



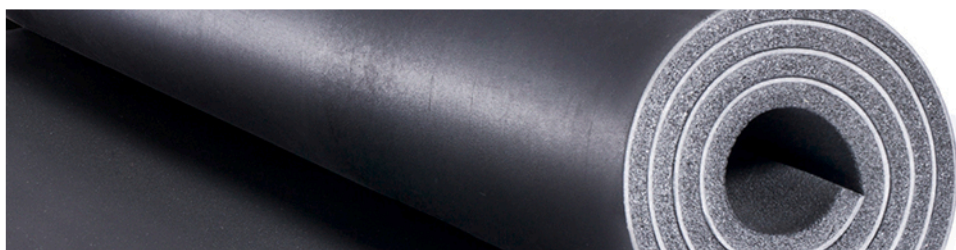
INSTALL IT. ENJOY QUIETNESS.

ArmaComfort AB

Highly flexible acoustic comfort

- // Specially designed to reduce noise of rainwater and waste pipes
- // Thin acoustic lagging with high performances
- // Flexible, easy to apply and maintain
- // Free of lead, fiber, unrefined aromatic oils and bitumen

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ArmaComfort AB



NOISE CONTROL KEY TERMS

// **Sound** is a mechanical vibration which is perceived by the human ear in the frequency range 16 Hz to 16.000 Hz.

// **Frequency** is the number of vibrations per second. The pitch rises as frequency increases. The most important range for building acoustics lies between 100 Hz and 3150 Hz.

// **Sound Insertion loss** is the difference in sound levels measured between the bare pipe and the pipe with insulation. Such a measurement of sound reduction in dB(A) provides a direct indication of the improvement due to an acoustic solution.

// **Bel (B) and decibel (dB)** are relative units and represent the ratio between two acoustic quantities on a logarithmic scale.

// **Decibel (A), dB (A)** weights the volume according to frequencies. In this way it is possible to achieve a measurable representation of noise as it is perceived. Depending on the frequency, the human ear perceives tones of the same sound pressure as being of different loudness.

TECHNICAL DATA - ARMACOMFORT AB

Brief description	ArmaComfort AB combines the acoustic performance of an excellent and flexible acoustic barrier of 2 mm thickness and 4 kg/m ² of weight with a damping ArmaFlex flexible elastomeric foam of 9 mm.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier of 2mm thickness with an aluminium foil and a 9mm thick decoupling elastomeric foam based on synthetic rubber.
Product colour range	Black
Applications	ArmaComfort AB is widely used as an acoustical insulation of waste water, rain water and sewage pipes in residential and non-residential buildings.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature ^{1,2}	Max. °C		EN 14304
	110		
Thermal conductivity			
Declared thermal conductivity	Θm	0 °C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,040	
	Formula	[40 + 0.1· Θm + 0,0009 · Θm²]/1000	
Fire Performance and Approvals			
Reaction to fire	D-s2,d0		EN 13501-1, EN 13823, EN ISO 11925-2
Physical attributes			
Mass per unit area	11mm thickness: 3.7 - 5.0 kg/m²		
Dimensions and tolerances	Thickness: 11 mm ± 1.6 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%		EN 13467, EN 823, EN 822
Acoustic performance			
Weighted sound reduction index, Rw [C ; Ctr] [dB]	Rw = 26 dB [C;Ctr] = [-1;-3] dB		ISO 10140-2, ISO 10140-1, EN ISO 717-1
System acoustic insertion loss	on plastic waste water pipes ≤ 14 dB(A) on Geberit PE HD ≤ 16 dB(A) on Geberit Silent db 20 ≤ 18 dB(A)		EN 14366
Sound Reduction Index (graph)			ISO 10140-1, ISO 10140-2

¹Minimum service temperature: as usual in heating and plumbing systems.

²For rainwater pipes with the requirement of condensation prevention, please contact our Customer Service Centre.

Roll - standard. Black

Item	Thickness [mm]	Width (m)	Length [m]	EAN	Primary content [metric]
AO-11-99/E-AB	11	1	2	7612207393736	2 m²
Other information					
Remarks		Primary content available as a roll, packed in carton. ArmaComfort AB must be applied with ArmaFlex 520 and ArmaComfort TAPE-PE-FE904 (IESIA00900923)			

HT/ArmaFlex S . Tape – PVC. Black

Item	Thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [pieces]
TAPE-PE-FE904	0,23	50	25	7612207318906	30 roll

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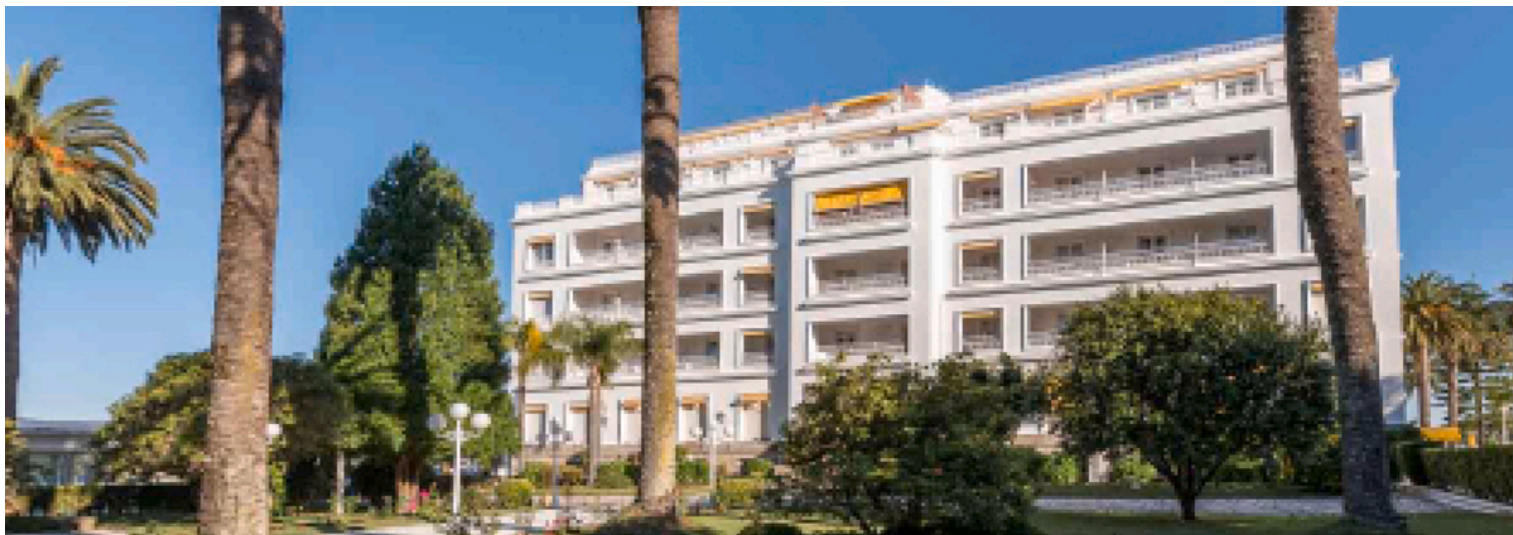
ArmaComfort | ArmaComfort AB | Brochure | 062023 | en-DE

ABOUT ARMACELL

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 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 acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



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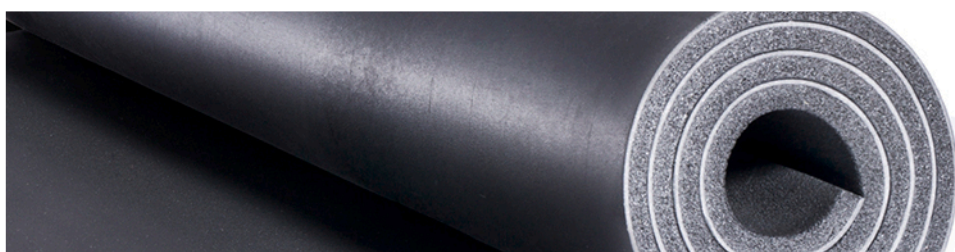
INSTALL IT. ENJOY QUIETNESS.

ArmaComfort AB Plus

Highly flexible acoustic comfort

- // Specially designed to reduce noise for rainwater and waste pipes
- // Thin acoustic lagging with high performance
- // Pre-cut self-adhesive sheets available
- // Easy to apply and maintain

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TECHNICAL DATA - ARMACOMFORT AB PLUS

Brief description	ArmaComfort AB plus combines the acoustic performance of an excellent and flexible acoustic barrier of 2 mm thickness and 4 kg/m² of weight with a damping ArmaFlex flexible elastomeric foam of 9 mm.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier and an elastomeric foam based on synthetic rubber.
Product colour range	Black
Special features	ArmaComfort AB Alu Plus offers outstanding durability.
Applications	ArmaComfort AB Plus is widely used as an acoustical insulation of wastewater, rainwater and sewage pipes in residential and non-residential buildings.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature ^{1,2,3}	Max. °C		EN 14304
	110		
Thermal conductivity			
Declared thermal conductivity	θm	0 °C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,042	
	Formula	λ = [42 + 0.1· θm + 0,0009 · θm²]/1000	
Fire Performance and Approvals			
Reaction to fire	C-s2,d0		EN 13501-1, EN 13823, EN ISO 11925-2
Physical attributes			
Mass per unit area	11mm thickness: 3.7 - 5.0 kg/m²		
Dimensions and tolerances	Thickness: 11 mm ± 1.6 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%		EN 822, EN 823, EN 13467
Acoustic performance			
Weighted sound reduction index, Rw (C ; Ctr) (dB)	Rw = 26 dB (C;Ctr) = (-1;-3) dB		EN ISO 717-1, ISO 10140-1, ISO 10140-2
System acoustic insertion loss	on plastic waste water pipes ≤ 14 dB(A) on Geberit PE HD ≤ 16 dB(A) on Geberit Silent db 20 ≤ 18 dB(A)		EN 14366
Sound Reduction Index (graph)			ISO 10140-1, ISO 10140-2

¹ For use in temperatures below 0 °C, please contact our Customer Service Centre.

² For rainwater pipes with the requirement of condensation prevention, please contact our Customer Service Centre.

³ Minimum service temperature: as usual in heating and plumbing systems.

Roll - standard. Black

Item	Thickness [mm]	Width [m]	Length [m]	EAN	Primary content [metric]
AO-11-99/E-AB+	11	1	2	7612207410525	2 m²
Other information					
Remarks		ArmaComfort AB Plus must be applied with ArmaFlex 520 and ArmaComfort Tape TAPE-PE-FE904 (IESIA00900923). Primary content: roll in carton			

Roll - standard self-adhesive. Black. Roll packed in carton

Item	Thickness [mm]	Width [m]	Length [m]	EAN	Primary content [metric]
AO-11-99/EA-AB+	11	1	2	7612207410532	2 m²
Other information					
Remarks		ArmaComfort AB Plus self-adhesive must be applied with ArmaComfort Tape TAPE PE-FE904 (IESIA00900923). Primary content: roll in carton			

Sheet – self-adhesive. Black

Item	Thickness [mm]	Width [mm]	Length [m]	Outer diameter [mm]	EAN	Primary content [pieces]
AO-11ZSA29100	11	290	1	56	7612207419757	10 piece
AO-11ZSA32100	11	320	1	63	7612207419788	10 piece
AO-11ZSA37100	11	370	1	75	7612207419801	10 piece
AO-11ZSA42100	11	420	1	90	7612207419795	10 piece
AO-11ZSA50100	11	500	1	110	7612207419764	10 piece
AO-11ZSA56100	11	560	1	125	7612207419771	10 piece
Other information						
Remarks		Primary content available as 10 sheets, packed in one carton.				

HT/ArmaFlex S . Tape – PVC. Black

Item	Thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [pieces]
TAPE-PE-FE904	0,23	50	25	7612207318906	30 roll

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ArmaComfort | ArmaComfort AB Plus | Brochure | 062023 | en-DE

ABOUT ARMACELL

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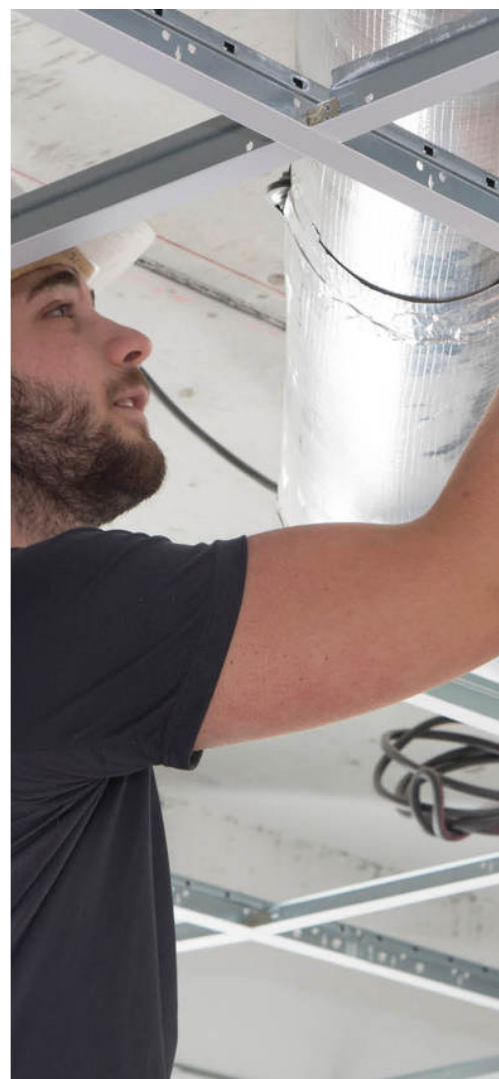
INSTALL IT. ENJOY QUIETNESS.

ArmaComfort AB Alu

Perfect thin sound lagging solution

- // Excellent fire performance
- // B-s1,d0
- // $R_w [C;Ctr] = 28 \text{ dB} (-1; -4) \text{ dB}$
- // Halogen free
- // Nice aluminium silver colour foil covering

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TECHNICAL DATA - ARMACOMFORT AB ALU

Brief description	ArmaComfort AB Alu combines excellent acoustic performance and excellent fire performance B-s1,d0 to increase people safety.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier of 2mm thickness with an aluminium foil and a 9mm thick decoupling elastomeric foam based on synthetic rubber.
Product colour range	Black Silver (Covering)
Special features	Halogen-free (chloride, bromide) acc. to DIN / VDE 0472, part 815. ArmaComfort AB Alu Plus offers outstanding durability.
Applications	ArmaComfort AB Alu is widely used as an acoustical insulation of waste water, rain water and sewage pipes. It has been specially designed for non-residential buildings such as office buildings, hotels, hospitals, school buildings, retirement residences, shopping centres and conference centres.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature	Max. °C	EN 14707, EN 14304
	100	
	Remarks	
		Minimum service temperature: As is usual in plumbing and heating installations.
Fire Performance and Approvals		
Reaction to fire	B-s1,d0	EN 13823, EN ISO 11925-2
Physical attributes		
Mass per unit area	12 mm thickness: 4.5 to 6.9 kg/m²	
Dimensions and tolerances	Thickness: 12 mm ± 1.5 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%	EN 822, EN 823, EN 13467
Acoustic performance		
Weighted sound reduction index, Rw (C ; Ctr) (dB)	Rw = 28 dB (C;Ctr) = [-1;-4] dB	ISO 10140-2, ISO 10140-1, EN ISO 717-1
Sound Reduction Index (graph)		ISO 10140-2, ISO 10140-1

Roll - standard. Silver (Covering). Roll packed in carton

Item	Thickness [mm]	Width (m)	Length [m]	EAN	Primary content [metric]
AO-12-99/E-AB-AL	12	1	2	7612207393743	2 m²

Other information

Remarks	Primary content available as a roll, packed in carton. ArmaComfort AB Alu must be applied with ArmaFlex 520 and ArmaComfort Tape AO-TAPE/50-AL-S-25M (ISATS50900600)
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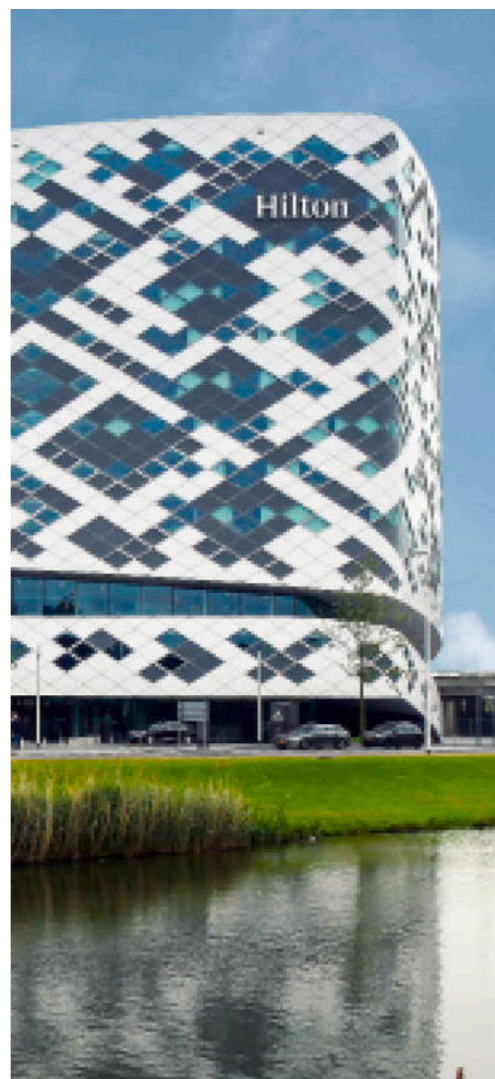
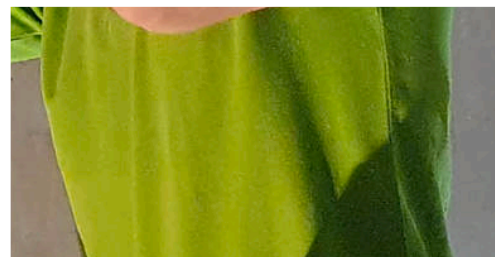
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ArmaComfort AB Alu Plus

Excellent acoustic performance for
drainage. Very good fire performance.
Increases people's safety and prevents
corrosion.

- // Thin and excellent acoustic insertion loss solution
- // B-s1,d0
- // Prevent condensation
- // Easy to apply and maintain

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TECHNICAL DATA - ARMACOMFORT AB ALU PLUS

Brief description	ArmaComfort AB Alu Plus combines excellent acoustic performance, fire performance B-s1,d0 to increase people safety and prevents corrosion.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier of 2mm thickness with an aluminium foil and a 9mm thick decoupling elastomeric foam based on synthetic rubber.
Product colour range	Black Silver (Covering)
Special features	ArmaComfort AB Alu Plus offers outstanding durability.
Applications	ArmaComfort AB Alu Plus is used as an acoustical insulation of wastewater, rainwater and sewage pipes in residential and non-residential buildings.
Installation	For industrial applications it is recommended to consult the relevant Armacell application manual(s). Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature	Max. °C		EN 14706, EN 14304
	110		
Thermal conductivity			
Declared thermal conductivity	$\lambda_d \leq [W/(m \cdot K)]$	0,042	EN 12667, EN ISO 13787
	Formula	$[42 + 0.1 \cdot \vartheta_m + 0.0009 \cdot \vartheta_m^2]/1000$	
Fire Performance and Approvals			
Reaction to fire	B-s1,d0		EN 13501-1, EN 13823, EN ISO 11925-2
Physical attributes			
Mass per unit area	11 mm thickness: 3.7 - 5.0 kg/m²		
Dimensions and tolerances	Thickness: 11 mm ± 1.5 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%		EN 13467, EN 822, EN 823
Acoustic performance			
System acoustic insertion loss	on Geberit Silent db 20 ≤ 18 dB[A] on NF PVC Diameter 110 mm ≤ 24.5 dB[A]		EN 14366
Health and environment			
Volatile organic compounds (VOC) content	Determination of emissions of VOC from the product in the climate chamber. Complies with the requirement: German Scheme AgBB French Class A+ US [California]		ISO 16000 Parts 3, 6 & 9
Environmental aspects	WELL compliance card		WELL Requirements

Roll - standard. Black foam with silver facing. Roll packed in carton

Item	Thickness [mm]	Width (m)	Length [m]	EAN	Primary content [metric]
AO-11-99/E-AB-AL+	11	1	2	7612207410518	2 m²
Other information					
Remarks		Primary content available as a roll, parked in carton. ArmaComfort AB Alu Plus must be applied with ArmaFlex 520 adhesive and ArmaComfort AB Alu tape AO-TAPE/50-AL-S-25M (ISATS50900600).			

Roll - jumbo. Black foam with silver facing

Item	Thickness [mm]	Width (m)	Length [m]	EAN	Primary content [metric]
AO-11-99/E25-ABAL+	11	1	25	7612207410471	75 m²
Other information					
Remarks		ArmaComfort AB Alu Plus must be applied with ArmaFlex 520 adhesive and ArmaComfort AB Alu tape AO-TAPE/50-AL-S-25M (ISATS50900600). The bobbins (25 m² each bobbin) are sold by 3 bobbins which are inseparable on one pallet. This means that the minimum order quantity is 75 m².			

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)



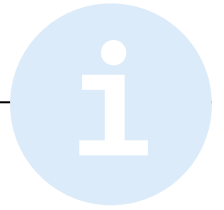
DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.



DIGITAL INFORMATION FLOWS

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES*

OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

LABELLING

- Extra label for transport instructions

EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service* by which pallets can be handed at Armacell collection points.

* Please contact your local Customer Service Centre to see which of these services apply to your country.

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