

DISTANCE FROM SOURCE OF POLLUTION—
Continued

Source of pollution	Minimum horizontal distance (feet)
Other	(²)

¹This clearance may be increased or decreased depending upon soil and rock penetrated by the well and aquifer conditions. The clearance may be increased in creviced limestone and permeable strata of gravel and sand. The clearance may be reduced to 50 ft. only where the ground surface is effectively separated from the water bearing formation by an extensive, continuous and impervious strata of clay, hardpan, or rock. The well shall be constructed so as to prevent the entrance of surface water and contaminants.

²The recommendations or requirements of the local health authority shall apply.

³This clearance may be reduced to 15 feet only where the ground surface is effectively separated from the water bearing formation by an extensive, continuous and impervious strata of clay, hardpan, or rock.

(4) *Well construction.* (i) The well shall be constructed so as to allow the pump to be easily placed and to function properly.

(ii)(A) All drilled wells shall be provided with a sound, durable and watertight casing capable of sustaining the loads imposed.

(B) The casing shall extend from a point several feet below the water level at drawdown or from an impervious strata above the water level to 12 in. above either the ground surface or the pump room floor. The casing shall be sealed at the upper opening to a depth of at least 15 feet.

(iii) Bored wells shall be lined with concrete, vitrified clay or equivalent materials.

(iv) The space between the casing or liner and the wall of the well hole shall be sealed with cement grout.

(v) The well casing shall not be used to convey water except under positive pressure. A separate drop pipe shall be used for the suction line.

(vi) When sand or silt is encountered in the water-bearing formation, the well shall either be compacted and gravel packed, or a removable strainer or screen shall be installed.

(vii) The surface of the ground above and around the well shall be compacted and graded to drain surface water away from the well.

(viii) Openings in the casing, cap, or concrete cover for the entrance of pipes, pumps or manholes shall be watertight.

(ix) If a breather is provided, it shall extend above the highest level to which surface water may rise. The breather

shall be watertight, and the open end shall be screened and positioned to prevent entry of dust, insects and foreign objects.

(5) *Pump and equipment.* (i) Pumps shall be capable of delivering the volume of water required under normal operating pressure within the living unit. Pump capacity shall not exceed the output of the well.

(ii) Pumps and equipment shall be mounted to be free of objectionable noises, vibrations, flooding, pollution, and freezing.

(iii) Suction lines shall terminate below maximum drawdown of the water level in the well.

(iv) Horizontal segments of suction line shall be placed below the frost line in a sealed casing pipe or in at least 4 in. of concrete. The distance from suction line to sources of pollution shall be not less than shown in the table at paragraph (f)(3)(iv) of this section.

(6) *Storage tanks.* (i) A pressure tank having a minimum capacity of 42 gallons shall be provided. However, prepressured tanks and other pressurizing devices are acceptable provided that delivery between pump cycles equals or exceeds that of a 42 gallon tank.

(ii) Tanks shall be equipped with a clean-out plug at the lowest point, and a suitable pressure relief valve.

(Approved by the Office of Management and Budget under control number 2502-0474)

[50 FR 39594, Sept. 27, 1985, as amended at 53 FR 11271, Apr. 6, 1988; 56 FR 5350, Feb. 11, 1991; 57 FR 9609, Mar. 19, 1992; 57 FR 27927, June 23, 1992; 58 FR 41337, Aug. 3, 1993; 58 FR 60249, Nov. 15, 1993; 59 FR 19112, Apr. 21, 1994; 62 FR 30225, June 2, 1997; 64 FR 56110, Oct. 15, 1999]

§ 200.926e Supplemental information for use with the CABO One and Two Family Dwelling Code.

The following shall be used in Table No. R-202, Climatic and Geographic Design Criteria of the CABO One and Two Family Dwelling Code.

(a) *Roof live loads.*

Roof slope 3 in 12 or less: 20 psf
Roof slope over 3 in 12: 15 psf
Roof used as deck: 40 psf

(b) *Roof snow load.* The roof snow load shall be in accordance with section 7 of ASCE 7-88.

(c) *Wind pressures.* The minimum Design Wind Pressures (net pressures) set forth below apply to areas designated as experiencing basic wind speeds up to and including 80 mph, as shown in ASCE 7-88, Figure 1, Basic Wind Speed Map. These pressures also apply to buildings not over 30 ft. in height above finish grade, assuming exposure C or defined in ASCE 7-88.

(1) *Minimum design wind pressure criteria.* (i) Buildings (for overturning racking or sliding); $p=20$ psf.

(ii) Chimneys, $p=30$ psf.

(iii) Exterior walls, $p=15$ psf inward or outward. Local pressure at corners of walls shall be not less than $p=30$ psf outward. These local pressures shall not be included with the design pressure when computing overall loads. The pressures shall be applied perpendicularly outward on strips of width equal to 10 percent of the least width of building.

(iv) Partitions, $p=10$ psf.

(v) Windows, $p=20$ psf inward or outward.

(vi) Roof, $p=20$ psf inward or outward. Roofs with slopes greater than 6 in 12 shall be designed to withstand pressures acting inward normal to the surface, equal to the design wind pressure for exterior walls. Overhanging eaves, cornices, and ridges, 40 psf upward normal to roof surface. These local pressures shall not be included with the design pressure when computing overall loads. The pressures shall be applied perpendicularly outward on strips of width equal to 10 percent of the least width of building. Net uplift on horizontal projection of roof shall not be less than 12 psf.

(2) *Severe wind design pressures.* If the construction is higher than 30 ft., or if it is located in an area experiencing wind speeds greater than 80 mph, higher design wind pressures than shown above are required. Use Section 6 of ASCE 7-88 for higher criteria and for determining where wind speeds greater than 80 mph occur. Pressures are assumed to act horizontally on the gross area of the vertical projection of the structure except as noted for roof design.

(d) Seismic conditions shall be in accordance with Section 9 of ASCE 7-88.

(e) *Subject to damage from: weathering.* A jurisdiction's weathering region shall be as established by the map in ASTM C 62-83.

(f) *Subject to damage from: frost line depth.* Exterior wall footings or foundation walls including those of accessory buildings shall extend a minimum of 6 in. below the finished grade and, where applicable, the prevailing frost line.

(g) *Subject to damage from: termites.* "Yes" shall be used in locations designated as Regions I, II or III. "No" shall be used in locations designated as Region IV. The map for Termite Infestation Probability in appendix A of CABO, One and Two Family Dwelling Code shall be used to determine the jurisdiction's region.

(h) *Subject to damage from: decay.* "Yes" shall be used in locations designated as moderate to severe and slight to moderate. "No" shall be used in locations designated as none to slight. The Decay Probability map in appendix A of CABO, One and Two Family Dwelling Code shall be used to determine the jurisdiction's decay designation.

(Approved by the Office of Management and Budget under control number 2502-0338)

[50 FR 39599, Sept. 27, 1985, as amended at 59 FR 36695, July 19, 1994]

§ 200.927 Incorporation by reference of minimum property standards.

The Minimum Property Standards as contained in the handbooks identified in § 200.929(b) are incorporated by reference into this section as though set forth in full in accordance with 5 U.S.C. 552(a) and 1 CFR part 51.

[50 FR 39592, Sept. 29, 1985]

§ 200.929 Description and identification of minimum property standards.

(a) *Description.* The Minimum Property Standards describe physical standards for housing. They are intended to provide a sound basis for determining the acceptability of housing built under the HUD mortgage insurance and low-rent public housing programs. The Minimum Property Standards refer to material standards developed by industry and accepted by HUD. In addition,