TECHNICAL BULLETIN 11-13

TO Roofing Consultants; Authorized Roofing Applicators;
Sika Sarnafil Sales Staff & Sales Representatives;
Sika Sarnafil Regional Technical Staff; Sika Sarnafil Customer Service Staff;
Sika Sarnafil Services Staff; Sika Sarnafil Marketing

CC

FROM Sika Sarnafil Technical Service Department

PAGES

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DRAINS

When drains are properly sumped at no more than 3 inches per 12 inches of run, typically the field sheet or target patch will lay flat in the sump without wrinkling or distorting. When drain sumps are not designed to taper less than 3”/12” typically relief cuts are required in the field sheet or a combination of a target patch and field membrane with overlapping relief cuts is required.

Relief cuts with patches.

Relief cuts should not extend under the drain clamping ring.

Increasingly building codes are requiring ever thicker insulation and specifications are calling for the insulation to be brought right up to the drain bowl at full thickness with very little or no sump. This practice is done to maximize insulation R value and to prevent condensation from building up around the drain bowls. Traditionally the insulation around the drains has been sumped with tapered insulation resulting in lower R values around the drain. The photo below shows a drain with 3” insulation shaved only slightly creating a very steep step off.

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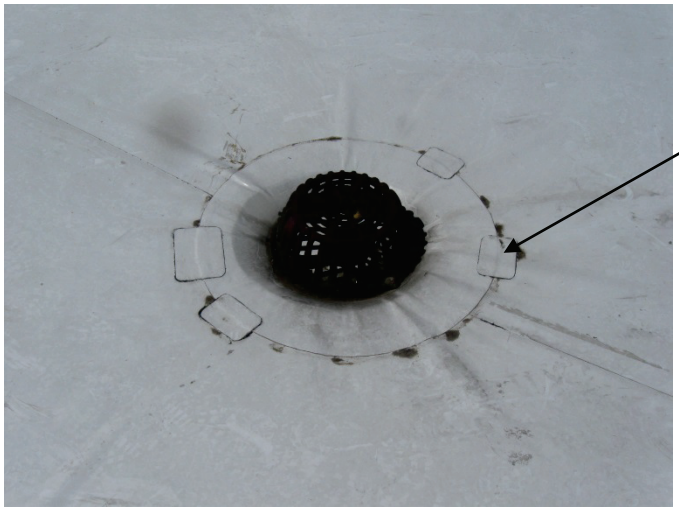
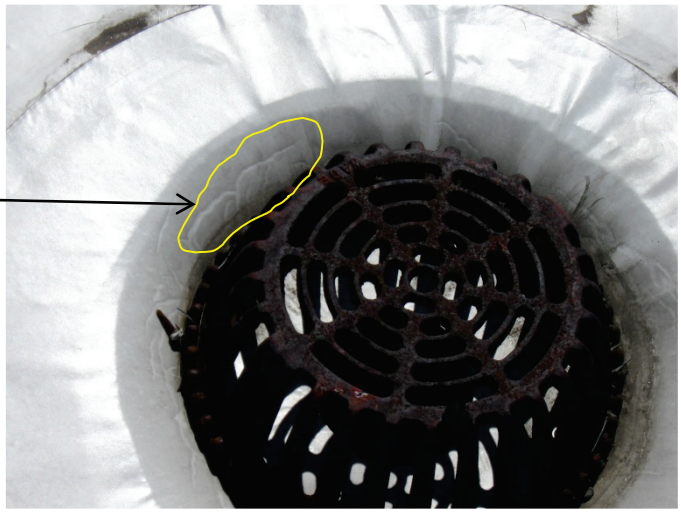


Repairs required at the outer edge of the target patch due to wrinkling of the membrane at this steep transition.

It is impossible for reinforced single ply membranes to make this steep transition without over stretching and distorting the membrane, which ultimately lends to damage of the membrane.

The membrane has been over stretched resulting in splits.



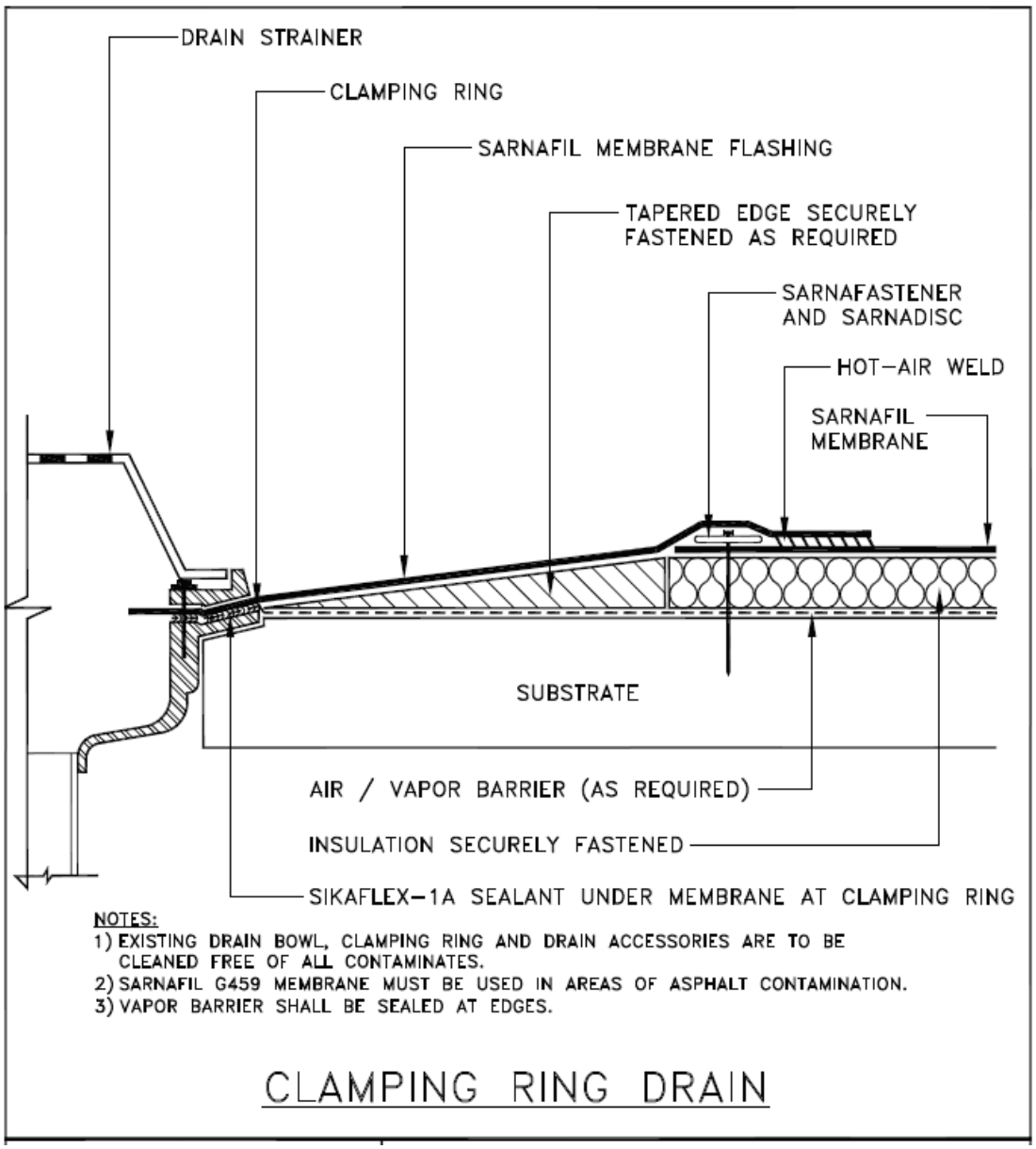
When specifications or codes require that a roof be built this way, the drains must be either:

1) **Raised to the height of the insulation to create a smooth transition for the membrane. Or**
2) **Be fitted with a retrofit Sarnadrain with Uflow to meet the height of the insulation.**

*When options 1 or 2 are not utilized, and relief cuts are made in the drain, all wrinkles and visible distortion of the membrane will need to be repaired before a warranty can be issued.

Drain Sealant

To complete the drain installation, Sikaflex 1A is required to be applied between the membrane and the drain bowl flange. Typically a minimum of one tube of Sikaflex 1A is required to provide a proper seal when the clamping ring is bolted into place. **Sealants other than Sikaflex 1A may not be compatible with Sika Sarnafil membranes and may not be used in a drain installation without Sika Sarnafil's written acceptance prior to the installation.**



Please call Sika Sarnafil's technical department if there are further questions on drain installations.