

City of Brighton Utilities Department

Sand-oil Separator Sizing Criteria

The design, sizing and installation of sand-oil separators shall be in accordance with the City's adopted plumbing codes, City of Brighton Standard and Specification Manual, and per manufacturer's installation instructions.

Plumbing Permit - Submittal Requirements

1. Calculations (IPC Code 2006) and/or City of Brighton Sizing Sheet
2. Isometric plan showing all fixtures/floor drains connected to the sand-oil separator
3. Plan and profile of the Sand-oil Separator showing ground level and the tank (if the tank is installed below 4', an additional MH is required)
4. Plumbing plan of the building
5. Manufacturer's detail drawing

Formula:

Sand-oil separator capacity = (Process floor space) / (Use category floor space) x 7.481 (gal. of water)

The varying use categories are outlined below:

Floor Space	Use Categories
15 square feet	<ul style="list-style-type: none"> • Steam cleaning, • Truck wash, • Heavy equipment wash, • Automatic car wash (car moved by chain)
50 square feet	Automatic car wash (machine moves around car)
75 square feet	<ul style="list-style-type: none"> • Car wash (hand held spray) • Automotive service garage
100 square feet	<ul style="list-style-type: none"> • Machine Shop • Storage Areas (auto/boat/airplane storage)
250 square feet	Paint spray booths
300 square feet	Printers
2,000 square feet	Parking garages (where floors are washed)
3,000 square feet	Parking garages (where tenant cars are washed)
4,000 square feet	Parking garages (no water outlets, except for fire sprinklers)

Per Municipal Code **Sec. 13-12-210. 7.d**, all sand-oil separators shall have at least two (2) compartments and a minimum capacity of at least three hundred (300) gallons. The maximum individual separator size shall be two thousand five hundred (2,500) gallons. If the calculated capacity exceeds two thousand five hundred (2,500) gallons, then multiple units plumbed in series shall be installed.

For office use only

City of Brighton - Utilities Department Approval: Yes/No

Date: _____

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(*) Building Department and Utilities Department will review this application