

## Prequalified for HCAI/OSHPD Facilities

ConXtech is explicitly listed in the California Building Code Section 2206A.2.1 as a **prequalified special moment frame connection** for California Department of Health Care Access and Information (HCAI) facilities, formerly known as OSHPD or Office of Statewide Health Planning and Development.

This applies to **all five (5) classifications of HCAI / OSHPD facilities**, including OSHPD 1 Acute Care Hospitals through OSHPD 5 Acute Psychiatric Hospitals and everything in between.

ConXtech has supported some of the most critical healthcare infrastructure in California, and has several active HCAI projects in design and development. ConXtech offers a safer way to erect steel, delivers unparalleled schedule acceleration, and greatly minimizes disruptions to ongoing operations and the local community as many of these buildings are constructed on existing campuses.



## PRODUCT DESCRIPTION

ConXtech's ConXL400 connection has successfully undergone a comprehensive qualification review by the AISC 358 - Connection Prequalification Review Panel (CPRP). This endorsement led to its inclusion as Chapter 10 in the 2010 AISC 358 code book, specifically for Prequalified Connections designed for Special and Intermediate Steel Moment Frames in Seismic Applications. The versatility of the ConXL400 system extends beyond seismic applications to cater to the braced frame market in non-seismic scenarios, earning it the moniker of a full-scale "Erector Set" within the building industry.

Our innovative ConXL400 System applies cutting-edge technology throughout the entire building process. This system's approach is facilitated by lean-inspired processes, seamlessly integrating design, fabrication, shipping, and erection. Through a library of robust connectors, ConXL400 allows the configuration of beam and column assemblies to meet a diverse range of structural criteria, even the most stringent ones.

ConXL400 components undergo precision manufacturing in a state-of-the-art facility with highly automated processes, minimizing waste and carbon emissions while enhancing quality and cost efficiencies. The field assembly process is rapid and efficient, thanks to the simplicity of the system connector, ensuring a speedy, safe, and precise fit-up on-site.

The ConXL400 system simplifies the structural frame of a building into a kit of parts, consisting of three main components: (1) HSS tube or built-up-box columns, (2) wide flange beams, and (3) two patented interlocking joints—one forming a bi-axial moment connection (additionally usable as a flexible moment connection) with collar flanges, and the other our innovative gravity connection. Both connections are easily assembled by lowering and locking beams into place on-site, offering a streamlined and efficient solution for structural framing.

# Technical Summary: HCAI/OSHPD

## Approval Process

The ConXL connection is qualified as a Special Moment Frame connection for use in hospital environments with the California Office of Statewide Health Planning and Development (OSHPD).

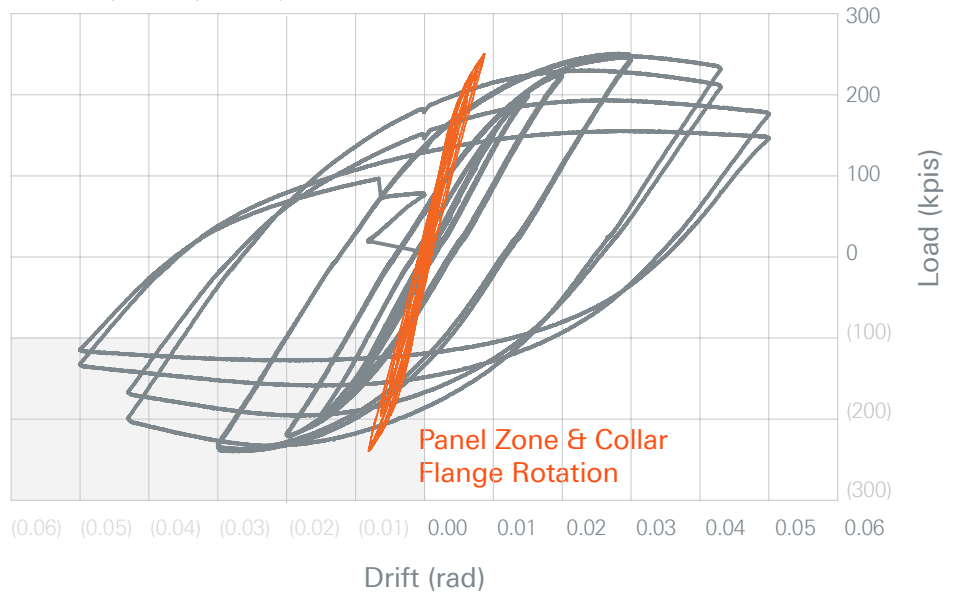
HCAI/OSHPD observed the successful completion of three full scale bi-axial tests, which met HCAI/OSHPD's test protocol designed specifically for ConXtech's connection. ConXtech also completed 3 additional tests following this protocol for AISC CPRP qualification. This qualification is unique as no other steel moment frame has undergone cyclic testing while simultaneously being subjected to a constant orthogonal load equal to 100% of the probable maximum moment ( $M_{pr}$ ) of the primary beams. This unprecedented bi-axial testing proved the unique capabilities of the ConXtech moment connection, the only standardized true bi-axial moment connection in the steel framing market today.



## Applied Column Load vs. Interstory Drift Angle

W30x108xRBS - BOX16x16x1.25

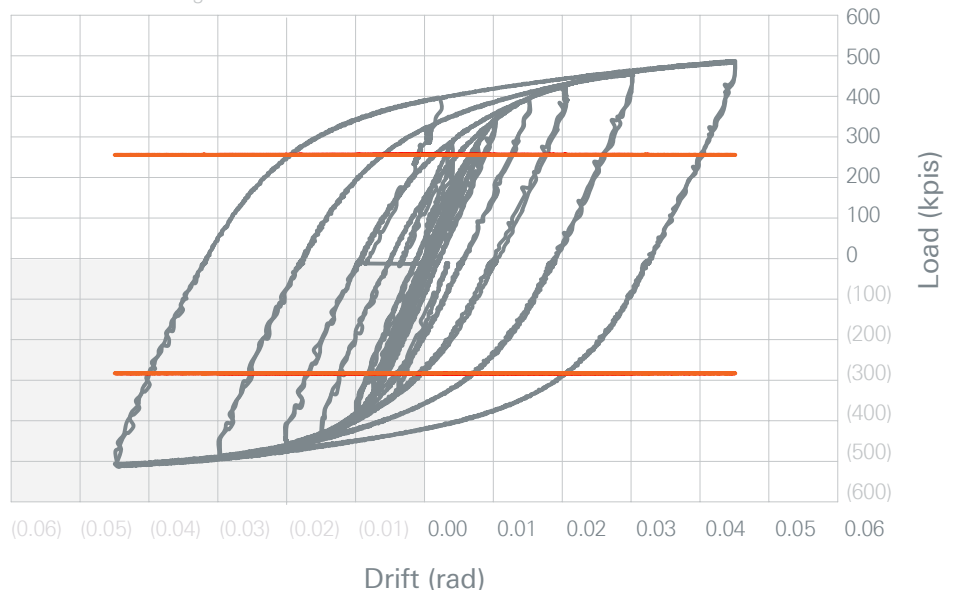
Note: Col specimen previously used in Test #2101A, #2101B.



## Applied Column Load vs. Interstory Drift Angle

Concrete-Filled PJP BOX 16x16x1.25 with Thickened Haunch at Base

Column/Haunch height = 75in





North Bay Expansion Hospital



Queen of the Valley



Acute Care Stanford



Kaiser Woodland Hills HMC



Kaiser Moreno Valley Hospital Phase 1

Certified by the AISC  
358 - Connection  
Prequalification  
Review Panel (CPRP)



## ConXtech HCAI/OSHDP 1 Classified Projects

Project Name	Location	SF	Status	Assembly Date
Centinela Medical Hospital	Inglewood, CA	2,820	Completed	January 2013
Rancho Mirage Rehabilitation Project OSHPD	Rancho Mirage, CA	5,968	Completed	August 2017
North Bay Expansion Hospital	Fairfield, CA	75,679	Completed	October 2017
Kaiser Woodland Hills OSHPD HMC	Woodland Hills, CA	48,567	Completed	December 2018
Kaiser Moreno Valley Hospital Phase 1	Moreno Valley, CA	93,000	Completed	January 2022
Queen of the Valley	West Covina, CA	70,865	Completed	December 2022
Scripps Encinitas Acute Care Building Phase 2	Encinitas, CA	138,903	Completed	March 2024
Acute Care Stanford OSHPD	Stanford, CA	34,692	Completed	October 2024
Sharp Metro Stephen Birch Addition (Emergency Dept. Addition)	San Diego, CA	37,182	erecting q2 2025	July 2025
Sharp Metro Mary Birch Addition (Nursing Tower)	San Diego, CA	88,595	erecting 2026	TBD
Scripps Encinitas Acute Care Building Phase 5	Encinitas, CA	75,463	erecting 2027	TBD
SCVMC ED Expansion	San Jose, CA	25,000	oshpd / hcai approval pending	TBD



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