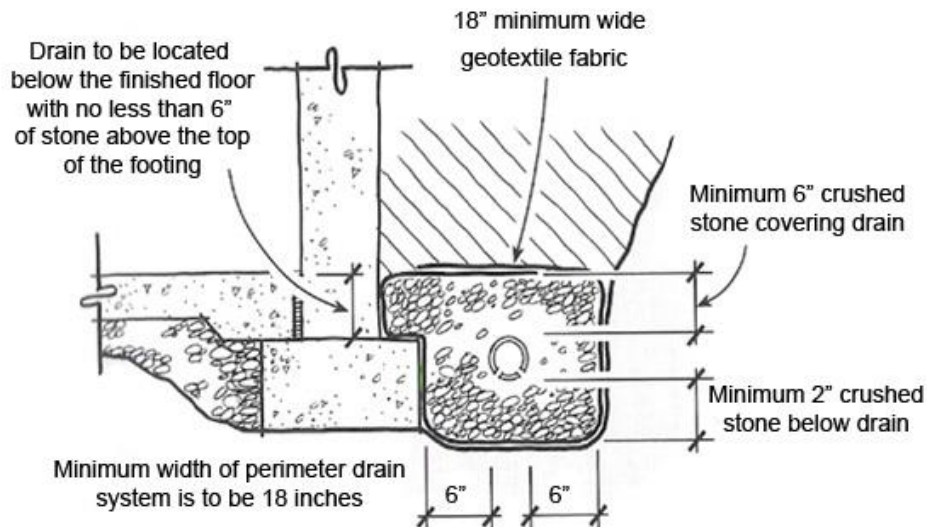


STANDARD DESIGN BULLETIN #2018-1

RESIDENTIAL FOUNDATION DRAINAGE SYSTEMS

This standard design bulletin is written to supplement and clarify the foundation drainage requirements of the International Residential Code.

- A. Drain system crushed stone shall be approved clean crushed stone or approved clean gravel (2B or AASHTO #57).
- B. The drain system is to extend no less than 18" beyond the outside of the foundation wall.
- C. An 18" wide "approved filter membrane" is to be placed over the exterior perimeter drainage system. **Polypropylene and polyester fiber geotextile fabrics with a flow rate between 110-330 gpm/sq. ft. when tested in accordance to ASTM D 4491 are "approved filter membranes"** (straw, tobacco paper, silt fence and building papers are not approved filter membranes).
- D. Perimeter foundation drainage systems are to discharge by gravity or mechanical means (sump pump) to grade at least 5 feet beyond the exterior foundation wall and discharge in a manner that does not create a nuisance on the adjacent property(s), but no closer than 10 feet from the street right-of-way.
- E. Sump pits shall be covered with a gasketed or otherwise sealed lid and when used as a floor drain shall be equipped with a trapped inlet.
- F. PVC piping used as sump discharge piping is to be pressure piping with pressure rated fittings. (no cellular core PVC)
- G. Form-A-Drain or equivalent systems are approved for installation.
- H. Drain systems shall be installed completely and ready for pre-backfill inspection.



* This Standard Design Bulletin replaces Standard Design Bulletin #2003-1

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Andrew S. Bowman, Director of Code Compliance

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