TRUST THE ORIGINAL

Insuguard
Pipe Saddles

Insuguard is the patented, easy-to-install pipe saddle for HVAC/R applications. It's the proven solution to eliminate insulation tears or costly leaks caused by saddle failures.

// Simple tool-free installation
// Specified by leading supermarket and retail chains
// Works with all insulation products
// The original innovative design

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armacell®
ArmaFix®

ONE CLICK SIMPLE INSTALLATION

When installing and maintaining pipe systems, the right combination of insulation, vapor retarder, and support system minimizes energy loss, maintains the pipe's structural integrity, and keeps the pipe system in place. However, get even one component wrong, and you risk substandard system operation and/or expensive repairs.

Pipe suspension and mounting systems support the weight of a pipe by transmitting the load to the adjacent structure. These systems also need to avoid damaging the pipe insulation at the contact points, especially during the severe linear movements that pipes can undergo due to normal thermal expansion and contraction.

In large installations such as supermarkets, pipe runs can exceed a mile long, which could expand and contract significant amounts introducing more potential failure points if the wrong support is specified. Damaged insulation and pipes compromise energy delivery, making critical refrigeration systems underperform.

Insuguard Multi pipe saddle shown with 1-click clevis adapter, above.

Original Insuguard pipe saddles are the one-piece solution for strut mount installations. It simply snaps on the strut and allows the pipe and insulation to expand and contract as needed, above right.

Potential issues with pipe suspension or mounting systems include shifting/falling saddles, condensation and mold growth, freezing and thawing, refrigerant leaks, insulation tear-off, and inefficient labor and material use. With normal pipe movement and expansion, saddles can slip out of place, exposing the insulation to pressure and compression.
For cold systems, thermal bridging can cause condensation, ice formation, and corrosion of the pipe and support. When supports fail, the insulated pipe run is unprotected from friction at the support points, tearing the insulation, leaving critical lines exposed. If these lines are inside a chase, the problem can go undetected causing serious property damage. Unsecured saddles that fall from the suspension system create serious safety and liability concerns.

PIPE SADDLES AND ACCESSORIES

Avoid these issues with Armacell's complete line of pipe saddles and accessories that eliminate common support problems AND will save time during installation.

Pipe movement is accommodated with **Insuguard's** rounded edge design that curves away from the pipe at both ends and protects the insulation when expansion or contraction occurs.

Insuguard Multi saddles and adapters simply click in place to connect to any type of suspension or mounting system, regardless of size. Both systems are compatible with adjustable **InsuCover** which protects pipes.

Insuguard
Original 1-piece pipe saddle designed for strut applications. Available in black and white.

Insuguard Multi
Pipe saddle systems with interchangeable adapters for strut, clevis, H-beam, I-beam, steel angle and floor mounts.

InsuCover
Pipe cover that shields the top of the pipe from damage. Adjustable width, attaches with cable ties.

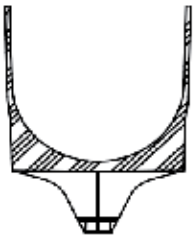
SAVE TIME WITH QUICK AND EASY, TOOL-FREE INSTALLATION OF PIPE SADDLES AND ACCESSORIES.

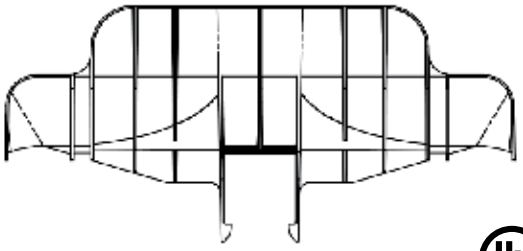
INSUGUARD PIPE SADDLE

SPECIFICATIONS

INSUGUARD SADDLES

Part Number	Color	Size: In	Size: mm	Length: In	Length: mm
IPTBCI225B	Black	2.250"	57mm	12"	305mm
IPTBCI325B	Black	3.250"	82mm	12"	305mm
IPTBCI425B	Black	4.250"	108mm	12"	305mm
IPTBCI525B	Black	5.250"	133mm	12"	305mm
IPTBCI625B	Black	6.250"	159mm	12"	305mm
IPTBCI825B	Black	8.250"	209mm	12"	305mm
IPTBCI225W	White	2.250"	57mm	12"	305mm
IPTBCI325W	White	3.250"	82mm	12"	305mm
IPTBCI425W	White	4.250"	108mm	12"	305mm
IPTBCI525W	White	5.250"	133mm	12"	305mm
IPTBCI625W	White	6.250"	159mm	12"	305mm
IPTBCI825W	White	8.250"	209mm	12"	305mm





ACCESSORIES

Armacell offers a full line of value-add accessories for the Insuguard Multi line of pipe saddles.

PIPE SHIELD
InsuCover®

InsuCover pipe cover is designed to fit over the insulated pipe and can be quickly secured with cable ties since both the saddle and the cover have matching notches for easy tool-free installation. The flexible design allows it to automatically adjust to the pipe's curve, large and small. A quick knife cut at the seams allows the installer to customize the width for smaller pipes. Its curved edges allow for the same range of movement as the Insuguard saddle, keeping the pipe supported, secure, but able to give to natural pipe expansion.

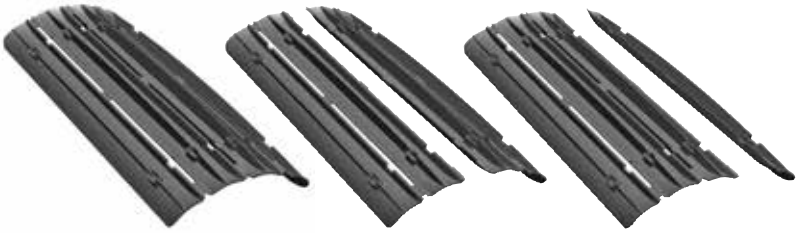
InsuCover Pipe Shield

Part number	Size	Color	For Use With
IPTBCUCX25B	12" (305mm)	Black	IPTBCI225B, IPTBCI325B, IPTBCI425B, IPTBCI525B, IPTBCI625B
IPTBCUC825B	12" (305mm)	Black	IPTBCI825B
IPTBCUCX25W	12" (305mm)	White	IPTBCI225W, IPTBCI325W, IPTBCI425W, IPTBCI525W, IPTBCI625W
IPTBCUC825W	12" (305mm)	White	IPTBCI825W

Property	Value/Assessment		Test method
			Temperature range
Max. service temperature	+178 °F (+81 °C)		
Min. service temperature	-40 °F (-40 °C)		
			Fire performance & approvals
Surface spread of flame	UL Classified for US	UL-723, ASTM E84	Flame Spread Index (110 - 135)*/Smoked Developed Index 500
	ULC listed for Canada.	ULC-S102.2	Flame Spread Index 130/Smoked Developed Index 500

* Value depends on size.

Other technical features	
UV resistance	Excellent
Paintable	Preserves mechanical properties even after painting



INSUGUARD PRODUCT GUIDE

Choose the right product for corresponding pipe and insulation thickness.

Copper tubes

	Insulation thickness				
Copper tubing size	**1/2" (13mm)**	**3/4" (19mm)**	**1" (25mm)**	**1-1/2" (38mm)**	**2" (50mm)**
1/4" (6.4MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
3/8" (9.5MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
1/2" (13MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
5/8" (16MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
3/4" (19MM)	IPTBCI225	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525
7/8" (22MM)	IPTBCI225	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525
1-1/8" (28.5MM)	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525	IPTBCI625
1-3/8" (35MM)	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525	IPTBCI625
1-5/8" (41MM)	IPTBCI325	IPTBCI425	IPTBCI425	IPTBCI525	IPTBCI625
2-1/8" (54MM)	IPTBCI425	IPTBCI425	IPTBCI525	IPTBCI625	IPTBCI825
2-5/8" (67MM)	IPTBCI425	IPTBCI525	IPTBCI525	IPTBCI625	IPTBCI825
4-1/8" (105MM)	IPTBCI525	IPTBCI525	IPTBCI625	IPTBCI825	IPTBCI825
5-1/8" (130MM)	IPTBCI525	IPTBCI825	IPTBCI825	IPTBCI825	~

SCH. 40/80 Pipe

	Insulation thickness				
Copper tubing size	**1/2" (13mm)**	**3/4" (19mm)**	**1" (25mm)**	**1-1/2" (38mm)**	**2" (50mm)**
1/4" (6.4MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
3/8" (9.5MM)	IPTBCI225	IPTBCI225	IPTBCI325	IPTBCI425	IPTBCI525
1/2" (13MM)	IPTBCI225	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525
3/4" (19MM)	IPTBCI225	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525
1" (25MM)	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525	IPTBCI625
1-1/4" (31MM)	IPTBCI325	IPTBCI325	IPTBCI425	IPTBCI525	IPTBCI625
1-1/2" (38MM)	IPTBCI325	IPTBCI425	IPTBCI425	IPTBCI525	IPTBCI625
2" (50MM)	IPTBCI425	IPTBCI425	IPTBCI425	IPTBCI525	IPTBCI625
2-1/2" (62MM)	IPTBCI425	IPTBCI525	IPTBCI525	IPTBCI625	IPTBCI825
3" (75mm)	IPTBCI525	IPTBCI525	IPTBCI625	IPTBCI825	IPTBCI825
3-1/2" (88MM)	IPTBCI525	IPTBCI625	IPTBCI625	IPTBCI825	IPTBCI825
4" (100MM)	IPTBCI625	IPTBCI625	IPTBCI825	IPTBCI825	IPTBCI825
5" (127MM)	IPTBCI825	IPTBCI825	IPTBCI825	~	~
6" (152MM)	IPTBCI825	IPTBCI825	~	~	~

Packaging Information

Item	Pieces	Weight: LBS	Weight: KG
IPTBCI225	65	17	7.7
IPTBCI325	38	14	6.4
IPTBCI425	25	13	5.0
IIPTBC525	16	11	4.5
IPTBCI625	12	7	2.1

TECHNICAL DATA - INSUGUARD PIPE SADDLES

Brief description	Insuguard is the original one-piece, saddle-shaped pipe support for strut channel. Insuguard saddles are applicable with all insulation products.
Material type	Polypropylene copolymer. IPTBCI825B and IPTBCI825W are 20% glass-filled polypropylene for added strength.
Product color range	Black
Special features	The inside surface of the saddle-shaped pipe support is non-adhesive and has a special texture that acts as micro bubbles to create a thin film of air between the saddle and the insulation. This helps the insulated pipe to expand and move freely within the saddle without damaging the insulation material. All clipping cartridges can fit any saddle size. Insuguard pipe saddles are paintable and preserves its mechanical properties even after painting.
Applications	Horizontal pipe installation on plumbing, mechanical, refrigeration and air-conditioning applications.
Installation	Tool-free clips directly on standard 1-5/8" x 1-5/8" (42mm x 42mm) strut channel. Suited for horizontal pipe installation.

Property	Value / Assessment				Standard / Test method
Temperature range					
Service temperature	Min. °C	Min. °F	Max. °C	Max. °F	
	-40	-40	81	178	
Weather and UV resistance					
UV resistance	Excellent				
Other technical features					
Overpaintable (emulsion paints)	Preserves mechanical properties even after painting				
Surface	Non-abrasive surface for linear expansion of thermal insulation				

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

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell 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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