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Requirements for residential storm sumps

SUBJECT: *Piping choices for pump discharge.*

This bulletin has been jointly developed by Safety Services and the Plumbing Technical Council to inform the plumbing industry of the minimum requirements associated with the installation of “single-family and duplex” **residential storm sumps that are connected to storm drainage systems.**

Designers, Contractors and Safety Codes Officers are reminded that sump pumps that are interconnected with storm drainage systems require the piping meets the requirements of the NPC. This is to reduce the probability that storm water will expose the public to an unacceptable health risk. The design and installation of *pump discharge* shall be located to accommodate protection of the storm drainage system in accordance with the current **National Plumbing Code of Canada (NPC)** as adopted by the **Plumbing Code Regulation (AR119/2007)**.

Single-family and duplex residential storm sumps may be connected to storm drainage systems with the conditions identified below;

- ABS and PVC - DWV piping as certified to CAN/CSA-B182.1-02.
- Rigid polyvinyl chloride pipe for pressure applications as identified to CAN/CSA-B137.3-02.
- Other piping such as garden hoses are not acceptable as these hoses are not tested to CSA standards for this use.
- Certified flexible adapters that meet or exceed requirements of the piping will be considered acceptable.
- Adhesives and cements shall be approved for the respective application including transitions.
- Piping shall be sized to ensure allowance for minimum required pump flows.

Storm drainage systems;

- Shall not require pressures in excess of the rating of the piping used that carries the residential storm water from the pump to the transition/termination.

Note: this information is not intended to address sanitary, combined, or commercial applications.