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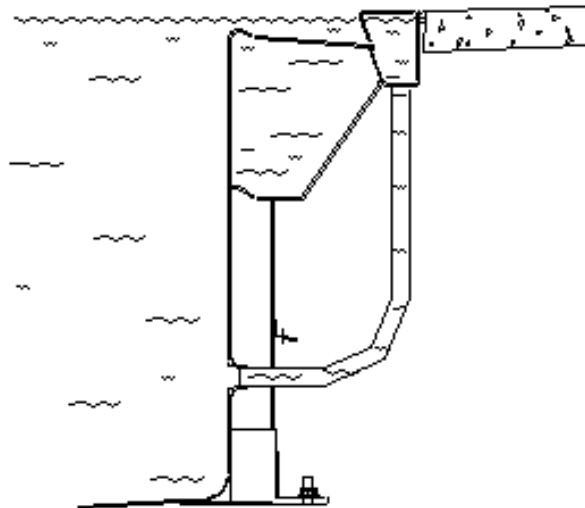
### **LEAK TESTING THE CHESTER ALUMINUM SWIMMING POOL (WATER IN POOL)**

The intent of this procedure is to allow the pool to lose water under control in order to find a source of leakage through the process of elimination.

A. The probable causes of water loss are: overflow gutter and/or piping to and from the filter, recirculation extrusion and piping, pool lighting conduits and fixtures, main drain line, hydro caps, pool filter tank, by-pass valves, and holes or structural cracks in the main pool tank.

Step 1 - Close all waste or by-pass to waste drain valves.

Step 2 - Flood the pool and filter with water to approximately 1/2" over the bullnose. Shut off main pump, and close all pool valves.



Step 3 - Mark water level in pool and filter and monitor for 24 hours.

Step 4 - Check water level in pool. If level has dropped below bullnose in main pool, the overflow gutter has been eliminated as a cause. If level drops below the bullnose and stops water loss, the overflow gutter, or line to filter is the source.

- Step 5 - Check water level in filter. If this is down, possible leakage in pool filter drain stopper or tank is the source.**
- Step 6 - Lower the water level to 1" above the light fixtures (if applicable, if no lighting proceed to Step 8).**
- Step 7 - Mark level and monitor for 24 hours. If water drops to level of light fixtures and ceases, the fixture and/or conduit is the possible source of leaks.**
- Step 8 - Should the pool continue to leak, drain the pool to approximately 3' of remaining level and mark. Monitor for 24 hours.**
- Step 9 - If water loss continues, the leak is in the main drain, or the hydro relief caps (if applicable). At this point, a static test should be performed on the main drain.**

**Drain pool, clean and re-install the hydro cap. Fill pool with approximately 3' of water and mark. If water loss continues, the main drain line is likely the source of water loss.**

**NOTE: Chester has many highly modified pool systems in service. This procedure is to find a general area of concern. Exact leak detection must be performed during a full pressure test (the pool must be drained). Contact Chester for details.**

**This information is offered as a free service to aluminum pool owners. Chester assumes no liabilities for the use or misuse of these procedures.**