



INSTALL IT. BENEFIT FROM  
THE RANGE.

# Tubolit AR Fonowave

PE endless insulation tube with sound  
wave profile for plastic waste water  
pipes

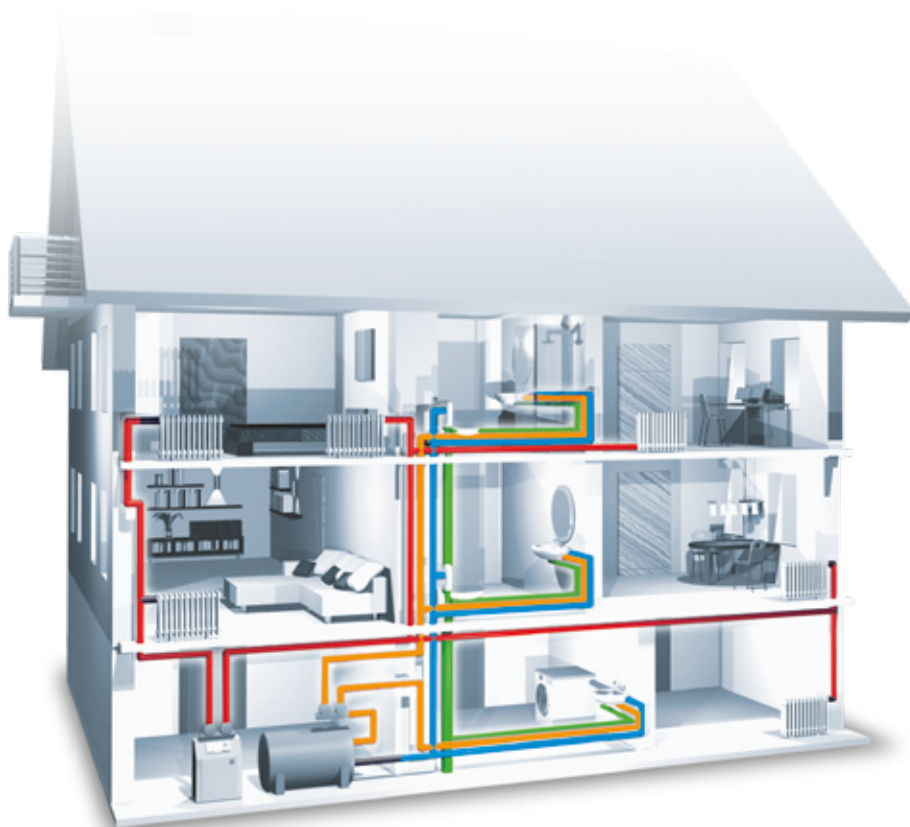
- // Improved acoustic comfort: < 11dB (A) on plastic pipes
- // Easy application over flanges and elbows
- // Durable outside coating for protection



 **armacell**<sup>®</sup>  
ArmaLight<sup>™</sup>

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# ArmaLight Tubolit



ArmaLight Tubolit saves energy, improves acoustic comfort in buildings and protects pipes installed within the building shell. ArmaLight Tubolit is the most complete range of thermal, acoustical and protective insulation products for installations of heating, domestic hot and cold water and sewage pipes in both residential as well as public and commercial buildings.

— Heating      — Domestic hot water  
— Cold water pipes      — Waste water

## Typical application areas

Product	Type of installation				Additional Benefit /Requirement				
	Heating	Domestic hot water	Cold water pipes	Waste water	Extra protection	50% faster application	Noise reduction	Under plaster	Under floor
ArmaLight Tubolit									
DG	•••	•••	••						
DG self-seal	•••	•••	••			✓			
DG-B1	•••	•••	••						
DG Plus	•••	•••	••						
S	•••	•••	••		✓		✓	✓	
S Plus			•••		✓		✓	✓	
DHS Quadra	•••				✓		✓		✓
AR Fonowave				•••	✓		✓		
AR Fonoblok				•••	✓		✓		

## TECHNICAL DATA - TUBOLIT AR FONOWAVE

Brief description	Flexible, closed-cell extruded insulation material to reduce noise and prevent condensation especially on plastic waste water, rain water and sewage pipes.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Additional material information	Self-adhesive coating on tapes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Product colour range	Blue
Special features	Foil coating on outer surface for additional protection of insulation surface. Specially wave-shaped inner surface provides excellent acoustical performance on plastic pipes.
Applications	Acoustical and thermal insulation of internal waste water, rain water and sewage pipes in residential and non-residential buildings. For complex and large diameter rain collecting and (roof-) drainage pipes, to provide optimal protection against the risk of condensation, we recommend using ArmaFlex insulation.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a> .

Property	Value / Assessment	Standard / Test method		
<b>Operating temperature</b>				
Operating temperature	Maximum temperature: 100°C +85 °C for tapes Minimum temperature: As is usual in plumbing and heating installations	EN 14707, EN 14313		
<b>Thermal conductivity</b>				
Declared thermal conductivity	<table border="1"> <tr> <td> <math>\vartheta_m</math>  <math>\lambda d \leq [W/(m \cdot K)]</math>                      Range                      Formula                 </td> <td>                     40°C                      0.045                      Tubolit AR Fonowave, Tubolit AR tape  <math>[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000</math> </td> </tr> </table>	$\vartheta_m$ $\lambda d \leq [W/(m \cdot K)]$ Range Formula	40°C 0.045 Tubolit AR Fonowave, Tubolit AR tape $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$	EN ISO 13787, EN ISO 8497
$\vartheta_m$ $\lambda d \leq [W/(m \cdot K)]$ Range Formula	40°C 0.045 Tubolit AR Fonowave, Tubolit AR tape $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$			
<b>Fire Performance and Approvals</b>				
Reaction to fire	Tubolit AR Fonowave : E(L) Tubolit AR tape : E	EN 13501-1, EN ISO 11925-2		
<b>Physical attributes</b>				
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EN 822, EN 823, EN 13467		
<b>Acoustic performance</b>				
System acoustic insertion loss	on plastic waste water pipes $\leq 11$ dB(A)	EN 14366		
<b>Health and environment</b>				
Additional features	SCCP, MCCP-free			
<b>Other technical features</b>				
Shelf life	Tapes self-adhesive: 1 year			
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C –35 °C).			

**Coil. Blue**

Pipe Ø [mm]	Item	Content [metric]
57	CO-50/9-ARW	80 m
75	CO-70/9-ARW	60 m
90	CO-90/9-ARW	50 m
110	CO-100/9-ARW	40 m
125	CO-125/9-ARW	40 m

**Tape – insulation. Tape. Blue, low-density Polyethylene foam (PEF) with protective PE-coating and self-adhesive layer.**

Item	Description	Thickness [mm]	Width [mm]	Length [m]	Content [metric]
TL-TAPE/50-ARW	Tape with self-adhesive layer, LDPE foam based covered with blue foil.	3	50	15	12 roll

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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## ABOUT ARMACELL

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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.



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