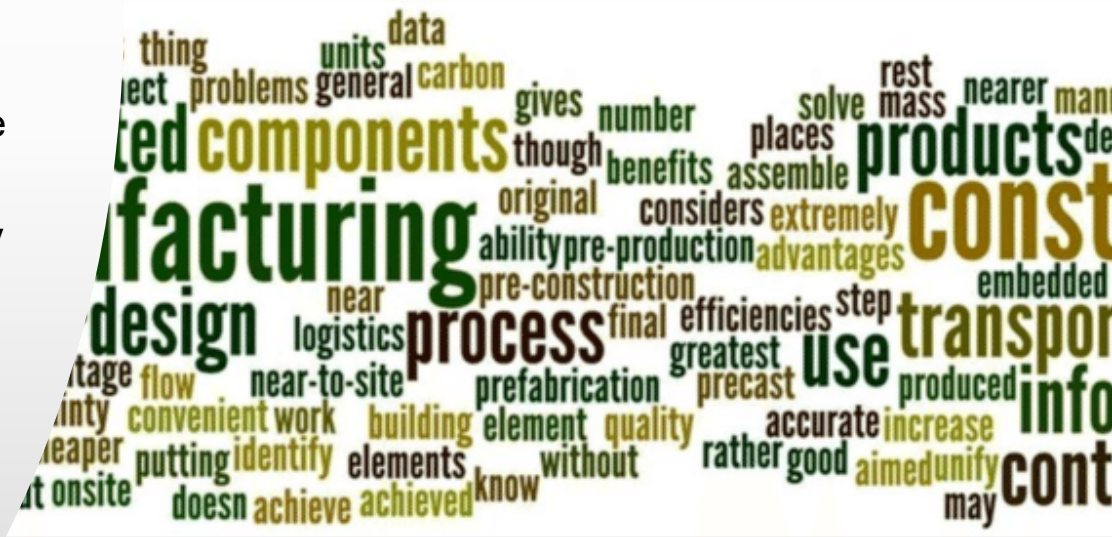
HCAi
Department of Health Care Access and Information

HCAI Preapproved Prefabricated Components and Systems (PCS)

January 18, 2022

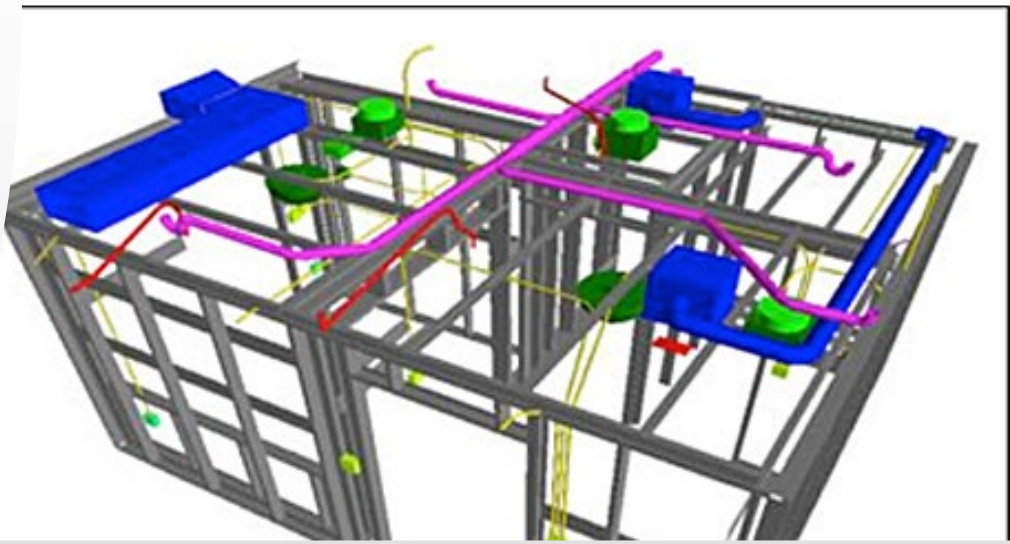
Prefabrication has Reinvented Itself w/ the Growth of BIM

- BIM enables the increased use of prefabrication, making it more feasible to implement on construction projects
- Use of premanufactured systems may reduce construction time



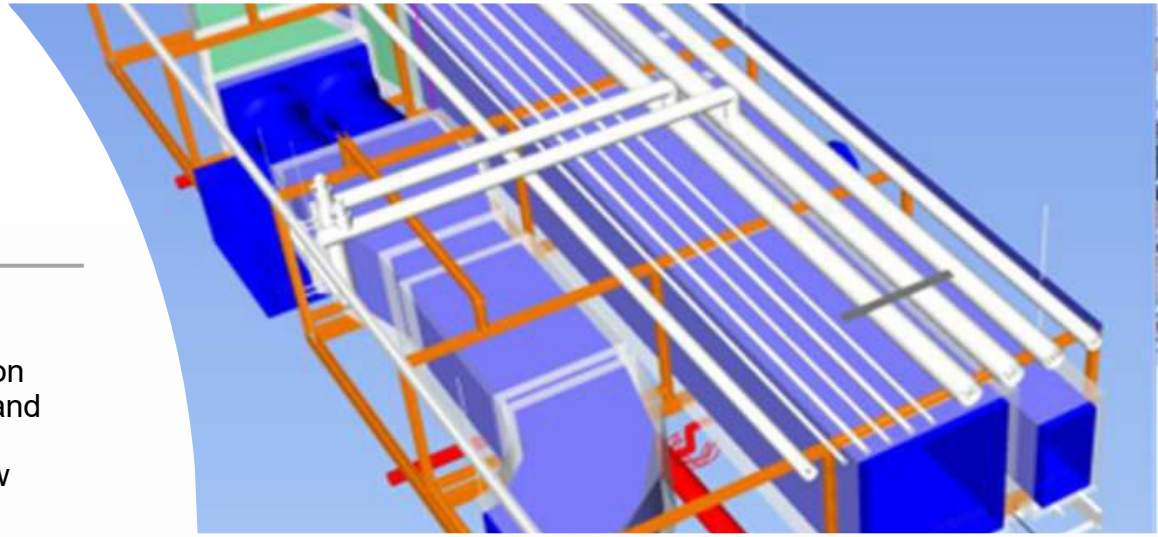
What is PCS?

- A multi-discipline preapproval for prefabricated components and systems for healthcare construction projects.
- PCS is a voluntary program
- The PCS is not a product approval program, rather it is a holistic approach that incorporates multi-discipline performance-based review and approval.



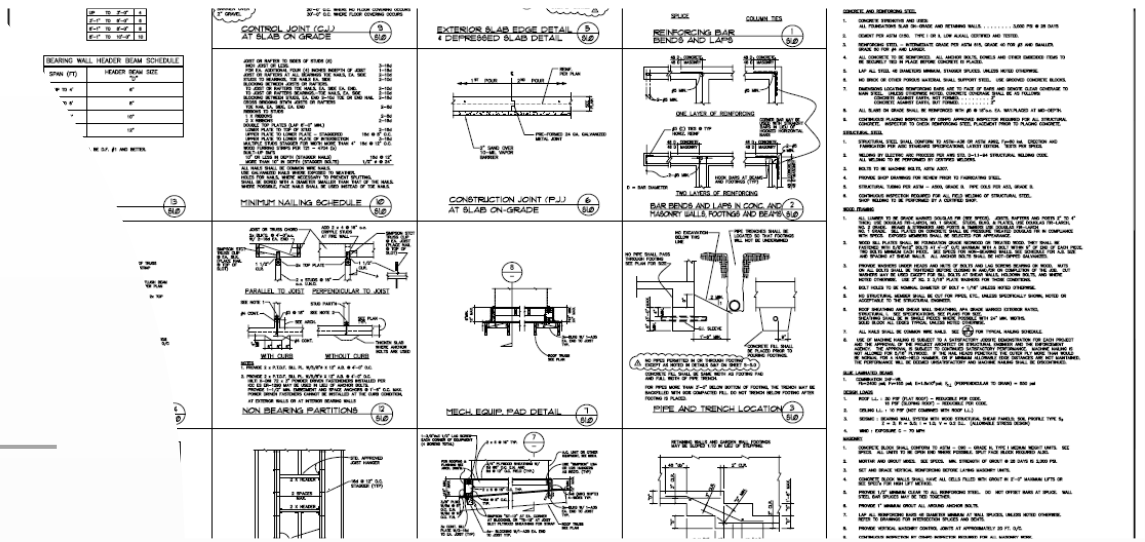
Why PCS?

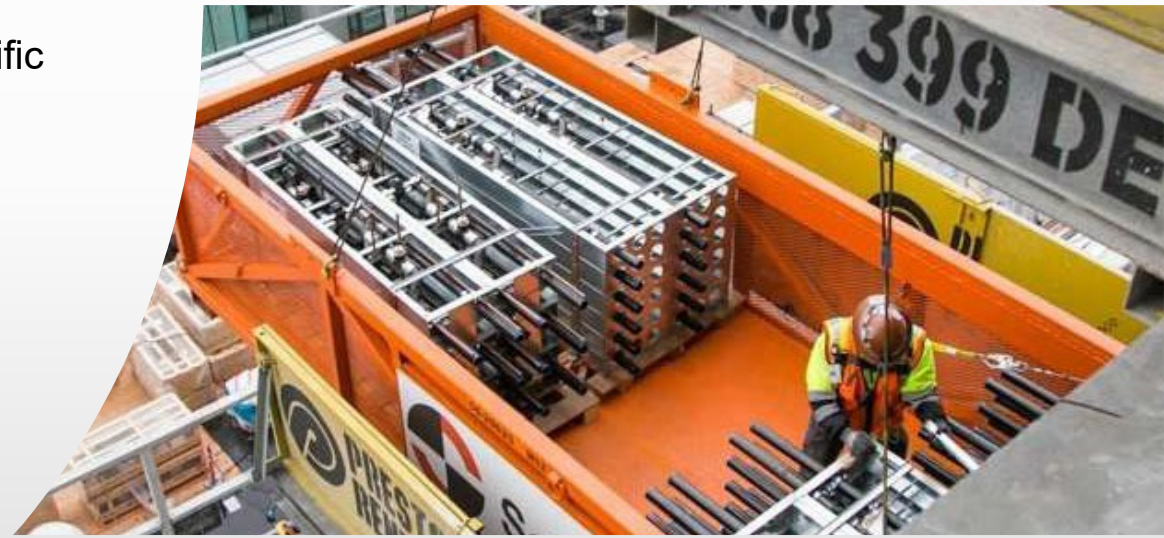
- Established to streamline hospital construction for facility owners, consultants, contractors, and manufacturers of structural or nonstructural assemblies by providing a program for review and preapproval.
- Eliminates the need for manufacturers to find a healthcare construction project to get their systems reviewed
- Saves time from repetitive plan review
- Reduces uncertainty of getting approval
- Provides opportunity to bring innovative ideas without the need to wait for future code cycles



How is PCS implemented?

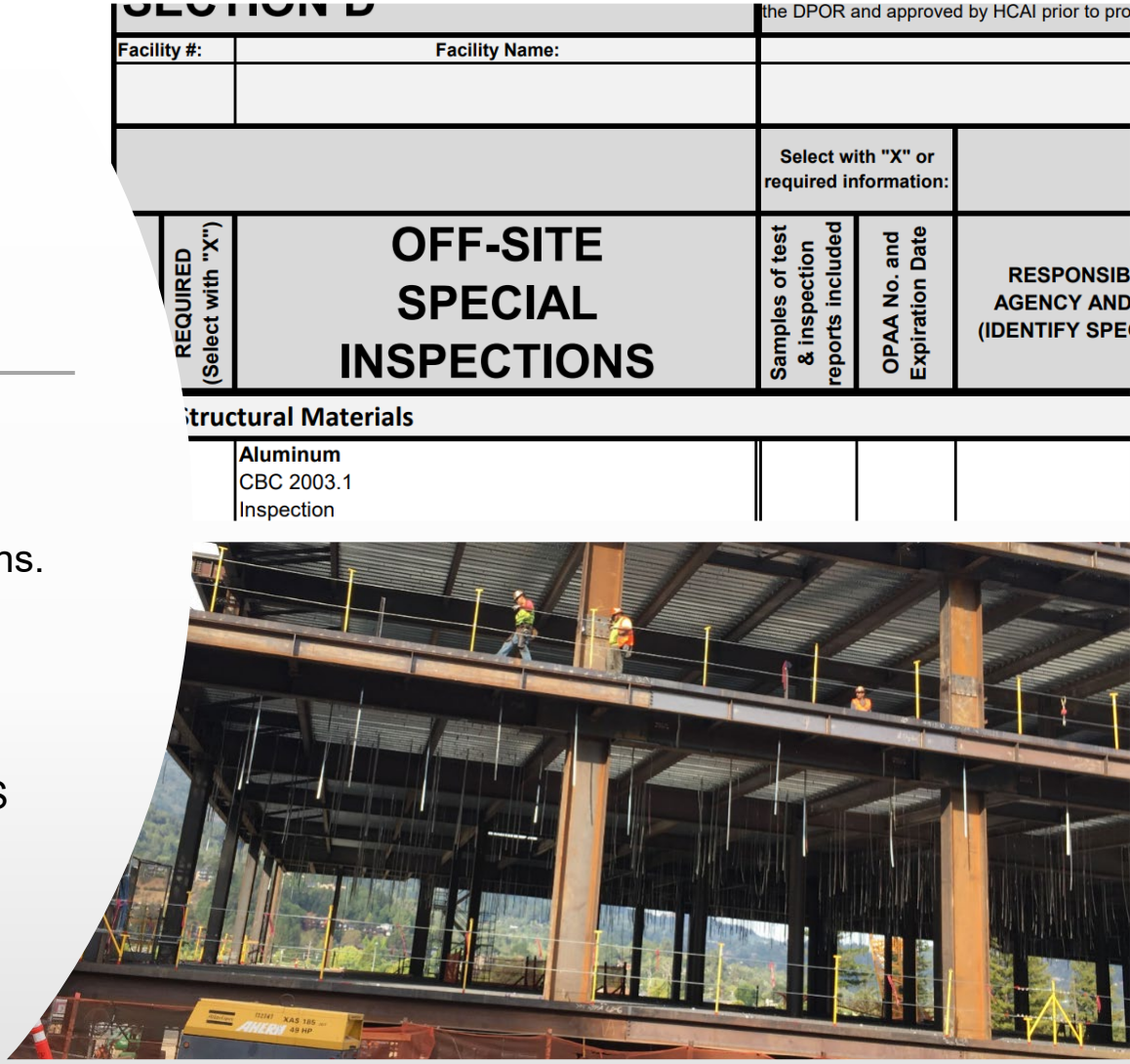
- Applicability of PCS details for specific project conditions shown on the construction documents is evaluated during the plan review process.





Inspections

- PCS document does not waive required on-site or off-site inspections.
- To save time during project specific reviews, including testing and inspection program items related to the prefabricated system in the PCS document is strongly encouraged.

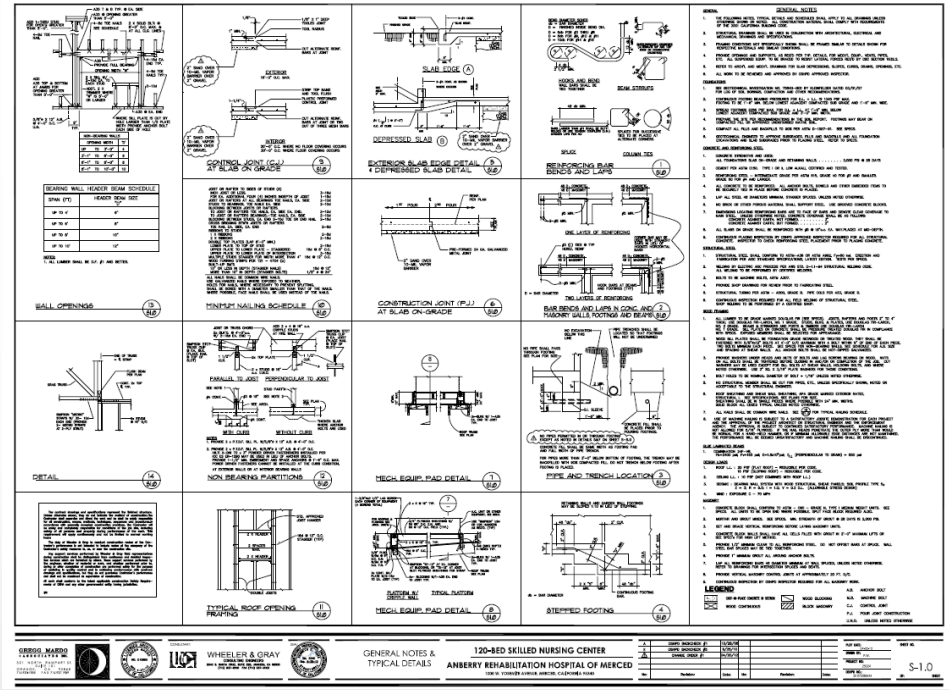


					the DPOR and approved by HCAI prior to pro
Facility #:	Facility Name:				
				Select with "X" or required information:	
REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS		Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIB AGENCY AND (IDENTIFY SPE
tructural Materials					
	Aluminum CBC 2003.1 Inspection				

Examples

Modular Construction - Example

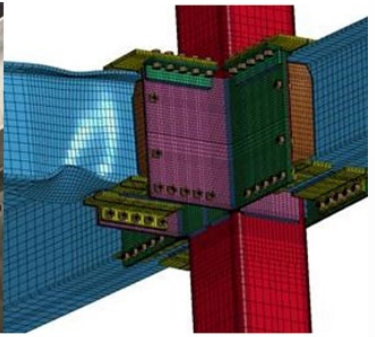
- **Develop Facility or Building Specific Pre-Approved Details**

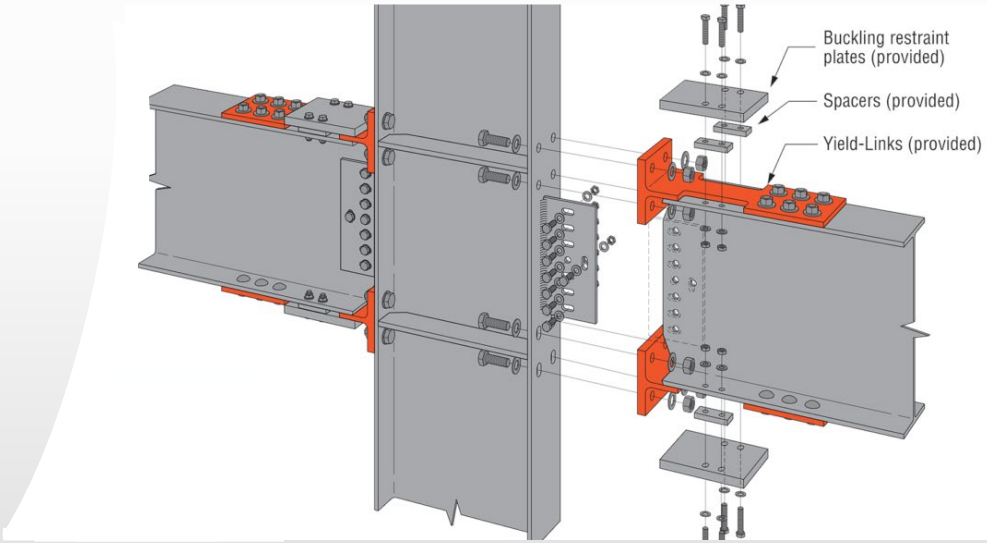


- **T&M Review**
- **Code Cycle Impacts**
- **Application**

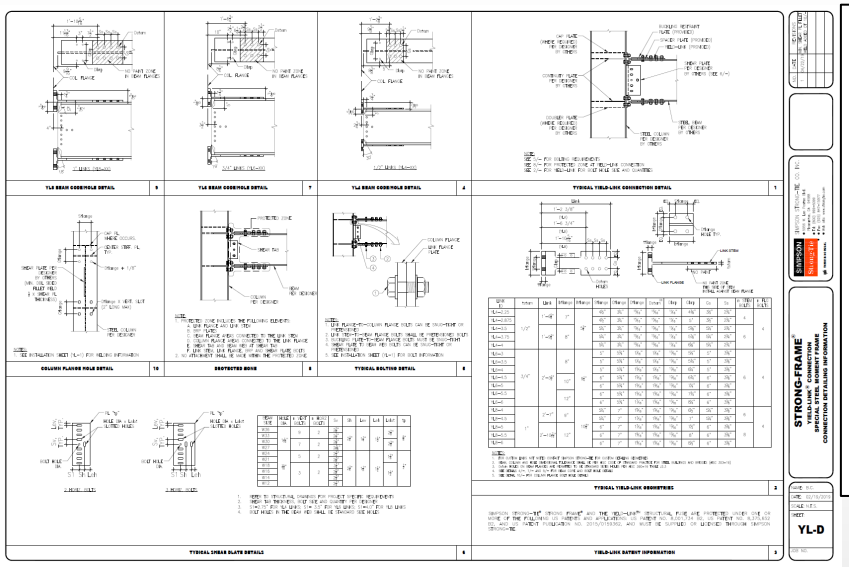
- **Anticipated Details are Allowed**

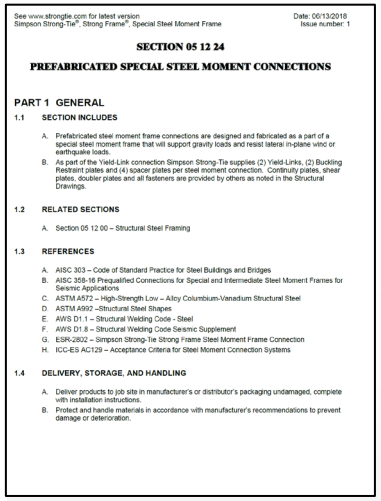
PCS Structural Systems





Example: Simpson Yield Link (in review..)





See www.strongtie.com for latest version
Simpson Strong-Tie®, Strong Frame®, Special Steel Moment Frame

Date: 06/13/2018
Issue number: 1

SECTION 05 12 24

PREFABRICATED SPECIAL STEEL MOMENT CONNECTIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Prefabricated steel moment frame connections are designed and fabricated as a part of a special steel moment frame that will support gravity loads and resist lateral in-plane vinc or earthquake loads.

B. As part of the Yield-Link connection Simpson Strong-Tie supplies (2) Yield-Links, (2) Buckling Restraint plates and (4) space plates per steel moment connection. Continuity plates, shear plates, doubler plates and all fasteners are provided by others as noted in the Structural Drawings.

1.2 RELATED SECTIONS

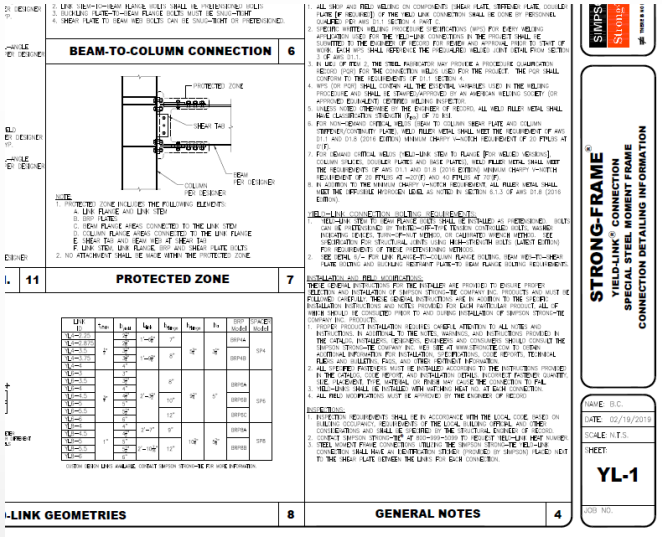
A. Section 05 12 00 – Structural Steel Framing

1.3 REFERENCES

A. AISC 303 – Code of Standard Practice for Steel Buildings and Bridges
B. AISC 358-16 Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications
C. ASTM A572 – High-Strength Low – Alloy Columbium-Vanadium Structural Steel
D. ASTM A992 –Structural Steel Shapes
E. AWS D1.1 – Structural Welding Code - Steel
F. AWS D1.8 – Structural Welding Code Seismic Supplement
G. ESR-2802 – Simpson Strong-Tie Strong Frame Steel Moment Frame Connection
H. ICC-ES AC129 – Acceptance Criteria for Steel Moment Connection Systems

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to job site in manufacturer's or distributor's packaging undamaged, complete with installation instructions.
B. Protect and handle materials in accordance with manufacturer's recommendations to prevent damage or deterioration.



SECTION D

NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.

Facility #:	Facility Name:	Project #:	Sub #:

Select with "X" or required information:

Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY DPOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
Other Structural Materials							

Department of Health Care Access and Information

How to Apply

- Go to https://hcai.ca.gov/construction-finance/preapproval-programs/
- Download the Application for Preapproved Prefabricated Components and Systems (HCAI-FD-110)
- Email your completed application and supporting documents to PPCS@hcai.ca.gov.