

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

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Insuguard[®]

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] |
| IPBICIM250G | 2.34" | 60mm | 12" | 305mm |
| IPBICIM350G | 3.45" | 88mm | 12" | 305mm |
| IPBICIM450G | 4.50" | 114mm | 12" | 305mm |
| IPBICIM550G | 5.56" | 140mm | 12" | 305mm |
| IPBICIM650G | 6.46" | 165mm | 12" | 305mm |
| IPBICIM850G | 8.65" | 219mm | 18" | 457mm |
| IPBICIM1050G | 10.65" | 271mm | 23" | 584mm |
| IPBICIM1250G | 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] |
| PTBCIM30X30G | 1-3/16" | 30mm | 1-3/16" | 30mm |
| PTBCIM31x43G | 1-5/64" | 31mm | 1-11/16" | 43mm |
| PTBCIM40X38G | 1-9/16" | 40mm | 1-1/2" | 38mm |
| PTBCIM42X20G | 1-5/8" | 42mm | 13/16" | 20mm |
| PTBCIM42X42G | 1-5/8" | 42mm | 1-5/8" | 42mm |
| PTBCIM42X84G | 1-5/8" | 42mm | 3-1/4" | 84mm |
| PTBCIM42X166G | 1-5/8" | 42mm | 6-1/2" | 166mm |
| PTBCIM4D21G | 2-1/8" | 54mm | 1-1/16" | 27mm |
| PTBCIM4D22G | 2-1/8" | 54mm | 2-1/8" | 54mm |

STEEL ANGLE MOUNT ADAPTER

| Part number | Fits steel angle size |
|---------------------|---|
| PTBCIM2-5/8G | 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: |
|------------------|------------------------|
| IMCLEVISG | 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] |
| PTBCIMSTAB1050G | 10.34" | 263mm | 2.24" | 57mm | 5.13" | 130mm |
| PTBCIMSTAB1250G | 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 |
|---------------------------|--|
| PTBCIM FLOOR10-12G | Use with IPTBCIMSTAB1050G or IPTBCIMSTAB1250G for floor mounting |

H-BEAM ADAPTER

| Part number | Fits beams |
|---------------------|-------------------------------|
| PTBCIMHBEAMG | 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] | | |
| IPBUCUCX50G | 12" | 305mm | Gray | IPBUCIM250G, IPBUCIM350G, IPBUCIM450G, IPBUCIM550G, IPBUCIM650G |
| IPBUCUCL50G | 18" | 457mm | Gray | IPBUCIM850G, IPBUCIM1050G, IPBUCIM1250G |

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



Now you can take advantage of the extra space above a clevis hanger. The InsuClip was designed to as 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 |
|---------------------|--|
| IPBTCIMP050G | OD pipe size 0.25" to 0.688" (6.3mm to 17.5mm) |
| IPBTCIMP125G | OD pipe size 0.625" to 1.25" (16mm to 32mm) |
| IPBTCIMP175G | OD pipe size 1.31" to 1.75" (33mm to 44mm) |
| IPBTCIMP225G | OD pipe size 1.75" to 2.25" (44mm to 57mm) |



| Property | Value/Assessment | Test method |
|---------------------------------|---|-------------|
| Temperature range | | |
| Max. service temperature | +178 °F (+81 °C) | |
| Min. service temperature | -40 °F (-40 °C) | |
| Other technical features | | |
| 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 |
|-----------------------|-------------------|
| IPBTCSHOCKTECH | 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

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.us and www.insuguard.com

