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Shear Wall Design
Guide

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formats.

Cold-Formed
Steel Shear Wall
Design -
PDHonline.com
AWC's 2015
Special Design
Provisions for
Wind and Seismic
(SDPWS) typically
result in more
efficient

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

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AISI Releases
Cold-Formed
Steel Shear Wall
Design Guide ...
Seismic Design
of Cast-in-Place
Concrete Special
Structural Walls
and Coupling
Beams: A Guide
for Practicing
Engineers more
gravity loads,
as in Wall e in

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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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Shear Wall
Design Guide
guidance on
design of shear
walls in
buildings that
utilize cold-
formed steel
framing members.
AISI believes
that the
information
contained in
this publication

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substantially
represents
industry
practice and
related
scientific and
technical
information, but
the information
is not intended
to

Design/Construct
ion Guide:

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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
Institute

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Shear Wall Design Guide

(CFSEI)

publication

titled: "Cold-

Formed Steel

Framed Wood

Panel or Steel

Sheet Sheathed

Shear Wall

Assemblies."

Engineered Wood

Construction

Guide - Build GP

DESIGN AS A

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RETAINING WALL.

Foundation

drainage

Waterproofing

Filter fabric.

Addition on back

of house Sliding

and drifting

snow Potential

surcharge on

existing

foundation wall.

Adding a shed

dormer. ... • "D

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

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Design of
concrete 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

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3). 1 - 1 .

Shear Wall
Design Eurocode
2-2004.

STRUCTURE
magazine |
Special
Reinforced
Concrete Shear
Walls
Lateral
resisting
elements are

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required in all buildings, but in light-frame construction, shear walls tend to be the most economical method for transferring loads imposed by wind and earthquakes. The Shear Wall Design Guide

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addresses all levels of wind and seismic resistance, including the special detailing required in high-seismic areas.

Design Guide:
Cold-Formed
Steel Framed
Wood Panel or

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Steel ...

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

Structural Design for Residential Construction ...
The legacy Strong-Wall shearwall can be

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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

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space required for shearwalls, allowing for more windows and doors in house designs.

Shear Wall
Design Examples
per 2015 WFCM
and 2015 SDPWS

...

A shear wall,
however, is a

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

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Strong-Wall®

Shearwalls |

Simpson Strong-

Tie

WASHINGTON, D.C.

– The American

Iron and Steel

Institute (AISI)

has released

Cold-Formed

Steel Shear Wall

Design Guide,

2019 Edition

(AISI D113-19),

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which 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.

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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

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requirements for
wind and seismic
forces,
including the
special
detailing
required in high-
seismic areas.

Design Guides -
MemberClicks
Shear Walls The
engineered
version of wall

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bracing is a shear wall.

Shear walls are designed by an engineer to resist the specific forces determined by engineering analysis. Shear walls have specific design values depending on their

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construction,
fastener
spacing,
fastener size,
sheathing
thickness and
framing species.

Shear Walls &
Diaphragms - APA
– The Engineered
Wood ...
Cold-Formed
Steel "L" Header

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Field Guide. [Download] How To Build INTERIOR WALLS with Steel. [Download] Shear Walls & Diaphragms. Design Examples for the Design of Profiled Steel Diaphragm Panels Based on AISI S310-13,

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2014 Edition [Download] Cold-Formed Steel Framed Wood or Steel Sheathed Shear Wall Assemblies. [Purchase]

Shear Wall Design Manual - CSI Documents Concrete Shear Walls Shear

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Design of
Special Shear
Walls $V_u < \phi V_n$
ACI 9.3.4
(21.2.4) For
structures that
rely on special
reinforced
concrete
structural walls
to resist
earthquake force
effects E_f for
shear for any

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structural member that is designed to resist E is to be 0.6 if the nominal shear strength of the member is less ...

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

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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-formed

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

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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

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which must be accounted for, and any over-turning force is typically resisted by hold-downs or tie-downs, at each end of the shear element.

Seismic Design
of Cast-in-Place
Concrete Special

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...

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

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result of the unsatisfactory performance of many shear walls in the Chile earthquake of 2010 and the Christchurch, New Zealand earthquake of 2011.

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7de1893061052d79](#)