

# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

## 2012 Product Binder

### Brochures | Specifications | Submittals

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# History of Plumberex Specialty Products



**P**lumberex Specialty Products, Inc. is the Pioneer Company within the Building and Plumbing Industry to develop and distribute accessible pre-fit, under-sink and under-lavatory products that fit over exposed piping under lavatory and sink plumbing fixtures.

Pipes under plumbing fixtures can burn, injure or can create "painful discomfort"\* to the legs of individuals confined to a wheelchair. In addition many of these individuals also have very severe and sensitive medical conditions that can negatively be affected by exposed plumbing or "drain pipes and hot & cold water supplies"\* (\*U.S. Access Board)

Plumberex offers compliance solutions for the ADA (sec. 4.19.4) - ADAAG (sec. 606.5) – IBC/ANSI A117.1 (sec. 606.6) requirements to "thermal insulate" exposed piping under sinks or lavatories.

In 1990 the Americans with Disabilities Act (ADA) became a Civil Rights Law for the Disabled.

Plumberex in the New Millennium has also become the Leading Technical Company for these types of products, as fire and smoke safety concerns have become a very important building issue. The National Model Building Code which is the International Building Code (IBC) 2000, 2003 and 2006 editions have adopted performance mandated standards and safety testing requirements (ASTM E 84) for these types of thermal insulating materials.

Plumberex has developed safe, aesthetic, fast & easily installed choices along with technical education and support to the Building and Plumbing Industry.

Thanks to our Customers, Plumberex has now become the #1 Manufacturer and Provider of ADA, ANSI and Model Building Code (IBC) Compliant, Safety Insulators in the Building and Plumbing Industry!

**[www.plumberex.com](http://www.plumberex.com)**

**Toll Free (800) 475-8269 • Fax (760) 343-7366**

**P.O. Box 1684 • Palm Springs, CA 92263**

Plumberex Specialty Products, Inc. Reserves the right to make product changes or improvements at any time without notice.

\*Velcro is a registered trademark of Velcro U.S.A.

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Department of Justice  
September 15, 2010

# 2010 ADA Standards for Accessible Design

The Department of Justice published revised regulations for Titles II and III of the Americans with Disabilities Act of 1990 "ADA" in the Federal Register on September 15, 2010. These regulations adopted revised, enforceable accessibility standards called the 2010 ADA Standards for Accessible Design "2010 Standards" or "Standards".

Places of Public Accommodation and Commercial Facilities & State and Local Government Facilities (except transportation facilities) as of March 15, 2012 mandatory compliance with DOJ's 2010 ADA Standard. All accessibility standards including state and local accessibility codes as of March 15, 2012 mandatory compliance with DOJ's 2010 ADA Standard.

Note: All applicable requirements of the chosen standard must be satisfied. DOJ does not permit selective use of less stringent provisions from the standard not chosen.

## ADA SINKS AND LAVATORIES GUIDE



### CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

**606.6 Exposed Pipes and Surfaces.** Water supplies and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

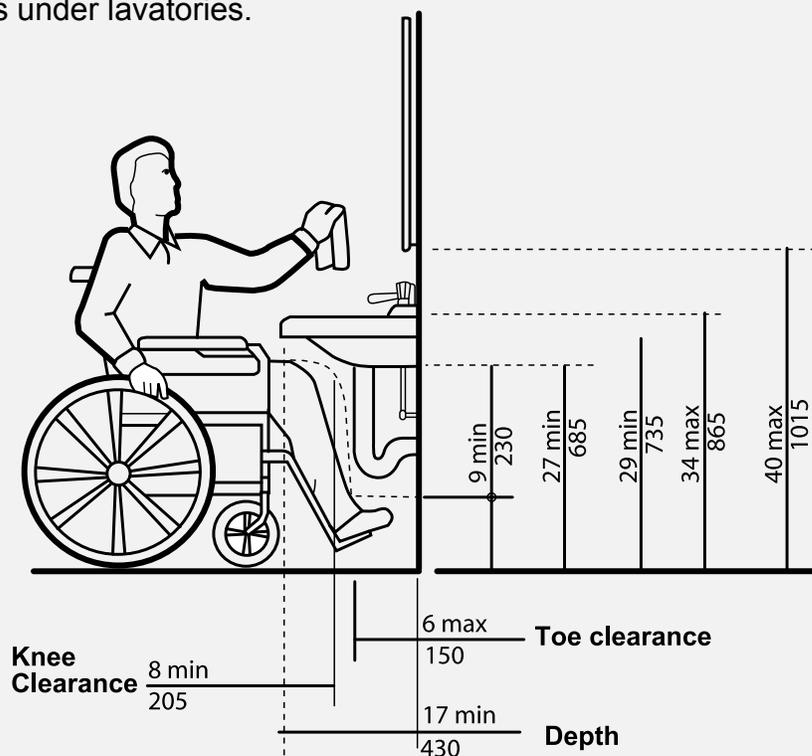


Fig.31  
Lavatory Clearance



**New!**

Soft ADA Under-Lav Insulators

# HANDY-SHIELD MAXX™

Maximizes ADA & IBC Standards

**50%  
More  
Value!**

**PVC Insulation Material Meets  
ASTM E 84 25/450\***

**Improved ADA Compliance with Longer Tailpiece Design!  
Eliminate Extra Extensions & Tape!**



## Handy-Shield MAXX™ Solves the Challenges of Changing Industry Standards and Installation Requirements

Handy-Shield MAXX™ offers a Superior High Gloss Finish, Flame & Smoke Rated Insulation Material, and a System that is Soft, Flexible, Quicker and Easier to Install with Velcro!\*\*

### Improved ADA Compliance that Fits More Jobs

Handy-Shield MAXX™ makes short designed covers obsolete including the extra parts associated with them like: extensions, tape, pipe wrap etc! Handy-Shield MAXX™ features a more "universal design" with improved ADA added-reach insulation coverage that combines a longer neck area (for longer tailpieces) and a more forgiving girth area (for bulkier plastic DWV Schedule #40 Traps) providing the ability to fit longer, wider or shorter installs by simply trimming to size. The result is a long term, professional-looking and secure installation that meets ADA complete coverage requirements.

### Flame & Smoke Rating, ASTM E 84 & ID Label Requirements

Don't risk failed inspections, costly call-backs, or liability exposure! Play it safe with Handy-Shield MAXX when buying, selling, specifying, inspecting or installing! Handy-Shield MAXX's Superior PVC Insulation Material\* is properly marked with an easy to read "Identification Label" that verifies ASTM E 84 test results required for compliance under IBC Code Testing Standards. The ID label also ensures the appropriate quality Industry Professionals can trust for trouble-free, Final Inspection Approvals.

### Non-Sewn, Fusion Molded Technology

Handy-Shield MAXX™ makes sewn covers obsolete with Superior Fusion-Bonded fabrication technology. This allows installers to custom cut covers to size, leaving a finished-quality edge and materials that won't unravel, leaving a professional finished Job!

### Flexibility Challenges

Fitting flexible, stainless steel braided supplies is no problem for Handy-Shield MAXX's™ Superior, Flexible, Soft PVC with a Continuous Velcro\*\* Closure System that complies with total ADA insulation coverage.

### New Handy-Shield MAXX™ a Superior Product with Added Value!

Plumberex has invested years of research involving the requirements and challenges associated with having to meet the ADA (Americans With Disabilities Act) and also the IBC (International Building Code). So rest assured that when purchasing and installing Handy-Shield MAXX™ you are in complete and combined compliance with Federal Law (ADA) and the International Building Model Code (IBC) Standards!

\*Tested in accordance with Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index (not for Plenum use).



**HANDY-SHIELD MAXX**  
Meets ASTM E 84-07  
25 Flame/450 Smoke  
Class A Material

**Inspection Label Verifies ASTM E 84 Testing**



U.S. patents pending

## Eliminates Liability!

### Meets Accessibility Laws (ADA) & Building Code (IBC) Fire Rating Test Standards

ADA 4.19.4/ABA 606.5, ICC/ANSI A 117.1 (606.6)  
IBC (International Building Code) Chapter 8  
UPC/IAPMO 94-2008

#### Flame and Smoke Safety

ASTM E 84-07 (Class A Insulation Material)  
25 FlameSpread/450 Smoke Index\*

#### Thermal Insulation

ASTM C-177 Thermal Conductivity 0.028 (K-Value)  
Thermal Resistance 0.504 (R-Value)

ASTM C-518 Thermal Conductivity 0.358 (avg.)  
Thermal Resistance 0.346 (avg.)  
Thermal Resistance 2.790 ("R" Per Inch)

Density 21.61 (PCF)

#### Durability & Fungal Resistance

ASTM G153, D412, D570. Tested for Long term degradation  
ASTM G153. Weatherization & UV  
ASTM D 412. Tensile Strength and Elongation  
ASTM D 570. Water Absorption  
ASTM G21. Interior and Exterior surface Tested with a Result of -0- Fungal Growth and -0- Microbial Growth



**Equal Flex  
Design  
Allows 360°  
Flexibility!**



**Touch 'n Go  
With Velcro!\*\***



**Smooth, Extra  
Security  
Fasteners!**



Detailed specification, submittal sheet and model numbers on back



Engineering Smart Solutions

**(800) 475-8629**

**www.plumberex.com**

\*\*Velcro is a trademark of Velcro, USA © 2008-2013 Plumberex Specialty Products, Inc.

# NEW!



Soft ADA Under-Lav Insulators

# HANDY-SHIELD<sup>MAXX</sup>™

Maximizes ADA & IBC Standards

PVC Insulation Material Meets ASTM E 84 25/450\*



# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

PROJECT	
ITEM #	

## SUBMITTAL SPEC SHEET

Insulate per ADA (sec. 4.19.4), ADAAG (sec.606.5) and ICC/A117.1 (sec. 606.6) all drainage piping including all hot and cold water Valve and Supplies under lavatories. PVC Insulation Material to comply with IBC (International Building Code) shall meet Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index.\*

Insulate with brand: **HANDY-SHIELD MAXX™**

Manufacturer: **Plumberex Specialty Products Inc.**

Insulators to meet and be listed with IPC/IAPMO Property and Material Standard PS 94-2008. With a one-piece design, fusion molded fabrication and pliable for high flexibility requirements. PVC Insulator to be 1/8" thick and shall meet **Testing Standard ASTM E 84-07 with a 25 flame spread/ 450 smoke index per IBC Chapter 8.** Surfaces to be soft, smooth, non-absorbent, easy to clean UV inhibited, antimicrobial, antifungal properties. Insulator shall have a dual fastening system which consists of fusion bonded Velcro\*\* fastener strips for full slit enclosure and tamper resistant, smooth, non-abrasive snap-locking fasteners. **P-Trap Insulator:** Shall have a one-piece design with a universal fit for 1 1/4"-1 1/2" brass or plastic traps, a longer neck area (for longer tailpieces) and a more forgiving girth area (for bulkier plastic DWV Schedule #40 plastic P-Traps w/swivel nut) and shall have drainage at lowest point to prevent condensation and/or leakage build up. **Valve and Supply Insulator:** Shall have a one-piece design with a universal fit over valve handles and brass, plastic or metal braided supplies and connectors and shall be able to flex-curl to a minimum of 360 degrees with a full slit closure for total compliance. **Off-Set Insulator:** Shall have a one-piece design with a universal fit and shall fit inside of P-trap insulator tailpiece area.

### CODES & STANDARDS COMPLIANCE

- ADA 4.19.4/ABA 606.5 rev.
- ICC/ANSI A 117.1 (sec. 606.6)
- IBC (International Building Code) Chapter 8
- UPC/IAPMO 94-2008

### Thermal Insulation

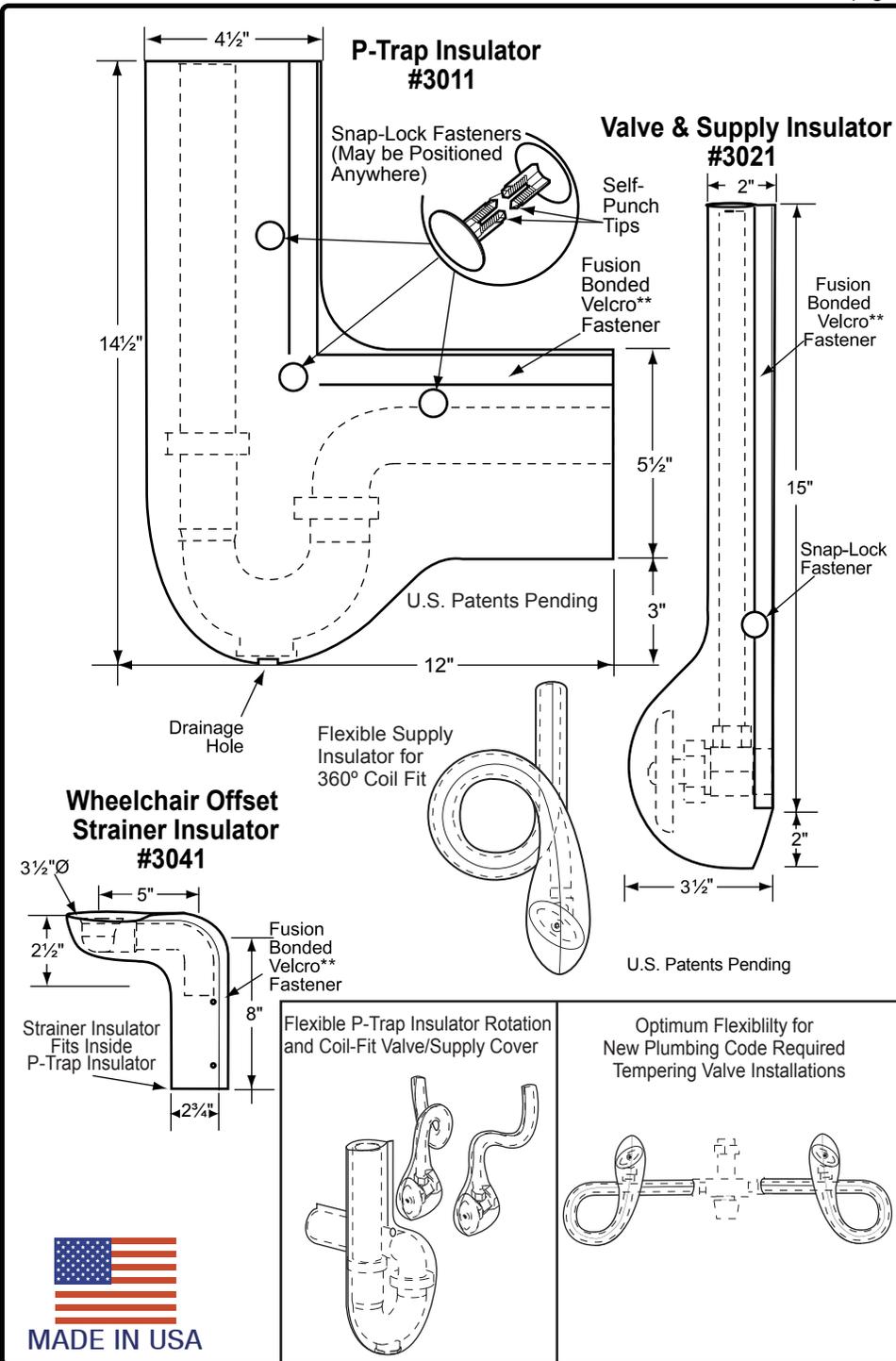
- ASTM E 84-07 (Class A Insulation Material)  
25 Flame Spread/450 Smoke Index\*
- ASTM C-177 Thermal Conductivity 0.028 (K-Value)  
Thermal Resistance 0.504 (R-Value)
- ASTM C-518 Thermal Conductivity 0.358 (avg.)  
Thermal Resistance 0.346 (avg.)  
Thermal Resistance 2.790 ("R" Per Inch)  
Density 21.61 (PCF)

### PART NUMBER BY PRODUCT

- MODEL # 2002 (2 pc. kit) White**  
1 P-Trap Insulator,  
1 Valve & Supply Insulator
- MODEL # 2003 (3 pc. kit) White**  
1 P-Trap Insulator,  
2 Valve & Supply Insulators
- MODEL # 2004 (4 pc. kit) White**  
1 P-Trap Cover  
1 Wheelchair Offset Strainer Insulator  
2 Valve & Supply Insulators
- MODEL # 3011 White**  
1 P-Trap Insulator
- MODEL # 3021 White**  
1 Valve & Supply Insulator
- MODEL # 3041-M White**  
1 Wheelchair Offset Strainer Insulator

### Available color options:

White	Gray	Almond	Black



\*Tested in accordance with Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index (not for Plenum use).

\*\*Velcro is a registered trademark of Velcro USA Inc.



P.O. Box 1684 Palm Springs, CA 92263 (760) 343-7363 1-800-475-8629 FAX (760)343-7366  
Plumberex Specialty Products, Inc. Reserves the right to make changes or improvements at any time without notice.

**SUGGESTED SPECIFICATIONS**  
ADA Under-Lavatory Insulator/Protectors  
January 17, 2011

**Under-Lavatory ADA Insulator/Protectors**

Insulate all exposed drainage piping including hot, cold and tempered water supplies under lavatories and sinks per ADA & IBC with **Plumberex: HANDY-SHIELD MAXX™**

Installed Insulators Protectors shall meet ADA 2010 Technical requirements sec. 4.19.4, ADAAG sec. 606.5, ICC/ANSI A117.1 sec. 606.6, or GSA & DOD's ABA 606.5. Insulation material shall comply with IBC (International Building Code) Flame and Smoke Testing Standard ASTM E 84-07/ UL 723 Class A. Insulator Protectors shall be listed and meet UPC/IAPMO Standard PS 94-2008. Insulation material shall be soft 1/8", non laminated flexible PVC with U/V inhibited antimicrobial, antifungal properties, with high gloss color finish matching fixture. Adhesives, sewing threads, and two ply laminated materials are not allowed. ASTM C177 tested "R" value of 0.504 for Thermal resistance and ASTM C518 "K" value of 0.358, Density-21.61 PCF for Thermal Conductivity. One piece fusion molded universal design for multiple P-trap configurations. Exterior surfaces shall be smooth, nonabsorbent with no finger recessed indentations to eliminate dirt and grime and for easy cleaning. Weep hole for sanitary condensation drainage and ventilation at the bottom of J-bend. Insulator Supply riser shall be min. 15" in length and flexible for continuous covering of braided flexible water supplies. Dual fastening system consisting of fusion bonded Velcro fastener strips for full slit enclosure and tamper resistant, non-abrasive snap-locking fasteners. **No adhesive mounted Velcro allowed. No cable tie fasteners allowed.**

Manufacturer: **Plumberex Specialty Products Inc.** Model: **HANDY-SHIELD MAXX™**

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**Alternate Specification**

**Under Lavatory/Sink Insulator protectors:**

Insulate all exposed drainage piping including hot, cold and tempered water supplies under lavatories or sinks per ADA & IBC with **Plumberex: HANDY-SHIELD MAXX™**

1. Construction: 1/8 inch thick soft, non-laminated flexible PVC with antimicrobial, antifungal and UV resistant properties. Fusion molded one piece universal design for mutable P-trap configurations. Adhesives, sewing threads and two ply laminated materials shall not be allowed. Exterior surfaces shall be smooth nonabsorbent with no finger recessed indentations for easy cleaning. Supply riser shall be flexible & min. 15" in length.  
Insulation Material:
  - a. Flame & Smoke: IBC (International Building Code) Testing Standard ASTM E 84-07/ UL 723 Class A Material
  - b. Thermal Resistance a R value of 0.504 or lower when tested by ASTM C177
  - c. Thermal Conductivity a K value of 0.358, Density-21.61pcf per ASTM C518
  - d. Microbial, & Fungal resistance for interior & exterior: ASTM G21- "0" growth
2. Sanitary: Weep hole for condensation drainage and ventilation
3. Fasteners: Reusable, fusion bonded Velcro and tamper resistant snap-locking fasteners with no sharp or abrasive external surfaces. No cable tie fasteners allowed.
4. Compliance: Installed shall comply with ADA 2010 Accessible Design 4.19.4, & IBC, ADAAG 606.5, GSA & DOD's ABA 606.5, ICC/ANSI A117.1 606.6 and UPC/IAPMO PS 94-2008.
5. Color: High Gloss color to match fixture. Color selected by Architect.
6. Acceptable insulator protector

**HANDY-SHIELD MAXX™ by Plumberex Specialty Products Inc.**

# Trap Gear™



# #1 for Fast and Easy Installation



## ADA Compliant Soft Under-Lav Insulators

Trap Gear's soft smooth body insulates drain and supply lines under lavatories to protect persons confined to wheelchairs, from bruising, cutting or burning their legs. Trap Gear is manufactured from 100% soft PVC, with anti-microbial and anti-fungal properties. The molded design ensures a smooth, elegant, custom fit. Super-Grip Velcro\* makes installations quick and simple, and Snap-Lock Fasteners provide added tamper resistance.

- New Fusion Molded Technology
- Velcro Fastened
- 100% PVC
- UV Inhibited, Anti-Microbial, Anti-Fungal
- Tamper Resistant
- Insulation conforms to ASTM E84-07
- Class A Material 25 Flame/450 Smoke

### CODES & STANDARDS COMPLIANCE:

ADA 4.19.4/ABA 606.5, ICC/ANSI A 117.1 (606.6)  
IBC (International Building Code) Chapter 8  
UPC/IAPMO 94-2008

### Flame and Smoke Safety

ASTM E 84-07 (Class A Insulation Material)  
25 Flame Spread/450 Smoke Index\*

### Thermal Insulation

ASTM C-177 Thermal Conductivity 0.028 (K-Value)  
Thermal Resistance 0.504 (R-Value)  
ASTM C-518 Thermal Conductivity 0.358 (avg.)  
Thermal Resistance 0.346 (avg.)  
Thermal Resistance 2.790 ("R" Per Inch)  
Density 21.61 (PCF)

### Durability & Fungal Resistance

ASTM G153, D412, D570. Tested for long term degradation  
ASTM G153. Weatherization & UV  
ASTM D 412. Tensile Strength and Elongation  
ASTM D 570. Water Absorption  
ASTM G21. Interior and Exterior surface Tested  
Result of -0- Fungal/Microbial Growth

Equal Flex Design  
Allows over  
360° Flexibility

U.S. Patent Pending

Touch 'n Go  
with Velcro\*  
for Full  
Enclosure

Smooth  
Non-Abrasive  
Snap-Lock  
Fasteners



(800) 475-8629  
[www.plumberex.com](http://www.plumberex.com)

# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions



Proudly Made in the U.S.A.

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(760) 343-7363  
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\*Velcro is a registered trademark of Velcro U.S.A.

# Trap Gear™

SOFT A.D.A. COMPLIANT UNDER-LAV INSULATORS



# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

PROJECT	
ITEM #	

## SUBMITTAL SPEC SHEET

Insulate per ADA 4.19.4, (ADA/ABA 606.5 rev.) and ICC/A117.1 (sec. 606.6) all drainage piping including all hot and cold water Valve and Supplies under lavatories. PVC Insulation Material to comply with IBC (International Building Code) shall meet Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index.\*

Insulate with brand: TRAP-GEAR™

Manufacturer: Plumberex Inc.

Insulators to meet and be listed with IPC/IAPMO Property and Material Standard PS 94-2008. With a one-piece design, fusion molded fabrication and pliable for high flexibility requirements. PVC insulator to be 1/8" thick and shall meet **Testing Standard ASTM E 84-07** as per **IBC Chapter 8**. Surfaces to be soft, smooth, non-absorbent, easy to clean U/V inhibited, antimicrobial, antifungal properties. Insulators shall have a dual fastening system which consists of fusion bonded Velcro\*\* fastener strips for full slit enclosure and tamper resistant, smooth, non-abrasive snap-locking fasteners. Surfaces to be soft, smooth, non-absorbent, easy to clean U/V inhibited, antimicrobial, antifungal properties. Insulators shall have a dual fastening system which consists of fusion bonded Velcro\*\* fastener strips for full slit enclosure and tamper resistant, smooth, non-abrasive snap-locking fasteners. **P-Trap Insulator:** Universal fit for 1 1/4"-1 1/2" brass or plastic traps and shall have drainage at lowest point to prevent condensation and or leakage build up. **Valve and Supply Insulator:** Universal fit over valve handles and for brass, plastic or metal braided supplies or connectors and shall be able to flex-curl to a minimum of 360 degrees for full slit closure for total compliance. **Off-Set Insulator:** Sized and designed to fit inside of P-trap insulator for custom fit.

### CODE & STANDARDS COMPLIANCE

- ADA 4.19.4/ABA 606.5 rev.
- ICC/ANSI A 117.1 (sec. 606.6)
- IBC (International Building Code) Chapter 8
- UPC/IAPMO 94-2008

### Thermal Insulation

- ASTM E 84-07 (Class A Insulation Material)  
25 Flame Spread/450 Smoke Index\*
- ASTM C-177 Thermal Conductivity 0.028 (K-Value)  
Thermal Resistance 0.504 (R-Value)
- ASTM C-518 Thermal Conductivity 0.358 (avg.)  
Thermal Resistance 0.346 (avg.)  
Thermal Resistance 2.790 ("R" Per Inch)  
Density 21.61 (PCF)

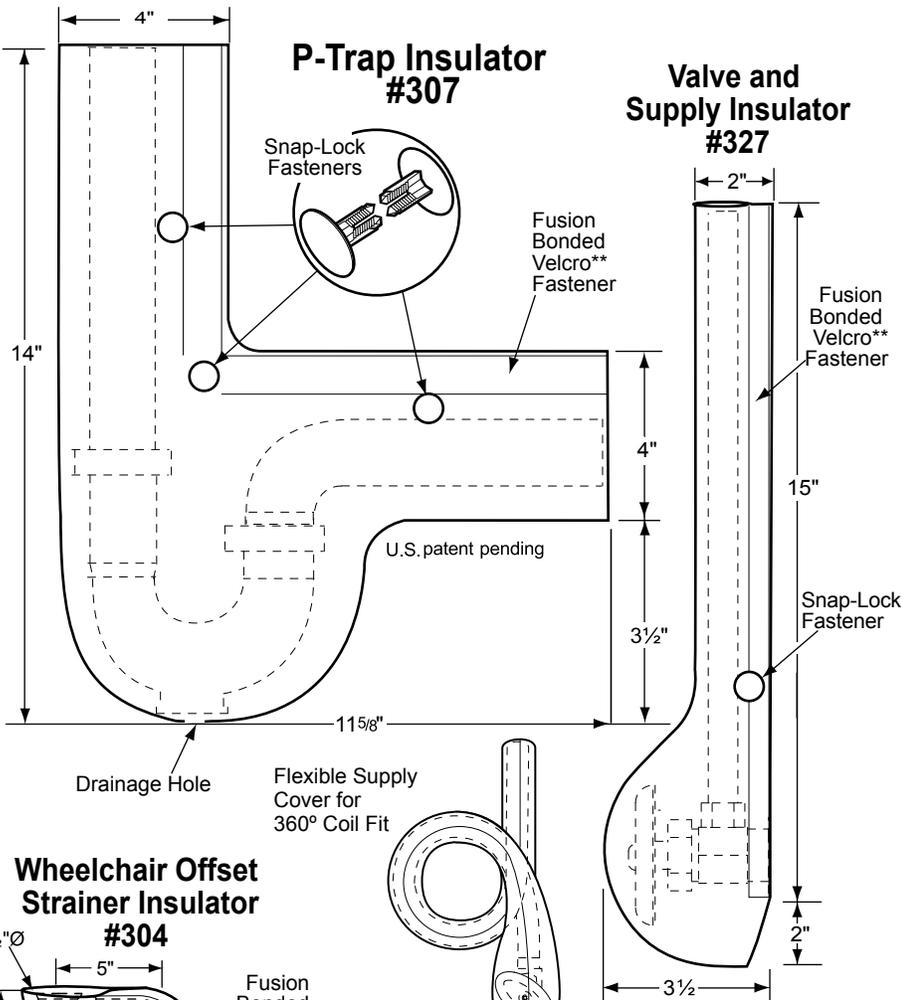
### PART NUMBER BY PRODUCT

\*Note: All model colors are white

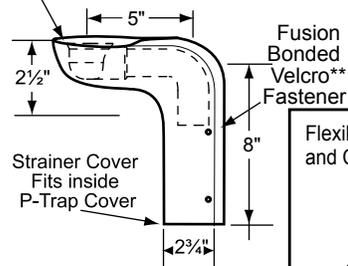
- MODEL # 307 White**  
1 P-Trap Cover
- MODEL # 327 White**  
1 Valve & Supply Cover
- MODEL # 304 White**  
1 Wheelchair Offset Strainer
- MODEL # 350 White**  
1 P-Trap Cover,  
1 Valve & Supply Cover Cover
- MODEL # 396 White**  
1 P-Trap Cover,  
2 Valve & Supply Covers
- MODEL # 427 White**  
1 P-Trap Cover  
1 Wheelchair Offset Strainer Cover  
2 Valve & Supply Covers

Available color options:

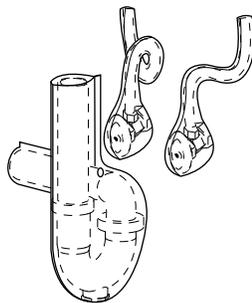
White	Gray	Almond	Black



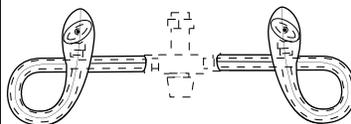
### Wheelchair Offset Strainer Insulator #304



Flexible P-Trap Cover Rotation and Coil-Fit Valve/Supply Cover



Optimum Flexibility for New Plumbing Code Required Tempering Valve Installations



\*Tested in accordance with Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index (not for Plenum use).

\*\*Velcro is a registered trademark of Velcro USA Inc.



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**SUGGESTED SPECIFICATIONS**  
Under-Lavatory ADA Insulator/Protectors  
January 17, 2011

**Under-Lavatory ADA Insulator/Protectors**

Insulate all exposed drainage piping including hot, cold and tempered water supplies under lavatories and sinks per ADA & IBC with **Plumberex: TRAP GEAR™**.

Installed Insulators Protectors shall meet ADA 2010 Technical requirements sec. 4.19.4, ADAAG sec. 606.5, ICC/ANSI A117.1 sec. 606.6, or GSA & DOD's ABA 606.5. Insulation material shall comply with IBC (International Building Code) Flame and Smoke Testing Standard ASTM E 84-07/ UL 723 Class A. Insulator Protectors shall be listed and meet UPC/IAPMO Standard PS 94-2008. Insulation material shall be soft 1/8", non laminated inherent, flexible PVC with UV inhibited antimicrobial, antifungal properties, with high gloss color finish matching fixture. Adhesives, sewing threads, and two ply laminated materials are not allowed. ASTM C177 tested "R" value of 0.504 for Thermal resistance and ASTM C518 "K" value of 0.358, Density-21.61 PCF for Thermal Conductivity. One piece fusion molded design for 1 1/4 tubular shall have smooth, nonabsorbent exterior surfaces with no finger recessed indentations for cleaning maintenance. Weep hole for sanitary condensation drainage and ventilation at the bottom of J-bend. Insulator Supply riser shall be min.15" in length and flexible for continuous covering of braided flexible water supplies. Dual fastening system consisting of fusion bonded Velcro fastener strips for full slit enclosure and tamper resistant, non-abrasive snap-locking fasteners. **No adhesive mounted Velcro allowed. No cable tie fasteners allowed.**

Manufacturer: **Plumberex Specialty Products Inc.** Model: **TRAP GEAR™**

---

**Alternate Specification**

**Under Lavatory/Sink Insulator Protectors:**

Insulate all exposed drainage piping including hot, cold and tempered water supplies under lavatories or sinks per ADA & IBC with **Plumberex TRAP GEAR™**.

1. Construction: 1/8 inch thick soft, non-laminated flexible PVC with antimicrobial, antifungal and UV resistant properties. Fusion molded one piece design for 1 1/4 tubular. Adhesives, sewing threads and two ply laminated materials shall not be allowed. Supply riser shall be min.15" in length and flexible. Exterior surface shall be smooth with no finger recessed indentations.  
Insulation Material:
  - a. Flame & Smoke: IBC (International Building Code) Testing Standard ASTM E 84-07/ UL 723 Class A Material
  - b. Thermal Resistance a R value of 0.504 or lower when tested by ASTM C177
  - c. Thermal Conductivity a K value of 0.358, Density-21.61pcf per ASTM C518
  - d. Microbial, & Fungal resistance for interior & exterior: ASTM G21- 0 growth
2. Sanitary: Weep hole for condensation drainage and ventilation
3. Fasteners: Reusable, fusion bonded Velcro and tamper resistant snap-locking fasteners with no sharp or abrasive external surfaces. No Cable tie fasteners allowed.
4. Compliance: Installed shall comply with ADA 2010 Accessible Design 4.19.4, & IBC, ADAAG 606.5, GSA & DOD's ABA 606.5, ICC/ANSI A117.1 606.6 and UPC/IAPMO PS 94-2008.
5. Color: High Gloss color to match fixture. Color selected by Architect.
6. Acceptable insulator protector:

**TRAP GEAR™ by Plumberex Specialty Products Inc.**

# PRO-EXTREME™



## Under-Lav Protectors

**One-Piece, Uniform, Patented Design:**

Saves more Time & Labor than Multiple Piece Installations!

Delivers Superior Aesthetics!

**Smooth 100% PVC with Antimicrobial/Antifungal Agents:**

Prevent Grime and Fungal Build-Up Unlike Other Products with Overlapping Hubs, Raised Lettering & Large Indentations

Makes Cleaning Easier!

**Dual Drainage Holes** for ventilation and drainage

**Internal Flexible Self-Adjusting Structures:**

provide contact cushioning, thermal protection, and ensures a snug fit

**Internal Tear Lines**

for professional custom fit. Won't easily tear during call-backs, installation or maintenance!



**Valve Access Cap**

Competitors require hassle of complete unit disassembly!

**NEW! Snap-Lock Fasteners Smooth Non-Abrasive Won't Break Off!**

Pain-Free Installation!  
No Cable Ties!

**Full Rotation Option!**

U.S. Patent 7,100,633  
other patent applied for



One or Two Piece Patented Mechanical Installation exclusively by Pro-Extreme. Features New Locking Ring with MegaGrip and no loose collars.

**Complies with the following:**

- ADA 4.19.4/ABA 606.5 (rev.)
- ICC/ANSI A 117.1
- California Code Title 24
- Canadian Barrier Free Code



Proudly Made in the U.S.A.

The majority of new P-Trap installations done by professional, mechanical and plumbing contractors are straight, centerline rough-ins for hassle-free labor-saving finish. This application is perfect for the Pro-Extreme's labor-saving one-piece design.

A.D.A. Under-Lav Protection has created challenges such as installation difficulty, poor aesthetics, vandal resistance, cleaning, water shut-off access, and long-term maintenance removal and reinstallation.

As a building professional, feel confident the Pro-Extreme solves these under-lav challenges and will do a superior job for you and your customer.

**(800)-475-8629**  
**www.plumberex.com**

# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

# "PRO-EXTREME"™

A.D.A. COMPLIANT UNDER-LAV COVERS



ADA Compliant for Americans with Disabilities Act



# PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

## SUBMITTAL SPEC SHEET

**Insulate per ADA 4.19.4, (ADA/ABA 606.5 rev.) and ICC/ANSI A117.1, all drainage piping including all hot and cold water supplies under lavatories. Insulate with brand: Pro-Extreme™ Manufacturer: Plumberex, Inc.**

Molded PVC Covers containing anti-microbial/anti-fungal and UV inhibitors with Self-extinguishing flammability characteristics. Fastening system to consist of tamper-resistant, smooth, non-abrasive snap-locks. **P-Trap Cover:** One-Piece cover designed with full rotation option. Cover must have weep holes at the lowest point for proper leak drainage and for ventilation.

**Valve and Supply Covers:** One-Piece covers designed with removable cap for access to water shut-off. Removable Cap can be reassembled and secured; no loose access parts are allowed to ensure long-term tamper-resistance. Cover must have weep holes at the lowest point for proper leak drainage and for ventilation. **Wheel Chair Offset Strainer Cover:** One-Piece cover designed with full rotation option. Cover also uses Velcro fasteners for easy installation.

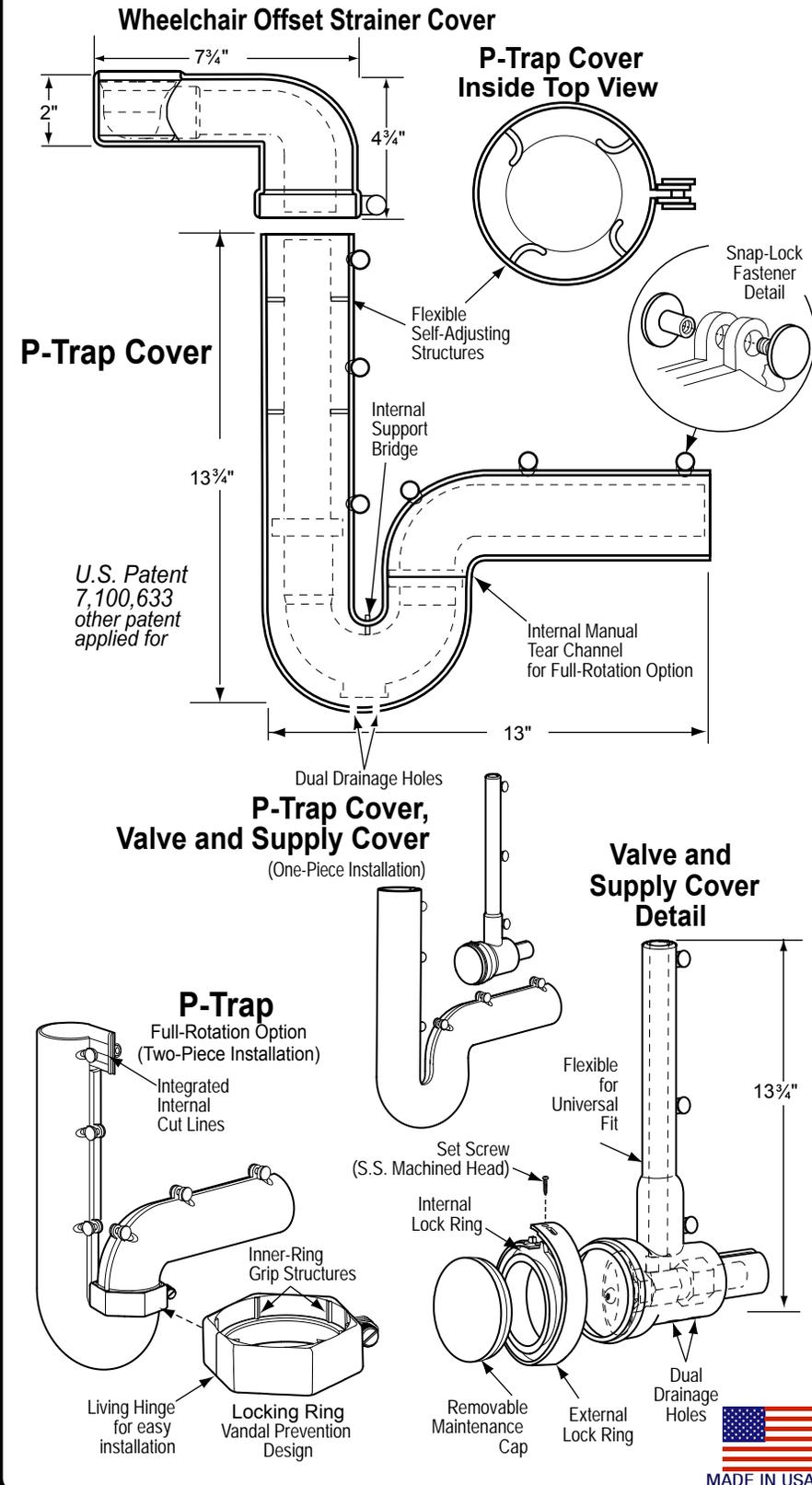
### CODE COMPLIANCE

- ADA 4.19.4/ABA 606.5 (rev.)
- ICC/ANSI A117.1
- Canadian Barrier Free Act

"This product does not meet the 25 Flame/450 Smoke index material test standard ASTM E-84, and may not satisfy City County, or State Code enforcement bodies. Check with your Authority Having Jurisdiction (AHJ)."

### PART NUMBER BY PRODUCT

- MODEL # X4111**  
1 P-Trap Cover
- MODEL # X4112**  
1 Valve & Supply Cover
- MODEL # X4114**  
1 Wheelchair Offset Strainer Cover
- MODEL # X4222**  
1 P-Trap Cover,  
1 Valve & Supply Cover
- MODEL # X4333**  
1 P-Trap Cover,  
2 Valve & Supply Covers
- MODEL # X4444**  
1 P-Trap Cover  
1 Wheelchair Offset Strainer Cover  
2 Valve & Supply Covers



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**SUGGESTED SPECIFICATIONS**  
FOR  
Under-Lavatory Pipe & Supply Cover  
January 17, 2011

**Under-Lavatory Pipe & Supply Cover:**

Insulate all exposed drainage piping including hot, cold and tempered water supplies under lavatories or sinks with **Plumberex PRO-EXTREME™**. Installed cover shall meet ADA 4.19.4, ADAAG 606.5, ICC/ANSI A117.1 606.6, or GSA & DOD's ABA 606.5 requirement to "protect against contact – no sharp or abrasive surfaces". Pipe Cover material to be 1/8" thick PVC with antimicrobial, antifungal and U/V inhibited properties. One piece injected molded design for 11/4"-11/2" tubular, shall have smooth, nonabsorbent exterior surfaces with high gloss finish. Cover shall have Thermal properties to protect from hot & cold contact. To eliminate dirt and grime build up and for cleaning maintenance, exterior surfaces shall be smooth with no finger recessed indentations. Valve & Supply Cover shall be accessible for maintenance without removal, and with removable reusable, access cap. Secure with Non-abrasive Self-Locking Snap Fasteners, no cable ties. Pipe cover shall have an Internal Bridge at top of J-bend to support cover installation from separating. Dual drainage holes for condensation drainage and ventilation in P-trap and Valve & Supply covers. Internal lines grooves for trimming shall be Vandal resistance and not be manufactured to easily tear by hand, all trim lines shall require tool cutting only.

Manufacturer: **Plumberex Specialty Products Inc.**

Model: **PRO-EXTREME™**

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**Alternate Specification**

**Under Lavatory Pipe & Supply Cover:**

Insulate all exposed drainage piping including all hot, cold and tempered water supplies under lavatories or sinks per ADA with Plumberex: Pro-Extreme

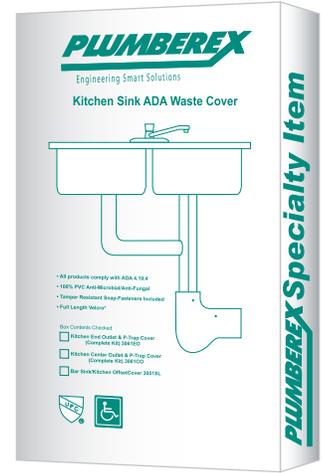
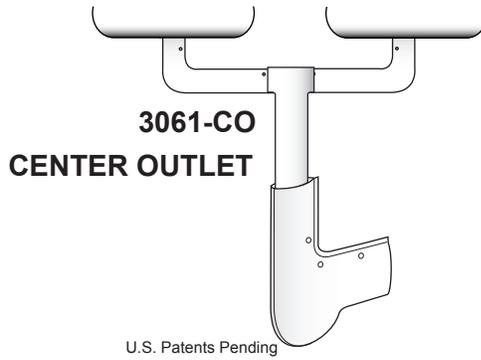
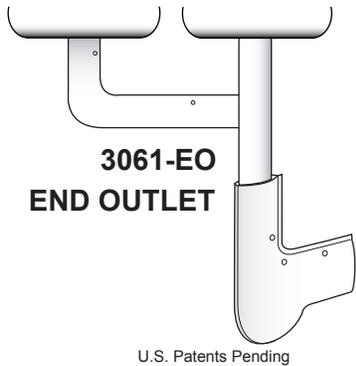
1. Construction: 1/8 inch PVC with antimicrobial, antifungal and UV resistant properties, One Piece injected molded design with internal bridge at top of J-bend to prevent separating.
2. Fasteners: Reusable, snap-locking fasteners with no sharp or abrasive external surfaces. No cable ties allowed.
3. Maintenance: Valve & supply cover shall be accessible for maintenance without removal and with removable, reusable access cap.
4. Compliance: Installed shall comply with ADA 4.19.4, ADAAG 606.5, GSA & DOD's ABA 606.5, and ICC/ANSI A117.1 requirement to "protect against contact - no sharp or abrasive surfaces."
5. Sanitary: Dual drainage holes for condensation drainage and ventilation.
6. Vandal resistance: Internal lines grooves for trimming shall not be easily to tear by hand, all trim line grooves shall require tool cutting only.
7. Color: High Gloss White
8. Acceptable Pipe & Supply Cover:

**PRO-EXTREME™ by Plumberex Specialty Products Inc**

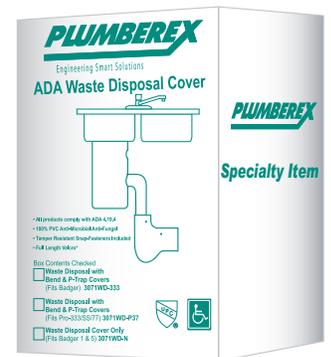
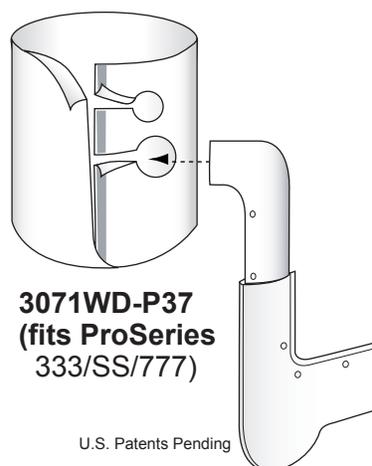
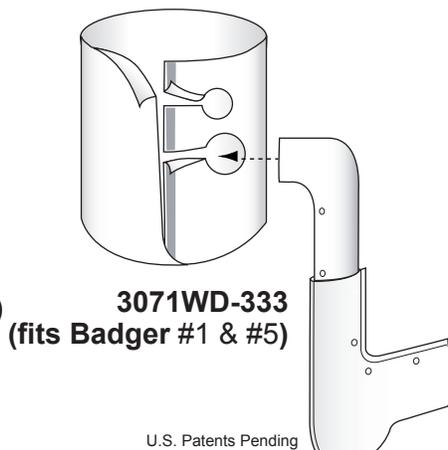
# ADA Specialty Items



## ADA Kitchen Sink 2 Part Waste Insulators



## ADA Kitchen Disposal/Waste Piping Insulators



## ADA Individual Specialty Items



MADE IN USA

# PLUMBEREX

SPECIALTY PRODUCTS INC

ADA Specialty Products



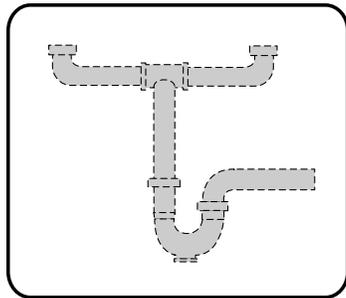
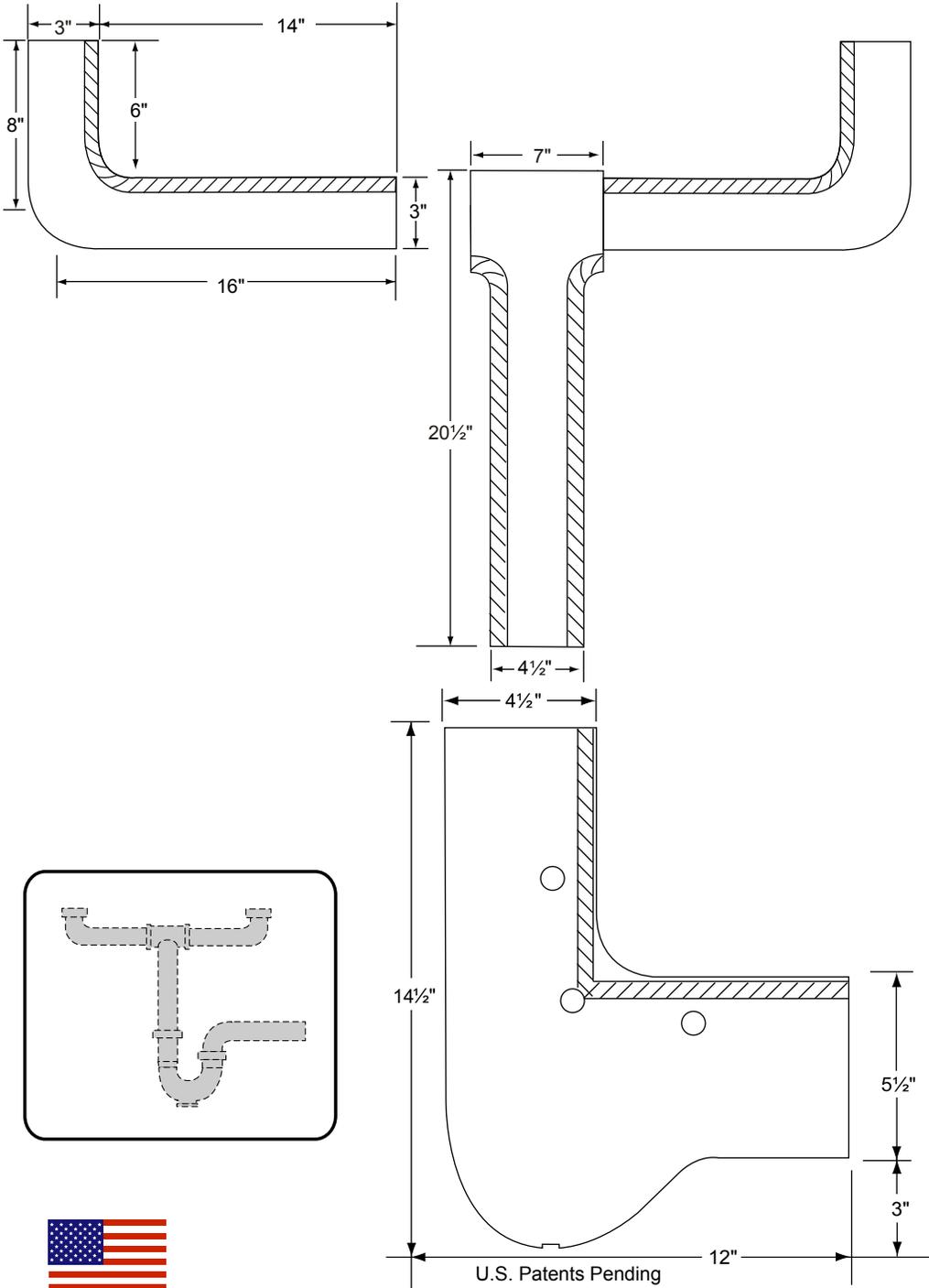
ADA  
Compliant for Americans  
with Disabilities Act  
and IAPMO Listed



## SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

## Kitchen Center Outlet & P-Trap Cover (Complete Kit)



MADE IN USA

## SUGGESTED SPECIFICATION

Insulate per ADA 4.24 and or ICC all exposed sink drain piping, hot/cold stops and supplies. Protectors shall conform to UPC/IAPMO PS 94-2001A. Protectors will consist of one-piece cover with a smooth, soft texture, anti-fungal, anti-microbial, closed cell PVC with combination heat welded/sewed construction. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*VelcroFastening Strips and tamper resistant self-locking snap fasteners. Shall have PVC Velcro fasteners adhered with heat weld bonding to allow for full enclosure. Protectors must be secured by Heavy-Duty, Self-Locking, Snap Fasteners for permanent safe fit option to deter theft and/or injury.

**Manufacturer: Plumberex Specialty Products Inc.**

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

## PRODUCT DETAIL:

For kitchen sink applications, specifically waste disposal, exposed piping and supply stop protectors requiring compliance with ADA 4.24. Waste disposal, bend and P-Trap covers attach by a dual fastening system of a 3/4" full length Velcro strip and tamper resistant, self-locking snap fasteners. Surfaces are easy to clean non-absorbent PVC with U/V inhibited, antifungal/anti microbial agents.

## PART NUMBER BY PRODUCT

\*Note: All model colors are white

**MODEL # 3061CO White**  
Kitchen Center Outlet & P-Trap Cover (Complete Kit)

Available color options:

White	Gray	Almond	Black



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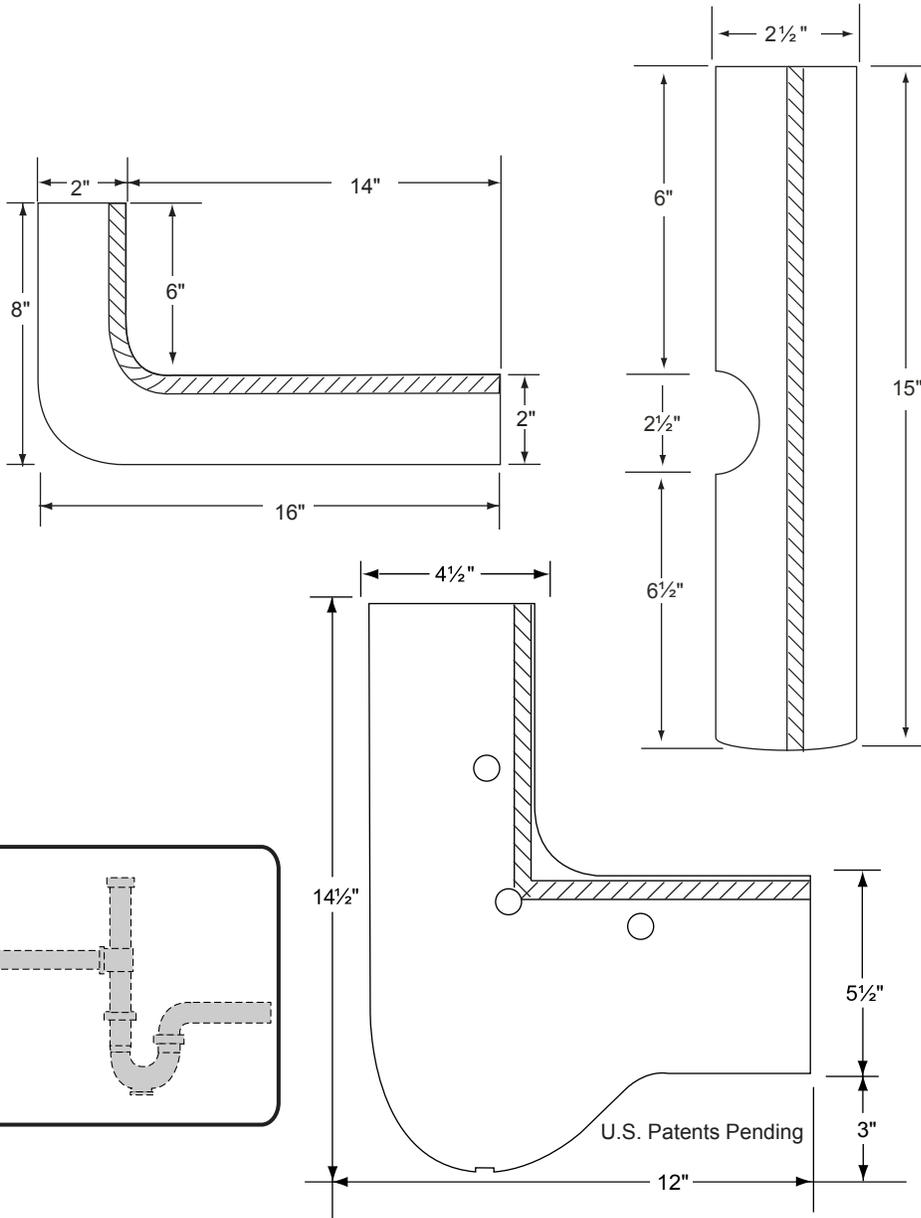


## SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

ADA Specialty Products

## Kitchen End Outlet & P-Trap Cover (Complete Kit)



## SUGGESTED SPECIFICATION

Insulate per ADA 4.24 and or ICC all exposed sink drain piping, hot/cold stops and supplies. Protectors shall conform to UPC/IAPMO PS 94-2001A. Protectors will consist of one-piece jacket with smooth and soft texture, anti-fungal, anti-microbial, closed cell PVC with combination heat welded/sewed construction. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*VelcroFastening Strips and tamper resistant self-locking snap fasteners. Shall have PVC Velcro fasteners adhered with heat weld bonding to allow for full enclosure. Protectors must be secured by Heavy-Duty, Self-Locking, Snap Fasteners for permanent safe fit option to deter theft and/or injury.

**Manufacturer: Plumberex Specialty Products Inc.**

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

## PRODUCT DETAIL:

For kitchen sink applications, specifically waste disposal, exposed piping and supply stop protectors requiring compliance with ADA 4.24. Waste disposal, bend and P-Trap covers attach by a dual fastening system of a 3/4" full length Velcro strip and tamper resistant, self-locking snap fasteners. Surfaces are easy to clean non-absorbent PVC with U/V inhibited, antifungal/anti microbial agents.

## PART NUMBER BY PRODUCT

\*Note: All model colors are white

**MODEL # 3061EO White**  
Kitchen End Outlet &  
P-Trap Cover (Complete Kit)

Available color options:

White	Gray	Almond	Black



MADE IN USA



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ADA Specialty Products

PVC Insulation Material Meets ASTM E 84 25/450\*

## SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

## SUGGESTED SPECIFICATION

Insulate per ADA (sec. 4.19.4), ADAAG (sec.606.5) and ICC/A117.1 (sec. 606.6) all drainage piping including all hot and cold water Valve and Supplies under lavatories. PVC Insulation Material to comply with IBC (International Building Code) shall meet Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index.\*

**Manufacturer:**  
**Plumberex Specialty Products, Inc.**  
**Model: #3011-2**

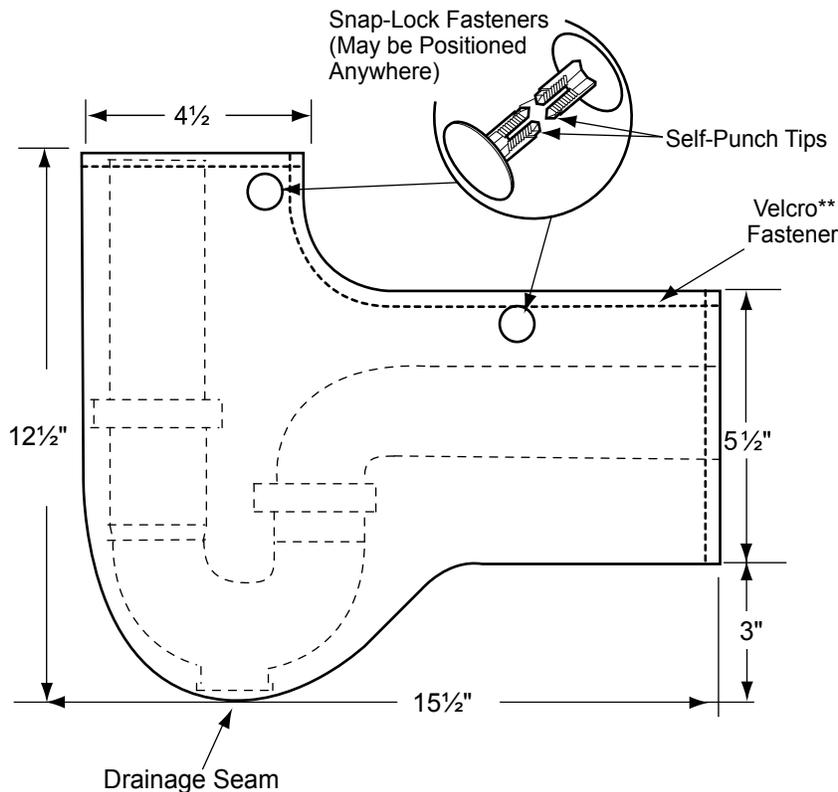
2 inch P-Trap Insulator shall have a one-piece design and be pliable for high flexibility requirements. PVC insulator to be 1/8" thick and shall meet **Testing Standard ASTM E 84-07 with a 25 flame spread/ 450 smoke index per IBC Chapter 8**. Surfaces to be soft, smooth, non-absorbent, easy to clean U/V inhibited, antimicrobial, antifungal properties. Insulator shall have a dual fastening system which consists of fusion bonded Velcro\*\* fastener strips for full slit enclosure and tamper resistant, smooth, non-abrasive snap-locking fasteners.

**2 inch P-Trap Insulator** one-piece design for a universal fit for 2" brass or plastic traps, and shall have drainage at lowest point for condensation and/or leakage.

### CODES & STANDARDS COMPLIANCE

ADA 4.19.4, ADAAG 606.5  
ICC/ANSI A 117.1 (sec. 606.6)  
IBC (International Building Code) Chapter 8  
UPC/IAPMO 94-2008  
ASTM E-84-07  
ASTM C-177/ASTM C-518

## 2" P-Trap Insulator #3011-2



## PART NUMBER BY PRODUCT

\*Note: All model colors are white

**MODEL # 3011-2 White**  
2 Inch P-Trap Cover

Available color options:

White	Gray	Almond	Black

\*Tested in accordance with Testing Standard ASTM E 84-07 with a 25 flame spread/450 smoke index (not for Plenum use).  
\*\*Velcro is a registered trademark of Velcro USA Inc.



MADE IN USA



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ADA Specialty Products



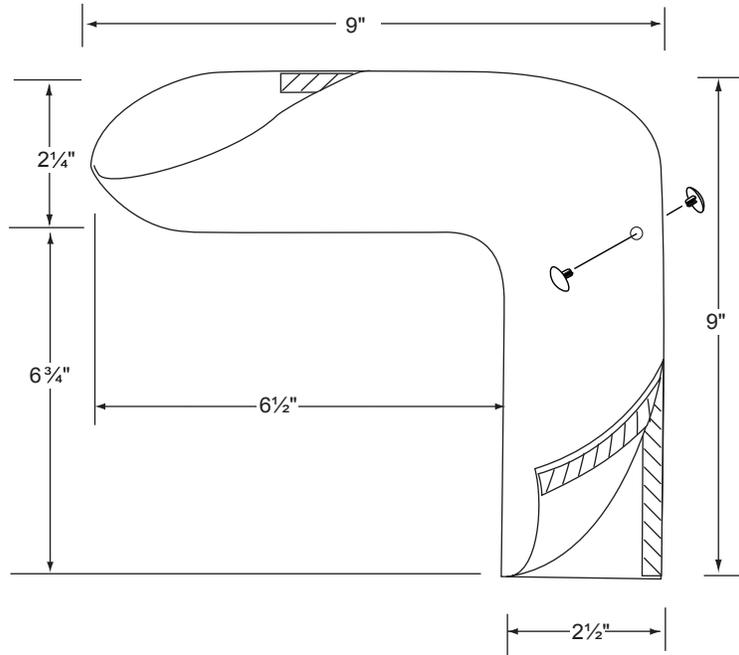
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**SUBMITTAL SHEET**

PROJECT	
DWG #	
ITEM #	

## Lavatory Offset Tail Piece Cover (Standard)



**SUGGESTED SPECIFICATION**

Insulate hot and cold domestic water piping, waste piping, and other components below ADA plumbing fixtures with IAPMO/UPC listed, one piece, molded removable 1/8" thick PVC vinyl with a smooth soft and pliable texture. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*VelcroFastening Strips and tamper resistant self-locking snap fasteners.. Protectors shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners.

**Manufacturer: Plumberex Specialty Products Inc.**

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

**PRODUCT DETAIL:**

Protectors shall have a 1 1/4" brass fit. Surfaces shall have a non-abrasive, non-absorbent easy to clean U/V inhibited, antimicrobial, and antifungal properties. Install to comply with ADA 4.19.4. for exposed offsets under lavatory plumbing fixtures.

**PART NUMBER BY PRODUCT**

**MODEL # 3041-M White**  
Lavatory Offset Tailpiece Cover  
(Standard)

Available color options:

White	Gray	Almond	Black

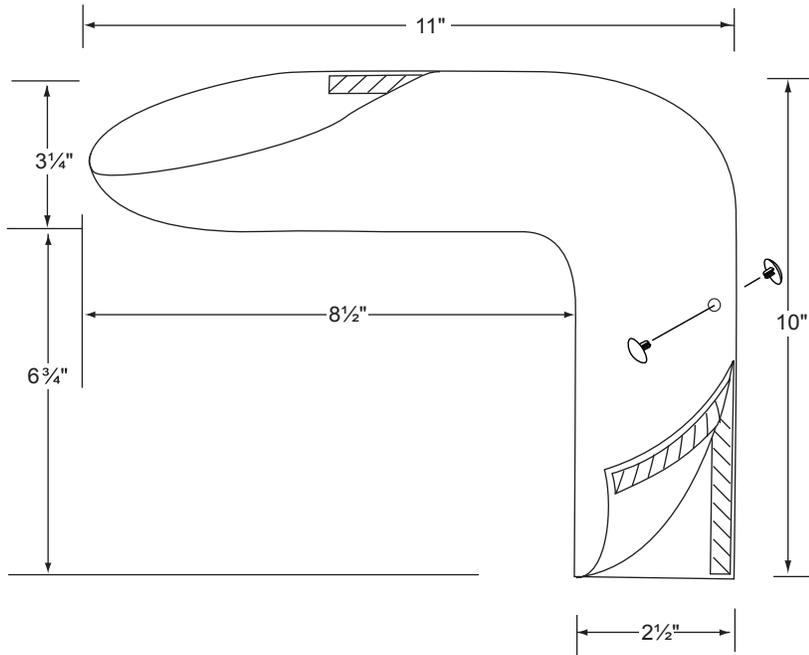




**SUBMITTAL SHEET**

PROJECT	
DWG #	
ITEM #	

## Lavatory Offset Tail Piece Cover (Long-Kohler)



**SUGGESTED SPECIFICATION**

Insulate hot and cold domestic water piping, waste piping, and other components below ADA plumbing fixtures with IAPMO/UPC listed, one piece, molded removable 1/8" thick PVC vinyl with a smooth, soft and pliable texture. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners. Insulation shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners.

**Manufacturer: Plumberex Specialty Products Inc.**  
brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

**PRODUCT DETAIL:**

Protectors shall have a 1 1/4" brass fit. Surfaces shall have a non-abrasive, non-absorbent easy to clean U/V inhibited, antimicrobial, and antifungal properties. Install to comply with ADA 4. 19. 4. for exposed offsets under lavatory plumbing fixtures.

**PART NUMBER BY PRODUCT**

**MODEL # 3041-LK White**  
Lavatory Offset Tailpiece Cover  
(Long-Kohler)

**Available color options:**

White	Gray	Almond	Black



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ADA Specialty Products



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## SUBMITTAL SHEET

PROJECT	
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ITEM #	

### SUGGESTED SPECIFICATION

Insulate hot and cold domestic water piping, waste piping, and other components below ADA plumbing fixtures with IAPMO/UPC listed, sewed, removable 1/8" thick PVC vinyl with a smooth soft and pliable texture. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners.. Protectors shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners.

#### Manufacturer: Plumberex Specialty Products Inc.

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

### PRODUCT DETAIL:

Protectors shall have a universal fit for 1 1/4"-1 1/2" brass or plastic P-Traps. Surfaces shall have a non-abrasive, non-absorbent easy to clean U/V inhibited, antimicrobial, and antifungal properties. Install to comply with ADA 4. 24. for exposed P-traps and water valve supplies under lavatory plumbing fixtures.

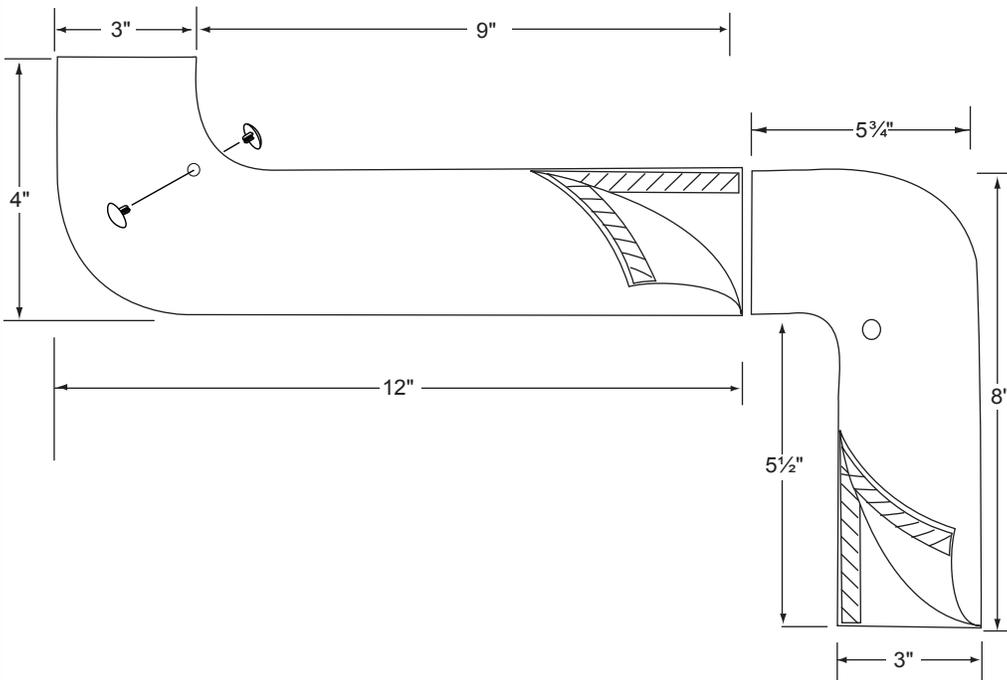
### PART NUMBER BY PRODUCT

**MODEL # 3051-XL White**  
Bar Sink/Kitchen Offset Cover

#### Available color options:

White	Gray	Almond	Black

## Bar Sink/Kitchen Offset Cover



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ADA Specialty Products



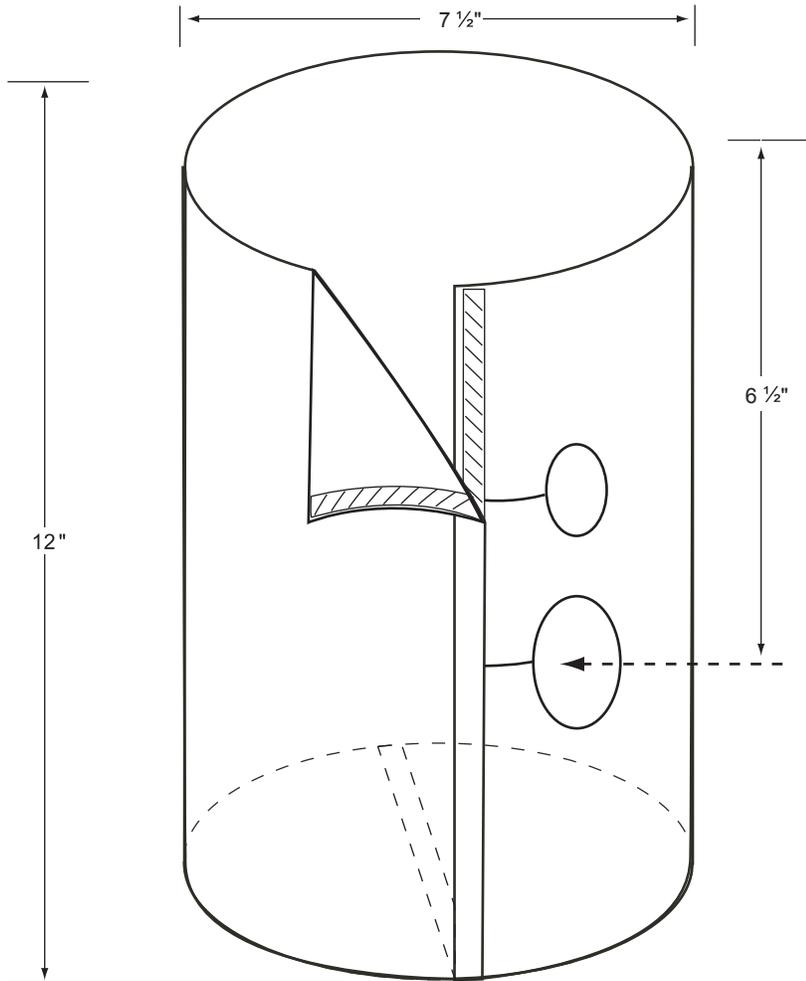
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and IAPMO Listed



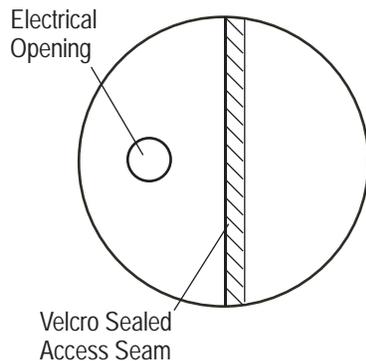
## SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

### Waste Disposal Cover Fits Badger #1 and #5



Bottom View



MADE IN USA

### SUGGESTED SPECIFICATION

Insulate per ADA 4.24 and or ICC all exposed sink drain piping, hot/cold stops and supplies. Protectors shall conform to UPC/IAPMO PS 94-2001A. Protectors will consist of one-piece jacket with smooth and soft texture, anti-fungal, anti-microbial, closed cell PVC with combination heat welded/sewed construction. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length Velcro\* Fastening Strips and tamper resistant self-locking snap fasteners. Shall have PVC Velcro fasteners adhered with heat weld bonding to allow for full enclosure. Protectors must be secured by Heavy-Duty, Self-Locking, Snap Fasteners for permanent safe fit option to deter theft and/or injury.

**Manufacturer: Plumberex Specialty Products Inc.**

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

### PRODUCT DETAIL:

For kitchen sink applications, specifically waste disposal, exposed piping and supply stop protectors requiring compliance with ADA 4.24. Waste disposal, bend and P-Trap covers attach by a dual fastening system of a 3/4" full length Velcro strip and tamper resistant, self-locking snap fasteners. Surfaces are easy to clean non-absorbent PVC with U/V inhibited, anti fungal/anti microbial agents.

### PART NUMBER BY PRODUCT

\*Note: All model colors are white

**MODEL # 3071WD-N White**  
Waste Disposal Cover  
Fits Badger #1 and #5

Available color options:

White	Gray	Almond	Black



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PROJECT	
DWG #	
ITEM #	

ADA Specialty Products

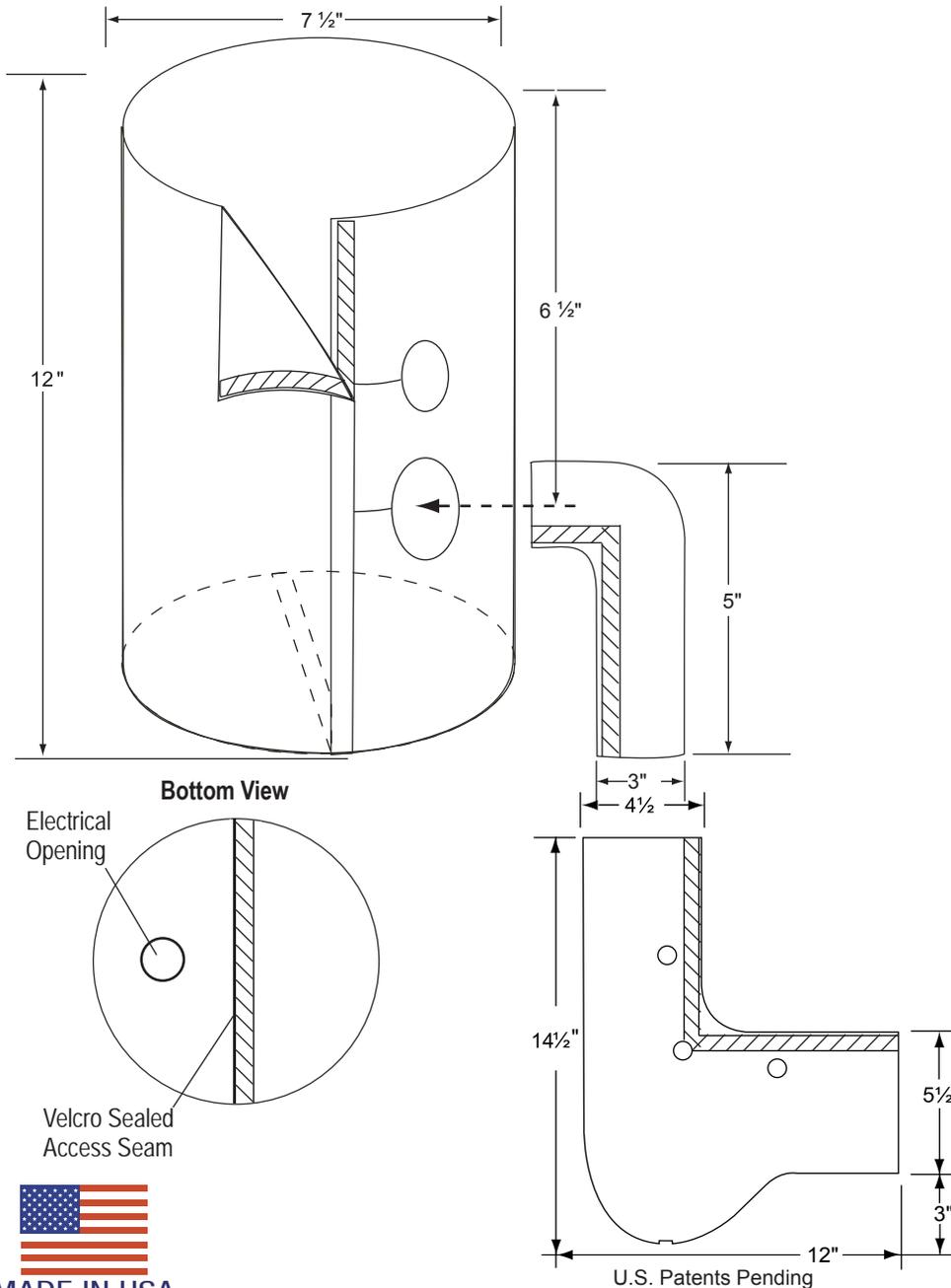


ADA  
Compliant for Americans  
with Disabilities Act  
and IAPMO Listed



## Waste Disposal w/Bend & P-Trap Cover

Fits Badger #1 and #5



### SUGGESTED SPECIFICATION

Insulate per ADA 4.19.4 and or ICC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors shall conform to UPC/IAPMO PS 94-2001A. Protectors will consist of one-piece universal fit jacket with smooth and soft texture, anti-fungal, anti-microbial, closed cell PVC with heat welded construction. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*Velcro Fastening Strips and tamper resistant self-locking snap fasteners. Shall have PVC Velcro fasteners adhered with heat weld bonding to allow for custom trimming. Protectors must be secured by Heavy-Duty, Self-Locking, Snap Fasteners for permanent safe fit option to deter theft and/or injury.

**Manufacturer: Plumberex Specialty Products Inc.**

brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

### PRODUCT DETAIL:

For kitchen sink applications, specifically waste disposal, exposed piping and supply stop protectors requiring compliance with ADA 4.24. Waste disposal, bend and P-Trap covers attach by a dual fastening system of a 3/4" full length Velcro\* strip and tamper resistant, self-locking snap fasteners. Surfaces are easy to clean non-absorbent PVC with U/V inhibited, antifungal/antimicrobial agents.

### PART NUMBER BY PRODUCT

**MODEL # 3071WD-333**  
**White**  
Waste Disposal Cover/Bend  
Cover and P-Trap Cover  
Fits Badger #1 and #5

### Available color options:

White	Gray	Almond	Black

PROJECT	
DWG #	
ITEM #	

ADA Specialty Products

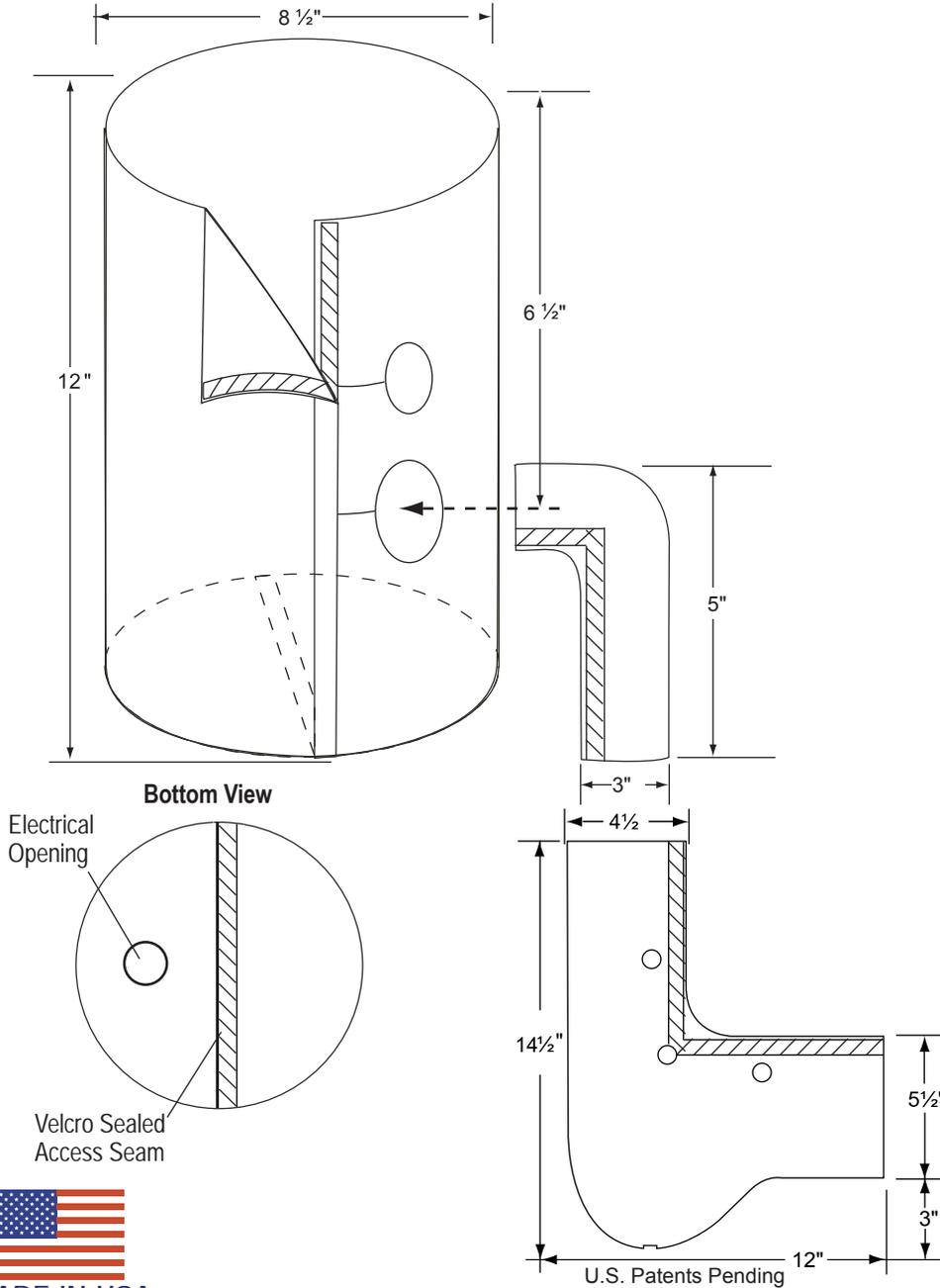


ADA  
Compliant for Americans  
with Disabilities Act  
and IAPMO Listed



## Waste Disposal w/Bend & P-Trap Cover

Fits Pro-333/SS/777 Series



### SUGGESTED SPECIFICATION

Insulate per ADA 4.19.4 and or ICC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors shall conform to UPC/IAPMO PS 94-2001A. Protectors will consist of one-piece universal fit jacket with smooth and soft texture, anti-fungal, anti-microbial, closed cell PVC with heat welded construction. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84-07 Class A Material (25 Flame/450 Smoke) criteria. Protectors shall consist of a dual fastening system of full length \*VelcroFastening Strips and tamper resistant self-locking snap fasteners. Shall have PVC Velcro fasteners adhered with heat weld bonding to allow for custom trimming. Protectors must be secured by Heavy-Duty, Self-Locking, Snap Fasteners for permanent safe fit option to deter theft and/or injury.

**Manufacturer: Plumberex Specialty Products Inc.**  
brand and shall consist of all the above listed components and features.

\*Velcro is a registered trademark of Velcro USA Inc.

### PRODUCT DETAIL:

For kitchen sink applications, specifically waste disposal, exposed piping and supply stop protectors requiring compliance with ADA 4.24. Waste disposal, bend and P-Trap covers attach by a dual fastening system of a 3/4" full length Velcro\* strip and tamper resistant, self-locking snap fasteners. Surfaces are easy to clean non-absorbent PVC with U/V inhibited, antifungal/antimicrobial agents.

### PART NUMBER BY PRODUCT

**MODEL # 3071WD-P37**  
**White**  
Waste Disposal Cover/Bend  
Cover and P-Trap Cover  
Fits Pro-333/SS/777 Series

### Available color options:

White	Gray	Almond	Black



# E-FLEX GUARD™

AC Line Set Insulation Protectors  
with Velcro



Copper Pipe and Foam Insulation not included. (Illustration only)

Patent Pending

## Complies with 2012 IECC Energy Codes Protects Outdoor Pipe Insulation

- Removable/Reuseable-Great for Maintenance
- No Adhesives, Won't Unravel Like Tape
- U/V, Fire Rated, Anti-Microbial/Fungal PVC
- Custom, Professionally Installed Appearance
- 3' and 6' Lengths, Perfect for Line Sets
- Flexible, Quick to Install with Dual Bonded Velcro
- Ensures Proper Closure of Slitted Insulation
- U/V Cable Ties For Long-Term Installation
- Available in White and Black

**Energy Codes now require protecting pipe insulation exposed to weather. E-FLEX GUARD** protects pipe insulation from solar radiation, moisture, wind, equipment maintenance. Damaged insulation will increase energy & operating costs, premature equipment failure and loss of code required efficiency.

It is less expensive to protect the pipe insulation in the beginning than excessive energy and maintenance cost or system failure afterwards.

**E-FLEX GUARD** will protect the initial insulation investment, leaving long-term, code compliant installs, but most important of all, will continue to ensure optimum energy efficiencies.

**Commercial, Residential and Replacement Applications. □  
Great for Exposed Solar Applications!**

### Code & Standards Compliance:

2012 International Energy Conservation Code (IECC)  
ANSI/ASHRAE/IESNA Standard 90.1-2004, 2007  
California Title 24.

### PVC Material tested under the following:

- ASTM E-84** Fire & Smoke (Class A)/UL 723 (Class 1)
- ASMT E-96** Water/Vapor Permeability
- ASTM G 21** Antifungal
- ASTM G 153** Weatherization & U/V

## E-FLEX GUARD™



### 2012 International Energy Conservation Code (IECC)

**Residential Section R403.3.1,  
Commercial Section C403.2.8.1  
Protection of Piping Insulation.**

Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. **Adhesive tape shall not be permitted.**

## PLUMBEREX

SPECIALTY PRODUCTS INC.

Engineering Smart Solutions



P.O. Box 1684  
Palm Springs, CA 92263  
(800)475-8629  
FAX (760)343-7366

**SUBMITTAL SHEET**

PROJECT	
DWG #	
ITEM #	

**SUGGESTED SPECIFICATION**

Exposed pipe insulation on refrigeration and hot water piping, shall be protected with a Removable/Reusable Flexible PVC Plastic. PVC material shall be treated with U/V, Anti-Fungal and Anti-Microbial Agents and shall comply with testing standard ASTM E84/UL 723 for Class A Flame & Smoke, ASTM E-96 for Water/Vapor Permeability, ASTM G153 for Weatherization and UV, and ASTM G21 for Anti-Fungal. Protective cover shall be cut to size and fitted over pipe insulation. Secure with Heavy-Duty, Dual-Bonded Velcro fasteners. Fasten UV cable ties to ensure long term complete enclosure and installation. Adhesive Tape Shall Not Be Permitted.

Pipe insulation protection for compliance per the 2012 IECC, ASHRAE 90.1, CA Title 24 Energy Codes.

**Manufacturer: Plumberex Specialty Products, Inc.**  
**Model: E-FLEX GUARD™**

**PRODUCT DETAIL:**

100% PVC Flexible Plastic w/UV Agents. Installs with Velcro® Fasteners, Cable Ties for long-term installation. Available in 72 inch (6ft) length and 75 ft roll.

**E Series**

Fits: 1/2" wall thickness pipe insulation with 5/8", 7/8" tube.

**C Series**

Fits: 3/4" wall thickness pipe insulation with 5/8", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube.

**X Series**

Fits: 1" wall thickness pipe insulation with 3/4", 7/8" tube or 3/4" wall thickness pipe insulation with 1-1/8" tube.

**PART NUMBER BY PRODUCT**

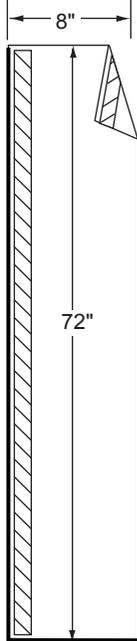
<input type="checkbox"/> MODEL # 72E 72" Length Insulation Protector
<input type="checkbox"/> MODEL # 750E 75' Length Insulation Protector
<input type="checkbox"/> MODEL # 72C 72" Length Insulation Protector
<input type="checkbox"/> MODEL # 750C 75' Length Insulation Protector
<input type="checkbox"/> MODEL # 72X 72" Length Insulation Protector
<input type="checkbox"/> MODEL # 750X 75' Length Insulation Protector
<input type="checkbox"/> MODEL # 90E (fits E Series) 90 Degree Elbow Insulation Protector
<input type="checkbox"/> MODEL # 90C (fits C Series) 90 Degree Elbow Insulation Protector
<input type="checkbox"/> MODEL # 90X (fits X Series) 90 Degree Elbow Insulation Protector

**E-FLEX GUARD™ color options**

Black -B	White -W
	

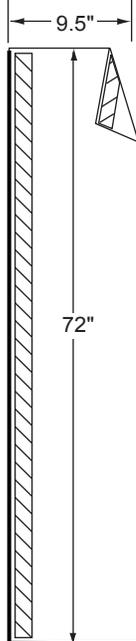
Last letter of model number designates color choice

**72E Series**

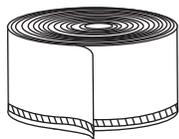
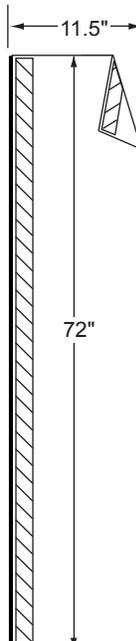


U.S. Patent Pending

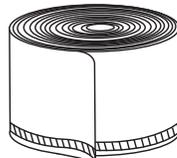
**72C Series**



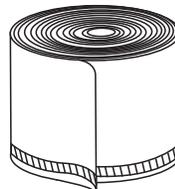
**72X Series**



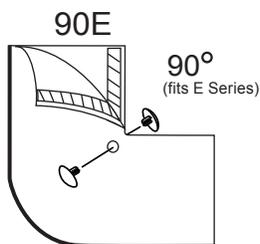
**750E**  
75' Roll



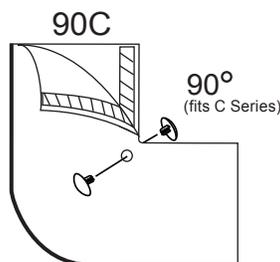
**750C**  
75' Roll



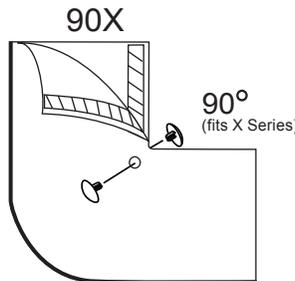
**750X**  
75' Roll



**90E**  
90°  
(fits E Series)



**90C**  
90°  
(fits C Series)



**90X**  
90°  
(fits X Series)

\*Velcro is a registered trademark of Velcro USA Inc.



**SUGGESTED SPECIFICATIONS**  
Outdoor AC Line Set Insulation Protection  
January 17, 2011

**Outdoor AC Line Set Insulation Protection**

**Protection of Piping Insulation.**

**2012 International Energy Conservation Code (IECC)**

**Residential Section R403.3.1, Commercial Section C403.2.8.1**

Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. **Adhesive tape shall not be permitted.**

Install according to IBC with: **E-FLEX GUARD™**.

**Plumberex Specialty Products, Inc. Model: E-FLEX GUARD™**

References: **ANSI/ASHRAE/IESNA Standard 90.1-2004, 2007, California Title 24 Energy Code 2008**

**NEW!**

# TITAN GS30 Outlet™

Energy Efficient Product 

Wall Seal System for HVAC Line-Set & Pipe Penetrations

**MEETS MANDATORY FEDERAL, STATE & LOCAL ENERGY, BUILDING & MECHANICAL CODES**

**Commercial, Residential & Replacement Applications**

- **TITE-FORCE™** Wall Gasket/Seal Compression, for Air Leakage Sealing
- **TITE-SLEEVE™** Elastomeric **TRIAx-3™** Flexible Technology!
- **Design Features Superior and Durable Best In Class Materials**
- **Professional Grade Line-Set Pipe Isolation Support & Vibration Control**

TITAN GS30 Outlet™ Engineered, Professional Grade, Weather-Resistant, Wall Enclosure that fits over and seals around wall surface penetrations utilizing elastomeric, gaskets and seals. **TITAN GS30 Outlet™** Prevents, wall gaps and exterior surface cracks associated with the use of rigid wall penetration sleeves or rigid penetration flashing materials. **TITE-FORCE™** A combined fastener and gasket/seal applied compression-force system that accomplishes simultaneous, solid, internal wall structure attachment and all-surface wall gasket mounting for long-term sustainable and effective air leakage sealing.

**TITE-SLEEVE™** Flexible Elastomeric Flexible Sleeve seals line-set insulation and piping or plastic vent piping, creating an air leakage seal with a professional and aesthetic finish. The sleeve also features the **POWER-GRIP ZONE™** a designated region to accommodate a stainless steel clamp that will ensure a complete enclosure hold and security against **rodents, insects, tampering.** **TITE-SLEEVE™** also features a mechanical connect solution with **E-FLEX GUARD™** to comply with energy code required line-set insulation protection covers.

### TRIAx-3™ Flex Technology- 3 combined flexibility features:

- 1. Flexible**-withstands flexible and length demands required for pipe installations
- 2. Resilient**-withstands elasticity demands required by Multiple Diameters
- 3. Torsion**-withstands high stress force twisting demands for bending piping

### Expansion & Contraction of Dissimilar Materials Requirement

"The sealing methods between dissimilar materials shall allow for differential expansion and contraction"

-Reference: International Energy Conservation Code (IECC) - AIR LEAKAGE (MANDATORY) Sections R402.4, R402.1

### Gaskets can be Better than Caulk...

When Builders first learn about air sealing, they often depend heavily on caulk. After inspecting a home for leaks during a blower-door test; however, they learn that the caulk has a few downsides. That's when they usually graduate to gaskets."

\*Reference - AIR LEAKAGE GUIDE (Nov. 2011), Building Technologies Program -U.S. Department of Energy

**HVAC Refrigeration Line Sets and the proper Wall Sealing.** Support with Flexible Stability, are very important requirements of Modern High-Energy Efficient HVAC Systems. Now, equally as important is the proper Sealing of the Building Wall Envelope. The New Mandated Energy Code Requirements are a combined effort to accomplish both Optimum-Performance of HVAC Systems and Sustainable, Energy Efficient Buildings. If you're looking to achieve, Mandatory Energy Code Compliance, Maximum, Sustainable Energy Efficiency, Improved Reliability, Pleasing Aesthetic Features and Greater Customer Satisfaction - Save, Seal & Protect with **E-FLEX PRO-SYSTEM KIT™**. Your Customers will be glad you did!

### Individual Parts and Kit Model Numbers

- Plaster, Masonry Applications**
- TGS-550 | TITAN GS30 Outlet™
  - TGS-575 | TITAN GS30 Outlet™
  - TGS-510 | TITAN GS30 Outlet™
  - TGS-65072E | E-FLEX PRO-SYSTEM KIT™
  - TGS-67572C | E-FLEX PRO-SYSTEM KIT™
  - TGS-61072X | E-FLEX PRO-SYSTEM KIT™
- Siding Applications**
- TSS-550 | TITAN GS30 Outlet™
  - TSS-575 | TITAN GS30 Outlet™
  - TSS-65072E | E-FLEX PRO-SYSTEM KIT™
  - TSS-67572C | E-FLEX PRO-SYSTEM KIT™



Patent Pending  
**TSS Model Series**  
For Siding Surfaces

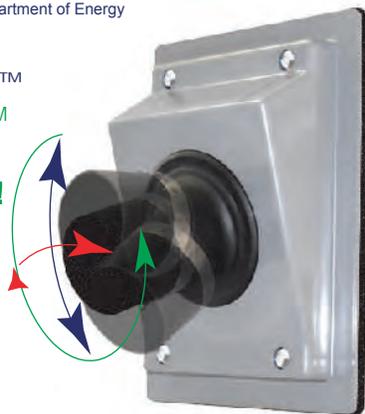
Available Colors	
Gray	White

**TGS Model Series**  
For Plaster & Masonry Surfaces

**Air leakage in homes can increase heating and cooling bills by 30%**

-Reference: U.S. Department of Energy

- TITE-SLEEVE™**  
**TRIAx-3™**  
**Elastic Technology!**
- **Flexible**-Multi-Direction
  - **Resilient**-Multi-Diameter
  - **Torsion**-Twisting



Patent Pending

**TITE-FORCE™**  
**Wall Gasket**-Compressed Elastomeric, wall gasket for air-tight sealing.

**Screws with Gaskets**-Create compression for wall mounting and air sealing.

### E-FLEX PRO-SYSTEM KIT™



**TITE-SLEEVE™**  
**POWER-GRIP ZONE™**  
**E-FLEX GUARD™**

**Mechanical Connection**  
No Adhesives or Tape!

### E-FLEX PRO-SYSTEM KIT™

**TITAN GS30 Outlet™** and **E-FLEX GUARD™** Insulation Protectors Combined and engineered for full energy code compliance, enhanced performance and sustainable, energy efficiency.

Also Seals Standard Masonry Surfaces!  
Deeper Grout TGS and Vinyl Siding TSS Models Available.



P.O. Box 1684  
Palm Springs, CA 92263  
1-800-475-8629 | (760) 343-7363 | FAX (760)343-7366

Plumberex Specialty Products, Inc. Reserves the right to make changes or improvements at any time without notice.



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# TITAN GS30 Outlet™

## Wall Seal System for HVAC Line-Set & Pipe Penetrations

SUBMITTAL SHEET

PROJECT	
DWG #	
ITEM #	

Submittal/Specification Sheet

### Wall Penetration Air Leakage Sealing

All outdoor HVAC Condensing Unit Refrigerant line set penetrations through the building envelope shall be properly sealed with an aesthetic and durable wall trim receiver to limit infiltration and air leakage in accordance with the MANDATED 2006, 2009, and 2012 IECC (International Energy Conservation Code), 2008 California Building Energy Efficiency Standards (Title 24), and all other applicable Federal, State and Local Building Energy Codes.

The wall trim receiver shall be made of durable high impact strength material, UV resistant, and extreme weather resistant material. The wall trim receiver shall have a built-in pitch or slope design away from the exterior wall to prevent water or moisture build-up. The wall trim receiver shall be able to be attached to the building wall with the use of screws for self-tapping, concrete, plaster, mortar, and all-materials and to include 2,000 lbs. (psi) pull rating. The screws are to be pre-loaded with neoprene washers for an air-tight seal. The wall receiver is to be sustainable, accessible, removable/reusable for maintenance and to assist when line sets are required to be repaired or replaced, so that future wall demolition is minimized and/or not required. The wall trim receiver shall have a surface edge perimeter pre-mounted gasket for proper wall sealing and a mounted duct seal that is highly flexible and that properly receives and seals with an elastomeric, tight fit around the insulated line set. The design shall consist of a highly strong and combined durable chemical and mechanical bond structure with the dissimilar materials allowing for isolation, anti-vibration, anti-seismic and building wall expansions and contractions. The elastomeric duct seal shall create isolation, anti-vibration, anti-seismic, and anti-rodent security. There shall be combined holding action by the elastomeric sleeve with an outside diameter, adjustable stainless steel clamp, to create a fully isolated, supported, sealed, and secured penetrating line set connection, as required by the UMC (Uniform Mechanical Code) and IMC (International Mechanical Code) Mechanical Codes. Referenced by the ARI (Air-Conditioning and Refrigeration Institute) Split System Air Conditioner Installation Guideline and the ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers) Handbook - HVAC Applications.

### Line Set Insulation Protection

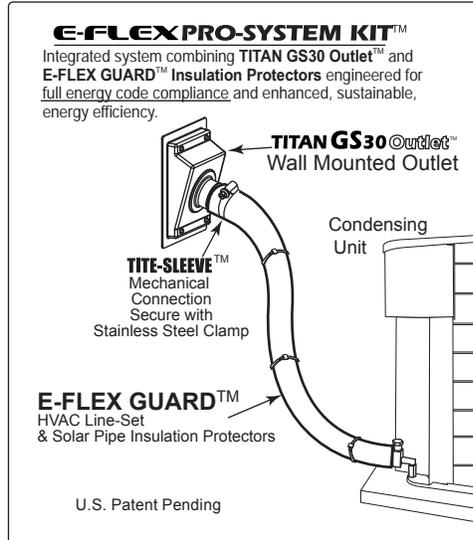
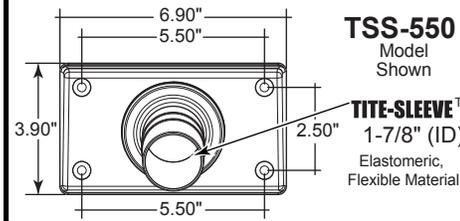
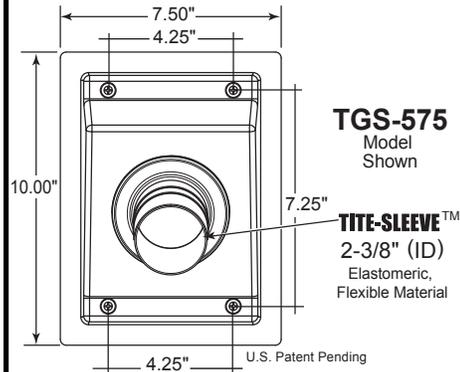
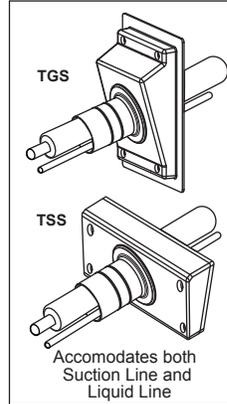
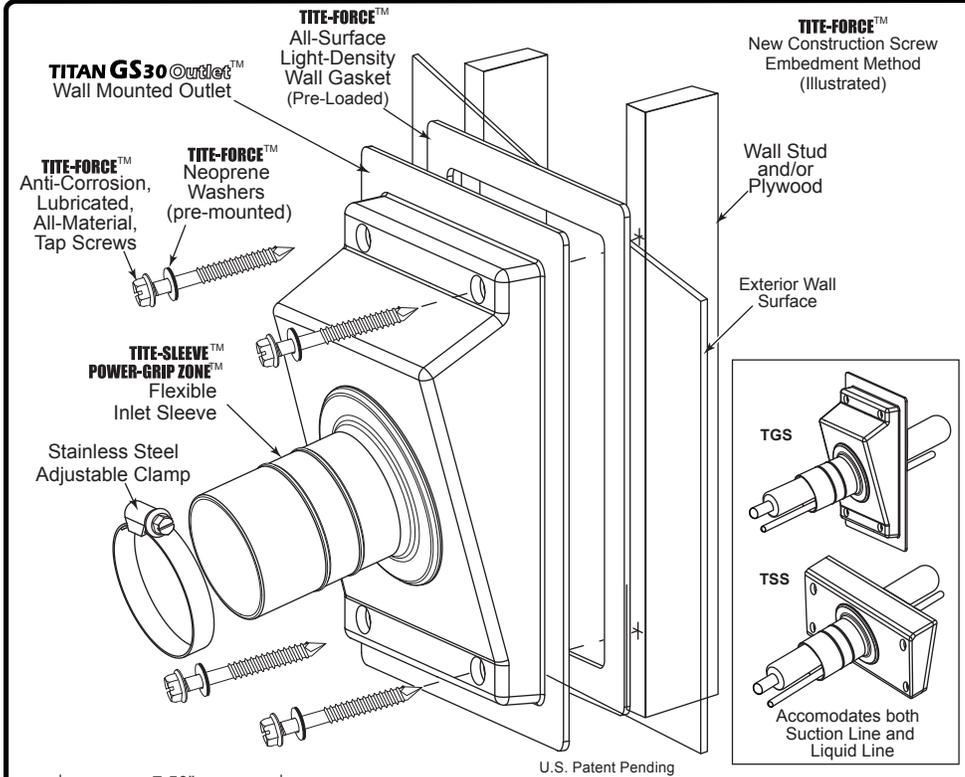
The elastomeric internal duct sleeve diameter inlet shall be appropriately sized and installed to create a tight, proper, air-tight seal fit. The elastomeric duct seal is to be properly connected with the outdoor insulated line set which shall be covered with an appropriate durable, weather protector for long term energy efficiency.

All outdoor insulated line sets are to be protected by a flexible, removable/reusable plastic protector for ease of long term service maintenance. The protector shall have UV, Anti-Fungal, Anti-Microbial Agents and Vapor/Water Permeable Abilities. The plastic cover (PVC) shall be able to be properly cut to length and fitted around the diameter of the pipe insulation. The protector will be secured by heavy duty, dual bonded Velcro fasteners. UV resistant cable ties will ensure long term complete enclosure. To comply with ASHRAE 90.1-2004, IECC 2012, and U.S. Green Building Energy Code, and 2010 California Green Building Standards Code (Title 24), and all other applicable Federal, State and Local Building Energy Codes. Adhesive Tape Shall Not Be Permitted.

Manufacturer:  
PLUMBEREX Specialty Products, Inc.

### Codes, Standards & Performance Compliance

- 2008 California Building Energy Efficiency Standards (TITLE 24 ENERGY CODE) Air Leakage (Mandatory) - All occupancies Section 117 Joints and other Openings/Exterior Wall Penetrations
- 2006, 2009, 2012 International Building Code (IBC) Chapter 13
- 2006, 2009, 2012 International Residential Code (IRC) Chapter 11 Part IV Energy Efficiency - Section N1101 General - N1101.1 Scope - Air Leakage Section N1102.4 Section N1102.4.1 - Building Thermal Envelope - (1. All joints, seams, penetrations)
- Chapter 11 Refrigeration Section 1101.0 Scope - 1101.3 Protection
- 2006, 2009 and 2012 International Energy Conservation Code (IECC) Air Leakage (Mandatory) - Residential Section 402.4.1 and 402.4.1.1 Building Thermal Envelope - Penetrations
- 2006, 2009 and 2012 International Energy Conservation Code (IECC) Air Leakage (Mandatory) - Commercial Section 502.4.3 and C402.4.2 Building Thermal Envelope - Penetrations
- 2006 International Mechanical Code (IMC) Chapter 3 General Regulations Section 301.1 Scope - Sections 301.10, 301.11, 301.14, 301.15, 305.1, 305.2, 305.4
- 2006 Uniform Mechanical Code (UMC) Chapter 11 Refrigeration - Section 1101.0 Scope - Section 1101.1 - General Requirements Section 1106.0 - Section 1106.2, Section 1111.0 Erection of Refrigerant Piping - Sections 1111.1, 1111.2, 1111.4



Model Numbers for Specifying Individual Parts and/or Full Energy Code Compliant, PRO SYSTEM KITS

<input type="checkbox"/>	TGS-550	(Fits: 1/2" wall thickness pipe insulation with 5/8", 7/8" tube)
<input type="checkbox"/>	TGS-575	(Fits: 3/4" wall thickness pipe insulation with 5/8", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube)
<input type="checkbox"/>	TGS-510	(Fits: 1" wall thickness pipe insulation with 3/4", 7/8" tube or 3/4" wall thickness pipe insulation with 1-1/8" tube)
<input checked="" type="checkbox"/>	TSS-550	(Fits: 1/2" wall thickness pipe insulation with 5/8", 7/8" tube)
<input checked="" type="checkbox"/>	TSS-575	(Fits: 3/4" wall thickness pipe insulation with 5/8", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube)
<input type="checkbox"/>	TGS-65072E	E-FLEX PRO-SYSTEM KIT (Kit consists of TITAN GS30 Outlet & 72E E-FLEX-GUARD) (use TGS-550 dim.)
<input type="checkbox"/>	TGS-67572C	E-FLEX PRO-SYSTEM KIT (Kit consists of TITAN GS30 Outlet & 72C E-FLEX-GUARD) (use TGS-575 dim.)
<input type="checkbox"/>	TGS-61072X	E-FLEX PRO-SYSTEM KIT (Kit consists of TITAN GS30 Outlet & 72X E-FLEX-GUARD) (use TGS-510 dim.)
<input checked="" type="checkbox"/>	TSS-65072E	E-FLEX PRO-SYSTEM KIT (Kit consists of TITAN GS30 Outlet & 72E E-FLEX-GUARD) (use TSS-550 dim.)
<input checked="" type="checkbox"/>	TSS-67572C	E-FLEX PRO-SYSTEM KIT (Kit consists of TITAN GS30 Outlet & 72C E-FLEX-GUARD) (use TSS-575 dim.)

Additional models available. See PRO SYSTEM KIT Submittal Sheet or contact PLUMBEREX.



P.O. Box 1684  
Palm Springs, CA 92263  
1-800-475-8629 | (760) 343-7363 | FAX (760)343-7366

### Approved Product Testing Methods

- ASTM E283- Standard Test Method for Air Leakage
- ASTM E331- Standard Test Method for Water Penetration of Exterior Walls by Uniform Static Air Pressure

### Plastic Material Testing Standards

- Wall Mounted Outlet (Rigid Plastic)
- ASTM D1525C-09 - Temperature Deformation Test
  - ASTM D648-07 - Temperature Load Deformation Test
  - ASTM D412 - Tension Deformation Test
  - UL 94 HB - Flammability Test - f1 Rating
  - UL 746C - Outdoor Suitability
- Wall Outlet Sleeve (Elastomeric Plastic)
- ASTM D573-04 - Deterioration Test
  - ASTM D746-07 - Brittleness Temperature Impact Test



# E-FLEX PRO-SYSTEM KIT™

**For Full Compliance-Airtight Seal and Insulation Protection Together!**  
California Title 24, 2006,2009, 2012 IECC Energy Code, ASHRAE Compliance  
(Contractor's Kit Pack)

**TITAN GS30 Outlet**  
Outdoor HVAC Line-Set Gasket/Seal System



**E-FLEX GUARD**  
Energy Insulation Protectors



patent pending

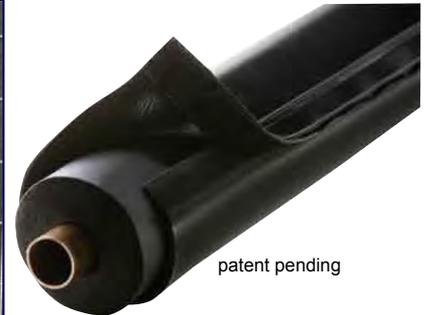


TITE-SLEEVE™  
POWER-GRIP ZONE™  
E-FLEX GUARD™

**Mechanical Connection**  
**No Adhesives or Tape!**

**E-FLEX PRO-SYSTEM KIT™**

**TITAN GS30 Outlet™** and **E-FLEX GUARD™ Insulation Protectors** Combined and engineered for full energy code compliance, enhanced performance and sustainable, energy efficiency.



patent pending

**No Adhesives or Tape!**



**Proudly Made  
In U.S.A.**

- ⌚ Meets Mandatory Federal, State & Local Energy Codes
- ⌚ Energy Saving/Aesthetics Features Offer Value Added Customer Satisfaction
- ⌚ Superior Durable Quality with UV/Resistance and High-Impact Strength
- ⌚ Design Supports High-Efficiency HVAC Systems with Isolation & Anti-Vibration Features
- ⌚ Flexible Elastomeric Outlet Sleeve Design offers Anti-Seismic, Anti-Wind, Anti-Rodent Features
- ⌚ MEETS UMC & IMC Mechanical Code Requirements
- ⌚ **Meets ASTM E283 Air Leakage Test and ASTM E331 Water Penetration Test**

- ⌚ Flexible, Quick to Install with Dual Bonded Velcro
- ⌚ 3' and 6' Lengths, Perfect for Line Sets
- ⌚ No Adhesives, Won't Unravel Like Tape
- ⌚ U/V, Fire Rated, Anti-Microbial/Fungal PVC
- ⌚ Removable/Reuseable-Great for Maintenance
- ⌚ Custom, Professionally Installed Appearance
- ⌚ Ensures Proper Closure of Slitted Insulation
- ⌚ U/V Cable Ties For Long-Term Installation

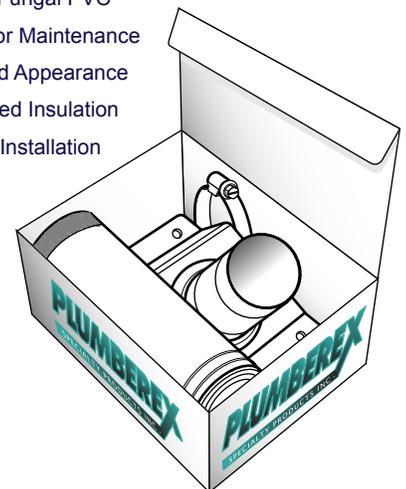
**E-FLEX PRO-SYSTEM KIT™** combines professional, superior aesthetics with durable and effective sealing. The "Engineered System" integrates products that are designed and comprised of "best in class" weather resistant materials that stand up to UV Exposure, Water, Moisture, Fungal-Microbial, Hurricane-like Conditions, and Extreme Hot and Cold Temperatures.

Superior materials combined with an effective, integrated gasket/seal, non-penetration wall design system prevent surface wall cracking and wall gaps. Using hard, roof flashings embedded and penetrating through building walls along with constant expansion and contraction of wall surfaces may compound the problem.

**E-FLEX PRO-SYSTEM KIT™** also offers "Pipe Isolation and Support". Proprietary materials isolate, support, and seal piping with an elastomeric, flexible sleeve and supported with a mechanical, clamp connection. Isolation, Support and Sealing are required by Building, Mechanical and Plumbing Codes. Lack of isolation, support and sealing of Refrigeration Pipes may lead to "Pipe Vibration" cracking of wall surfaces, wall gaps, wall degradation, air leakage, noise, rodent problems, corrosion problems and possible HVAC system inefficiencies.

**E-FLEX PRO-SYSTEM KIT™** includes "Pipe Insulation Protection" as required by the new Energy Codes. Weather resistant materials and a flexible PVC design ensure a complete, secure, protective enclosure. The cover includes dual-bonded enclosure fasteners with additional optional extra-security fasteners.

So if you are looking for Total Combined, Building, Energy and Mechanical Code Compliance, and raised Customer Satisfaction and Customer Value-Demand and Specify **E-FLEX PRO-SYSTEM KIT™!**



**PLUMBEREX**  
SPECIALTY PRODUCTS INC.

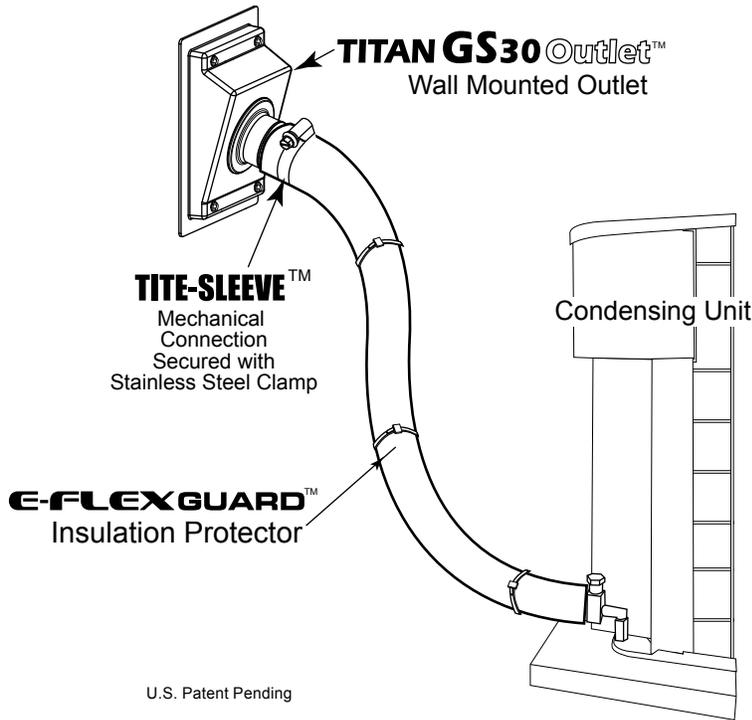
Engineering Smart Solutions

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www.plumberex.com

PROJECT	
DWG #	
ITEM #	

# E-FLEX PRO-SYSTEM KIT™

Integrated system combining **TITAN GS30 Outlet™** and **E-FLEX GUARD™** Insulation Protectors engineered for full energy code compliance and enhanced, sustainable, energy efficiency.



## TITAN GS30 Outlet™ Wall Mounted Outlet

**TITE-FORCE™**  
Anti-Corrosion, Lubricated, All-Material, Tap Screws

**TITE-FORCE™**  
Neoprene Washers (pre-mounted)

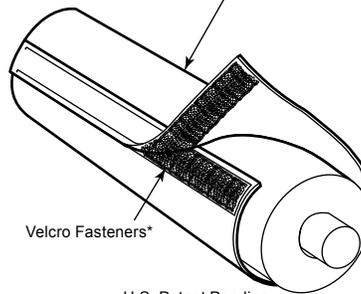
**TITE-SLEEVE™**  
**POWER-GRIP ZONE™**  
Flexible Inlet Sleeve

Stainless Steel Adjustable Clamp

U.S. Patent Pending

**TITE-FORCE™**  
All-Surface Light-Density Wall Gasket (Pre-Loaded)

## E-FLEX GUARD™ Insulation Protector



U.S. Patent Pending

Two Lengths: 36" and 72".

**E Series** fits: 5/8", 7/8" tube with 1/2" wall insulation.

**C Series** fits: 1-1/8" tube with 1/2" wall insulation and 5/8", 7/8" tube with 3/4" wall insulation.

**X Series** fits: 3/4", 7/8" tube with 1" wall insulation and 1-1/8" tube with 3/4" wall insulation

\*Velcro is a registered trademark of Velcro USA Inc.

### SUGGESTED SPECIFICATION

To comply with the 2006, 2009, 2012 Mandatory Energy Codes, Building Codes and Mechanical Codes for Wall Pipe Air Leakage, Pipe Sealing and Pipe Protection, including Piping Installation Code Requirements. For a superior, professional aesthetic installation, including energy code preferred, Gasket/Seals Method, allowing expansion and contraction, including a pipe and/or pipe insulation penetration, air-leakage sealing, weather protection and isolation. The combined arranged system (E-FLEX PRO-SYSTEM KIT™) shall consist of a Wall Outlet that features a Compression, Wall Fastening Mounting Method, with an Integrated Over-Molded, Flexible, Elastomeric Sleeve with a Pipe Insulation Protection Flexible Cover Arrangement that includes a Mechanical Clamp Connection (TITAN GS30 Outlet™) and tested under ASTM E283 (exterior wall air leakage test) and ASTM E 331 (wall moisture test) with a "pass" result. The attachment also includes and attaches with a Flexible PVC Plastic Weather Protective Cover (E-FLEX GUARD™) that is tested under ASTM E 96 (vapor/moisture permeability test) with a "1 perm or less" (vapor barrier/retarder) result. The pipe insulation protective cover shall feature a dual-bonded, self-fastening method with full-enclosure capabilities, and to protect against sun, wind, snow, ice, maintenance and physical damage and to ensure long-term sustainable, optimal HVAC System Performance. Tapes or Adhesives Tapes Shall Not Be Permitted for Either Sealing and or

**Install: E-FLEX PRO-SYSTEM KIT™**  
(Energy Efficient Products)

**Manufacturer:**  
**PLUMBEREX Specialty Products, Inc.**

### PRO-SYSTEM KIT NUMBERS

#### Model Numbers

**TSS-65072E**  
(Outlet/Protector for Siding Surfaces)

**TGS-65072E**  
(Outlet and Protector for Plaster & Masonry Surfaces)

#### TITAN Outlet #550

Fits: 5/8", 7/8" tubing with 1/2" wall thickness insulation

#### E-FLEX GUARD E Series

Fits: 5/8", 7/8" tubing with 1/2" wall thickness insulation

#### Model Numbers

**TSS-67572C**  
(Outlet/Protector for Siding Surfaces)

**TGS-67572C**  
(Outlet and Protector for Plaster & Masonry Surfaces)

#### TITAN Outlet #575

Fits: 1-1/8" tube with 1/2" wall insulation and 5/8", 7/8" tube with 3/4" wall insulation

#### E-FLEX GUARD C Series

Fits: 1-1/8" tube with 1/2" wall insulation and 5/8", 7/8" tube with 3/4" wall insulation

#### Model Numbers

**TGS-61072X**  
(Outlet and Protector for Plaster & Masonry Surfaces)

#### TITAN Outlet #510

Fits: 3/4", 7/8" tubing with pipe/tube insulation with 1" wall thickness and 1-1/8" tubing with pipe/tube insulation with 3/4" wall thickness

#### E-FLEX GUARD X Series

Fits: 3/4", 7/8" tubing with pipe/tube insulation with 1" wall thickness and 1-1/8" tubing with pipe/tube insulation with 3/4" wall thickness

### E-FLEX GUARD™ color options

Black -B	White -W
	

Last letter of model number designates color choice

## **SUGGESTED SPECIFICATIONS**

Outdoor AC Line Set Insulation Protection  
Wall Pipe Penetration Air Leakage Sealing  
January 16, 2012

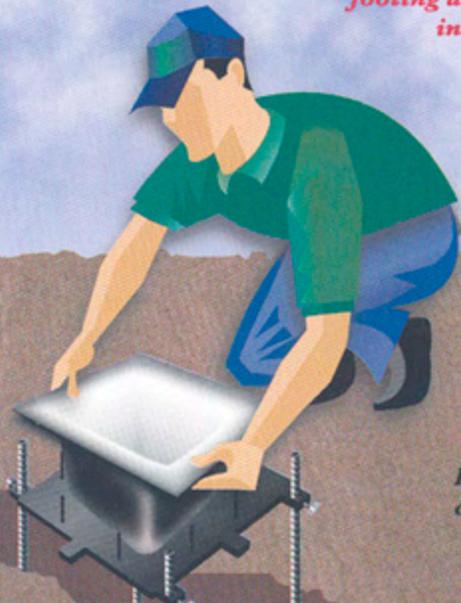
To comply with the 2006, 2009, 2012 Mandatory Energy Codes, Building Codes and Mechanical Codes for Wall Pipe Air Leakage, Pipe Sealing and Pipe Protection, including Piping Installation Code Requirements. For a superior, professional aesthetic installation, including energy code preferred, Gasket/Seals Method, allowing expansion and contraction, including a pipe and/or pipe insulation penetration, air-leakage sealing, weather protection and isolation. The combined arranged system (**E-FLEX PRO-SYSTEM KIT™**) shall consist of a Wall Outlet that features a Compression, Wall Fastening Mounting Method, with an Integrated Over-Molded, Flexible, Elastomeric Sleeve with a Pipe Insulation Protection Flexible Cover Arrangement that includes a Mechanical Clamp Connection (**TITAN GS30 Outlet™**) and tested under ASTM E 331 (wall moisture test) with a "pass" result. The attachment also includes and attaches with a Flexible PVC Plastic Weather Protective Cover (**E-FLEX GUARD™**) that is tested under ASTM E 96 (vapor/moisture permeability test) with a "1 perm or less" (vapor barrier) result. The pipe insulation protective cover shall feature a dual-bonded, self-fastening method with full-enclosure capabilities, and to protect against sun, wind, snow, ice, maintenance and physical damage and to ensure long-term sustainable, optimal HVAC System Performance. Tapes or Adhesives Tapes Shall Not Be Permitted for Either Sealing and or Protection.

Install: **E-FLEX PRO-SYSTEM KIT™** (Energy Efficient Products)

Manufacturer: **PLUMBEREX Specialty Products, Inc.**

# Floor Sink CARRIER™

*for fast, professional-looking,  
footing area fixture  
installations*

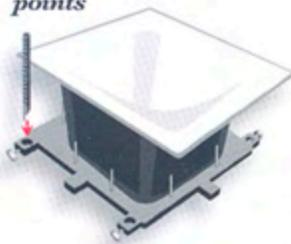


*Floor sink  
carrier application*

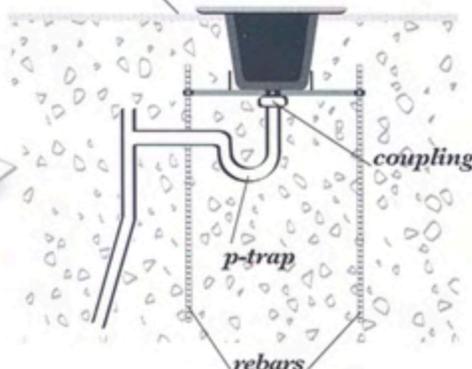
patent # 5,628,484

*Built-in  
screws for  
easy adjustment*

*4 rebar  
insertion  
points*

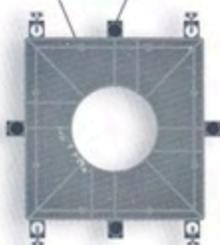


*ground  
elevation*



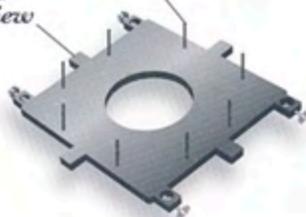
*reverse  
view*

*4 blind  
points*



*8 safety dowels  
hold sink in  
place*

*top  
view*



## THE FLOOR SINK CARRIER™ BY PLUMBEREX

acts as a caddy for floor sink installations. As such, it eliminates the hassle of taping metal rebars during groundwork to estimate where sink placements meet floor elevations. Engineered with the plumber in mind, the Floor Sink Carrier™ was designed by plumbing professionals who know the industry.

### BENEFITS

- easy to meet floor elevations
- professional-looking installations
- installs easily in **minutes**
- saves labor/cuts installation time by 80%
- safety rebars secure floor sink permanently in place
- quick screw-ons eliminate need for costly and clumsy tape or wire configurations
- fits all floor sinks with 2" to 4" outlets
- complies with metal-to-metal building/soil codes
- hassle-free elevation adjustments
- easy on plumber's back by eliminating prolonged weight transports of heavy sinks
- 3/8" to 1/2" rebars may be used

Available in ABS plastic, the Floor Sink Carrier™ is perfect for laying fixtures in footing areas as shown left.

### SPECIFICATIONS

For professional, secure, hassle-free floor sink installations, furnish and install **FLOOR SINK CARRIER™** manufactured by **PLUMBEREX SPECIALTY PRODUCTS, INC.**

**PLUMBEREX**  
SPECIALTY PRODUCTS, INC.

Engineering Smart Solutions  
P.O. Box 1684 • Palm Springs, CA 92263

1-800-475-8629 • (760) 343-7363 • FAX (760) 343-7366

REPRESENTATIVE FOR YOUR AREA



# Specialty Item

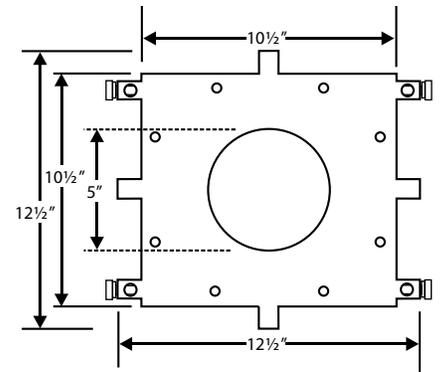
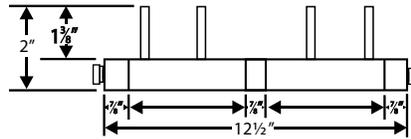
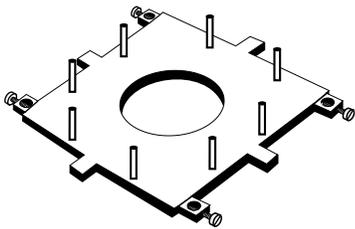
# PLUMBEREX

SPECIALTY PRODUCTS INC.  
Engineering Smart Solutions

## SPECIFICATION SHEET

PROJECT	
DWG #	
ITEM #	

## FLOOR SINK CARRIER™



### FLOOR SINK INSTALLATION SPECIFICATION

All floor sinks to be installed before concrete flooring is poured, to guarantee a one time, solid monolithic pour around every sink. No patchwork is to be allowed after flooring has been poured. All floor sink fixtures, traps and joints are to be pressure tested for leaks before concealing, as per all plumbing codes. No metal to metal contact shall be accepted as support of floor sink installation. For professional monolithic floors and secure, non metal to metal contact floor fixture installations, install Model #700 Floor Sink Carrier™ manufactured by Plumberex Specialty Products, Inc.

COMMENTS:

PART #	COLOR	DIMENSIONS
700	ABS Plastic	Floor Sink Carrier will fit 2", 3" & 4" Sink Connections



MADE IN USA

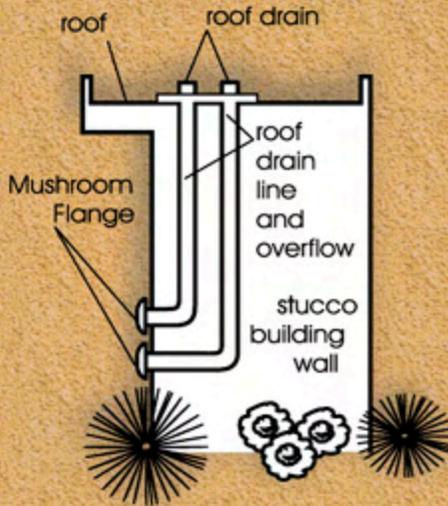
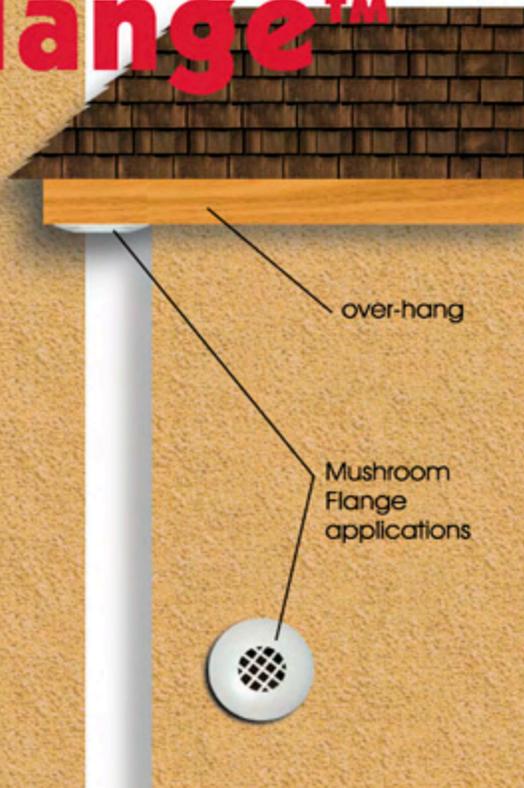
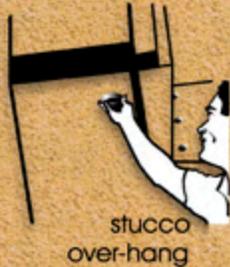
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SPECIALTY PRODUCTS INC.

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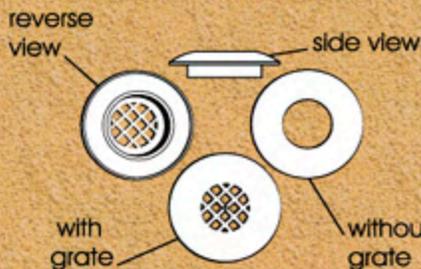
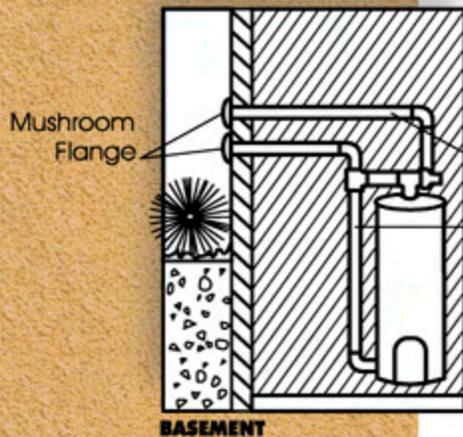
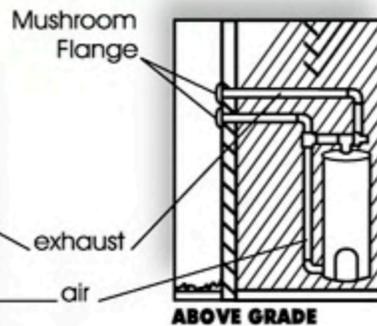
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GIVES PIPES A  
*recessed* LOOK

# Mushroom Flange™



patent #5,427,417



## THE MUSHROOM FLANGE™ BY PLUMBEREX

finishes off pipes and gives a stylish,  
professional, recessed look to:

- roof drain lines/down spouts
- direct vent water heater lines
- exhaust/vent lines
- overflow lines
- condensation lines
- retaining wall over-flow lines
- weephole lines for perimeter walls

Available in both ABS and PVC, the  
Mushroom Flange™ is also perfect for  
finishing off the new side-wall vent  
heaters, which use standard 3" PVC pipes  
for venting and air intake.

## THE OPTIONAL GRATE PREVENTS

- rodents from nesting or entering building
- leaf build-up
- bird nesting
- foreign objects from being stuffed into pipe

## INSTALLS EASILY IN MINUTES

Simply cut the pipe 1/4" outside of the wall  
and glue the flange to the pipe. No need  
to cut the pipe inside of the wall.

## SPECIFICATIONS

For a finished recessed look, furnish  
and install **MUSHROOM FLANGE™** with  
part # \_\_\_\_\_ manufactured by  
**PLUMBEREX SPECIALTY PRODUCTS, INC.**

**PLUMBEREX**  
SPECIALTY PRODUCTS INC.

Engineering Smart Solutions

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changes or improvements at any time without notice.

part#	size
734	3/4"
720	2"
730	3"
740	4"

(Specify "G" for units with grate)

# Specialty Item

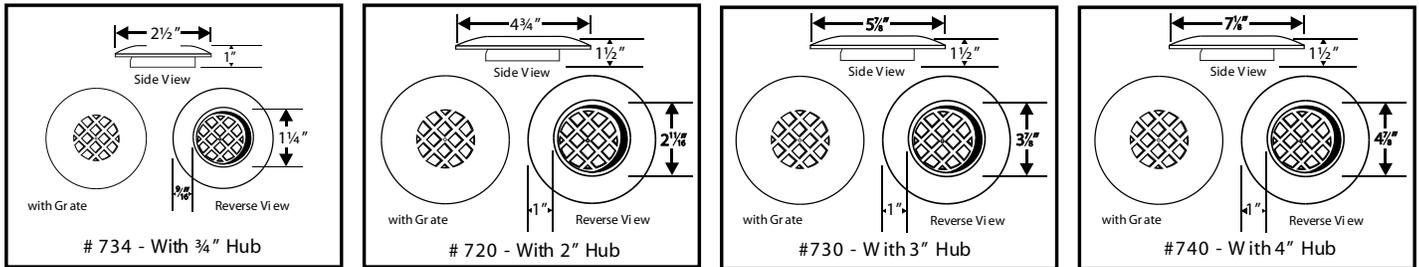
# PLUMBEREX

SPECIALTY PRODUCTS INC.  
Engineering Smart Solutions

## SPECIFICATION SHEET

PROJECT	
DWG #	
ITEM #	

## MUSHROOM FLANGE™ with Grate



### SUGGESTED SPECIFICATION

For a finished recessed look, rodent proofing and blockage free piping. Furnish and install Mushroom Flange # \_\_\_\_\_ manufactured by Plumberex Specialty Products, Inc.

COMMENTS:

PART #	COLOR	DIMENSIONS	
734	White (A.B.S.)	3/4" (Hub)	
720	White (A.B.S.)	2" (Hub)	
730	White (A.B.S.)	3" (Hub)	
740	White (A.B.S.)	4" (Hub)	



MADE IN USA

**PLUMBEREX**  
SPECIALTY PRODUCTS INC.

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