

Residential Fence Design Requirements

Fences that require approvals:

The Residential Code of Ohio (RCO), Section 102.10(2) requires that all fences 7' or more in height and amendment D.C.602 of the Delaware County Code requires that all fences that are part of a pool enclosure be regulated.

Information required for approval:

Zoning from the Township if applicable.

Plot plan showing location of proposed fence on property.

Construction drawings showing section of fence, post spacing, fasteners and design to resist wind loads.

Fences act as a sail in the wind, thus the major design hurdle is wind loads. The RCO gives information on how to prescriptively resist wind loads with major shear walls; this however does not apply to fences. when the prescriptive requirements of the RCO cannot be meet, the code reverts to accepted engineering practice or designs from a Design Professional.

In order to help the citizens of Delaware County in constructing fences up to 10' 0" in height the following prescriptive requirements can be utilized as accepted engineering practice.

Fence Height (ft)	Post Spacing
Less than 7'0"	Not Regulated (unless pool enclosure)
7'0" up to 10'0"	Min. 6"x 6" column post spacing at 8' o/c max. / or Design *
10'1" or above	Design Required *

Design wind Load: 115 mph

Post Depth: 36" minimum

Hole diameter: 10" minimum

Post Size: 6" x 6" ACQ

Post to be set in concrete to within 12"
of surface

* Sealed construction drawings from registered design professional

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