

# INNOVATE FREELY

Frances Appleton Pedestrian Bridge, MA  
Architect: Rosales + Partners  
Structural Engineer: STV  
Photography by Christopher McIntosh

**CAST CONNEX®** custom steel castings allow for projects previously unachievable by conventional fabrication methods.

**Innovative** steel castings reduce construction time and costs, and provide enhanced connection strength, ductility, and fatigue resistance.

**Freeform** castings allow for flexible building and bridge geometry, enabling architects and engineers to realize their design ambitions.

**Custom Cast Solutions** simplify complex and repetitive connections and are ideal for architecturally exposed applications.



**CASTCONNEX®**  
innovative components for inspired designs

**CUSTOM CASTING**

[www.castconnex.com](http://www.castconnex.com)

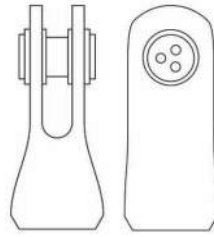
[info@castconnex.com](mailto:info@castconnex.com) | 080-8196-8162

**CAST CONNEX** is the industry leader in the supply of cast steel structural components used in the design of and construction of buildings and bridges.

CAST CONNEX offers a broad range of standardized cast steel products including:

- **Universal Pin Connector (UPC):** Clevis-type fittings designed to connect to round hollow structural sections
- **Architectural Taper (ART):** Conical and hollowed, cast steel components that are tapered in shape and designed to connect to the end of round hollow structural sections
- **Timber End Connector (TEC):** Clevis-type fittings designed to connect to the ends of heavy timber or glue-laminated structural elements
- **Diablo Bolted Splice (DBS):** Cast steel fittings that enable unobtrusive field bolted splices between round hollow structural sections or pipe members
- **High Strength Connector (HSC):** Cast steel connectors used to simplify and improve the performance of connections to round hollow structural sections or pipe brace members for use in earthquake-resistant construction
- **Scorpion Yielding Connector (SYC):** Modular, replaceable, hysteretic fuses that provide enhanced ductility and performance in seismically deficient structures
- **Cast Bolted Bracket (CBB):** Prequalified connection for Special and Intermediate Steel Moment Frames as per AISC 358 and can be used retrofit of seismically deficient steel framed buildings
- **High Integrity Block (HIB):** Specially engineered solid steel elements which provide unparalleled strength in heavily loaded structural connections and elements

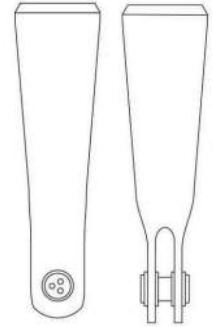
## STANDARD PRODUCTS AND APPLICATIONS



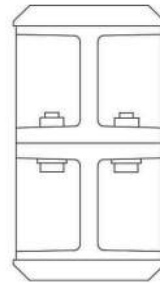
Universal Pin Connector™



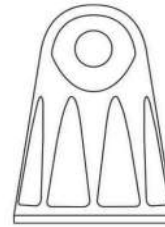
Architectural Taper™



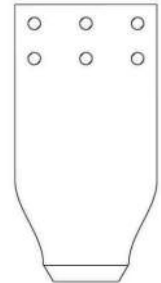
Universal Pin Connector™ + Architectural Taper™



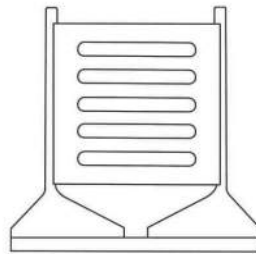
Diablo Bolted Splice™



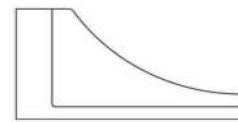
Timber End Connector™



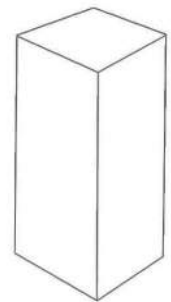
High Strength Connector™



Scorpion™ Yielding Connector



Cast Bolted Bracket



High Integrity Block™

## CUSTOM CASTING SERVICES

Cast Connex provides design-build services for custom cast steel components. We work with you to provide the desired aesthetic, structural performance, and load safety required for your project. Our castings integrate with your structural framing seamlessly, efficiently, and economically.

Our services include industrial design and 3D modeling, finite element stress analysis, steel connection design, casting detailing, steel casting manufacturing, destructive structural testing of full-scale cast steel components and structural assemblages, performance-based casting and non-destructive examination specification writing.