

## Installation Techniques - Century-Line® Sleeves

**Century-Line® Sleeves** are thermoplastic wall or floor pipe penetration sleeves. One person working alone can usually install a Century-Line® Sleeve regardless of the size.



1. Measure the center line to position Century-Line® Sleeve end cap.



2. Nail one of the end caps at the marked center line.

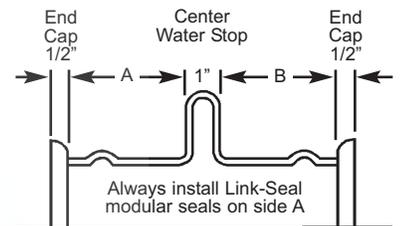


3. Place the Century-Line® Sleeve on the end cap. The sleeve and endcaps total length should be one-fourth longer than the width of the wall. Cut with a hand or power saw.

**Note:** To insure minimum water migration, center the water stop in wall by cutting equal lengths from each end of the sleeve, except as noted below.



4. Place second end cap on sleeve. Check to determine that the cap is properly inserted.



**Always Wear Safety Equipment When Using Century-Line Sleeves & Link-Seal Modular Seals!**

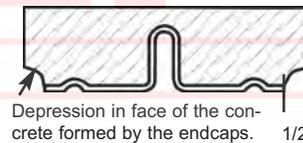


5. For additional stability, it's necessary to secure the sleeve with wire to the rebar. Inset the other end cap firmly and check that second end cap is positioned correctly and close the form.



6. After the concrete is poured and cured, remove end caps with screw driver or crow bar. End caps may be replaced to protect sleeve until pipe penetration is made.

Wall Thickness	Cut From Left End	Dimension A	Cut From Right End	Dimension B
16"	0.0"	7.125"	0.0"	7.125"
14"	1.875"	6.125"	1.875"	6.125"
12"	1.875"	5.125"	1.875"	5.125"
10"	2.375"	4.625"	3.375"	3.625"
8"	2.375"	4.625"	5.375"	1.625"



Depression in face of the concrete formed by the endcaps. 1/2"

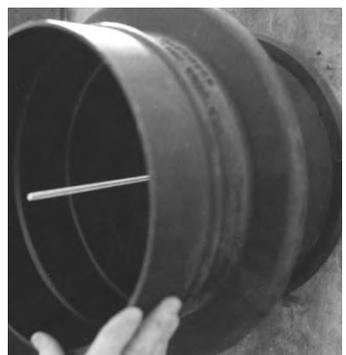
### Notes:

- Example: To convert 16" to 12", cut 2" off each end.
- Endcaps leave 1/2" depression in face of concrete.
- On sleeves under 12" length, install Link-Seal® modular seal on the "long side" of the waterstop. (a) For Link-Seal® modular seals models LS-200, LS-275, LS-300, LS-315, LS-340 and LS-360 - install with pressure plates flush with outer edge of the sleeve. (b) For Link-Seal® modular seals models LS-325, LS-400, LS-410, LS-425 and LS-475 - install with pressure plates partially inserted into the sleeve. When tightened, the pressure plates will "pull" into the sleeve. (c) For Link-Seal® modular seals models LS-500, LS-525, LS-575 and LS-600 - the minimum sleeve length is 10". Follow the instructions in 3 above.

## Alternative Technique Using Threaded Rod



After nailing end cap to form, drive (threaded rod\*) through the end plate and form and (thread nut\*) on other side. **Note:** Remember to measure the (threaded rod\*) to match the length of the sleeve.



Place the sleeve over the end cap nailed to the form.

\* = Not Provided by PSI.



Place second cap on the sleeve and use a (block of wood\*) and (wing nut\*) to tighten unit in place. Make certain sleeve is plumb.

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