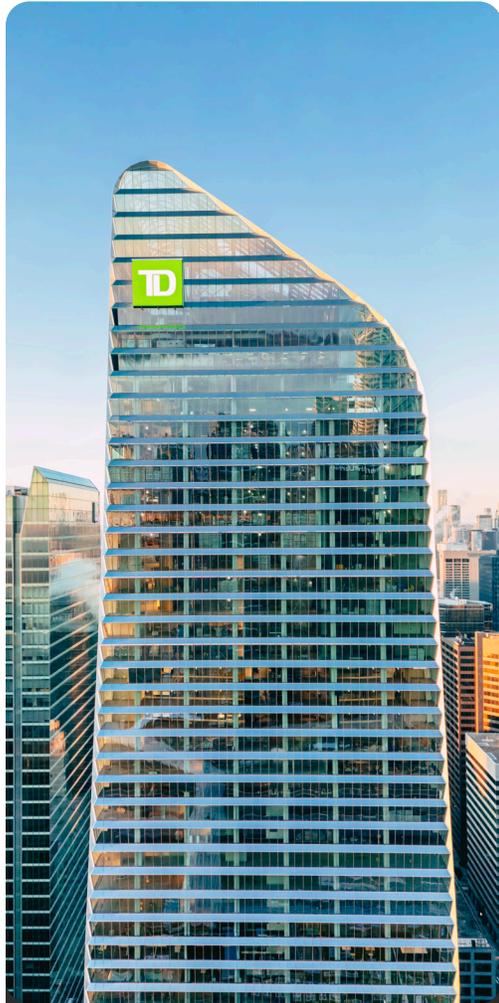




STEEL CASTINGS FOR TALL BUILDINGS

Cast steel connections improve performance and simplify construction of tall building structures.



TD Terrace | Toronto
DIABLO BOLTED SPLICE™



30 Hudson Yards | New York
HIGH INTEGRITY BLOCK™



CIBC Square Tower II | Toronto
CUSTOM CASTING & HIGH INTEGRITY BLOCK™

CASTCONNEX® is the industry leader in the architectural and structural use of cast steel components in the design and construction of building and bridge structures.

Our products include preengineered connectors that simplify the design and enhance the performance of structures. We also offer design-build services for custom cast steel nodes and components.

DIABLO BOLTED SPLICE™

CAST CONNEX Diablo Bolted Splices™ are cast steel fittings that enable unobtrusive field bolted splices in circular hollow structural section (HSS) members.

The fittings are designed such that the bolted connection is inboard of the outer diameter of the HSS. Splices made with Diablo Bolted Splices can be sheathed in thin-gauge plate to completely conceal the splice or can be left uncovered for a sleek, technical connection aesthetic.



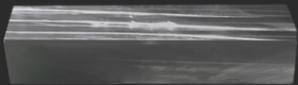
UNIVERSAL PIN CONNECTOR™

CAST CONNEX Universal Pin Connectors™ are sleek, clevis-type standardized fittings designed to connect to hollow structural section (HSS) elements for use in architecturally exposed structural steel (AESS) applications.



HIGH INTEGRITY BLOCK™

CAST CONNEX High Integrity Block™ structural elements are specially engineered and manufactured solid steel sections which simplify the design and fabrication of heavily loaded structural connections and elements, and provide unparalleled strength, quality, and reliability.



TD TERRACE

TD Terrace at 160 Front Street West is a 47-story addition to the Toronto skyline. At its crown, a hospitality-inspired space with panoramic views flaunts a dramatic display of Architecturally Exposed Structural Steel (AESS), constructed using custom-designed CAST CONNEX Diablo Bolted Splices (DBS).

These DBS fittings—based on the standard product line—were adapted to meet the unique structural demands, visual expression, and construction requirements of the crown feature.

Architect: AS+GG | Structural Engineer: RJC Engineers | Steel Fabricator: Walters Group | General Contractor: PCL Construction | CAST CONNEX Component: Custom Diablo Bolted Splice (DBS)



30 HUDSON YARDS

30 Hudson Yards — a 90-story, 1,296-ft tall steel-framed skyscraper — is the anchor of the Hudson Yards mixed-use development in New York. As one of the tallest office buildings in the city, it is home to the city's highest open-air observation deck, which cantilevers out from the building 1,100-ft above grade.

CAST CONNEX developed the High Integrity Block (HIB) for the heaviest stressed, multi-axis joints in the tower. The steel production and quality control of the HIB enabled the production of steel sections up to 4-ft by 4-ft in cross section that exhibit a minimum of 50-ksi yield strength through their full cross section and in all three directions.

Architect: KPF | Structural Engineer: Thornton Tomasetti | Construction Manager: AECOM Tishman | Steel Fabricator: Corey Estructuras | Erector: W&W|AFCO Steel | CAST CONNEX Component: High Integrity Block (HIB)

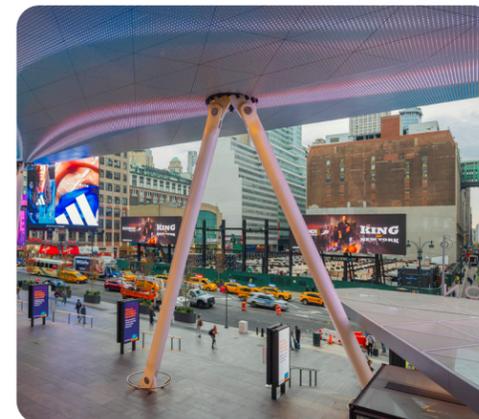
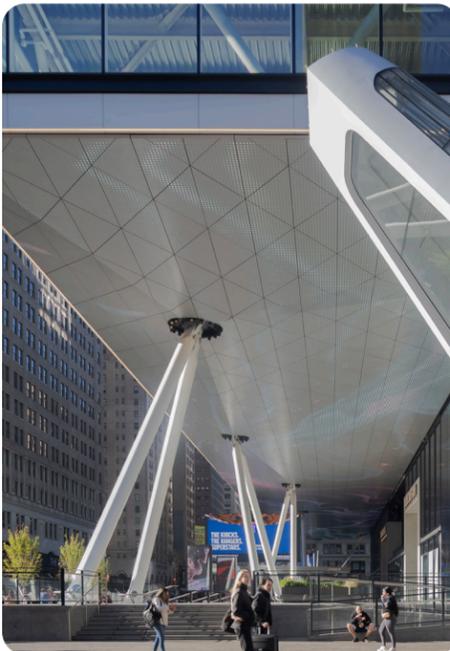


PENN 2

Large CAST CONNEX Universal Pin Connectors (UPC) were custom-designed to fit at both ends of massive V-shaped columns, forming the new podium that's transformed the façade of the iconic PENN 2.

Additionally, standardized UPCs are incorporated in braces within the bustling structure atop the podium. The specification of these connectors resulted in unmatched precision in achieving complex transitional geometries that transcend the capabilities of standard fabrication methods on a grand scale.

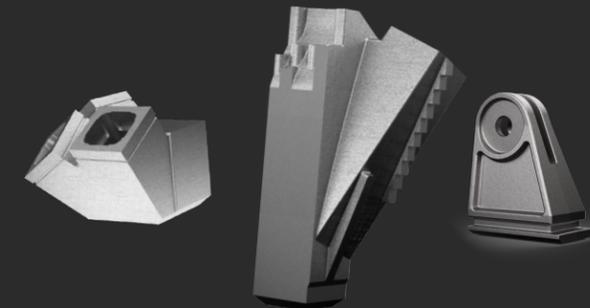
Architect: MdeAS Architects | Structural Engineer: Severud Associates | General Contractor: Skanska USA | Steel Fabricator: Crystal Steel Fabricators | CAST CONNEX Component: Universal Pin Connector (UPC)



CUSTOM SOLUTIONS

CAST CONNEX provides design-build services for custom cast steel components. Our experience with steel castings for structural and architectural uses is unparalleled.

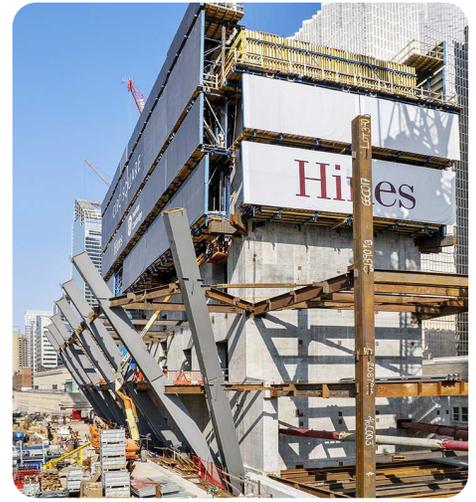
We leverage steel casting manufacturing to offer our clients unique opportunities for optimization and beauty in structural form. We've been engaged by and provided our services to owners, architects, engineers, general contractors, and steel fabricators for both public and private projects.



CIBC SQUARE TOWER II

Steps away from Toronto's Union Station, CIBC Square II at 141 Bay Street is the second high-rise of the CIBC Square development. This 50-story, 792-ft tall steel-concrete hybrid structure echoes the architecture of its sister tower but built overhanging the active rail lines. Its structural frame tapers down from Level 7 to 3 to work with existing infrastructure which created unique structural and construction challenges.

CAST CONNEX designed customized steel castings at the Level 3 corner nodes that resolved the complex geometry between the diagonal steel struts and concrete core, resisted deviating gravity and through-forces, and supported construction with precision machined features. HIBs were included at Level 7, and an architecturally exposed custom steel casting is featured at the Level 4 podium.

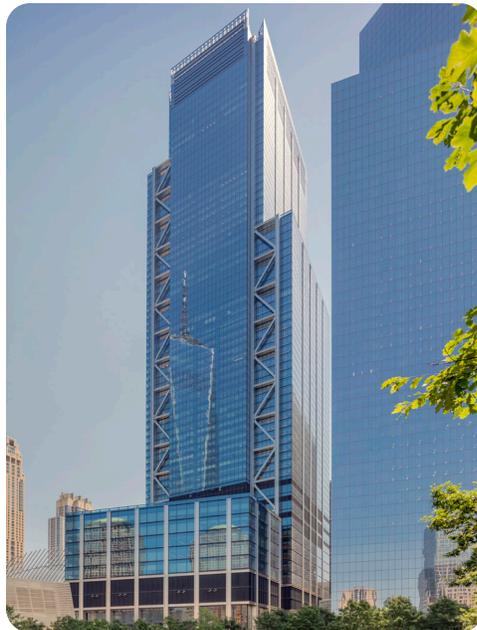


Architects: Wilkinson Eyre Architects, Adamson Associates Architects | Structural Engineer: RJC Engineers | Steel Fabricator: Canam Group/Supermetal Construction Inc. | General Contractor: EllisDon Corporation | CAST CONNEX Components: Custom Casting & High Integrity Block (HIB)

3 WORLD TRADE CENTER

CAST CONNEX was retained to detail and supply the custom-designed cast steel connectors for 3 World Trade Center in New York.

Custom cast steel clevis-type pin connectors support the suspended glass floor of the Retail Redevelopment-East area. These highly visible AESS steel castings connect to built-up box steel floor girders and feature architecturally expressed recess reveals to highlight their form.



Architect: Rogers Stirk Harbour + Partners | Structural Engineer: WSP | General Contractor: AECOM Tishman | Steel Fabricator: Owen Steel | CAST CONNEX Component: Custom Casting

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