ASSEMBLY INSTRUCTIONS

(507) 287-3535 www.emcorenclosures.com

10-Series Tie-Down Kit IBC

About this kit

The 10-Series Tie-Down Kit IBC is designed to secure a 10-Series rack to the floor and meets life-safety requirements for protecting building occupants from the danger of cabinets falling over or obstructing egress routes during a seismic event as defined in the International Building Code (IBC).

Note: It is assumed that the rack and equipment installed in the rack are not required to remain functional following a seismic event.

Kit contents

This kit contains the following items:

- Seismic Brackets (4)
- Frame Spacers (4)

Note: Securing the rack to the floor requires additional concrete anchoring hardware that is not included in the kit.

Rack loading tips

There are two critical factors for installing racks in a seismic location

1. Installation of the racks
    - To achieve maximum protection, the rack needs to be properly and firmly anchored to the floor of the building. Consult a structural/building engineer if you need help installing the concrete anchors.
2. How the equipment is distributed in the racks
    - Keep the center-of-gravity low by placing heavier components towards the bottom of the enclosure.
    - Ganging enclosures will produce a more stable installation than a single rack.

For more information

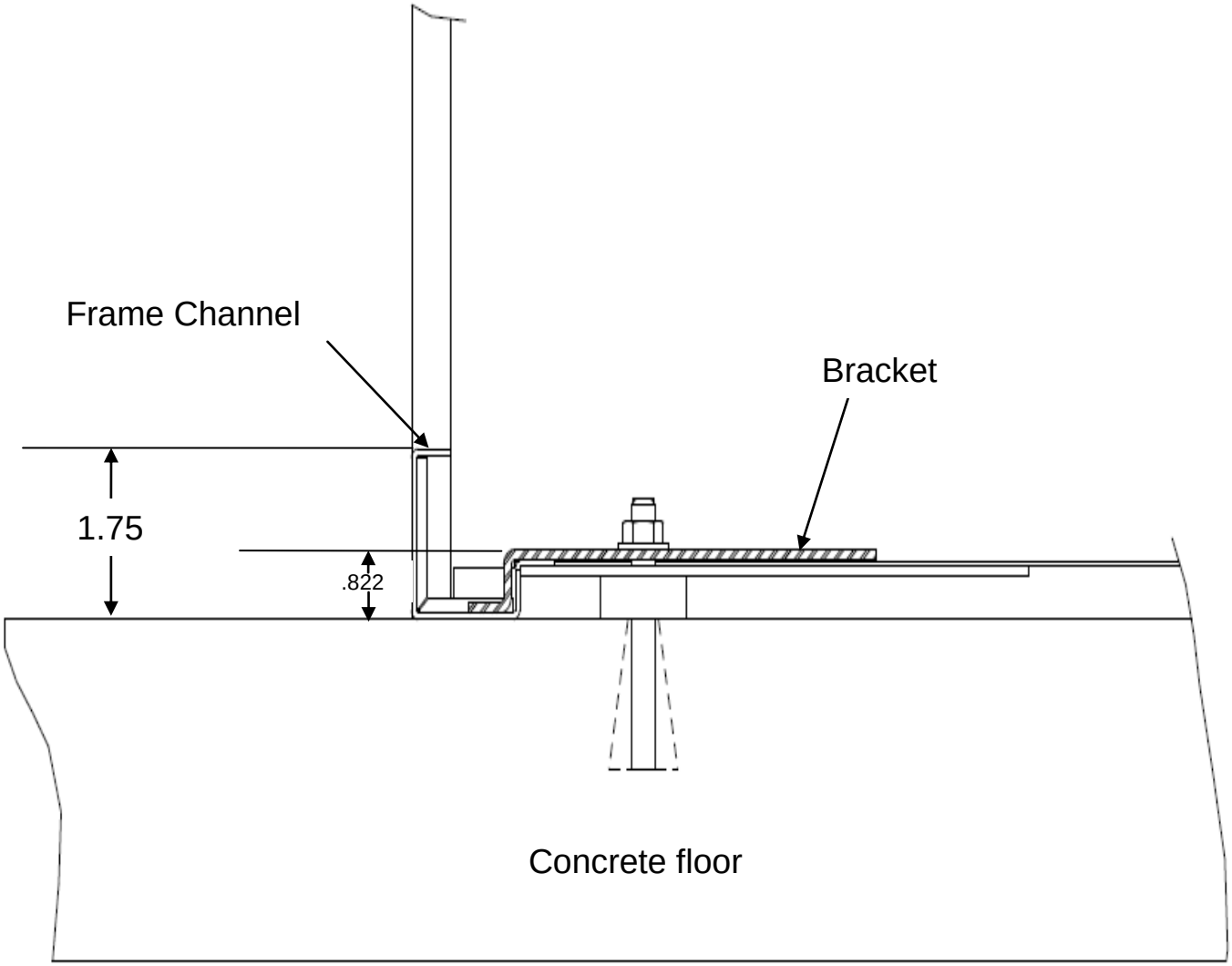
The following source provides the structural calculations necessary for the building engineer to properly choose and install the appropriate concrete anchor based on your building's location, floor height, and floor type.

10-Series Structural Calculations For Seismic Anchorage http://www.crenlo.com/enclosures

Tips for Anchor Selection

Tip: Use the following section view to appropriately size your anchor length. The following dimensions will help you size your anchor to not protrude into the first rack space.

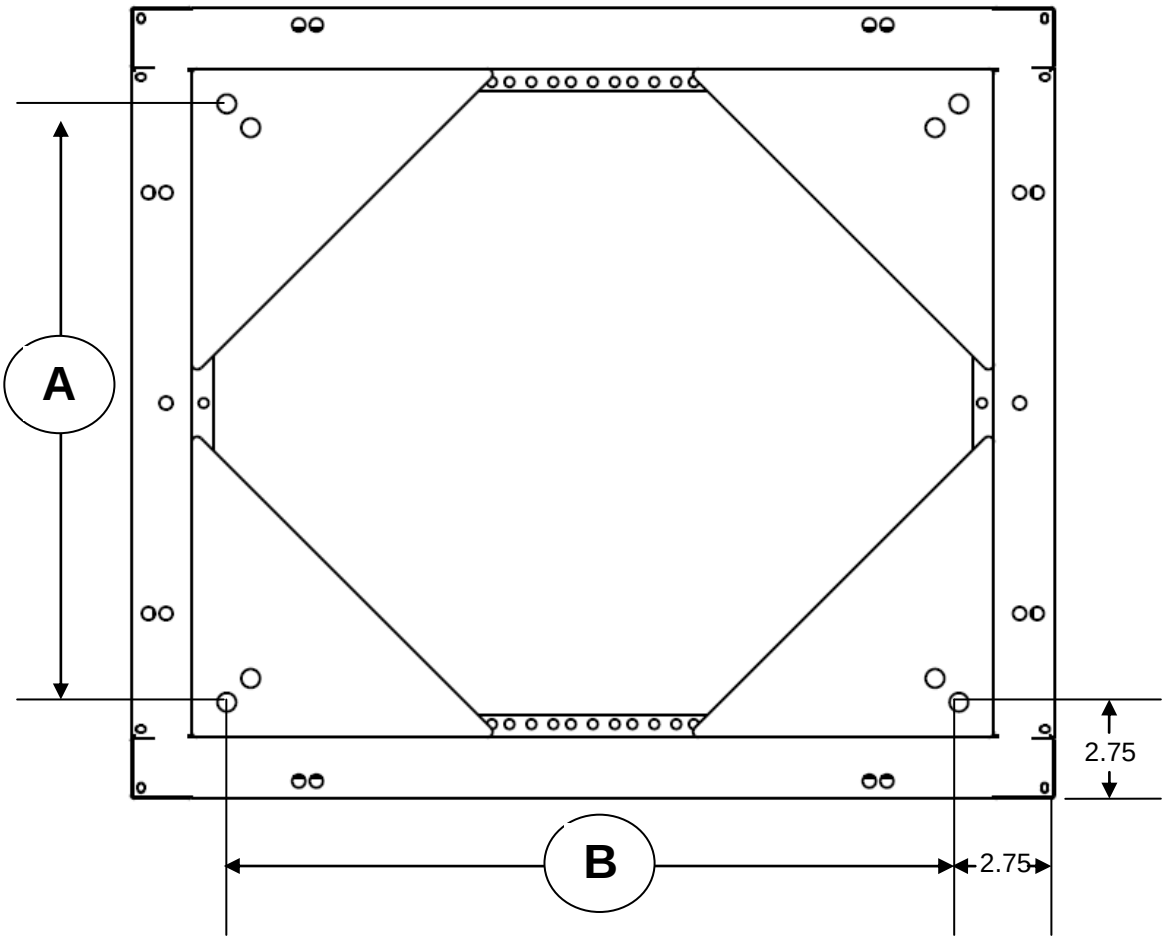
Section view of frame corner



Securing the rack to the floor

Warning: The enclosure cannot be anchored to the ground using the included brackets if the casters or leveling feet are on the frame.

The following figure indicates where to drill the holes to fully secure the rack to the floor.



Frame Model	Overall Depth (in.)	Rack Width (in.)	Overall Width (in.)	A (in.)	B (in.)
26XX19	26.313	19	22.562	17.062	20.852
31XX19	31.563	19	22.562	17.062	26.102
36XX19	36.875	19	22.562	17.062	32.018
42XX19	42.125	19	22.562	17.062	36.665
26XX24	26.313	24	27.562	22.062	20.852
31XX24	31.563	24	27.562	22.062	26.102
36XX24	36.875	24	27.562	22.062	32.018
42XX24	42.125	24	27.562	22.062	36.665

Installing the brackets and spacers

Once the anchors are in place, the brackets and frame spacers may be installed. The following figure shows how to install these components.