Description
Sarnadrain with U-Flow® is a prefabricated and seamless heavy-duty aluminum drain unit, featuring a coated flange for direct hot air welding of Sarnafil® membranes.

Composition
- Sarnadrain with U-Flow® consists of one-piece spun, 3.175 mm (11 gauge [0.125 in.]) thick aluminium body, a ~ 445 mm (17.5 in) diameter, thermoplastic coated flange, and a 305 mm (12 in) long drain stem.

Features
- Sarnadrain with U-Flow® is specifically designed for retrofit and replacement roof applications.
- An aluminum strainer dome provides strength and durability (plastic strainers also available), while the extra large flange, with welded metal clips for attachment of the dome, possesses a depressed sump to allow easy drainage of all water from the roof surface.
- An extended vertical drop to the drain stem and the use of a ‘easy-to-install’ U-Flow® seal add flexibility and achieves watertight mechanical connections to existing PVC or cast iron pipes.
- Sarnadrain with U-Flow® is available in a number of diameter sizes to accommodate project requirements.

Packaging/Storage
- Sarnadrain with U-Flow® is packaged individually in a cardboard box.
- Available in 75, 100, and 150 mm (3, 4 and 6 in) diameter sizes.

Installation
The drainage characteristics of the roof and any subsequent necessity for slopes to drain or additional drains must first be determined by the roof designer.

The Sarnafil® roof membrane is installed over the insulation board (when applicable) and a round hole is cut into the Sarnafil® membrane directly over and equal to the existing drain pipe diameter.

Existing leader pipes shall be cleaned of excess bitumen build-up, dirt and debris. Remove any clamping ring assembly and bolts from the existing drain, where present, and discard.

Inspect the existing water leader to ensure that there are no elbows or similar such obstructions that would prevent the Sarnadrain with U-Flow® drain stem from being fully inserted. (Where elbow or obstruction exists see guidance below as to how to shorten the stem.

Insert the U-Flow® seal into the end of the drain stem and tighten screws (using U-Flow® Screwdriver) enough to secure the seal into position during installation.

Insert the assembled Sarnadrain into existing leader pipe (where present) until the flange lies flush onto the Sarnafil® membrane. Alternatively, tighten the seal compression ring screws, again with U-Flow® Screwdriver, until hand tight.

The Sarnadrain with U-Flow® flange is fastened with Sarnafasteners into the roof deck, using a minimum of three fasteners evenly positioned around the flange. For roof decks requiring specialty fasteners, a wood nailer shall be installed and fastened first and the drain flange is then fastened into the wood blocking with 31 mm (1 ¼ in) Sarnafasteners.

Sarnadrain with U-Flow® is properly installed when no vertical movement results when pressure is placed on the drain unit.

A target panel / flashing of Sarnafil® membrane is then hot air welded to the drain flange and the surrounding roof membrane according to Sarnafil®’s detail drawing. Ensure that all membrane and flange surfaces are clean prior to welding.

Once welds have cooled, check with a rounded screwdriver blade.

Install the strainer dome onto the retaining clips and insert nylon push-in fasteners into the appropriate height hole in each of the three retaining clips.
How to Shorten Drain
Where retrofitting or in the presence of an obstruction to the full length of the drain stem, ensure that there is at least 100 mm (4 in) of clear vertical distance in the existing pipe to allow the drain to be fitted. Cut the drain stem to the desired length and insert the U-Flow® seal. Note: A minimum of 62.5 mm (2 1/2 in) of drain stem is required to house the seal. Insert the U-Flow® seal into the cut drain stem and tighten screw seals. Insert fully assembled and seal-fitted drain into the existing water leader and complete the installation as detailed above.

Availability
Sarnadrain with U-Flow® is available directly from Sika Canada Authorized Applicators when used within a Sarnafil® Roofing or Waterproofing System. For more information, contact Sika Canada or visit www.sika.ca.

Warranty
As a Sika Canada-supplied accessory, Sarnadrain with U-Flow® is included in Sika Canada’s Standard or System Warranty. Drain maintenance is not covered by the warranty.

Maintenance
Sarnadrain with U-Flow® requires periodic maintenance. Debris must be removed from the strainer dome and the seal must be periodically checked for tightness by the Owner or the Owner’s designated maintenance representative.

Technical Support
Sika Canada provides technical support. Technical staff is available to advise applicators as to the proper installation method.

Technical Data
<table>
<thead>
<tr>
<th>Stem Size</th>
<th>Outside Diameter of pre-expanded seal</th>
<th>Fit into pipe Inside Diameter</th>
<th>Fully expanded</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 mm (3 in)</td>
<td>71.5 mm (2.86 in)</td>
<td>72 mm (2.88 in)</td>
<td>85 mm (3.40 in)</td>
</tr>
<tr>
<td>100 mm (4 in)</td>
<td>93.5 mm (3.74 in)</td>
<td>94 mm (3.76 in)</td>
<td>110 mm (4.40 in)</td>
</tr>
<tr>
<td>150 mm (6 in)</td>
<td>143.75 mm (5.75 in)</td>
<td>144.25 mm (5.77 in)</td>
<td>160 mm (6.40 in)</td>
</tr>
</tbody>
</table>

Due to manufacturing variances and jobsite inconsistencies, these figures are guidelines and not guaranteed for any specific situations.

U-Flow® is a registered trademark of OMG Inc.

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