General PEMB Erection Guide

Purpose and scope

This guide provides a general overview of the construction phases of pre-engineered metal buildings (PEMBs). It is not an erection manual, engineered sequence, rigging plan, or site safety program.

The approved project erection drawings, manufacturer instructions, engineering documents, and site-specific plans control. Do not use this guide to determine connections, lifting points, temporary bracing, or construction loads.

Roles and coordination

The controlling contractor coordinates site readiness and the handoff of required foundation information. The erection contractor plans and executes means, methods, equipment, temporary stability, and safety in accordance with the contract and applicable law.

The building manufacturer provides the applicable building-package information; the project engineer of record and other design professionals retain their assigned design responsibilities. NSS scope is defined by the executed contract.

Before erection begins

Confirm receipt of the latest approved erection drawings and revisions; reconcile shipping documents with the building package.

Review access, laydown, unloading responsibilities, traffic control, equipment, overhead utilities, ground conditions, and adjacent work.

Confirm required foundation and anchor-rod documentation has been provided and discrepancies resolved before affected work.

Establish a site-specific erection plan including lifting, temporary stability, weather limits, fall protection, and emergency response.

Typical work phases — overview only

1. Receive and identify components, protect materials, and inspect for shipping damage.

2. Verify foundation readiness and building layout using approved documents.

3. Assemble and erect primary framing under the approved erection and stability plan.

4. Install required secondary framing and temporary/permanent bracing in the prescribed sequence.

5. Complete roof and wall assemblies, insulation, trim, closures, and accessories as specified.

6. Perform documented inspections, address deficiencies, and complete project turnover.

Critical controls

Do not release hoisting equipment, remove temporary bracing, or load incomplete framing until the responsible qualified party has verified the applicable conditions.

Never cut, slot, weld, drill, or otherwise modify structural members or connections without written authorization from the responsible design authority.

Do not substitute fasteners, bracing, anchor rods, roof clips, or panel details without required approval.

Follow applicable OSHA 29 CFR 1926 Subpart R and California-specific Cal/OSHA rules; applicability and compliance must be verified for each project.

Documents and escalation

Maintain current drawings, RFIs, revisions, inspections, and written authorizations at the jobsite.

Stop affected work when field conditions, material identification, drawings, or instructions conflict; request written clarification through the project team.

IMPORTANT NOTICE — GENERAL INFORMATION AND LIMITATION OF RESPONSIBILITY

This document is provided by Northern State Steel, LLC (NSS) for general informational and educational purposes only. It is not an erection manual, engineered erection plan, construction instruction, safety program, or substitute for the building manufacturer's project-specific erection drawings and installation requirements.

Any person or contractor using this document is responsible for obtaining and following applicable manufacturer instructions, approved engineering documents, and relevant building codes and safety regulations.

Unless NSS has expressly agreed in a separate written contract to perform erection services, NSS does not undertake responsibility for erection, installation, construction means and methods, temporary bracing, structural stability during erection, equipment operation, or jobsite safety of a building erected by others. The erection contractor is responsible for its own work, personnel, supervision, equipment, construction procedures, and legal compliance.

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Project-specific contracts and approved manufacturer documentation control.