

4717.2590 OVERFLOW GUTTERS.

Subpart 1. **General.** Overflow gutters must extend completely around the pool except at steps or recessed ladders.

- A. The overflow gutter must also serve as a handhold.
- B. The gutter must continuously remove 50 percent or more of the recirculated water and return it to the filter.
- C. Pools with overflow gutters must be provided with surge capacity.
- D. The gutters, drains, and return piping must be sized to remove overflow water caused by recirculation, displacement, wave action, or other cause produced from maximum pool user load.
- E. Drain outlets must not be more than 15 feet apart.
- F. The opening into the gutter beneath the coping must not be less than four inches wide. The interior of the gutter must not be less than three inches wide with a depth of at least three inches.
- G. Gutters must be designed to prevent the entrance of or entrapment of a user's arms or legs.
- H. The overflow edge or lip must be rounded and no thicker than 2-1/2 inches for the top two inches.
- I. Overflow outlets must have outlet pipes at least two inches in diameter.
- J. Outlet fittings must have a clear opening in the grating at least equal to 1-1/2 times the cross sectional area of the outlet pipe.
- K. New overflow gutter system installations must include automatic water level control to provide automatic and continuous skimming during quiescence.

Subp. 2. **Surge systems and surge capacity.** An in-pool surge system may be used only if it is part of an engineered and manufactured gutter system that has surge weirs which provide effective skimming during quiescence.

- A. In-pool surge weirs must be self-closing during normal pool use.
- B. The total surge capacity of the system must be at least one gallon per square foot of water surface.
- C. If some of the surge capacity is within the gutter system, the system must be able to carry 50 percent of the recirculation flow while maintaining the surge capacity.

Subp. 3. **Rollout and deck systems.** Nothing in this part precludes the use of a rollout overflow system or deck level system if proper surge capacity is provided as specified in subpart 2.

Statutory Authority: *MS s 144.05; 144.12; 144.123; 145A.02; 157.01*

History: *19 SR 1419; 19 SR 1637*

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