



NFBA \ EDUCATION

NFBA Past Recordings

Diaphragm Design of Post Frame Using DAFI – Engineering Details

Learning Objectives:

- Learn how to conduct 2-D design of a post-frame (PF) system (Principles + Design Example)
- Learn how to conduct diaphragm design of a PF system (Principles + Example)
- Learn how diaphragm design reduces the structural loads carried by sidewall posts in PF systems
- Identify the PF design resources available to architects and engineers

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Simplified Method for Shallow Post and Pier Foundation Design Details

Learning Objectives:

- Design shallow post/pier foundations to resist bearing and uplift loads
- Determine when the Simplified method may be used for shallow post/pier foundation design
- Determine ground line shear and moment in shallow post/pier foundation systems using the simplified method
- Determine design embedment depths for shallow post/pier foundation systems using the simplified design method

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Universal Method for Shallow Post and Pier Foundation Design

Learning Objectives:

- -When to use the Universal methodology for shallow post/pier foundation design
- -How to determine ground line shear and moments in shallow post/pier foundation systems using the Universal design method
- -How to determine required embedment depths for shallow post/pier foundation systems using the Universal design method

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Design Aid for Shallow Post and Pier Foundations

Learning Objectives:

- -Access the Shallow Post and Pier Foundation Design Aid
- -Identify the range of foundation design applications solvable with the Design Aid
- -Navigate the several sections of the Design Aid Workbook
- -Use the Design Aid to determine

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Introduction to Post Frame Building Systems

Learning Objectives:

- Identify the versatility and range of applications for post-frame (PF) building systems
- Identify the structural features that make PF building systems unique
- Identify the technical resources for structural design of PF building systems
- Identify the primary structural design approaches for PF building systems
- Identify key performance characteristics of PF building systems

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2015 Post-Frame Building Design Manual – 2nd Edition

Learning Objectives:

- Format of the 2015 Post-Frame Building Design Manual (PFBDM-2015)
- Organization of the PFBDM-2015
- Contents of the PFBDM-2015

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Non-Diaphragm Post-Frame Building Design Guide

Learning Objectives:

- Scope and Contents of the Non-Diaphragm Post-Frame Building Design Guide (ND-PFBDG-2019)
- Lateral Force Resisting Systems (LFRS) for Non-Diaphragm Post-Frame Building Systems (PFBS)
- Guidelines for Conducting Structural Analysis of Non-Diaphragm PFBS
- Guidelines for Designing Key Structural Components of Non-Diaphragm PFBS
- Guidelines for Designing Key Connections in Non-Diaphragm PFBS

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Non-Diaphragm Post-Frame Structural Design Examples: Engineering Details

Learning Objectives:

- Conducting the Structural Analysis of the Primary Frame for a Non-Diaphragm Post Frame Building System (ND-PFBS)
- Conducting the structural Analysis of the Sidewall Frame for a ND-PFBS
- Designing the key Structural Elements for a ND-PFBS
- Designing the Key Connections for a ND-PFBS

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Architectural Alternatives for Post-Frame Building Systems

Learning Objectives:

- Identify the unique structural features of PFBS
- Demonstrate the code compliance of PFBS
- Demonstrate the energy efficiency and sustainability of PF building systems
- Identify and demonstrate with completed Post-Frame (PF) project case studies the range of applications and architectural features possible with PFBS

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Modern Post-Frame Structural Design Practice: An Introduction

Learning Objectives:

- Identify the primary structural components of post-frame (PF) building systems
- Learn how to conduct structural design of PF systems without diaphragm action
- Learn how to conduct structural design of PF systems with diaphragm action
- Learn how to design isolated post/pier PF foundations
- Identify post-frame design resources available to architects and engineers

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Diaphragm Design of Post Frame Using Sway & Shear Modifiers – Engineering Details

Learning Objectives:

- Determine required sidewall post sizes in PF systems using Sway and Shear Modifiers (mD and mS) (Principles + Example)
- Identify how diaphragm design reduces the structural loads carried by sidewall posts in PF systems
- Identify and access the PF design resources available to architects and engineers

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