

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

MATERIAL AND PROPERTY STANDARD

FOR

CLARIFIERS

IAPMO PS 80-2007

1. PURPOSE

- 1.1** The purpose of this standard is to establish specifications regarding the construction of clarifiers. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding design, materials, and the installation; and to provide for identifying clarifiers that conform to this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material, provided any such alternate meets or exceeds the intent of this standard.

2. SCOPE

- 2.1** Clarifiers may be specific in task or function and shall be designed to separate liquids and or solids having different specific gravities than water. It is recommended that a sample box be located at the outlet end of all grease interceptors so that the administrative authority can periodically sample effluent quality.

3. DIMENSION AND TOLERANCE REQUIREMENTS

- 3.1** Drawings shall be complete and shall show all dimensions, capacities, reinforcing and structural design calculations.
- 3.2** Clarifiers shall have a minimum of three compartments. The outlet compartment shall have a minimum capacity of not less than one-third (1/3) of the total required interceptor capacity. The liquid depth shall not be less than (0.8 m) (2' 6") nor more than 1.8 m (6').
- 3.3** All clarifiers shall have a minimum of 0.09 m^2 (1 sq. ft.) of free surface area of liquid for every 170 liters (45 gal) of liquid capacity.
- 3.4** Access to each clarifiers shall be provided by a manhole over the inlet and a manhole over the outlet. There shall also be an access manhole for each compartment. Each such access opening shall have a lid that cannot slide, rotate or flip, exposing the opening when properly installed and which does not require the use of mechanical fasteners.

Manholes shall extend to grade, have a minimum size of 0.5 m (20") diameter or 0.5 x 0.5 m (20" x 20") square.