

# Appendix 4-8

## Floodproofing Standards

Available Flood Data	Minimum Standards for the Community
<p>A. No or little flood data (i.e., no Flood Boundary Maps, no water surface elevations, and no floodway or coastal high hazard area delineations). Basically no FEMA flood maps.</p>	<p>The community must (for all new and substantially improved construction within a flood prone area):</p> <ul style="list-style-type: none"> <li>(1) Be constructed with materials and utility equipment resistant to flood damage;</li> <li>(2) Be constructed by methods and practices that minimize flood damage;</li> <li>(3) Require new and replacement water system utilities designed to minimize or eliminate the infiltration of flood waters;</li> <li>(4) Require new and replacement sanitary sewage systems designed to minimize or eliminate the infiltration of floodwaters and discharges from the systems floodwaters; and</li> <li>(5) Require on site waste disposal systems to be located to avoid impairment to them or contamination from them during flooding.</li> </ul>
<p>B. Flood Hazard Boundary Maps available but no surface water elevation data or data sufficient to identify the floodway.</p>	<p>The community must:</p> <ul style="list-style-type: none"> <li>(1) Meet the requirements for an area with no or little flood data (see requirements above) for development within Zone A on the community's FHBM;</li> <li>(2) For all new or substantially improved nonresidential structures with the lowest floor elevated below the base flood level;</li> <li>(3) Require a signed and dated FEMA Flood Proofing Certificate that contains the elevation to which the structure was floodproofed and maintain the information with the official designated by the community.</li> </ul>
<p>C. Flood Insurance Rate Maps available and water surface elevation for the 100-year flood but insufficient data to identify the floodway or coastal high hazard area.</p>	<p>The community must (<i>within all AI-30 zones, AE zones, unnumbered A zones and AO zones on the community's FIRM</i>):</p> <ul style="list-style-type: none"> <li>(1) Meet the requirements for an area with Flood Hazard Boundary Maps (see requirements above);</li> <li>(2) Require that if not elevated to or above the base flood level then all new and substantially improved nonresidential structures along with attendant utility and sanitary facilities be designed so that below the base flood level the structure is watertight with:</li> </ul>

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	<p>a. Walls substantially impermeable to the passage of water; and</p> <p>b. Structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy.</p> <p>3) Require where floodproofing is used. Then a registered professional engineer or architect shall certify that the floodproofing methods are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces, and other factors associated with the base flood, and a record of such certificates indicating the specific elevation to which such structures are floodproofed shall be maintained with the official designated by the community.</p>
<p>D. Flood Insurance Rate Maps with water surface elevations for the 100 year flood and floodway data available.</p>	<p>The community must (within all AI-30 zones, AE zones, unnumbered zones, AO zones, and A99 zones on the community's FIRM):</p> <p>(1) Meet the requirements for an area with Flood Hazard Boundary Maps (see requirements above) and an area with Flood Insurance Rate Maps but no floodway (see requirements above.)</p>

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