

THE SIMPLE SOLUTION

# Insuguard Multi

Thanks to Insuguard® Multi, there's an adapter for strut, H-Beam, I-Beam, floor-mount, clevis and steel angle mountings. Prevents rotation or displacement of saddles and damage to all insulation types. **Installs with one click in seconds!**

// For plumbing piping

// HVAC piping

// Refrigeration lines

[www.armacell.us](http://www.armacell.us) | [www.insuguard.com](http://www.insuguard.com)



 **armacell**<sup>®</sup>  
Insuguard<sup>®</sup>

## TECHNICAL DATA - INSUGUARD MULTI

Brief description	Insuguard Multi is a saddle-shaped pipe support with interchangeable clipping cartridges - also known as clipping adapters, that can be used on any pipe suspension system, including various strut channel sizes, clevis hangers or steel angles. Insuguard saddles are applicable with all insulation products.
Material	20% glass-filled polypropylene.
Color	Silver grey.
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.
Applications	Horizontal pipe installation on plumbing, mechanical, refrigeration and air-conditioning applications.
Installation	All Insuguard Multi clipping cartridges can be quickly installed in one simple action without any tools, except the floor adapter. Watch the installation videos to find out more.

Property	Value/Assessment		Standard/Test method	
Temperature range				
Service temperature	Max. service temperature	+178 °F (+81 °C)		
	Min. service temperature	-40 °F (-40 °C)		
Fire performance & approvals				
Surface spread of flame	UL classified for the United States of America.		ASTM E84 (UL-723)	Flame Spread Index 110/Smoke Developed Index 500
	ULC listed for Canada.		ULC-S102.2	Flame Spread Index 120/Smoke Developed Index 450
Other technical features				
UV resistance	Excellent			



## SPECIFICATION SHEET

### INSUGUARD MULTI SADDLE (GRAY)

Part number	Inside dimension		Length	
	[inch]	[mm]	[inch]	[mm]
<b>PTBCIM250G</b>	2.34"	60mm	12"	305mm
<b>PTBCIM350G</b>	3.45"	88mm	12"	305mm
<b>PTBCIM450G</b>	4.50"	114mm	12"	305mm
<b>PTBCIM550G</b>	5.56"	140mm	12"	305mm
<b>PTBCIM650G</b>	6.46"	165mm	12"	305mm
<b>PTBCIM850G</b>	8.65"	219mm	18"	457mm
<b>PTBCIM1050G</b>	10.65"	271mm	23"	584mm
<b>PTBCIM1250G</b>	12.65"	321mm	23"	584mm



## UNIVERSAL ADAPTER DESIGN

All adapters fit all sizes of Insuguard Multi saddles. Choose the adapter that fits the suspension system you need and it will fit the saddle.



### STRUT MOUNT ADAPTER

Part number	Fits strut width		Fits strut depth	
	[inch]	[mm]	[inch]	[mm]
<b>IPTBCIM30X30G</b>	1-3/16"	30mm	1-3/16"	30mm
<b>IPTBCIM31x43G</b>	1-5/64"	31mm	1-11/16"	43mm
<b>IPTBCIM40X38G</b>	1-9/16"	40mm	1-1/2"	38mm
<b>IPTBCIM42X20G</b>	1-5/8"	42mm	13/16"	20mm
<b>IPTBCIM42X42G</b>	1-5/8"	42mm	1-5/8"	42mm
<b>IPTBCIM42X84G</b>	1-5/8"	42mm	3-1/4"	84mm
<b>IPTBCIM42X166G</b>	1-5/8"	42mm	6-1/2"	166mm
<b>IPTBCIM4D21G</b>	2-1/8"	54mm	1-1/16"	27mm
<b>IPTBCIM4D22G</b>	2-1/8"	54mm	2-1/8"	54mm

### STEEL ANGLE MOUNT ADAPTER

Part number	Fits steel angle size
<b>IPTBCIM2-5/8G</b>	0.125" to 0.625" thick x 1" to 2.62" lip (3mm to 16mm thick x 25mm to 66mm lip)

### CLEVIS U-STRAP MOUNT ADAPTER

Part number	Fits clevis hangers:
<b>IMCLEVISG</b>	Up to 1.9" (48mm) wide

**STRUT STABILIZER** (Designed to support large size IPTBCIM1050G and IPTBCIM1250G saddles on strut mounts)

Part number	Length		Width		Radius	
	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]
<b>IPTBCIMSTAB1050G</b>	10.34"	263mm	2.24"	57mm	5.13"	130mm
<b>IPTBCIMSTAB1250G</b>	11.38"	289mm	2.28"	58mm	6.13"	156mm

**FLOOR ADAPTER** (Designed to support large size IM1050G and IM1250G saddles on floor)

Part number	Associated parts
<b>IPTBCIM FLOOR10-12G</b>	Use with IPTBCIMSTAB1050G or IPTBCIMSTAB1250G for floor mounting

### H-BEAM ADAPTER

Part number	Fits beams
<b>IPTBCIMHBEAMG</b>	3.5" to 8.87" (89mm to 225mm)



# 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 Multi saddle, keeping the pipe supported, secure, but able to give to natural pipe expansion.

### InsuCover Pipe Shield

Part number	Size		Color	For use with
	[inch]	[mm]		
<b>IPTBUCUX50G</b>	12"	305mm	Gray	IPTBCIM250G, IPTBCIM350G, IPTBCIM450G, IPTBCIM550G, IPTBCIM650G
<b>IPTBUCUL50G</b>	18"	457mm	Gray	IPTBCIM850G, IPTBCIM1050G, IPTBCIM1250G

Property	Value/Assessment	Test method
<b>Temperature range</b>		
Max. service temperature	+178 °F (+81 °C)	
Min. service temperature	-40 °F (-40 °C)	
<b>Other technical features</b>		
UV resistance	Excellent	
Paintable	Preserves mechanical properties even after painting	



## PIPE FASTENER

InsuClip®

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Now you can take advantage of the extra space above a clevis hanger. The InsuClip was designed to be an economical pipe fastener to securely fasten uninsulated refrigeration lines, water pipes, electrical cables or communications cables within the free space available above the cross-bolt of clevis hangers. No need to install separate pipe hangers, just use the free space in the upper area of the existing pipe hangers which can accommodate holding additional pipes or cables up to 2.25" (57 mm) in diameter. This clever, inexpensive fastener will save you time and money when your customers need to add an extra pipe run or cabling to an existing installation.

### InsuClip Pipe Fastener

Part number	For use with
<b>IPBCLIMP050G</b>	OD pipe size 0.25" to 0.688" (6.3mm to 17.5mm)
<b>IPBCLIMP125G</b>	OD pipe size 0.625" to 1.25" (16mm to 32mm)
<b>IPBCLIMP175G</b>	OD pipe size 1.31" to 1.75" (33mm to 44mm)
<b>IPBCLIMP225G</b>	OD pipe size 1.75" to 2.25" (44mm to 57mm)



Property	Value/Assessment	Test method
<b>Temperature range</b>		
Max. service temperature	+178 °F (+81 °C)	
Min. service temperature	-40 °F (-40 °C)	
<b>Other technical features</b>		
UV resistance	Excellent	
Paintable	Preserves mechanical properties even after painting	

## SHOCK DETECTOR

ShockTech®

The ShockTech shock detector indicates water hammer problems before pipe damage can occur. Three interchangeable color-coded flags are included to help maintenance spot trouble areas right away. Each magnetic flag is triggered by a different shock intensity: Yellow > 1.8G, Orange > 1.6G and Red > 1.4G (Downward Allowable Stress Design). ShockTech clips onto the bottom of the clevis adapter with a simple click, just like the other tool-free adapters from Armacell's Insuguard.

### Shock Detector

Part number	For use with
<b>IPBCLSHOCKTECH</b>	IMCLEVISG Adapter



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/Smoke Developed Index 500
	ULC Listed for Canada	ULC-S102.2	Flame Spread Index 120/Smoke Developed Index 450
Other technical features			
UV resistance	Excellent		

Use the following two tables to quickly identify the right pipe support for your project.

## Copper tubes

Pipe size	Insulation thickness				
	1/2 inch (13mm)	3/4 inch (19mm)	1 inch (25mm)	1-1/2 inch (38mm)	2 inch (50mm)
1/4" (6MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G
3/8" (10MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM450G
1/2" (13MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G
5/8" (16MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G
3/4" (19MM)	IPTBCIM250G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G
1" (25MM)	IPTBCIM250G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G
1-1/4" (31MM)	IPTBCIM350G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G
1-1/2" (38MM)	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G
2" (50MM)	IPTBCIM350G	IPTBCIM450G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G
2-1/2" (63MM)	IPTBCIM450G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G
3" (75MM)	IPTBCIM450G	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G
3-1/2" (88MM)	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G
4" (100MM)	IPTBCIM550G	IPTBCIM650G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G

## SCH 40/80 pipe

Pipe size	Insulation thickness								
	1/2 inch (13mm)	3/4 inch (19mm)	1 inch (25mm)	1-1/2 inch (38mm)	2 inch (50mm)	2-1/2 inch (63mm)	3 inch (6mm)	3-1/2 inch (89mm)	4 inch (102mm)
1/4" (6MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G
3/8" (10MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G
1/2" (13MM)	IPTBCIM250G	IPTBCIM250G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IM850G	IPTBCIM850G	IPTBCIM1050G
3/4" (19MM)	IPTBCIM250G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G
1" (25MM)	IPTBCIM250G	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G
1-1/4" (31MM)	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G
1-1/2" (38MM)	IPTBCIM350G	IPTBCIM350G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G
2" (50MM)	IPTBCIM350G	IPTBCIM450G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G
2-1/2" (63MM)	IPTBCIM450G	IPTBCIM450G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G
3" (75MM)	IPTBCIM450G	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G
3-1/2" (88MM)	IPTBCIM550G	IPTBCIM550G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G	IPTBCIM1250G
4" (102MM)	IPTBCIM550G	IPTBCIM650G	IPTBCIM650G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G	IPTBCIM1250G
5" (127MM)	IPTBCIM850G	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G	IPTBCIM1250G	
6" (152MM)	IPTBCIM850G	IPTBCIM850G	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G	IPTBCIM1250G			
8" (203MM)	IPTBCIM1050G	IPTBCIM1050G	IPTBCIM1250G	IPTBCIM1250G					
10" (254MM)	IPTBCIM1250G	IPTBCIM1250G							

Refer to this table for details about the pipe support model and its packaging information.

## Packaging

Part number	Nominal inside opening		Box quantity		
	[inch]	[mm]	[pcs]	[lbs]	[kg]
IPTBCIM250G	2.50	64	126	14.0	6.5
IPTBCIM350G	3.50	89	86	13.0	6.0
IPTBCIM450G	4.50	114	48	10.0	4.5
IPTBCIM550G	5.50	140	36	9.0	4.0
IPTBCIM650G	6.50	165	34	10.0	4.5
IPTBCIM850G	8.50	216	10	13.0	5.9
IPTBCIM1050G	10.50	266	8	16.0	7.2
IPTBCIM1250G	12.50	321	7	16.5	7.5

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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:  
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