PROTECT YOUR STUB-OUT
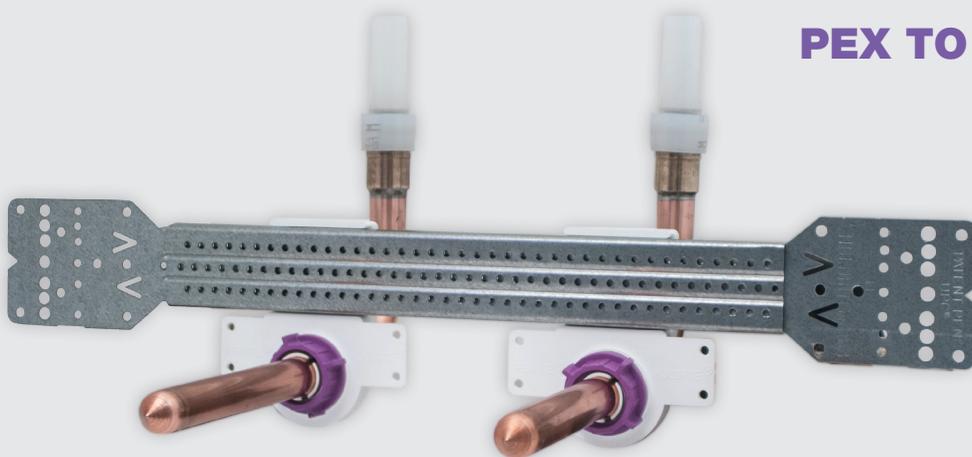## COMPATIBLE WITH PEX, COPPER AND CPVC

PEX STUB-OUT

PICK YOUR STUB-OUT METHOD

PEX TO COPPER STUB-OUT

HOLDRITE® the Expert in PEX Stub-Out Supports

For over fifteen years, HOLDRITE® has been the expert in pioneering and producing innovative PEX stub-out support products for plumbing contractors, mechanical engineers, and PEX manufacturers in the North American potable water system market.

As the industry leader in stub-out pipe supports, our engineering design team has seen our PEXRITE® technologies successfully installed by contractors. Their unique requirements led us to a more thorough understanding of PEX tubing performance, differences in regional installation methodologies, extreme climate and temperature ranges, and the challenges of various plumbing applications.

At the forefront of the evolution of PEX in North America, HOLDRITE can listen, learn, and innovate within the plumbing ecosystem. With this applied knowledge we continue to expand our reputation for "Converting Makeshift Methods into Engineered Solutions℠."
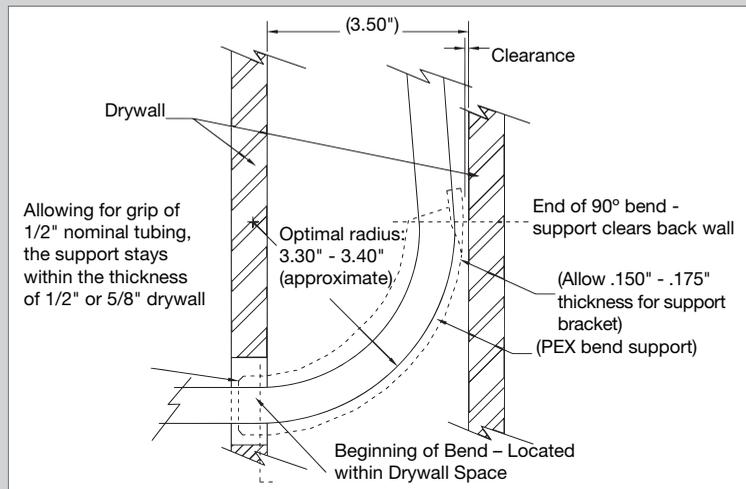
Observation and Discussion: Ideal PEX Stub-Out Solution

Below is a commonly observed schematic of a PEX stub-out within a confined wall that demonstrates the risk of extreme bending of PEX, the challenges of fitting PEX within the wall, and the ideal solution for a PEX stub-out support.

Figure 1: Schematic of Commonly Observed In-Wall PEX Stub-Out with Ideal Bend Support

Ideal Solution - Broadest PEX Bend that:

a) Fits within wall, including bend support

b) Remains flush with drywall surface

c) Retains nominal clearance at rear of installation

d) Allows nominal clearance length for gripping tubing at near right angle exit from wall

(3.50")
Clearance
Drywall
Allowing for grip of 1/2" nominal tubing, the support stays within the thickness of 1/2" or 5/8" drywall
Optimal radius: 3.30" - 3.40" (approximate)
End of 90° bend - support clears back wall
(Allow .150" - .175" thickness for support bracket)
(PEX bend support)
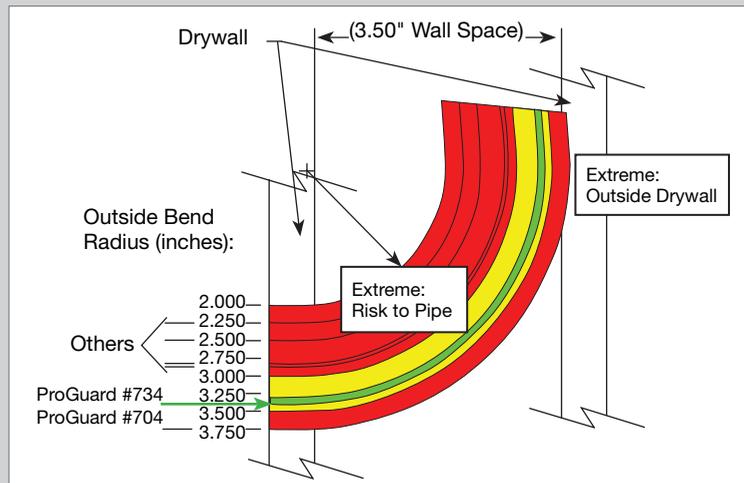Beginning of Bend – Located within Drywall Space

Conclusion: HOLDRITE® ProGuard™ #734- Optimally Designed to Protect the PEX Stub-Out

The HOLDRITE® ProGuard™ #734 in-wall PEX stub-out solution provides a rigid installation while maintaining the optimal outside bend radius range recommendation of 3.3" to 3.4". It also locks the stub-out in the Z-axis to prevent unwanted front to back slippage, making this patent pending design the ideal solution.

Figure 2: In Wall PEX Stub-Out Radius Analysis

Summary: Bend radius that is too small risks:

a) Kinking or flattening of tubing at installation, or due to movement of tubing in wall

b) Reduced flow rate

c) Increased turbulence noise

d) Loss of PEX tubing warranty

e) Weakening or damage to tubing
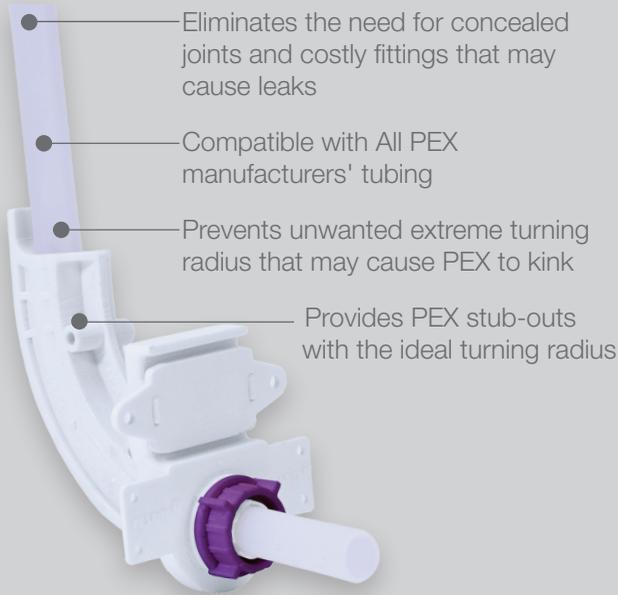
f) Need for repair, to replace kinked tubing

Drywall
(3.50" Wall Space)
Outside Bend Radius (inches):
Extreme: Outside Drywall
Extreme: Risk to Pipe
Others
2.000
2.250
2.500
2.750
3.000
ProGuard #734 — 3.250
ProGuard #704 — 3.500
3.750

PEX TUBING
ProGuard™
#734
½" CTS (PEX only)

- Eliminates the need for concealed joints and costly fittings that may cause leaks
- Compatible with All PEX manufacturers' tubing
- Prevents unwanted extreme turning radius that may cause PEX to kink
- Provides PEX stub-outs with the ideal turning radius

COPPER OR RIGID TUBING
ProGuard™
#731 or #732
½" CTS or ¾" CTS

- Eliminate the need for soldering
- Compatible with PEX, Copper or CPVC tubing ½" or ¾" CTS

- Secures tubing from unwanted forward or backward movement
- Protects PEX stub-outs and ensures they are inside the wall envelope
- Provides 360º turning radius

- Reduces noise and vibration
- Fire Rated: Meets UL 94 V-0
- Fast and easy to install
- Tightens by hand — no tools or hardware required

ProGuard™ Integrates Directly with #SB3 or #SB4 HOLDRITE® Stout Bracket® Only
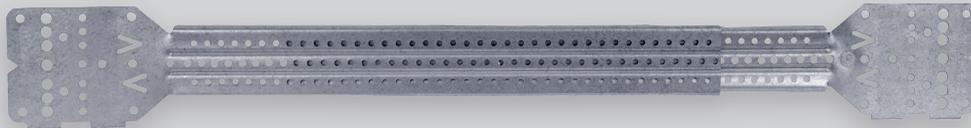
- Telescopes between studs for stout support (10 ¼" to 24")
- Ideal system for lavatory/sink, toilet, shower, water heater and vertical support applications
- Great versatility - Install bracket flush against the stud or inset bracket within the stud bay
- Supports both 2-eared and 3-eared 90s – Ideal for shower heads
- Compatible with many HOLDRITE® and other manufacturers' clamps
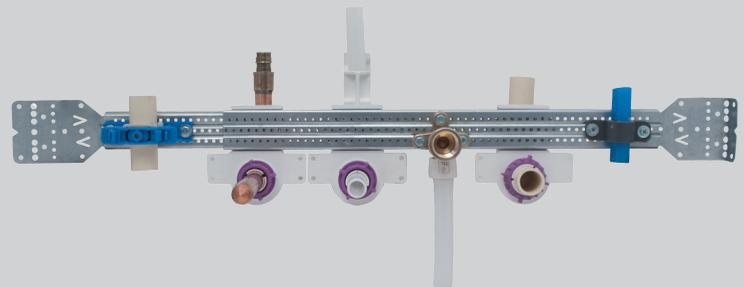
HOLDRITE® ProGuard™ integrates with the HOLDRITE® #SB3/#SB4 platform to provide an engineered solution for various construction projects (single family, multi-family, hotel, other). Regardless of what type of material (PEX, copper, or CPVC) selected by the contractor, or application (sink, toilet, shower, vertical mid-span, other) that requires support and alignment, HOLDRITE® provides a professional system that is versatile, fast & easy to install, protects the stub-outs required turning radius, and secures the tubing from unwanted forward or backward movement.

SINK

Copper to
PEX ½" Solution

ProGuard™
#SB3-7312

OR

SINK

PEX ½" Solution

ProGuard™
#SB3-7342

KITCHEN
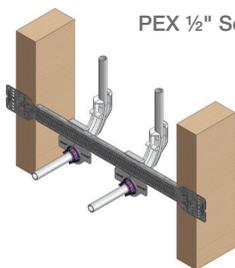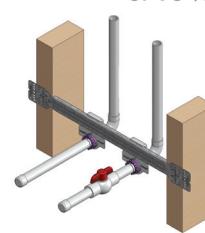
WATER HEATER

WATER HEATER

Copper ¾" Solution
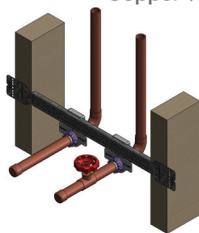
ProGuard™
#SB3-7322

OR

WATER HEATER
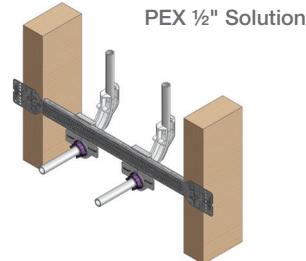
CPVC ¾" Solution

ProGuard™
#SB3-7322

BATHROOM

LAVATORY

Copper to
PEX ½" Solution
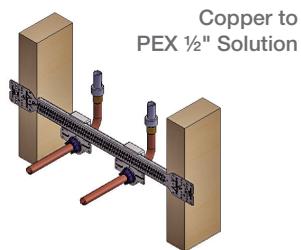
ProGuard™
#SB3-7312

OR

LAVATORY

PEX ½" Solution

ProGuard™
#SB3-7342

TOILET

Copper to
PEX ½" Solution
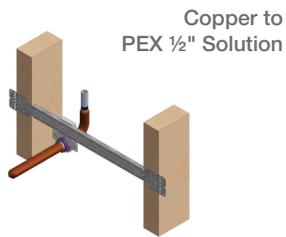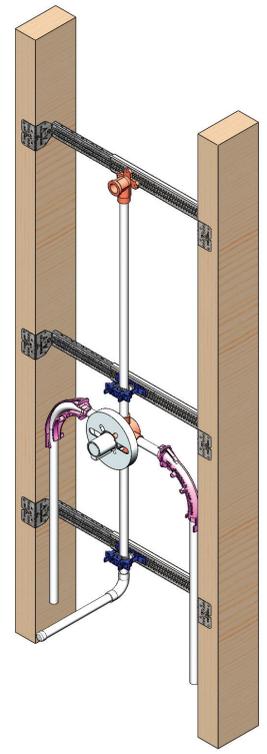
ProGuard™
#SB3-7311

OR

TOILET

PEX ½" Solution
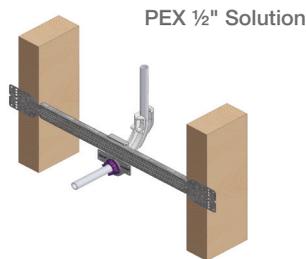
ProGuard™
#SB3-7341

TUB/SHOWER SOLUTION

HOLDRITE® #SB3
HOLDRITE® #255
PEXRITE® #704

ProGuard™ #734 Installation Instructions

1 Secure bracket to studs using two screws/nails at each end

2 Secure #734 clamps at desired positions with rear nut

3 Slide ½" tubing through clamp

4 Bend PEX into clamp. Then tighten front nut

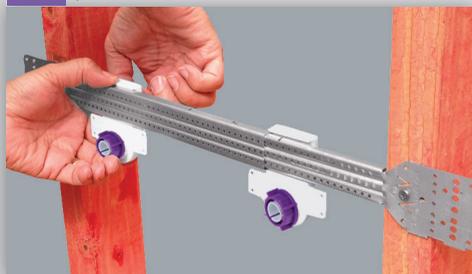**5** Repeat for second clamp and installation is complete
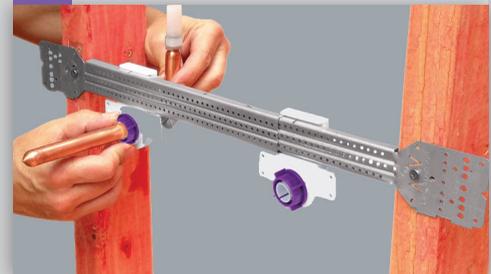

ProGuard™ #731 Installation Instructions

1 Secure bracket to studs, using two screws/nails at each end
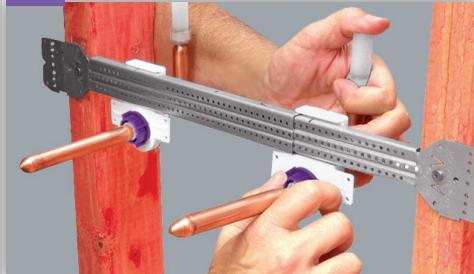

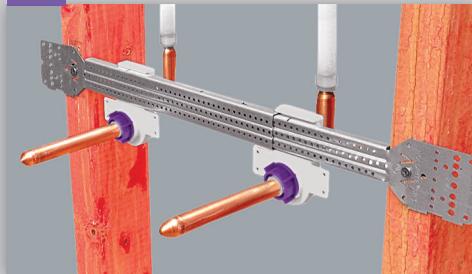**2** Secure #731 clamps at desired positions with rear nut
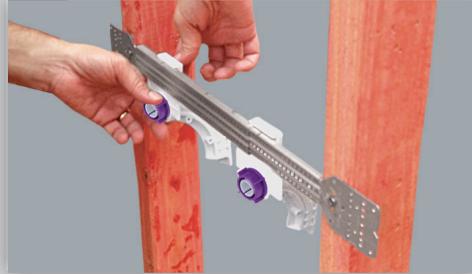
3 Slide 1/2" tubing through clamp

4 Secure tubing by tightening front nut

5 Repeat for second clamp and installation is complete

HOLDRITE® STOUT-BRACKET™

#SB3

#SB4

- Galvanized telescoping bracket
- Ideal for shower, sink/lavatory, toilet, water heater, vertical mid-span, and more
- Supports both 2-eared and 3-eared 90s
- Telescoping design supports PEX, copper, and CPVC, and other items
- Integrates with ProGuard™ #731, #732, and #734

Model #	Bracket Size	For Pipe Size(s)	Box Qty
SB3	10-1/4" to 17-1/2"	various	50
SB4	14-1/2" to 24"	various	50

HOLDRITE® ProGuard™

#731

#732

- Stub-out clamps that integrate with model #SB3 and #SB4
- Compatible with PEX, CPVC, or Copper Tubing
- Flame Rated: UL 94 V-0
    - #731 - Stub-out clamp ideal for ½" CTS PEX-to-copper transition, copper, CPVC at lavatory/sink or toilet
    - #732 - Stub-out clamp ideal for ¾" CTS PEX-to-copper transition, copper or CPVC tubing at water heater

Model #	Description	Box Qty
731	stub-out clamp support ½" CTS	50
732	stub-out clamp support ¾" CTS	50

HOLDRITE® ProGuard™ for Toilets and Sinks/Lavatories

#SB3-7311 or #SB4-7311

#SB3-7312 or #SB4-7312

- **Pre-assembled kits** for toilets and sinks/lavatories (½" CTS)
- Compatible with PEX, copper, or CPVC
- Ideal for PEX-to-copper transition
- Flame Rated: UL 94 V-0

Model #	Description	Box Qty
SB3-7311	(1) SB3 Stout Bracket®, (1) 731 stub-out clamp support	25
SB3-7312	(1) SB3 Stout Bracket®, (2) 731 stub-out clamp supports	25
SB4-7311	(1) SB4 Stout Bracket®, (1) 731 stub-out clamp support	25
SB4-7312	(1) SB4 Stout Bracket®, (2) 731 stub-out clamp supports	25

HOLDRITE® ProGuard™ for Water Heaters

#SB3-7322

#SB4-7322

- **Pre-assembled kits** for water heaters (¾" CTS)
- Compatible with PEX, copper, or CPVC
- Ideal for PEX-to-Copper transition
- Flame Rated: UL 94 V-0

Model #	Description	Box Qty
SB3-7322	(1) SB3 Stout Bracket®, (2) 732 stub-out clamp supports	25
SB4-7322	(1) SB4 Stout Bracket®, (2) 732 stub-out clamp supports	25

HOLDRITE® ProGuard™ for PEX ONLY

#734

#SB3-7341 or #SB4-7341

#SB3-7342 or #SB4-7342

- **Pre-assembled PEX ONLY stub-out and stub-out kits** for toilets and sinks/lavatories
- Provides PEX stub-outs with the ideal turning radius
- Prevents unwanted extreme turning radius that may cause PEX to kink
- Eliminates in-wall fittings and concealed joints
- Flame Rated: UL 94 V-0
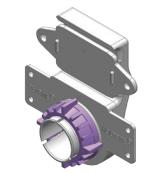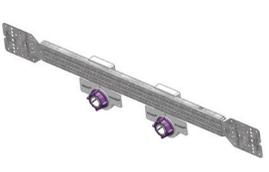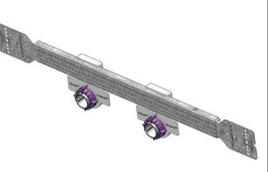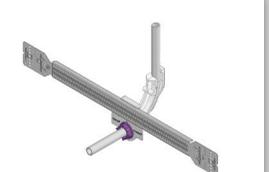- Compatible with all manufacturers' ½" CTS PEX tubing

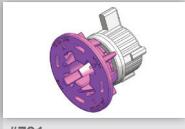| Model #	Description	Box Qty
734	turn-out support for ½" CTS PEX tubing only	50
SB3-7341	(1) SB3 Stout Bracket®, (1) 734 stub-out clamp support	25
SB3-7342	(1) SB3 Stout Bracket®, (2) 734 stub-out clamp supports	25
SB4-7341	(1) SB4 Stout Bracket®, (1) 734 stub-out clamp support	25
SB4-7342	(1) SB4 Stout Bracket®, (2) 734 stub-out clamp supports	25

HOLDRITE®

CONVERTING MAKESHIFT METHODS INTO ENGINEERED SOLUTIONS℠
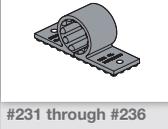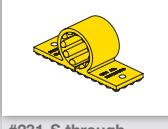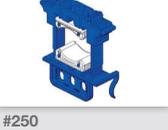
ProGuard™
PROTECT YOUR STUB-OUT

PROGUARD™ SUPPORTS

HOLDRITE® STOUT BRACKET®	PROGUARD™	PROGUARD™	PROGUARD™
#SB3 or #SB4	#731	#732	#734

HOLDRITE® STOUT BRACKET® WITH PROGUARD™	HOLDRITE® STOUT BRACKET® WITH PROGUARD™	HOLDRITE® STOUT BRACKET® WITH PROGUARD™	HOLDRITE® STOUT BRACKET® WITH PROGUARD™	HOLDRITE® STOUT BRACKET® WITH PROGUARD™
#SB3-7311 or #SB4-7311	#SB3-7312 or #SB4-7312	#SB3-7322 or #SB4-7322	#SB3-7341 or #SB4-7341	#SB3-7342 or #SB4-7342

PEXRITE® PEX SUPPORTS

HOLDRITE® LOCK-N-LOAD™	PEXRITE®	PEXRITE®	PEXRITE®
#701	#704	#710	#711

PEXRITE®	PEXRITE POP-UP™	PEXRITE POP-UP™	PEXRITE POP-UP™
#712	#708	#708-E	#707

PEXRITE POP-UP™	PEXRITE®	PEXRITE POP-UP™	HOLDRITE®
#707-E	#705	#706	#721

HOLDRITE®	HOLDRITE®	HOLDRITE®	HOLDRITE®
#110-R	#709	#709-L	#709-EXT

HOLDRITE®	HOLDRITE® STOUT BRACKET®	HOLDRITE® STOUT BRACKET®
#103-18 or #103-26	#SB1S or #SB2S	#SB3 or #SB4

HOLDRITE® INSERTS AND CLAMPS

HOLDRITE® FLAME FIGHTER™ SUSPENSION CLAMPS	HOLDRITE® SUSPENSION CLAMPS	HOLDRITE® 2-HOLE STANDARD CLAMPS	HOLDRITE® FLAME FIGHTER™ 2-HOLE STANDARD CLAMPS
#221-S through #222-S	#221 through #226	#231 through #236	#231-S through #232-S

HOLDRITE® FLAME FIGHTER™ ISOLATOR INSERTS	HOLDRITE® COLD LINE ISOLATOR INSERTS	HOLDRITE® HOT LINE ISOLATOR INSERTS	HOLDRITE® ISOLATOR INSERTS
#424-S through #426-S	#424-RB through #426-RB	#424-RR through #426-RR	#424 through #426
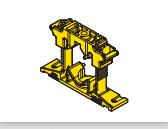
HOLDRITE® ISOLATOR INSERTS	HOLDRITE® ISOLATOR INSERTS	HOLDRITE® FLAME FIGHTER™ VARIABLE SIZE CLAMPS	HOLDRITE® FLAME FIGHTER™ VARIABLE SIZE CLAMPS
#104 through #106	#404-R through #406-R	#285-S	#255-S

HOLDRITE® VARIABLE SIZE CLAMPS	HOLDRITE® VARIABLE SIZE CLAMPS	HOLDRITE® VARIABLE SIZE CLAMPS	HOLDRITE® VARIABLE SIZE CLAMPS
#250	#255	#280	#285

Visit www.holdrite.com to view ProGuard™ installation videos, technical information, and list pricing or call (800) 321-0316.