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OMG Roofing Products offers you solutions for reducing labor costs, building better roofs and improving your bottom line. Read more about how our OlyFlow options can enhance your business.

**The OlyFlow Option**

**OlyFlow RetroDrains**

In re-roofing applications, contractors find easy-to-install OlyFlow RetroDrains offer superior performance, time savings and cost-efficiency. In fact, it makes the process of reworking old strainers and clamping rings obsolete and the use of subcontractors impractical. Look at the problems of reworking and subcontracting:

Reworking an existing strainer dome and clamping ring can take up to three hours. It involves removing old parts, then reworking and reinstallation. This process is even longer if a rusted part is broken, if re-tapping is necessary, or if a trip is required for replacement components. And when the rework is done you are still left with the same old drain.

Subcontracting is also problematic. Subcontractors can take up to two hours to replace a drain. It takes additional time to book and to coordinate the subcontractor’s schedule with yours. The work requires access to the roof’s underside; this means more time making what may be inconvenient arrangements with your client, the building owner. There is also the liability of having a subcontractor on the roof.

In contrast, an OlyFlow RetroDrain installs in just 15 to 30 minutes. The part is brand new and installed by your crew with no inconvenience to your client. More important, the money goes in your pocket and not a subcontractor’s.

**OlyFlow Seals**

Prior to 2004, there were no standards for retrofit roof drains. A shop-made drain of scrap sheet metal with cotton mop strands and mastic might have sufficed. Inevitably, during an intense rainstorm, the retrofit drain-line would back-up and the “rag” seal would fail causing leaks and damage inside the building and to roof insulation. In the early 1980s, the UFlow Seal, constructed from EPDM, nylon, brass and stainless steel, was created to remedy the application. The UFlow Seal, mechanically activated with the UFlow screwdriver, expands the EPDM component of the seal to make contact with the wall of the existing drain leader, preventing water back-up damage.

The performance of the OlyFlow seals was tested by two independent facilities – Underwriters’ Laboratories of Canada and Smith Emery Laboratories. The results were conclusive. After rigorous leakage performance tests, there were no seal failures. Additionally, at OMG’s on-site testing facility, the seals were pushed well beyond the independent laboratories’ specified test times and the results were the same.

In 2004 a national industry standard was approved (ANSI/SPRI RD-1). The standard featured a test protocol to assure a leak-free connection to existing plumbing. OlyFlow seals exceed this standard.

**Pipe Supports**

The professional roofing contractor has three choices when working with rooftop pipe supports: 1) leave existing wood blocks, 2) replace with new wood blocks, 3) use engineered supports such as the OMG OlyFlow PipeGuard.

Replacing the wood blocks is the most common of the three choices. It is a time-consuming, costly, multi-step approach involving: ordering and handling lumber, purchasing hardware, setting up to cut and organize lumber, cutting extra roofing material and, installing wood blocks for every pipe support. And after all that work, you still end up with problematic wood block pipe supports.

The OlyFlow PipeGuard choice offers you the lowest installed cost and best performance. Made of heavy-duty EPDM, it is designed to support small rooftop pipes without damaging the roof system. The OlyFlow PipeGuard’s one-piece design makes it fast and simple to use without tools or preparation. Just flex it, fit it and you are done.

As with all OMG premium products, OlyFlow RetroDrains and OlyFlow PipeGuards help you reduce labor costs, build better roofs and improve your bottom line.
One-piece spun aluminum body and heavy duty cast aluminum strainer dome and clamping ring provide strength and durability. The drain flange has a depressed sump area to facilitate water drainage from the roof surface. The patented technology of the U-Flow Seal provides a mechanical watertight connection to PVC or cast iron pipes. Also available with plastic, or the cast aluminum SuperDome, in sizes 3”, 4”, 5”, and 6”.

**Features**
- One-piece seamless body manufactured from .125”, 11 gauge spun aluminum.
- Extra large flange – 17½”, with depressed sump area.
- Cast aluminum strainer dome and clamping ring.
- 12” long drain stem.
- Incorporates the patented technology of the U-Flow Seal.
- Also available with plastic, or the cast aluminum SuperDome along with OverFlow, FlowControl of QuickFlow attachments.
- Simple and easy to install from rooftop.

**Benefits**
- One piece seamless body provides strength and durability without separation of the flange from the stem.
- Extra large flange allows positive attachment of roof flashing membrane while the sump area facilitates drainage.
- The cast aluminum strainer dome provides superior protection against rooftop damage; the clamping ring ensures uniform compression seal of the membrane.
- Drain stem accommodates most existing field conditions with longer lengths available for deep existing drain bowls.
- A mechanical compression seal designed to protect the roofing system and building contents from water backup damage. Removable from the stem, it can be used on a field cut stem to accommodate an elbow below the roof surface.
- Saves time and money by eliminating any need to remove the old drain. Allows easy rooftop installation without disturbing interior finishes or activities.

**Standards, Approvals and Tests**

The following are the various standards, approvals and tests that the OMG Hercules RetroDrain meets:

**ANSI/SPRI RD-1** – developed by SPRI (Sheet membrane and component suppliers to the commercial roofing industry), a certified canvasser of ANSI (American National Standards Institute), and features a test protocol designed to assure a leak-free connection to existing plumbing.

**ULC/ORD-C790.4** – developed by Underwriters’ Laboratories of Canada and features a test protocol designed to assure a leak-free connection to existing plumbing and impact testing to provide strength.

<table>
<thead>
<tr>
<th>PHYSICAL DATA</th>
<th>Cat. No.</th>
<th>Size</th>
<th>Dome Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drain Body:</td>
<td>HDAL3A</td>
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<td>Aluminum</td>
</tr>
<tr>
<td>Flange Width:</td>
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<td>Aluminum</td>
</tr>
<tr>
<td>Stem Length:</td>
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<td>Aluminum</td>
</tr>
<tr>
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<tr>
<td>Clamp Ring:</td>
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<td>Plastic</td>
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<tr>
<td>Strainer Dome:</td>
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<td>Plastic</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>HDAL6SD</td>
<td>6”</td>
<td>SuperDome</td>
</tr>
</tbody>
</table>

The data below is constant for each Hercules RetroDrain.

**Drain Body:** 11 gauge (.125”) spun aluminum

**Flange Width:** 17½” with sump area

**Stem Length:** 12”

**Watertight Seal:** U-Flow Mechanical Requires U-Flow Screwdriver

**Clamp Ring:** Cast Aluminum

**Strainer Dome:** Cast Aluminum (stands 8” high with clamp ring) Plastic or Aluminum SuperDome
Standards, Approvals and Tests

The following are the various standards, approvals and tests that the OMG RAC Deluxe RetroDrain meets;

- ANSI/SPRI RD-1 – developed by SPRI (Sheet membrane and component suppliers to the commercial roofing industry) a certified canvasser of ANSI (American National Standards Institute), and features a test protocol designed to assure a leak-free connection to existing plumbing.
- IAPMO PS 97-96 – a standard plumbing industry test designed to check for leakage at connections under a 10 foot head of water for a 24 hour period. This test was performed by the Smith-Emery Company, a nationally recognized independent test laboratory providing physical testing of construction related materials. The RAC Deluxe RetroDrain produced no leakage.
2" RetroDrain

Features
- One-piece, seamless body manufactured from .064", 16 gauge spun aluminum.
- Extra large flange – 17½”.
- 12" long drain stem.
- Includes 4 rubber O rings.
- Available with either a U-Flow cast aluminum strainer dome and clamping ring or a RAC aluminum strainer dome and low profile metal clamping ring.
- Simple and easy to install from rooftop.

Benefits
- One-piece, seamless body, eliminates the possibility of leaks due to poor welds at the stem and flange connection.
- Extra large flange for positive attachment of the roof flashing membrane.
- Drain stem accommodates most existing field conditions or can be field cut to accommodate quick turn elbows.
- 4 rubber O rings make a dependable watertight seal.
- The U-Flow cast aluminum strainer dome and cast aluminum clamping ring provide for strength and durability while the RAC aluminum strainer dome and metal clamping ring are designed to minimize damming and improve drainage.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

8" RetroDrain

Features
- One-piece, seamless body manufactured from .125", 11 gauge spun aluminum.
- Extra large flange – 17½”.
- 12” long drain stem.
- Includes 4 rubber O rings.
- Available with either a U-Flow cast aluminum strainer dome and aluminum clamping ring or a RAC aluminum strainer dome and low profile metal clamping ring.
- Simple and easy to install from rooftop.

Benefits
- One-piece, seamless body, eliminates the possibility of leaks due to poor welds at the stem and flange connection.
- Extra large flange for positive attachment of the roof flashing membrane.
- Drain stem accommodates most existing field conditions or can be field cut to accommodate quick turn elbows.
- 4 rubber O rings make a dependable watertight seal.
- The U-Flow cast aluminum strainer dome and aluminum clamping ring provide for strength and durability while the RAC aluminum strainer dome and metal clamping ring are designed to minimize damming and improve drainage.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.
USII RetroDrain

Features
- One-piece seamless body manufactured from .064”, 16 gauge spun aluminum.
- Extra large flange – 17 1⁄2”.
- Drain flange has welded metal clips for dome attachment.
- 12’ long drain stem.
- Incorporates the patented technology of the U-Flow Seal.
- Simple and easy to install.

Benefits
- One piece seamless body provides strength and durability without separation of the flange from the stem.
- The extra large flange allows positive attachment of roof flashing membrane.
- Metal clips allow easy securement of the strainer dome.
- Drain stem accommodates most existing field conditions with longer lengths available for deep existing drain bowls.
- The U-Flow Seal is a mechanical compression seal designed to protect the roofing system and building contents from water backup damage. The U-Flow Seal is removable from the stem and can be used on a field cut stem in order to accommodate an elbow turn just below the roof surface.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

PC/PET RetroDrain

Features
- One-piece seamless body manufactured from an engineered resin of Polycarbonate Polyethylene Terephthalate (PC/PET).
- Large flange – 13.9”.
- The plastic strainer dome and clamping ring is manufactured from an engineered resin of Polycarbonate Polyethylene Terephthalate (PC/PET).
- 12.35” long drain stem.
- Incorporates the patented technology of the U-Flow Seal.
- Available with optional cast aluminum SuperDome strainer.
- Simple and easy to install from rooftop.

Benefits
- One-piece seamless body enables the user to torch or mop without separation of the flange and stem.
- Large flange – 13.9”, provides for positive attachment of roof flashing membrane.
- The plastic strainer dome and clamping ring provides excellent UV stability.
- Drain stem accommodates most existing field conditions.
- The U-Flow Seal is a mechanical compression seal designed to protect the roofing system and building contents from water backup damage.
- The optional cast aluminum SuperDome strainer makes the U-Flow PC/PET RetroDrain both an economical and durable option.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

An economical option featuring a one-piece spun aluminum body and a heavy duty cast aluminum strainer dome for strength and durability. The extra large flange provides a wide area for the attachment of the flashing membrane. The patented technology of the U-Flow Seal provides a mechanical watertight connection to PVC or cast iron pipes. Also available with a plastic strainer dome, in sizes 3”, 4”, 5”, and 6”.

Manufactured with copolymer resin that is compatible with any roofing system, it can even withstand the torch heat associated with membrane applications. Its physical properties are not altered by rooftop chemicals and it has UV stability over time. The one piece molding of the RetroDrain body makes leakage impossible. The patented technology of the U-Flow Seal provides a mechanical, watertight connection. Also available with the cast aluminum SuperDome strainer in 3”, 4”, 5”, and 6” sizes.
Features
- Pre-punched, 16" x 10" x 10" .080" thick aluminum drain flange.
- Incorporates the patented RAC Backflow Compression Seal.
- Includes a .125" thick metal clamping ring.
- Includes a .060" thick aluminum drain strainer.
- Simple and easy to install.

Benefits
- Drain flange provides stable attachment to the wall and roof deck.
- The RAC Backflow Compression Seal is quickly activated at drain flange level with a 7⁄16" wrench and protects the roofing system and building contents from water backup damage.
- Metal clamping ring assembly provides a compression type termination for the vertical and horizontal roof flashings. Stainless steel studs and lock nuts secure the clamping ring assembly to the drain flange.
- Drain strainer provides protection against rooftop debris and is easily secured to the drain body with four stainless steel wing nuts.
- Simple and easy to install saving the contractor time and money.

Features
- 3" and 4" are manufactured from .032" spun-punched copper; 5" and 6" are manufactured from .050" spun-punched copper.
- Extra large flange – 17 1⁄2", with depressed sump area.
- Cast aluminum strainer dome and clamping ring.
- 12" long drain stem.
- Incorporates the patented technology of the U-Flow Seal.
- Also available with plastic or cast aluminum SuperDome and OverFlow, FlowControl or QuickFlow attachments.
- Simple and easy to install from rooftop.

Benefits
- Copper drain body provides proven performance for many decades.
- Extra large flange allows positive attachment of roof flashing membrane while the sump area facilitates drainage.
- The cast aluminum strainer dome provides superior protection against rooftop damage while the clamping ring ensures a uniform compression seal of the membrane.
- Drain stem accommodates most existing field conditions with longer lengths available for deep existing drain bowls.
- The U-Flow Seal is a mechanical compression seal designed to protect the roofing system and building contents from backup water damage. It’s removable from the stem and can be used on a field cut stem when accommodating an elbow below the roof surface.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

Designed for existing through-wall/side-wall or scupper drainage pipes, the aluminum and stainless steel drain components provide durability and compatibility with Single Ply, BUR & Modified Bitumen roofing systems. A metal clamping assembly creates a compression type termination in both vertical and horizontal wall flashings. A removable drain strainer catches debris. Featured is the patented RAC Backflow Compression Seal for a proven plumbing connection with existing PVC or Cast Iron leader pipes. Available in 3’, 4’, 5’ and 6’ sizes and drain pipe placement can be customized during fabrication to meet specific project requirements.

The copper drain flange is welded to a copper drain stem pipe. A heavy-duty cast aluminum strainer dome and clamping ring provide strength and durability. The patented technology of the U-Flow Seal provides a mechanical watertight connection. Also available with plastic, or cast aluminum SuperDome, in 3’, 4’, 5’, and 6’ sizes.
**AlumaWeld Drain**

**Features**
- One-piece seamless body manufactured from .064”, 16 gauge spun aluminum.
- Extra large 17 1⁄2”, plastisol coated flange.
- Flange has welded metal clips for dome attachment.
- 12” long drain stem.
- Incorporates the patented technology of the U-Flow Seal.
- Simple and easy to install.

**Benefits**
- One-piece seamless body provides strength and durability without separation of the flange from the stem.
- The extra large flange provides ample area for hot air or solvent welding of PVC based membranes, giving a homogeneous water tight connection.
- Metal clips provide easy securement of the strainer dome.
- Drain stem accommodates most existing field conditions with longer lengths available for deep existing drain bowls.
- The U-Flow Seal is a mechanical compression seal designed to protect the roofing system and building contents from water backup damage. The U-Flow Seal is removable from the stem and can be used on a field cut stem in order to accommodate an elbow turn just below the roof surface.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

**RAC PVC Drain**

**Features**
- Pre-punched, .080” thick, extra large 18” x 18” aluminum drain flange with plastisol coating.
- Low profile, 14” diameter .080” thick aluminum drain strainer.
- 9” long drain stem.
- Incorporates the patented RAC Backflow Compression Seal.
- Simple and easy to install.

**Benefits**
- The extra large, plastisol coated flange, provides ample area for hot air welding of PVC based membranes, giving a homogeneous water tight connection.
- The low profile strainer promotes drainage and the large diameter provides added flow capacity and debris protection.
- The 9” long drain stem accommodates most existing field conditions with longer and shorter drain pipe lengths available for quick turn elbows or deep existing drain bowls.
- The patented RAC Backflow Compression Seal is quickly activated at drain flange level with any 7⁄16” wrench and protects the roofing system and building contents from water backup damage.
- Simple and easy rooftop installation eliminates the need to disrupt the building’s interior activities and allows for the existing drain bowl to remain, saving the contractor time and money.

The one-piece spun aluminum body has a plastisol coated flange for direct hot air welding of PVC type roof membranes. The drain is equipped with a heavy duty cast aluminum strainer dome for strength and durability. The PVC AlumaWeld Drain incorporates the patented technology of the U-Flow Seal, providing a mechanical watertight connection to PVC or cast iron pipes. Also available with a plastic strainer dome, in sizes 3”, 4”, 5”, and 6”.

Constructcd of aluminum and stainless steel components with a large, plastisol coated flange for hot air welding of PVC type roof membranes. The drain flange has a depressed sump area and an oversized, low profile strainer dome to facilitate the easy drainage of all water from the roof surface. The RAC PVC RetroDrain incorporates the patented technology of the patented RAC Backflow Compression Seal providing a mechanical watertight connection.
**PUF RetroDrain**

**Features**
- Pre-punched, .080” thick 18” x 18” aluminum drain flange.
- Flange has a 1” high foam stop.
- Flange is pre-primed.
- 14” diameter .080” thick aluminum drain strainer dome.
- 9” long drain stem.
- Incorporates the patented RAC Backflow Compression Seal.
- Simple and easy to install.

**Benefits**
- Drain flange insures stable attachment to the roof deck and provides a clean substrate for adhesion of sprayed polyurethane foam.
- The flange’s 1” vertical foam stop is designed for termination of sprayed foam, coating and sealant.
- The pre-primed flange is designed to allow proper adhesion of spray polyurethane foam to the drain flange, saving the applicator time.
- .080” thick aluminum strainer dome has a low profile base to promote drainage and the large diameter provides added flow capacity and minimizes damming.
- Drain stem accommodates most existing field conditions with longer and shorter drain pipe lengths available for quick turn elbows or deep existing drain bowls.
- The RAC Backflow Compression Seal is quickly activated at drain flange level with a 7⁄16” wrench and protects the roofing system and building contents from water damage.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.

**Gutter RetroDrain**

**Features**
- Pre-punched, .060” thick 8” x 8” aluminum drain flange.
- The strainer dome is constructed of .063” thick aluminum and is 8” in diameter.
- Includes a 6” diameter, .125” thick, low profile, aluminum clamping ring.
- Incorporates the patented RAC Backflow Compression Seal.
- Simple and easy to install.

**Benefits**
- Drain flange insures stable attachment to the roofing substrate.
- Designed to accommodate tight field conditions.
- Clamping ring provides a tight compression for the termination for the roof system and is secured to the drain body with stainless steel studs.
- The RAC Backflow Compression Seal is quickly activated at drain flange level with a 7⁄16” wrench and protects the roof and building from water damage.
- Saves time and money because it allows easy rooftop installation without disturbing interior finishes or activities, eliminating the need to remove the old drain.
Aluminum Classic New Connection Drain

Features
- A one-piece seamless body manufactured from .125”, 11 gauge spun aluminum.
- Pre-punched flange.
- A heavy-duty cast aluminum strainer dome and clamping ring.
- Complete with a no-hub coupler with stainless steel bands that connects with PVC or cast iron plumbing below deck.

Benefits
- One-piece seamless body provides strength and durability without separation of the flange from the stem.
- The pre-punched flange insures consistent, stable attachment to the roofing substrate eliminating the need for an under-deck clamp.
- The heavy-duty cast aluminum strainer dome and clamping ring is designed to be rugged and durable to handle roof top traffic while the clamping ring ensures a uniform compression seal of the membrane. A plastic or the cast aluminum SuperDome are available options.
- The no-hub coupler will work with schedule 40 or 80 rain-water leaders.

NewCon New Connection Drain

Features
- Pre-punched, .080” thick, with an extra large 18” x 18” aluminum drain flange.
- 14” diameter .080” thick aluminum drain strainer dome.
- 8” long drain stem.
- Includes a .125” thick, aluminum clamping ring.
- Complete with a no-hub coupler that connects with PVC or Cast Iron plumbing below deck.

Benefits
- Drain flange insures consistent, stable attachment to the roofing substrate and provides a clean surface for adhesion of drain flashing materials.
- Strainer dome features a low profile base to promote drainage and the large diameter provides added flow capacity and minimizes damming.
- Drain stem accommodates most existing field conditions with longer drain pipe lengths available.
- Clamping ring assembly is recessed into the drain flange to maximize drainage and is secured to stainless steel studs.

The Aluminum Classic Drain is manufactured from spun aluminum. Its one-piece construction is designed for quick installation in new connection and ponded roof applications. The drain can be connected by using the appropriate mechanical clamp. The drain flange has six welded aluminum studs to secure the aluminum clamping ring and six predrilled fastener holes for attachment of the drain to the roof deck. The drain flange has a depressed sump area to facilitate the drainage of all water from the roof surface. The cast aluminum strainer dome is secured to the cast aluminum clamping ring by means of 3 stainless steel screws. Available in 3”, 4”, and 6” sizes along with options of a plastic dome or cast aluminum SuperDome.

NewCon New Connection Drain

Features
- Pre-punched, .080” thick, with an extra large 18” x 18” aluminum drain flange.
- 14” diameter .080” thick aluminum drain strainer dome.
- 8” long drain stem.
- Includes a .125” thick, aluminum clamping ring.
- Complete with a no-hub coupler that connects with PVC or Cast Iron plumbing below deck.

Benefits
- Drain flange insures consistent, stable attachment to the roofing substrate and provides a clean surface for adhesion of drain flashing materials.
- Strainer dome features a low profile base to promote drainage and the large diameter provides added flow capacity and minimizes damming.
- Drain stem accommodates most existing field conditions with longer drain pipe lengths available.
- Clamping ring assembly is recessed into the drain flange to maximize drainage and is secured to stainless steel studs.

Designed for installation in roof areas that pond water or new roof construction. Constructed of aluminum and stainless steel components for durability and designed for use with Single Ply, BUR and Modified Bitumen roofing systems, it features an extra large flange for positive attachment of the roof flashing membrane, a recessed metal clamping ring for roof termination and to promote drainage, an oversized strainer dome to minimize damming, and a no-hub banded coupler for connecting to PVC or Cast Iron plumbing below deck. Available in 3”, 4” and 5” sizes with the RAC low profile strainer dome or the Vandal Resistant low profile strainer dome.
Custom Drains

One of OMG’s specialties is the design and fabrication of custom drains. Though most new and retrofit roof drain installations conform to standard industry practices, there are the occasions when an unusual condition occurs at a drain location. In such instances, the standard drain may need to be modified or custom designed to fit the particular site conditions.

If you have a special application, or would like a custom designed drain, please complete page 19 of this catalog and give us a call at 800-633-3800.

U-Flow Seals

A patented mechanical compression seal used to shorten the PC/PET RetroDrain. Tough nylon flanges and stainless steel screws provide the necessary strength torque and to compress the EPDM rubber gasket.

The seal is activated by tightening the internal screws with the U-Flow screwdriver. This compresses the thermoplastic seal, forcing it to expand and make contact with the wall of the old pipe, thus preventing vertical movement and stopping water backup damage. This design feature is incorporated in all U-Flow retrofit drain products. Available in 3”, 4”, 5”, and 6” sizes.

U-Flow Screwdriver

The U-Flow Screwdriver is an accessory product used in the installation of U-Flow products. The extra long screwdriver is fitted with a square socket tip (#2 Robertson) for tightening the special recess head screws on the U-Flow compression seals. The 12½” shaft of the screwdriver ensures ease of reach when tightening the U-Flow Seal connection screws on all U-Flow retrofit products. The U-Flow screwdriver comes complete with a loss prevention bar.

OverFlow

The OverFlow accessory is a spun aluminum round drain attachment. The product is designed to be used with all U-Flow drains that are supplied with a clamping ring assembly. The purpose of the overflow drain assembly is to provide additional water drainage, if necessary, when water level on the roof exceeds 4” in height.
**FlowControl**

The FlowControl is a spun aluminum round drain attachment with two specially designed notches that provide a specific limited water flow rate under different water pressures (water head) on the roof. This product is designed and tested for application with all U-Flow drains that are supplied with a clamping ring assembly. If the water level on the roof exceeds 4" in height the Flow Control drain assembly will perform as an overflow drain.

**QuickFlow**

The QuickFlow is a patented, plate-bracket aluminum attachment for U-Flow drains, which decreases turbulence in the upper section of the roof drain therefore increasing the water flow rate. This product is designed for application with U-Flow retrofit drains that are supplied with a clamping ring assembly. The purpose of this product is to eliminate or decrease the water vortex that forms in the area of the drain.

**Universal Strainer Dome**

**Features**
- Constructed of .080” thick aluminum with stainless steel hardware.
- Unique low profile design.
- A choice of large diameters available.
- Two adjustable tension arms to secure the Universal Strainer Dome to the existing leader pipe.
- Ideal for maintenance work or reroofing projects where existing drain bowls are being reworked and strainers are missing.
- Available in a vandal resistant design.

**Benefits**
- Strainer and hardware designed for strength and durability.
- The unique low profile design minimizes damming and promotes drainage.
- The large diameter strainer increases drain protection and minimizes damming.
- No tools are required for installation.
- Can save the contractor and building owner time and money.

Engineered to replace broken or missing drain strainers. The domes are oversized (available in 10”, 14”, 18” and 24” diameters) to insure the retrofit of all existing drain bowl assemblies and to increase drain protection by spreading rooftop debris over a larger area. Securement to the existing drain assembly is accomplished with two adjustable tension arms or in an optional vandal resistant design. The Universal Strainer Dome quickly resolves a very common roofing problem and lowers contractor labor costs by eliminating the need to identify and special order replacement components.
DrainGuard

**Features**
- Constructed of .100" thick aluminum with stainless steel hardware.
- Available in 3' x 3' or 4' x 4' configurations.
- The 4" high vertical face of DrainGuard is slotted.
- Simple and easy to install.

**Benefits**
- Hardware is designed to insure durability and compatibility with Single Ply, BUR and Modified Bitumen Roofing Systems.
- Greatly increases existing strainer capacity and accommodates most existing drain sump details.
- DrainGuard is slotted for drainage while retaining rooftop debris and keeping stone ballast away from the existing strainer dome.
- DrainGuard is simple and easy to install on the rooftop with 8 stainless steel lock nuts and 7/16" bolts and is secured to the substrate in a non-penetrating fashion with an approved caulk or pourable sealant for single ply systems or with flashing grade mastic for BUR or modified bitumen roofing systems.

GravelGuard

**Features**
- Constructed of .060" thick aluminum.
- Includes a 1" high, vertical face, notched in "V" fashion.
- Pre-fabricated.
- Retains the flow of Coal Tar Pitch during high temperatures.
- Assembly is quickly and easy.
- Available in standard 4' x 4' configuration.

**Benefits**
- Constructed of .060" thick aluminum for durability and strength when exposed to rooftop foot traffic.
- The 1" high, vertical face, notched in "V" fashion is designed for drainage at every 2" O.C. with a 4" wide flange for interply flashing.
- The pre-fabricated design insures product uniformity and quality control.
- GravelGuard retains the flow of coal tar pitch during high temperatures and prevents gravel migration into the drain sump area.
- Assembly is quickly completed on the rooftop with the four stainless steel bolts provided using a 7/16" wrench.
- Available in standard 4' x 4' configuration which accommodates most drain sump details.
**SnowGuard**

**Features**
- Constructed of .125” thick mill finish aluminum or coated with Plastisol coating.
- 4” high vertical face.
- 2” wide, prepunched flange.
- 3⁄8” wide vertical drainage slots.
- Available in 4’ standard length.

**Benefits**
- Strong and durable.
- Superior snow and ice retention.
- Prepunched for securement (5 holes).
- Increased drainage of melting snow and ice.

SnowGuards are designed to retain snow and ice on pitched single ply roof systems. SnowGuards are constructed of .125” thick aluminum and are available in 4’ lengths. Powder coated color finishes or PVC coated SnowGuards are also available per customer specifications.
**OlyVent**

**Features**
- The one-way OlyVent features a Duro Nitrile rubber valve.
- Made from heavy gauge, spun aluminum.
- Conical shape and wide base opening.
- Simple identification feature distinguishes the one-way vent from the two-way breather.
- Vandal-proof cap.
- Versatile, one-way vent and two-way breather.

**Benefits**
- The one-way OlyVent allows trapped air pressure to escape which helps to reduce blistering of the roof system, damage to insulation and the roof structure.
- Heavy gauge, spun aluminum for strength and durability.
- The conical design and wide base opening allows for greater performance than standard, cylindrical designed vents and makes for an easier and better flashed penetration.
- The identification feature allows for roof inspections to be completed quickly and thoroughly.
- The vandal-proof cap provides security while preventing entry of wind-blown rain or snow.
- The versatile, one-way vent and two-way breather can be used with either single ply or BUR applications.

The one-way vent allows trapped air pressure to escape while the two-way vent, combined with the one-way vent, will help reduce moisture. Trapped air pressure and moisture can lead to the reduction in thermal protection of the insulation, roof membrane system and roof-deck damage. Available as either one-way vents or two-way breathers, the OMG OlyVent offers many unique features for better performance and design.

**OlyFlow PipeGuard**

**Features**
- Less than 5 seconds per support to install making it extremely fast compared to other methods.
- A one-piece, triangular design.
- Simple to work with, no tools needed.
- Has built-in clamping feature.
- No skills needed to install.
- Made of long lasting, smooth, EPDM.
- Designed specifically for small rooftop pipes.

**Benefits**
- The speed of installation means no time wasted buying, cutting, assembling and installing all the components of the wood blocks.
- The one-piece, triangular design is engineered to shed water while it’s wide platform base provides stability and balance.
- With no tools needed, no time is wasted locating or keep track of tools.
- The built-in clamping feature means no metal clamps to purchase, assemble and rust.
- Being simple to install means there is no skill needed and any crew member can handle.
- The long lasting, smooth EPDM means no sharp edges or corners and will not rot and damage the roof system as is the case with wood blocks.
- Being designed specifically as a small rooftop pipe support, the PipeGuard is a better, more professional method, making for a longer lasting and better looking roof assembly.

Made of heavy-duty EPDM rubber, designed to support small rooftop pipes without damaging the roof system, and its one-piece design makes it fast and simple to use. The long-lasting EPDM rubber is a safe alternative to traditional pressure treated wood blocks that can damage the roof system with sharp edges, corners and splitting. The one-piece design makes the application fast and simple and requires no tools or additional parts for installation. Available in three sizes to accommodate steel, copper, and PVC rooftop pipes from ¼” to 5” diameters.
OlyFlow Drain Flow Capacity

A common question in regards to roof drain performance, in particular retrofit roof drains, is their ability to handle a certain volume of water in a specified period of time...i.e., Gallons Per Minute (G.P.M.). Measuring gallons per minute of water flowing through a roof drain based on theory and mathematical equations is the traditional method. A better and more accurate method is to put a drain through measurable test procedures in a controlled atmosphere. Many characteristics of a drain can have both positive and negative effects on performance results. Assuming performance results based on calculations of drainpipe diameters is only one contributing factor to actual performance results. Combined with local rainfall charts and square footage of area to be drained, accurate Gallons Per Minute (G.P.M.) data is crucial.

With the acquisitions of both UFlow Inc. and Roof Accessories Company Inc., OMG has constructed a test rig designed to provide accurate data and better serve the roofing industry. The following chart shows the test results of the industries two leading retrofit drains, the UFlow Hercules RetroDrain and the RAC Deluxe RetroDrain in Gallons Per Minute (G.P.M.)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>G.P.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>35</td>
</tr>
<tr>
<td>3&quot;</td>
<td>50</td>
</tr>
<tr>
<td>4&quot;</td>
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<tr>
<td>5&quot;</td>
<td>100</td>
</tr>
<tr>
<td>6&quot;</td>
<td>150</td>
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</tbody>
</table>

These drains were able to perform at these peak rates with a head of water at 4" or less.

OlyFlow Seal Expansion Capacity

The chart below provides data as to the pre-expanded outside diameter (O.D.) of both the UFlow Seal and the RAC Seal, inside diameter (I.D.) drain leaders they will fit into and how far they will expand.

RAC Seal

<table>
<thead>
<tr>
<th>SIZE</th>
<th>O.D. OF PRE-EXPANDED SEAL</th>
<th>FIT INTO PIPE I.D.</th>
<th>FULLY EXPANDED</th>
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<tr>
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<td>2.77&quot;</td>
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<td>3.5&quot;</td>
<td>3.31&quot;</td>
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<td>5.12&quot;</td>
</tr>
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<td>5.43&quot;</td>
<td>5.45&quot;</td>
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<tr>
<td>6&quot;</td>
<td>5.85&quot;</td>
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<td>6.30&quot;</td>
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</tbody>
</table>

UFlow Hercules

<table>
<thead>
<tr>
<th>SIZE</th>
<th>G.P.M.</th>
</tr>
</thead>
<tbody>
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<td>2&quot;</td>
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</tr>
<tr>
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<td>180</td>
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<tr>
<td>6&quot;</td>
<td>210</td>
</tr>
</tbody>
</table>

These drains were able to perform at these peak rates with a head of water at 3¼" or less.

UFlow Seal

<table>
<thead>
<tr>
<th>SIZE</th>
<th>O.D. OF PRE-EXPANDED SEAL</th>
<th>FIT INTO PIPE I.D.</th>
<th>FULLY EXPANDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
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<td>4.75&quot;</td>
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<tr>
<td>6&quot;</td>
<td>5.75&quot;</td>
<td>5.77&quot;</td>
<td>6.40&quot;</td>
</tr>
</tbody>
</table>

Due to manufacturing variances and jobsite inconsistencies, these figures are to be used as a guideline and are not a guaranteed fit in “tight” situations.
How to Shorten a UFlow Metal Retrofit Drain

In some applications it may be necessary to shorten the drain’s stem length if the existing vertical distance is too shallow to accommodate the retrofit drain stem as manufactured.

Step 1.
Shortening the drain stem is done by cutting off the stem to accommodate the UFlow Seal. The minimum required installation vertical distance of the existing drain is 4” to accommodate the combined shortened length of the drain stem and seal assembly. At least 2⅜” of the drain’s stem must be left in place to accommodate the UFlow Seal insert length dimension, as shown in Figure 1.

Step 2.
Once the drain and seal have been assembled, the seal can be locked into place in the drain stem by tightening the seal screws. The assembly is then inserted into the cleaned existing roof drain and installed in the usual manner, by expanding the UFlow Seal.

Figure 1: The minimum length of the metal retrofit drain stem with a U-Flow Seal Assembly.
In the commercial roofing industry retrofit roof drains have never had guidelines as to how they should perform. In recent years, various nationally known organizations and testing laboratories have developed test procedures in order to create a uniform standard and test procedures.

The following are the various standards, approvals and tests that OMG’s OlyFlow drains meet.

**ANSI/SPRI RD-1**
Developed by SPRI (sheet membrane and component suppliers to the commercial roofing industry), a certified canvasser of ANSI (American National Standards Institute), and features a test protocol designed to assure a leak-free connection to existing plumbing. Both the UFlow and RAC RetroDrains meet this standard.

**ULC/ORD-C790.4**
Developed by Underwriters’ Laboratories of Canada and features a test protocol designed to assure a leak-free connection to existing plumbing and impact testing to assure strength. OMG’s UFlow drains are listed with ULC.

**IAPMO PS 97-96**
A standard plumbing industry test designed to check for leakage at connections under a 10 foot head of water for a 24 hour period. This test was performed by the Smith-Emery Company, a nationally recognized independent test laboratory providing physical testing of construction related materials, on the RAC Deluxe RetroDrain. The RAC Deluxe RetroDrain, featuring the RAC Backflow Compression Seal, produced no leakage.
Part 1: General

1.01 SECTION INCLUDES
A. Retrofit roof drains

1.02 RELATED SECTIONS
A. Division 15 – Mechanical

1.03 SYSTEM DESCRIPTION
A. A factory fabricated fixture (OlyFlow Hercules RetroDrain with Aluminum Dome), installed to replace a drain on an existing roof. The fixture is installed from the roof surface and provides a water-tight connection to the existing plumbing and roofing system. The fixture is designed so that it may be installed without removing the existing drain body and plumbing.

1.04 REFERENCES
A. ANSI/SPRI RD-1 2004
B. CAN/ULC-C790.4-1996

1.05 SUBMITTALS
A. Provide specification and data sheet.
B. Shop Drawings: Show installation layout including sizes and spacing.
C. Verification Samples: Actual samples when required.

1.06 DELIVERY, STORAGE AND HANDLING
A. Deliver materials to project site in manufacturer’s original packaging, marked with manufacturer’s name, product model names and catalog numbers, identification numbers and other related information.
B. Store materials under cover until needed.

Part 2: Products

2.01 MANUFACTURER
A. Acceptable Manufacturer: OMG Roofing Products; 153 Bowles Road, Agawam, Massachusetts 01001. ASD. Tel: (413) 789-0252 • Fax: (413) 789-1069. Web site: www.olyfast.com • Email: info@olyfast.com

2.02 MATERIALS
A. Drain Body:
   1. Manufactured from 11 gauge (.125”) spun aluminum
   2. 17½” diameter flange with a 12’ long stem
   3. Flange includes six, 2½” long, aluminum studs
   4. Depressed sump area
B. Strainer Dome:
   1. Made of cast aluminum
   2. Height – 7.25”
   3. Outside base diameter – 9.77”
C. Clamping Ring:
   1. Made of cast aluminum
   2. Gravel stop height – 1.2”
   3. Drainage slots – 18 “V” shaped
   4. Six bosses to accept studs on flange
D. Backflow Seal (UFlow Seal):
   1. Mechanical compression seal
   2. Made of Polyamid and EPDM rubber
   3. Required for activation – A UFlow Screwdriver
E. Nuts and Screws:
   1. Six stainless steel locknuts for the studs
   2. Three stainless steel screws to attach strainer to clamping ring

2.03 ACCESSORIES
A. UFlow Screwdriver: A 12¼” long shaft with a #2 square socket tip designed to reach the base of the drain stem to activate the backflow seal (UFlow Seal).
B. DrainGuard: A 3’ x 3’ or 4’ x 4’ aluminum fixture, 4” high with drainage slots, adhered to the roof system designed to surround the drain and help prevent blockage of drain strainer.

Part 3: Execution

3.01 PREPARATION
A. Remove the clamping ring, strainer dome and bolts from the existing drain assembly and discard.
B. The existing drain leader pipe shall be cleaned of bitumen, dirt and debris.

3.02 INSTALLATION
A. Install the OlyFlow Hercules RetroDrain with Aluminum Dome into the existing drain leader as per the installation instructions.
B. Install the flashing material into place per primary roofing manufacturer’s recommended detailing.
C. Installation is then complete.

END OF SECTION
Part 1: General

1.01 SECTION INCLUDES
A. Retrofit roof drains

1.02 RELATED SECTIONS
A. Division 15 – Mechanical

1.03 SYSTEM DESCRIPTION
A. A factory fabricated fixture (OlyFlow RAC Deluxe RetroDrain with Aluminum Dome), installed to replace a drain on an existing roof. The fixture is installed from the roof surface and provides a watertight connection to the existing plumbing and roofing system. The fixture is designed so that it may be installed without removing the existing drain body and plumbing.

1.04 REFERENCES
A. ANSI/SPRI RD-1 2004
B. IAPMO PS 97-96

1.05 SUBMITTALS
A. Provide specification and data sheet.
B. Shop Drawings: Show installation layout including sizes and spacing.
C. Verification Samples: Actual samples when required.

1.06 DELIVERY, STORAGE AND HANDLING
A. Deliver materials to project site in manufacturer’s original packaging, marked with manufacturer’s name, product model names and catalog numbers, identification numbers and other related information.
B. Store materials under cover until needed.

Part 2: Products

2.01 MANUFACTURER
A. Acceptable Manufacturer: OMG Roofing Products;
   153 Bowles Road, Agawam, Massachusetts 01001. ASD.
   Tel: (413) 789-0252. • Fax: (413) 789-1069.
   Web site: www.olyfast.com • Email: info@olyfast.com

2.02 MATERIALS
A. Drain Body:
   1. Manufactured from .080” aluminum
   2. 18” x 18” square flange with a 9” long stem
   3. Flange includes six, 1½” long stainless steel studs and 12 pre-punched holes to secure flange to deck
   4. Depressed sump area

B. Strainer Dome:
   1. Manufactured from .080” aluminum
   2. Height – 4”
   3. Diameter – 14”

C. Clamping Ring:
   1. Manufactured from .125” aluminum
   2. Low profile to sit level in sump
   3. Six holes to accept studs on flange
   4. Two, 5¾” tall brackets to secure strainer

D. Backflow Seal (RAC Seal):
   1. Mechanical compression seal
   2. Made of urethane and cast aluminum
   3. Required for activation – A ¾” wrench (by others)

E. Nuts:
   1. Six stainless steel kep nuts for the studs

2.03 ACCESSORIES
A. ¾” wrench (by others): Required to activate the backflow seal (RAC Seal).
B. DrainGuard: A 3’ x 3’ or 4’ x 4’ aluminum fixture, 4” high with drainage slots, adhered to the roof system designed to surround the drain and help prevent blockage of drain strainer.
C. Optional – Clamping ring with vandal proof brackets. Includes vandal proof stainless steel bolts.

Part 3: Execution

3.01 PREPARATION
A. Remove the clamping ring, strainer dome and bolts from the existing drain assembly and discard.
B. The existing drain leader pipe shall be cleaned of bitumen, dirt and debris.

3.02 INSTALLATION
A. Install the OlyFlow RAC Deluxe RetroDrain into the existing drain leader as per the installation instructions.
B. Install the flashing material into place per primary roofing manufacturer’s recommended detailing.
C. Installation is then complete.
**Part 1: General**

1.01 SECTION INCLUDES
A. Rooftop pressure relief vents and breathers for built-up, modified or single-ply roof systems.

1.02 RELATED SECTIONS
A. Section 072000 – Thermal Protection
B. Section 075000 – Membrane Roofing

1.03 SYSTEM DESCRIPTION
A. The rooftop pressure relief vents and breathers (OMG OlyVent) are engineered to prolong the life of the roof system by reducing moisture and trapped air pressure within the roof system.

1.04 SUBMITTALS
A. Provide specification and data sheet.
B. Shop Drawings: Show installation instructions.
C. Verification Samples: Actual samples of each, vent and breather.

1.05 DELIVERY, STORAGE AND HANDLING
A. Deliver materials to project site in manufacturer's original packaging, marked with manufacturer's name, product model names and catalog numbers, identification numbers and other related information.
B. Store materials under cover until needed.

**Part 2: Products**

2.01 MANUFACTURER
A. Acceptable Manufacturer: OMG Roofing Products; 153 Bowles Road, Agawam, Massachusetts 01001. ASD. Tel: (413) 789-0252. Fax: (413) 789-1069. Web site: www.olyfast.com • Email: info@olyfast.com

2.02 MANUFACTURED UNITS
A. One-way Vent:
   - Height: 8”
   - Base Diameter: 11”
   - Stack Diameter at Base: 5”
   - Body Thickness: .051” aluminum
   - One-way Valve Material – Duro Nitrile
   - Vent Hole Quantity: 8
   - Vent Hole Sizes: 1/4” Diameter
   - Cap Diameter: 4”
   - Cap Markings: One-way
   - Cap Thickness: .051” aluminum

B. Two-way Breather:
   - Height: 8”
   - Base Diameter: 11”
   - Stack Diameter at Base: 5”
   - Body Thickness: .051” aluminum
   - Breather Hole Quantity: 8
   - Breather Hole Sizes: 1/2” Diameter
   - Cap Diameter: 4”
   - Cap Markings: Two-way
   - Cap Thickness: .051” aluminum

C. PVC Coated Flange Option
   Heavy duty, heat weldable PVC coating.
   Baked on, four inches wide to entire top of vent base.
   Allows for applicators to directly heat weld to flange creating per manent bond.

D. EPS Insulation Insert Option:
   A foam insert designed to prevent moisture from condensing on inside of vent stem.

**Part 3: Execution**

3.01 PREPARATION
A. OlyVent may be used as a template for cutting flashing felts or membrane by simply placing vent upside down and scribe a mark around vent cap.

3.02 INSTALLATION
A. Cut a 4” diameter opening through membrane and insulating material. Remove membrane and material to vapor barrier or deck.
B. Attach vent to roof deck with appropriate fastener.
C. Flash vents in accordance to manufacturer’s recommendations.

3.03 RECOMMENDATIONS
A. Spacing: 1 every 1,000 square feet.
B. Using Cold Roofing Cement – Apply a thin layer to underside of flange and set vent in position over roof opening. Flash in with two plies of felt over flange to a minimum of 6” onto the deck before final topcoat and surfacing.
C. Using Hot Asphalt or Pitch – Set in a thin mopping of hot asphalt in position over roof opening, followed by two plies of felt flashing over flange to a minimum of 6” onto deck before final top coating and surfacing.
D. CAUTION: Do not apply direct flame of torch to area of vent stack. Excessive heat will damage the one way valve inside of vent.

*END OF SECTION*
Non-penetrating, Small Rooftop Pipe Supports

3-Part Format Specifications
SECTION 07700
Roof and Wall Specialties and Accessories

Part 1: General
1.01 SECTION INCLUDES
A. Rooftop pipe supports for smaller pipes

1.02 RELATED SECTIONS
A. Division 15 – Mechanical
B. Division 16 – Electrical

1.03 SYSTEM DESCRIPTION
A. Support small rooftop pipes with an engineered prefabricated supports (OlyFlow PipeGuard) designed for installation without roof penetrations or other features to damage the roof system. The system shall consist of flexible, black EPDM rubber.

1.04 SUBMITTALS
A. Provide specification and data sheet.
B. Shop Drawings: Show installation layout including sizes and spacing.
C. Verification Samples: Actual samples of each size of support.

1.05 DELIVERY, STORAGE AND HANDLING
A. Deliver materials to project site in manufacturer’s original packaging, marked with manufacturer’s name, product model names and catalog numbers, identification numbers and other related information.
B. Store materials under cover until needed.

Part 2: Products
2.01 MANUFACTURER
A. Acceptable Manufacturer: OMG Roofing Products; 153 Bowles Road, Agawam, Massachusetts 01001. ASD. Tel: (413) 789-0252. Fax: (413) 789-1069. Web site: www.olyfast.com • Email: info@olyfast.com

2.02 MATERIALS
A. PipeGuard – Mini:
1. Smooth EPDM rubber protects roof system from damage due to movement.
2. EPDM rubber for long-term UV stability
3. PipeGuard sits freely on the roof with a pipe support height of 1.50”.
4. Drainage slots prevent pipes from sitting in standing water.
5. Will accommodate pipe sizes 1/2” (.840”) to 2” (2.375”)

B. PipeGuard – Large:
1. Smooth EPDM rubber protects roof system from damage due to movement.
2. EPDM rubber for long-term UV stability
3. PipeGuard sits freely on the roof with a pipe support height of 3.75”.
4. Drainage slots prevent pipes from sitting in standing water.
5. Will accommodate pipe sizes 21/2” (2.875”) to 5” (5.562”)

2.03 ACCESSORIES
A. Riser: A 2” high EPDM rubber slab in a 4” by 6” shape, set freely on the roof with support adhered with bonding adhesive directly to the riser.

Part 3: Execution
3.01 PREPARATION
A. The contractor will confirm the correct size supports has been chosen.

3.02 INSTALLATION
A. Install the supports in accordance to manufacturer’s recommendations
B. Clear roof-surface of loose gravel and ballast in large enough area enabling base to sit flat on roof-surface.
C. Contact roof system manufacturer as to requirements of separator sheet between each support and the installed roof system.
D. Placement recommendations:
1. The following are to be used as minimum recommendations. For specific requirements, the installer should contact the project engineer.
2. For pipe diameters of 2” to 5” – space supports at a distance of 10’ apart.
3. For pipe diameters of 1 1/2” – space supports at a distance of 8’ apart.
4. For pipe diameters less than 1 1/2” – space supports at a distance of 6’ apart.
5. Along with the above noted spacing recommendations, one additional support should be placed at every union and source and along with one at side of junctions.

Part 4: Maintenance
4.01 RECOMMENDATION
A. On a semi-annual basis, a visual inspection of the installed PipeGuards should be made.
B. Inspect for the following:
1. PipeGuard has not disengaged from pipe.
2. PipeGuard sitting flat on the roof surface.
3. Proper placement spacing as outlined in 3.02 - D.
C. Adjust PipeGuards to comply with above noted sections.

END OF SECTION