingress at joints. (see previous page)

## Thickness guide for ArmaGel HT when installing on straight pipes or a 2-piece bend

Pipe size (Nominal Bore)		ArmaGel HT insulation thickness (mm)			
Inch	(mm)	5	10	15	20
1	(35)	✓	-	-	-
2	(60)	✓	✓	-	-
3	(89)	✓	✓	✓	-
4	(114)	✓	✓	✓	✓
6	(169)	✓	✓	✓	✓
8	(219)	✓	✓	✓	✓
10 & above	(273)	✓	✓	✓	✓

### Legend:

- ✓ Thickness can be used without cracking or damage when bending around the pipe surface
- Not recommended

Up to  
**57%**  
Labour Saving

## Real Time (NORMS) ArmaGel HT two-piece bend method versus industry standard segment method

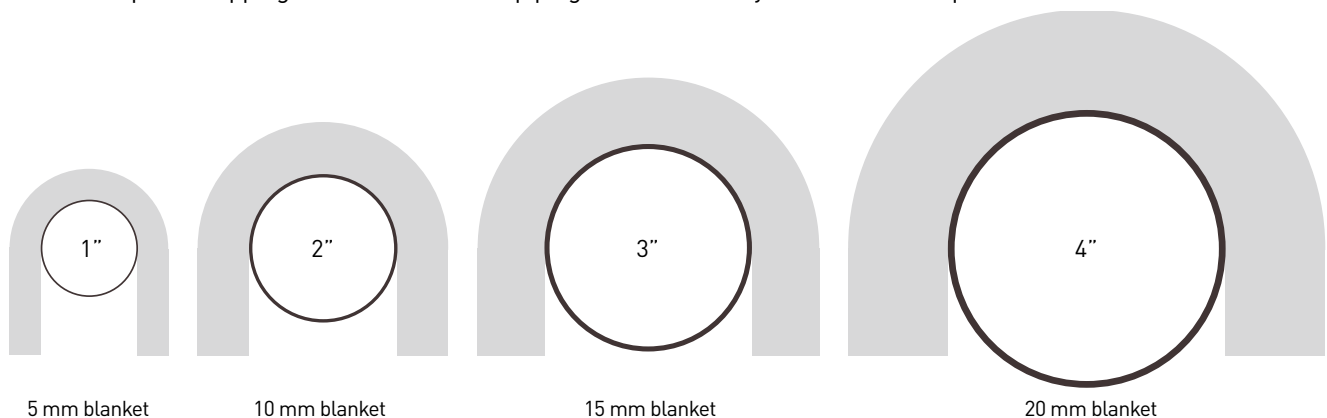
Elbow pipe fitting		Marking & cutting time (min/sec)		Installation time (min/sec)		Total time (min/sec)		Labour cost saving (%)
Pipe size (Nominal Bore)	Inch (mm)	2-Piece bend	Segment elbow	2-Piece bend	Segment elbow	2-Piece bend	Segment elbow	Armacell vs conventional
1	(35)	0.45	1.20 (3 parts)	1.05	1.35	(1.50)	(2.55)	37%
2	(60)	1.00	1.35 (4 parts)	1.25	2.05	(2.25)	(3.40)	34%
3	(89)	1.05	1.55 (5 parts)	1.40	2.55	(2.45)	(4.50)	43%
4	(114)	1.15	2.05 (5 parts)	1.50	4.20	(3.05)	(6.25)	52%
6	(169)	1.25	2.25 (7 parts)	3.09	6.12	(4.34)	(8.37)	47%
10	(273)	2.02	3.50 (9 parts)	4.16	11.0	(6.18)	(14.50)	58%

### Notes:

1. (Parts) represents the number of segments for the applicable elbow pipe fitting size.
2. Fabrication and cutting of ArmaGel HT is assisted by the use of the appropriate metal template.
3. All NORMS are only inclusive of the actual time to cut and install the appropriate insulation components contained within each bend.
4. All ArmaGel HT fixed and secured with insulation wire 0.40mm thickness as required. (segments = 1 x wire for each part within bend).
5. Application proof point testing by Armacell Application Service Team.

## Minimum pipe size application: by thickness

The method of "spiral wrapping" on small diameter piping is not necessary. No V-Groove required.



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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 3,135 employees and 24 production plants in 16 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](http://www.armacell.com).

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

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