

shear walls sheathing lateral pdf

openings in the exterior walls may have interior shear walls, as well. Engineered homes with large window or door openings may use moment frames to resist lateral loads in addition to shear walls. While constructed similarly, diaphragms and shear walls act in different ways as they both work to transfer loads down to the foundation of the structure.

BUILDING FRAMING SYSTEMS AND BEST PRACTICES - FEMA.gov

WHAT IS A SHEAR WALL? Shear walls are vertical elements of the horizontal force resisting system. ... Shear walls also provide lateral stiffness to prevent the roof or floor above from ... panel shear walls use their sheathing web to resist shear forces. Because of

3 SHEAR WALLS

CE 479: DESIGN OF BUILDING COMPONENTS AND SYSTEMS FALL 2012 â€œ J. LIU Wood: Shear walls Note: generally, interior partition walls neglected in lateral force design . Basic Shear wall Action sheathing materials used as shear walls ...

CE 479: Design of Building Components and Systems Fall

ii Steel Sheet Sheathing Options for CFS Framed Shear Wall Assemblies Providing Shear Resistance
PREFACE The North American Standard for Cold-Formed Steel Framing - Lateral Design, AISI S213-07, provides design provisions for cold-formed steel framed shear walls with steel sheet sheathing.

Steel Sheet Sheathing Options for CFS Framed Shear Wall

diaphragms and shear walls are used in the lateral design of a building, the structural system is termed a â€œbox sys- tem.â€• Shear walls provide reactions for the roof and floor diaphragms, and transmit the forces into the foundation.

Design/Construction Guide: Diaphragms and Shear Walls

V = total lateral resistance of a perforated shear wall line; F = reduction parameter determined using Equation DE.1; L = total length of a shear wall line including length of perforations; v = unit shear resistance determined from Appendix B or Sections 4.4.2, D2.4, or D2.5.

METHODS FOR ANALYSIS OF SHEAR WALL RESISTANCE - HUD User

Segmented Shear Wall Design Segmented Shear Wall Design (SSW) is the traditional design method that has ... resistance to lateral loads. The sheathing grade and thickness and the nail size and spacing determine the shear capacity per foot of length of the full-height segments. 2009

Segmented Shear Wall Design - PDHLibrary

Eight shear wall specimens sheathed with 7/16 inch (11.11 mm) â€œRated Sheathingâ€• Oriented Strand Boards were assembled with over-driven sheathing nails and tested using the sequential phased displacement procedure.

Strength of OSB Shear Walls with Over-Driven Sheathing Nails

Lateral Systems for Light Gauge Steel Presented by: Tom Castle, S.E. Ficcadenti Waggoner & Castle ... Shear Walls â€œ Sheathing ... entirely by light-framed shear walls. AISI Lateral has no specific requirements for diaphragm chords or collectors, but does ...

Lateral Systems for Light Gauge Steel - FWCSE

of interior shear walls provide lateral resistance. It should be noted that while plywood sheathing generally is used at the exterior walls for reasons beyond just lateral load resistance, the interior longitudinal (corridor) and transverse shear walls could be designed using gypsum wallboard as permitted by AF&PA SDPWS Section 4.3.7.5.

FEMA P-751: Chapter 11: Wood Design - cdn.ymaws.com

Walls that are designed to resist lateral shear forces and sheathed with wood structural panels typically require solid framing behind all panel edges. Blocking requirements are typically the same for all shear walls constructed with structural OSB or plywood and are not specific to ZIP System® products. It is the responsibility of the ...

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