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Guide

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guidance on design of shear walls in buildings that utilize cold-formed steel framing members. AISI believes that the information contained in this publication substantially represents industry practice and related scientific and technical information, but the information is not intended to

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A shear wall is simply a cantilevered diaphragm to which load is applied at the top of the wall, and is transmitted out along the bottom of the wall. This creates a potential for overturning which must be accounted for, and any over- turning force is typically resisted by hold-

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downs or tie-downs, at each end of the shear element.

Design/Construction Guide: Diaphragms and Shear Walls

Detailed shear wall component design is performed for several examples. This design guide updates and replaces the Cold-Formed Steel Engineers

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Institute (CFSEI)

publication titled:

“ Cold-Formed Steel
Framed Wood Panel or
Steel Sheet Sheathed
Shear Wall
Assemblies. ”

Cold-Formed Steel
Shear Wall Design
Guide - 2019 Edition ...
Design of concrete wall
piers for shear (Chapter
2). Design of concrete

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wall piers for boundary zone (Chapter 2).

Design of concrete shear wall spandrels for flexure (Chapter 3).

Design of concrete wall spandrels for shear (Chapter 3). 1 - 1 .

Shear Wall Design
Eurocode 2-2004.

Shear Wall Design
Manual - CSI
Documents

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Concrete Shear Walls
Shear Design of Special
Shear Walls $V_u \leq \phi V_n$
ACI 9.3.4 (21.2.4) For
structures that rely on
special reinforced
concrete structural walls
to resist earthquake
force effects E , ϕ 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

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is less ...

IT4 Shear Wall Design
The Shear Wall Design Guide provides insight on the latest code provisions, guidance for shear wall and shear wall component design, and addresses design and detailing requirements for wind and seismic forces, including the special

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detailing required in
high-seismic areas.

New cold-formed steel
shear wall design guide
| Civil ...

more rationally address
shear wall design in high
seismic regions. 2. Shear

Wall Design Data

Tables 1, 2, and 3 give
nominal (ultimate)

strengths for the design
of shear walls with cold-

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formed steel framing. As indicated, some of the values have been approved by national codes while more recent values are proposed for inclusion. The approved

Cold-Formed Steel
Shear Wall Design -
PDHonline.com
AWC's 2015 Special
Design Provisions for
Wind and Seismic

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(SDPWS) typically result in more efficient designs
This 4 typically result in more efficient designs.
This course will outline several resources available for shear wall design and compare design results.

Shear Wall Design
Examples per 2015
WFCM and 2015
SDPWS ...

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A shear wall, however, is a vertical, cantilevered diaphragm. These construction systems can be used when designing a building for lateral loads, such as those generated by wind or earthquakes.

Shear Walls &
Diaphragms - APA –
The Engineered Wood

...

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Cold-Formed Steel "L"
Header Field Guide. [
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WALLS with Steel. [
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& Diaphragms. Design
Examples for the Design
of Profiled Steel
Diaphragm Panels
Based on AISI S310-13,
2014 Edition [
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Wood or Steel Sheathed
Shear Wall Assemblies.
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Shear Walls The
engineered version of
wall bracing is a shear
wall. Shear walls are
designed by an engineer
to resist the specific
forces determined by
engineering analysis.

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Shear walls have specific design values depending on their construction, fastener spacing, fastener size, sheathing thickness and framing species.

Engineered Wood
Construction Guide -
Build GP
DESIGN AS A
RETAINING WALL.
Foundation drainage

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Waterproofing Filter fabric. Addition on back of house Sliding and drifting snow Potential surcharge on existing foundation wall. Adding a shed dormer. ... •

“ Design/Construction Guide – Diaphragms and Shear Walls ” ,
APA – The

Structural Design for
Residential

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Construction ...

The legacy Strong-Wall shearwall can be installed around window and door openings, on garage wing walls, interior walls or any other locations where increased lateral resistance is required. Strong-Wall shearwalls can reduce the amount of wall space required for shearwalls, allowing

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for more windows and
doors in house designs.

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WASHINGTON, D.C.

– The American Iron
and Steel Institute

(AISI) has released Cold-
Formed Steel Shear

Wall Design Guide,

2019 Edition (AISI

D113-19), which

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provides discussion and design examples of steel sheet and wood structural panel sheathed, cold-formed steel framed shear wall assemblies used to resist wind and seismic forces.

AISI Releases Cold-Formed Steel Shear Wall Design Guide ...
Seismic Design of Cast-in-Place Concrete

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Special Structural Walls and Coupling Beams: A Guide for Practicing Engineers more gravity loads, as in Wall e in Figure 2-2a, even though this reduces plan torsion resistance. Too much axial force can result in undesirable compression-controlled flexural response.

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in-Place Concrete
Special ...

The design and detailing requirements for special reinforced concrete shear walls have undergone significant changes from ACI 318-11 to ACI 318-14. The changes are a result of the unsatisfactory performance of many shear walls in the Chile

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earthquake of 2010 and the Christchurch, New Zealand earthquake of 2011.

STRUCTURE

magazine | Special
Reinforced Concrete
Shear Walls

Lateral resisting elements are required in all buildings, but in light-frame construction, shear walls tend to be

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the most economical method for transferring loads imposed by wind and earthquakes. The Shear Wall Design Guide addresses all levels of wind and seismic resistance, including the special detailing required in high-seismic areas.

Design Guide: Cold-
Formed Steel Framed

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Wood Panel or Steel ...

This is a video lecture
on detailed design
procedure of shear wall.

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