



No: 2007 OESC, Section 2.2.2.5

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Code Edition: ASME A17.1 2007

Date: March 8, 2011

Subject: Elevator pit drains or sump pump capacity

Question(s): How do you size the pit drain or sump pump to meet the capacity to remove a minimum of 3,000 gallons per hour?

Answer(s): Sizing of drains and sump pumps shall comply with the applicable plumbing code per Section 2.2.2.4. Sizing should be in compliance with the 2011 Oregon Plumbing Specialty Code (OPSC).

Analysis: To meet the new elevator code requirement of a capacity to remove a minimum of 3,000 gallons per hour or 50 gallons per minute, under the OPSC, requires a gravity drain of a minimum 4 inch at ¼ inch per foot grade. Pumped discharge pipes may be smaller in diameter and depend upon the pumps rated discharge and head loss. However, the receiving gravity drain line must be sized based upon 2 fixture units per gallon per minute. This makes the minimum receiving drain size 4". Dual pumps and oil/water separators are not required by the OPSC.

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