

CXJ-400

DUAL-CELL CENTER GLAND EXPANSION JOINT

DESCRIPTION

CXJ-400 is an extruded thermoplastic expansion joint product consisting of a 100mm (4") wide dual-cell center gland with two integrated flashing flanges on both sides of the center gland. The CXJ-400 Expansion Joint is integrated with the waterproofing system on the exterior surface of the below-grade foundation; achieving a positive seal and continuity with the below-grade waterproofing system across an engineered expansion joint. The CXJ-400 Expansion Joint can be used with a variety of CETCO waterproofing systems, including VOLTEX, ULTRASEAL, STRATASEAL HR, and COREFLEX.

Movement at the joint is accommodated by the geometric shape of the double-cell, center gland configuration with two material layers to form the seal. The center gland geometric shape is purpose-designed for low strain during movement for optimal performance.

The unique double-level flange design of the CXJ-400 facilitates multi-layered, watertight integration with the waterproofing system. A termination bar and anchors are installed on both sides of the center gland to mechanically secure both inside flanges of the CXJ-400 to the structure.

FEATURES

- High Movement Capability
- Double-Cell Center Gland Provides Redundant Sealing
- Double-Level Flanges Provide Integration with Waterproofing Membrane
- Factory-fabricated transition Joints
- Heat welded Seams for watertight connections

APPLICATION

CXJ-400 is designed for use at structural concrete expansion joints in below-grade foundations including backfilled walls, under slabs, and blind-side shoring wall applications, such as soldier pile and lagging. CXJ-400 can be used for both hydrostatic and non-hydrostatic conditions.

Corners and transitions (tees, crosses,) must be measured and submitted to CETCO for the manufacturing of factory-fabricated welded joints. Only factory-fabricated corners and transitions are accepted for installation and eligible for manufacturer's warranty.

Welding of straight in-line segments of the CXJ-400 Expansion Joint is the only welding allowed at the job site, and must be performed by a trained CETCO Applicator to qualify for the manufacturer's warranty eligibility. Welding of in-line segments must be performed per manufacturer's guidelines using all the proper tools, including the CXJ-WI welding iron. CXJ-SS rubber splicing strip should be welded over all in-line gland weld seams to reinforce the field weld at the joined segments.

At the top of the foundation wall, the CXJ-400 installation will typically transition from vertical to horizontal, extending across the top surface of the concrete wall, and turn up a minimum of 150mm (6") (turn up to the height required to meet the building design and local building codes) at the location of the moisture/air barrier plane; then transition to an above-grade expansion joint system provided by Others per the building design. Install CXJ-400 in accordance with manufacturer's guidelines and details to meet the specific project building wall design. Contact CETCO for application and installation information not contained herein.

MOVEMENT CAPABILITY

CXJ-400 can be installed into joints ranging from 75mm to 100mm (3" to 5") wide. Movement capability of the 100mm (4") nominal center gland width is plus or minus 62mm (2 1/2"); thereby CXJ-400 gland can compress to 37mm (1 1/2") and expand to 162mm (6 1/2") in service.

SIZING

The CXJ-400 Expansion Joint is a 100mm (4") wide center gland expansion joint product. Lengths are custom manufactured to actual project dimensions as measured and submitted by the contractor. Transition corner angles are custom manufactured and also require field measurement to be submitted by the contractor. For additional information please contact your local CETCO Representative to assist with ordering of all necessary CXJ-400 Expansion Joint components.

LIMITATIONS

Do not use CXJ-400 as an exposed expansion joint material on traffic bearing decks. CXJ-400 is not intended for use with most split-slab and hard-scaped plaza deck conditions; consult CETCO for guidelines. Transition from below-grade to above-grade walls shall be sealed with an expansion joint material supplied by others.

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