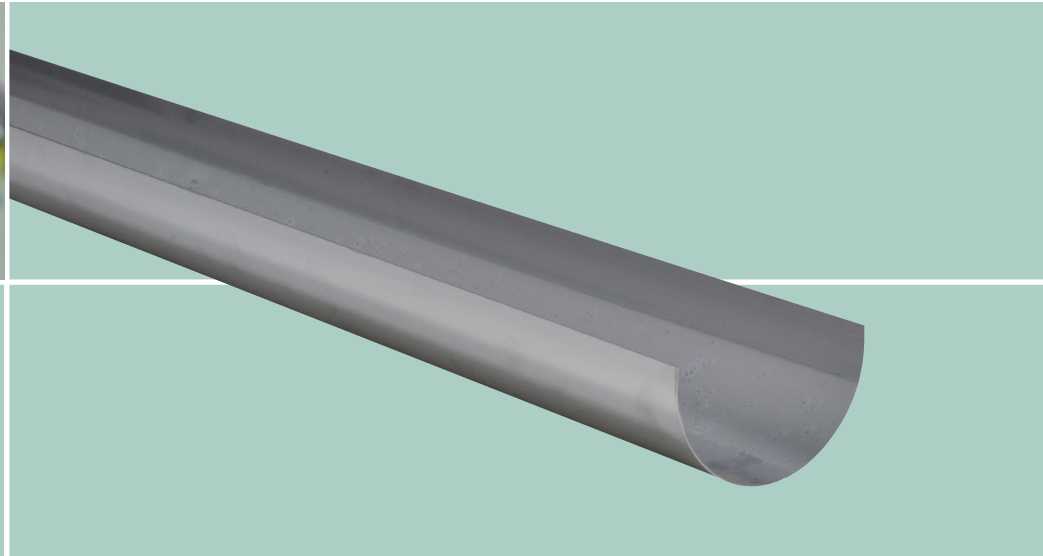
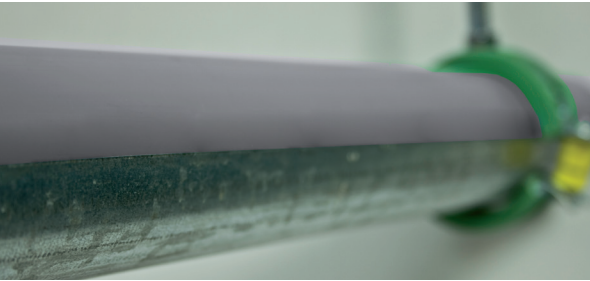


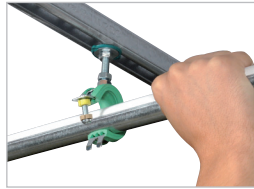
Pipe Reinforcement for Plastic Pipe – PEX and PP



Snap plastic pipe or tubing into Pipe Reinforcement



Pre-mount Bifix® 5000 G2 clamps on strut or rail



Place reinforced pipe into clamp



Patented quick-closing feature allows for one-handed installation



Tighten clamp to complete installation

- Walraven clamps and Pipe Reinforcement are Plenum rated – see plastic pipe manufacturers instructions for pipe's Plenum rating
- Extends distance between supports – allows PEX pipe to follow the same support requirements as copper up to 1-1/2"
- Less pipe clamps required
- Provides continuous support of plastic pipe
- Keeps plastic pipe straight
- For new installations – use PEX pipe, but follow the same support requirements of copper up to 1-1/2"
- For re-piping installations – replace copper with PEX pipe (up to 1-1/2") and use existing clamps, no additional support needed
- Self-gripping – snaps pipe into place
- Can insulate around reinforcement and pipe

Pipe Reinforcement



Pipe Reinforcement in use with Bifix® 5000 G2 Clamps



Insulate over both plastic pipe and pipe reinforcement



PEX Pipe Reinforcement

Item Number	D/CTS (inches)	D/IPS (inches)	L (feet)	L (meters)	Recommended hanger spacing*	Items per bundle
PSU050-9	1/2	-	9	2.75	72"	5
PSU075-9	3/4	1/2	9	2.75	72"	5
PSU100-9	1	3/4	9	2.75	96"	5
PSU125-9	1-1/4	1	9	2.75	96"	5
PSU150-9	1-1/2	1-1/4	9	2.75	96"	5
PSU200-9	2	-	9	2.75	96"	5

*At room temperature. For higher temperatures, check PEX pipe supplier recommendations. Larger sizes available. Please contact your local sales office.

PEX Pipe Spacing Recommendations Using Walraven Pipe Reinforcement

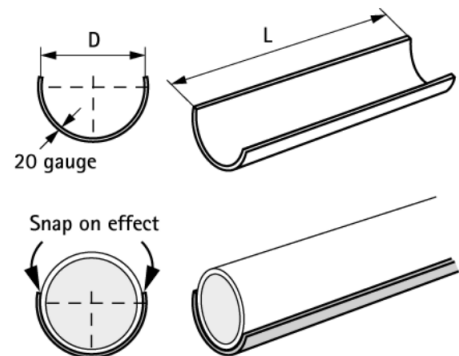
Nominal pipe size	Spacing for bare PEX pipe			Spacing with Walraven pipe reinforcement
	International Code: IPC and IMC	Uniform Codes: UPC and UMC	Canadian Code: NPCC	All Codes
1/2"	32" (0.8m)	32" (0.8m)	32" (0.8m)	72" (1.8m)
3/4"	32" (0.8m)	32" (0.8m)	32" (0.8m)	72" (1.8m)
1"	32" (0.8m)	32" (0.8m)	32" (0.8m)	96" (2.4m)
1-1/4"	32" (0.8m)	48" (1.2m)	32" (0.8m)	96" (2.4m)
1-1/2"	32" (0.8m)	48" (1.2m)	32" (0.8m)	96" (2.4m)
2"	32" (0.8m)	48" (1.2m)	32" (0.8m)	96" (2.4m)

- Self-gripping and continuous support for plastic pipes to prevent unsatisfactory curvature, bending or snaking
- Allows for longer distance between supports
- Reinforcement fits inside insulation
- Lightweight and economical, also 9 foot lengths are easy to handle which speeds installation of plastic pipes
- Insulation can be installed over both the plastic pipe and pipe reinforcement
- Cut to size with basic hand tools
- Material: Pre-galvanized steel – 20 gauge

PP Pipe Reinforcement

Item Number	D (mm)	L (feet)	L (meters)	Recommended hanger spacing*	Items per bundle
PRM016	16	9.85	3	60"	5
PRM020	20	9.85	3	72"	5
PRM025	25	9.85	3	72"	5
PRM032	32	9.85	3	96"	5
PRM040	40	9.85	3	96"	5
PRM050	50	9.85	3	96"	5
PRM063	63	9.85	3	96"	5
PRM075	75	9.85	3	96"	5
PRM090	90	9.85	3	96"	5
PRM110	110	9.85	3	96"	5
PRM125	125	9.85	3	96"	5
PRM160	160	9.85	3	96"	5
PRM200	200	9.85	3	96"	5
PRM250	250	9.85	3	120"	5
PRM315	315	9.85	3	120"	5

*At room temperature. For higher temperatures, check PP pipe supplier recommendations. Larger sizes available. Please contact your local sales office.



Pipe Reinforcement can be used with the following Walraven products



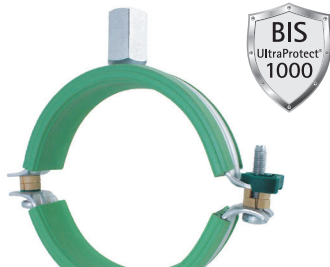
Cable Ties – stainless steel

- Secures Pipe Reinforcement to plastic pipe
- Self-locking for a secure mount
- High resistance to moisture, corrosion and temperature
- Made of black PVC coated stainless steel

Item #	Fits PEX size (inches)	Fits pipe size (mm)	Items per pkg.
09970150	1/2 to 1	16-25	15
09970260	1-1/4 to 2	32-63	15
09970520	2-1/2 to 3-1/2	75-125	15



3/8" nut



3/8"-1/2" dual nut

Bifix® 5000 G2

- Two-screw clamp
- Quick-locking system - interlocking feature for a more secure installation
- With removable space washers, making the clamp suitable for either sliding or anchoring
- Surface protected by the BIS UltraProtect® 1000 system
- Noise insulating lining according to DIN 4109
- Age resistant green EPMD lining, specific for application with plastic pipes
- Inner part of lining is smooth to improve sliding of pipe in clamp

Item number	Replaces BISMAI item #	D/CTS (inches)	D/IPS (inches)	D (mm)	Nut size (inches)	Items per box
CR3189019	CR3489018	1/2	1/4	14-17	3/8	50
CR3189023	CR3489023	5/8	1/2	19-23	3/8	50
CR3189028	CR3489028	1	3/4	26-28	3/8	50
CR3189039	CR3489035	1-1/4	1	32-35	3/8	50
CR3189045	CR3489043	1-1/2	1-1/4	40-43	3/8	50
CR3189052	CR3489053	-	-	47.9-49	3/8	50
CT3189058	CR3489056	2	-	53-54	3/8	50
CR3189064	CR3489058	-	2	60	3/8	50
CR3189070	CR3489067	2-1/2	-	66-67	3/8	50
CR3189079	CR3489075	-	2-1/2	73-74	3/8	50
CR3189105	CR3489090	-	3	78.7-92	3/8-1/2 dual nut	25
CR3189115	CR3489110	-	4	110-114	3/8-1/2 dual nut	25
CR3189130	CR3489125	5	-	125-130	3/8-1/2 dual nut	25
CR3189160	CR3489160	6	-	156	3/8-1/2 dual nut	10



RapidStrut® Hammerfix

- For use with 3/8" threaded rod
- Slide nut with threaded rod, washer and RapidStrut® spring
- Retains assembly in place before final tightening
- Replaces tee-nut, washer and threaded rod with one piece assembly
- No need to measure and cut rod
- Surface protected by the BIS UltraProtect® 1000 system
- Suitable for indoor and outdoor applications

Item #	Threaded rod length (inches)	For rail	Fa,x (lbs)	Items per pkg.
SR6528005	1/2	Strut	1,686	15
SR6528007	3	Strut	1,686	10
SR6528011	4	Strut	1,686	5
SR6528016	6	Strut	1,686	5



Quick Hanger Bolt

- Easy attachment of 3/8" threaded rod clamps
- Installs on metal studs, wood studs or Walraven bracket systems
- Quick to install
- Adapter (female) to attach 3/8" threaded rod
- Torx bit included for quick installation with screw gun

Item #	Size (inches)	Items per pkg.
6353991 (male)	3/8	200
6353992 (female)	3/8	100