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Seismic Design Of Floor Diaphragms

Provisions of major United States building codes for seismic design of diaphragms are summarized in Section 8.5. Finally, in Section 8.6, the current standard procedures for design of diaphragms...

Seismic Design of Floor Diaphragms

Abstract: This chapter surveys the seismic behavior and design of floor and roof diaphragms. Following some introductory remarks, a classification of diaphragm behavior is presented in Section 8.2, and a discussion on the determination of diaphragm rigidity in Section 8.3. Potential diaphragm problems are explained in Section 8.4 where examples are provided to clarify the subject. Provisions of major United States building codes for seismic design of diaphragms are summarized in Section 8.5.

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Diaphragm Design $\Gamma m_1 = 1 + 0.5z S (1 - 1/n)$ $\Gamma m_2 = 0.9z S (1 - 1/n)^2$ where $zS =$ modal contribution coefficient modifier dependent on seismic force-resisting system. - 24 - Diaphragm Design Values of mode shape factor z_s 0.3 for buildings designed with Buckling Restrained Braced Frame systems 0.7 for buildings designed with Moment-Resisting Frame systems

Seismic Design of Diaphragms

The diaphragm seismic design provisions in Sections 12.10.1 and 12.10.2 are the basic design method that has been in ASCE 7 Chapter 12 for a number of years. Section 12.10.3 is an alternate method, first included in ASCE 7-16.

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load rather than respond individually. For seismic forces, the diaphragms are an integral part of the SFRS and deserve significant attention during the design process. Seismic design of diaphragms is required for buildings in Seismic Design Categories (SDC) B through F, as defined in the International Building Code (IBC) (IBC 2012) and

Seismic Design of Wood Light-Frame ... - TSAPPS at NIST

design know, diaphragms constitute an integral part of the lateral load resisting system. When the load under consideration is seismic, the diaphragms themselves often constitute a majority of the inertial mass, as well as the means of delivering inertial forces to the vertical elements of the seismic load resisting system (SLRS).

Diaphragms for seismic loading - Structural Engineer magazine

seismic forces to vertical lateral force resisting elements. They also provide lateral support for walls and parapets. Diaphragm forces are derived from the self weight of the diaphragm and the weight of the elements and components that depend on the diaphragm for lateral support. Any roof, floor, or ceiling can participate in the distribution

4.5 Procedures for Diaphragms - Civil Engineering

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Seismic Design Category B, C, D, E, or F of the International Building Code (IBC 2009, referred to here as the IBC). Although horizontal elements can consist of truss elements or horizontal diagonal bracing, in most cases diaphragms are constructed as essentially solid, planar elements made of wood, steel, concrete, or combinations of these.

Seismic Design of Cast-in-Place Concrete Diaphragms ...

Floor diaphragms play several roles in the seismic response of dual systems: support vertically spanning components, transfer lateral forces to walls and frames, provide restraint to columns and walls, tie the structure together, and enable redundant load paths for lateral forces.

Performance-based seismic design framework for RC floor ...

Seismic Design of Composite Steel Deck and Concrete-filled Diaphragms: A Guide for Practicing Engineers Resist out-of-plane forces- Exterior walls and cladding develop out-of-plane lateral inertial forces as a building responds to an earthquake. Out-of-plane forces also develop due to wind pressure acting on exposed wall surfaces.

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Pramin Norachan8 • Diaphragms transmit inertial forces from the floor system to the vertical elements of the seismic force-resisting system. • They also tie the vertical elements together to stabilize and transmit forces among these elements as may be required during earthquake shaking.

Seismic Design of Cast-in-Place Concrete Diaphragms ...

SECTION 2305 GENERAL DESIGN REQUIREMENTS FOR LATERAL FORCE-RESISTING SYSTEMS 2305.1 General. Structures using wood-frame shear walls or wood-frame diaphragms to resist wind, seismic or other lateral loads shall be designed and constructed in accordance with AF&PA SDPWS and the applicable provisions of Sections 2305, 2306 and 2307.

Diaphragm Basics Using SDPWS - WoodWorks

Steel_Deck_Diaphragm_Design: The Hilti Profis DF Diaphragm Software Version 2.0.1 calculates diaphragm shear, flexibility factors and uplift resistance for steel deck roof and floor systems. The program is based on the Steel Deck Institute (SDI) Diaphragm Design Method and incorporates the latest ICC-ES AC43 performance data.

Floor/Diaphragm Systems

On the development of seismic design forces for flexible floor diaphragms in reinforced concrete wall buildings [J.A. Rivera, R. Pinho, Eucentre] on Amazon.com. *FREE* shipping on qualifying offers. In the analysis and design of buildings, concrete floors are generally considered to be infinitely rigid in their plane.

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