

Concrete Shear Wall Design Guide

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 The design methodology for concrete shear walls in 1963 ACI code (ACI 318, 1963) is based on working stress design; however, an ultimate strength design approach was also introduced. Chapter 22 of this code required a minimum thickness of 6 in. (150 mm) for walls up to two storeys in height.
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 ACI 9.3.4 (21.2.4) For structures that rely on special reinforced concrete structural walls to resist earthquake force effects, E_f for shear for any structural member that is designed to resist E is to be 0.6 if the nominal shear strength of the member is less than $0.6V_n$.
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 Wall is a program for the analysis and design of reinforced concrete shear walls, tilt-up walls, precast wall and insulate concrete form (ICF) walls.
 · Wall geometry (including any number of openings and stiffeners)
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 Mike O'Shea, P.E. This session is not intended to teach concrete design, but more of an awareness of why things are the way they are ...
 SHEAR STRENGTH AT WALL BASE HAS BEEN REDUCED BY ABOUT 14%. Strength reduced from 136.7 to 116.8 in-kips.
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 If $l < 12$, the wall is short and if $l > 12$, the wall is slender.
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 2. To demonstrate the design and detailing of wall boundary zones. The design example assumes that design lateral forces have already been determined for the structure and
 Design Example 1 Reinforced Concrete Wall
 Seismic Design of Cast-in-Place Concrete Special Structural Walls and Coupling Beams: A Guide for Practicing Engineers
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 Special Reinforced Concrete Structural Walls
 a guideline for the design of single- and multi-unit residential structures using insulating concrete form (ICF) wall systems. The objective of this design guide is to employ the technology efficiently by assisting designers, code officials, and others with limited exposure to concrete design.
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