

PROLINER®

PROLINER® ADVANTAGES:

HERE IS WHY PROFESSIONAL ROOFERS PREFER PROLINER®

- Only drain in the industry that provides multiple seals for water back-up prevention
- Eliminates costly drain removal and searching for matching replacement parts
- Constructed of maintenance free, durable copper and malleable alloy
- Prevents water back-up leaks and consequential building and roof damage
- Only retrofit drain to fit non-standard sized outlets
- Lowers job costs and helps maintain easier project control
- Installation does not disturb original roof assembly or interior finish of building
- Installed from the roof top by the roofer
- Offers variable lengths of outlets for special applications

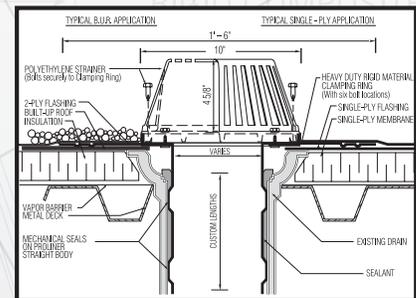


The standard by which all retrofit roof drains are measured.

Accept no substitutes. Only the Marathon Proliner® protects your roof from the ravages of water damage from above and below.

TYPICAL STRAIGHT STYLE WITH CLAMPING RING

Malleable metal outlet is designed so that it can be expanded with the Proliner Tool to create mechanical metal-to-metal watertight seals of the new drain in the existing pipe.



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

PVC Coating Only

CLAMPING RING made of rigid material to provide consistent pressure; is recommend for single ply systems.



STRAINER 10" diameter; 3 bolt attachment; high density polyethylene standard; cast iron alloy optional

FLANGE 18" diameter 20oz. copper for graveled or smooth roofs. Choose drain flange surface options best suited for re-roof system being used; Asphalt PRIMED for BUR and Modified Bitumen. PLAIN for EDPM Rubber and Hypalon. PVC COATED for PVC and other thermoplastic systems. Clamping ring option is recommended for single ply systems.

OUTLET, of malleable metal alloy fits inside cast iron, steel, PVC or copper existing drain pipe.

Outlet is designed to be expanded by the **PROLINER EXPANDER TOOL** to create mechanical, metal-to-metal seals, locking the Proliner into place with permanent watertight seals.

FDR RE-ROOFING PROJECTS

PROLINER® STRAIGHT DRAIN WITH CLAMPING RING

Use applications where direct mechanical pressure is required by a clamping ring to provide additional bonding of membrane to drain and roof deck. Ring is made of Heavy Duty rigid material and secured in place by six bolts and nuts equally tightened to provide consistent pressure to secure the membrane.



Note: Clamping ring option is recommended for single ply systems.

Order drain by catalog no. found in chart below and add suffix giving flange surface option based on re-roofing system being roofing system being used: PRIMED for BUR and Modified Bitumen. PVC COATED for BUR and Modified Bitumen. PVC COATED for PVC and other thermo plastic systems

For example: If the existing drain pipe is 3" and there roof system is EPDM, the order code would be PS3CR PLAIN

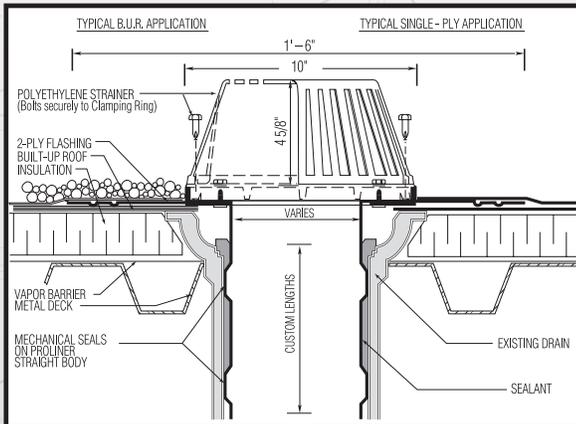
Standard Sized Drains:

Catalog No.	Fits Existing Drain Pipe I.D.	Drain O.D.
PS2CR	1 7/8" - 2 1/4"	1 3/4"
PS3CR	2 7/8" - 3 1/4"	2 13/16"
PS4CR	3 7/8" - 4 1/4"	3 13/16"
PS5CR	4 7/8" - 5 1/4"	4 13/16"
PS6CR	5 7/8" - 6 1/4"	5 13/16"

Non-Standard Sized Drains:

Catalog No.	Fits Existing Drain Pipe I.D.	Drain O.D.
PS200CR	2 1/4" - 2 5/8"	2 1/8"
PS300CR	3 1/4" - 3 5/8"	3 1/8"
PS400CR	4 1/4" - 4 5/8"	4 1/8"
PS500CR	5 1/4" - 5 5/8"	5 1/8"

Note: lengths up to 18" available. To specify, add 18 after code (e.g. PS318CR Primed). Dimensions beyond standard Proliner 12" outlet require use of Proliner Tool Depth Extender (not shown).



Note: Proliner outlet shows expansions made by Proliner installation tool.

PROLINER® STRAIGHT DRAIN

Most common style. Use when bowl is too small for funnel profile or when there is only a leader pipe. Suitable for most applications. Wide drain flange offers extra bonding area for routine installations. Variable length outlets are available to suit unusual job site circumstances.



Note: Only the Proliner Drain System

Order drain by catalog no. found in chart below and flange surface option based on re-used: PRIMED for PLAIN (no prime) for EPDM. PVC and other thermo plastic systems. PLAIN (no prime) for EPDM.

For example: If the existing drain pipe is 3" and there is PVC, the order code would be PS3 PVC COATED.

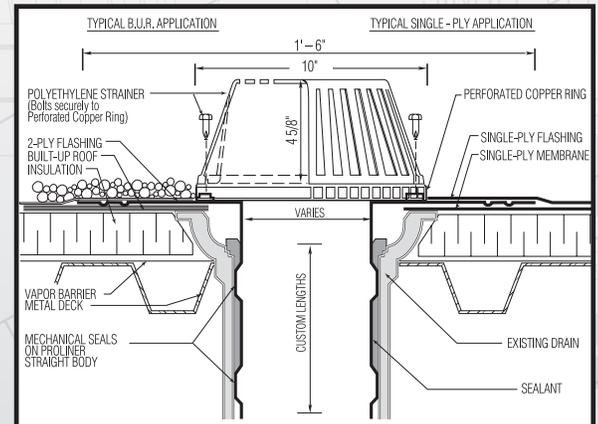
Standard Sized Drains

Catalog No.	Fits Existing Drain Pipe I.D.	Drain O.D.
PS2	1 7/8" - 2 1/4"	1 3/4"
PS3	2 7/8" - 3 1/4"	2 13/16"
PS4	3 7/8" - 4 1/4"	3 13/16"
PS5	4 7/8" - 5 1/4"	4 13/16"
PS6	5 7/8" - 6 1/4"	5 13/16"

Non-Standard Sized Drains:

Catalog No.	Fits Existing Drain Pipe I.D.	Drain O.D.
PS200	2 1/4" - 2 5/8"	2 1/8"
PS300	3 1/4" - 3 5/8"	3 1/8"
PS400	4 1/4" - 4 5/8"	4 1/8"
PS500	5 1/4" - 5 5/8"	5 1/8"

Note: lengths up to 18" available. To specify, add 18 after code (e.g. PS318 PVC coated). Dimensions beyond standard Proliner 12" outlet require use of Proliner Tool Depth Extender (not shown).



Note: Proliner outlet shows expansions made by Proliner installation tool.

Note: For EPDM, Hypalon and PVC, Marathon recommends the use of clamping rings.

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INSTALLATION



STEP 1

Inspect existing drain pipe and make sure there are no cracks or signs of potential failure. Using asphalt scraper and wire brush that attaches to T-handle, clean existing drain line of asphalt, loose debris and moisture.



STEP 2

Make sure the difference between the outside of the Proliner outlet and the inside diameter of the existing drain line is not greater than 3/8". Apply Proliner sealant to Proliner outlet and existing drain leader. Apply an extra amount to top inside of existing drain pipe. Spread sealant evenly around whole outlet; minimum 5" of lower portion. Remove the protective foam core from the outlet of the Proliner insert.



STEP 3

Install Proliner drain into existing drain. Mechanically secure flange to roof assembly through to deck. When size of existing drain bowl calls for a funnel drain, but re-roofing membrane requires a clamping ring, use Proliner Straight with clamping ring option and provide support for the flange; i.e. use 1/2" treated plywood, rigid insulation with high compressive value, or fill bowl with spray polyurethane foam.



STEP 4

Select proper sized expansion head for the Proliner tool using instructions in kit. Inset photo shows Proliner Expander Tool Kit consisting of:

- Proliner Expander Tool
- 3" and 4" Expansion Heads
- (1.5", 5", 6" Expansion Heads available as an option)



STEP 5

Expand Proliner outlet 3" or more from copper flange and only when it is supported by existing drain pipe. Turn handle of Proliner Expander Tool clockwise to expand the lead outlet. Use approximately 12 half-turns for 3" and 4" diameter drains and 6 half-turns for 5" and 6" diameter drains.



STEP 6

Upon completion of installation, feel and visually check the inside of the drain outlet to make sure it has been sufficiently expanded. Then, flash the flange to the membrane according to the instructions of the roofing system manufacturer. If clamping ring is used, hand tighten bolts using 7/16" (11mm) wrench. Secure strainer with the 3 bolts supplied.

ARCHITECTURAL SPECIFICATIONS

Provide and install Marathon Proliner Drain consisting of 18" diameter, 20 oz. copper flange; plain finish for EPDM rubber and Hypalon; asphalt prime coated for BUR and Modified Bitumen; and PVC coated for PVC and other thermoplastic systems. The outlet shall be of malleable metal alloy sized according to existing drain and manufacturer's instructions. The difference between the I.D. of the existing drain and O.D. of the Proliner outlet, shall not be greater than 3/8".

SELECTION GUIDE

Determine condition of existing roof drain style. Incorrect selection may prevent proper placement of flange on existing roof surface.

1. After Proliner Straight or Funnel has been selected to suit existing drain condition, the next consideration is the correct sizing of the Proliner outlet to the existing drain pipe. Example: if existing drain has a 3" inside dia., a No. 3 Proliner outlet which measures 2 13/16" outside dia. will easily fit. Always measure existing drain at the first point of outlet entry and after it has been cleaned.

2. Make sure Proliner outlet extends a minimum of 5" into drain pipe. In some instances as when a right angle turn is quickly encountered outlet may be too long. Sizing to length is easily done with tin snips, hack saw or small propane torch.

3. Choose drain flange surface options best suited for application into re-roofing system. PRIMED for BUR and Modified Bitumen; PLAIN for EPDM Rubber and Hypalon, and PVC Coated for PVC and other thermoplastic systems. Clamping ring option, which is available on only Proliner Straight, is recommended for single-ply systems.

4. Order drain by catalog no. found in charts at left and add suffix giving flange surface option. For example: an order code for a large sumped drain with an existing 3" pipe to be flashed into a retrofit BUR roof system would be PF3 PRIMED.

5. To help eliminate incorrect orders, always verify sizes and specifications before placing order.

6. Further technical assistance may be obtained by calling toll free:

1-800-828-8424

WARRANTY

Marathon products are inspected and warranted. Any product proven to be defective within 1 year of installation will be replaced or cost price refunded, at the Company's option, excluding the following:

- Damage caused in transit
- Coatings, adhesives and cements not applied in factory
- Failure caused by other than drain usage from a roof, i.e. damage by workman, falling objects, caustic and acidic conditions.