

**Subject:** Retrofit Storm Water Drain Sizing


This technical advisory is established as an "Awareness Only" notification of the need to recalculate the capacity of a roof's storm water drainage system when using retrofit drains.

Retrofit drains have stems that are inserted into the existing drain piping, thereby reducing the effective drain diameter. This reduction could result in the overall drainage capacity of the roof drain system falling below the required flow capacity per Section 1106, FBC-Plumbing.

ANSI/SPRI RD-1 2009 Performance Standard for Retrofit Drains is an industry recognized standard that provides guidance on the proper installation and sizing of retrofit drains (although this standard is not specifically referenced in the Florida Building Code, it does provide direction on the use of these products, which are also not specifically addressed in the Code). The standard emphasizes the importance of proper sizing and provides simplified methods of ensuring the reduced drain inlet diameter is taken into account when calculating the capacity of the storm water drainage system. It also states that a design professional should be consulted when more drain capacity is needed, as well as acknowledging that locally adopted codes take precedence when more stringent.

The BCAB recommends the need to recalculate the capacity of a roof storm water drainage system when using retrofit drains.

For Building Code Advisory Board



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Jacek Tomasik, Chair