



Z100 FLOFORCE™ IMPROPER ROOF MEMBRANE INSTALLATION

Proper roof drain installation is critical to the effects of how a roof drain performs. Specifically, the way the membrane is cut out to leave access to the interior drain body plays a critical role in how the water enters and flows through the drain. An improperly cut membrane can have phenomenal effects on the flow performance of a drainage system.

One common practice during the install of a roofing system is to cut a smaller temporary hole within the membrane, usually the same size as the drainage pipe, and continue the drain install accordingly. When the membrane and drain seal are clamped properly, the installer will sometimes leave the hole in the membrane as it is, with the intention of coming back later to finish cutting the membrane out. This step can oftentimes be forgotten, leaving an improper hole size in the membrane; the effects are devastating to flow performance of the drain.



The flow graphs below represent a flow comparison between a properly and improperly cut roof membrane applied to a Z100 FloForce™ drain. The comparisons were conducted utilizing a 4" No-hub and an 8" No-Hub drain outlet. To simulate an improperly cut membrane, a 4" hole was cut into the membrane of the 4" drain sample and flow tested. Likewise, an 8" hole was cut into the membrane of the 8" drain sample and flow tested. The graphs display flow rate of the drain vs. ponding depth of water around the drain, utilizing a 4-ft Sch. 40 PVC vertical outlet drain pipe attached.

