

ISO-FLEX CAPSPAN INSTALLATION PROCEDURES

1. General Requirements

Ensure that the expansion joint stem openings are of an acceptable width along the entire length and suitable for the selected size of CapSpan Cover System.

Ensure that slab surface is smooth along its length. High spots should be ground down, or otherwise leveled by filling low spots.

LIMITATIONS: Iso-Flex CapSpan is not appropriate for use in high speed or high load applications.

2. Preparation

CapSpan Cover Plates are shipped in standard 4, 5 and 6 Ft. lengths. See chart below for standard lengths of CapSpan systems and standard location of anchors.

PANEL TYPE	LENGTH	ANCHOR PANEL EDGE	Std. Anchor Spacing
CS120:	6 Ft	1.50"	16" OC/4" End Spacing
CS180:	6 Ft	1.625"	16" OC/4" End Spacing
CS180HD:	5 Ft	1.375"	18" OC/3" End Spacing
CS240HD:	5 Ft	1.375"	18" OC/3" End Spacing
CS360HD	4 Ft	1.375"	14" OC/3" End Spacing

It is important to understand that anchors are typically installed along one running edge. This allows for any thermal movement of structural expansion joints under the CapSpan. Specific conditions may require anchors along both edges of the CapSpan panels. Locations of the anchors are 1.375", 1.50" or 1.625" from the edge of the panel, and are identified by a "V" shaped, continuous groove in the panel. The anchor center spacing and end spacing differs based on length of the size panel being installed.

Unpack and lay out the CapSpan Cover plates. Note that the panels have molded tongue and groove ends. Be sure to align the panels so that the mating ends align. Measure and make any cuts on the jobsite to meet overall length conditions. The cover plates can be miter cut in the field to accommodate any change of direction conditions.

3. Anchoring

Drilling of the CapSpan panels is accomplished by using a 1/2" high speed countersunk drill bit.

Drilling of the typical floor anchorage holes is accomplished by using a 3/8" masonry drill bit. Drill to a minimum of 3" deep. Blow out all anchor holes to remove all dust.

The standard Hilti Screw Anchor KH-EZ C is a 3/8" x 3" carbon steel, zinc coated flathead screw (Item Number 2265704). A stainless steel option is available which is the Hilti Screw Anchor KH-EZ SS316 (Item Number 2245625). Both anchor options utilize a hex head and require a Torx Bit TX50.

Insert the anchor through the CapSpan cover plate. Drive the anchor into the anchor hole until firmly seated. Follow initial tightening by torquing the anchor to 18 ft.-lbs.

4. Installation

It is recommended that the cover plates be located over the joint gap per project conditions and that a chalk line should be snapped to ensure a straight installation.

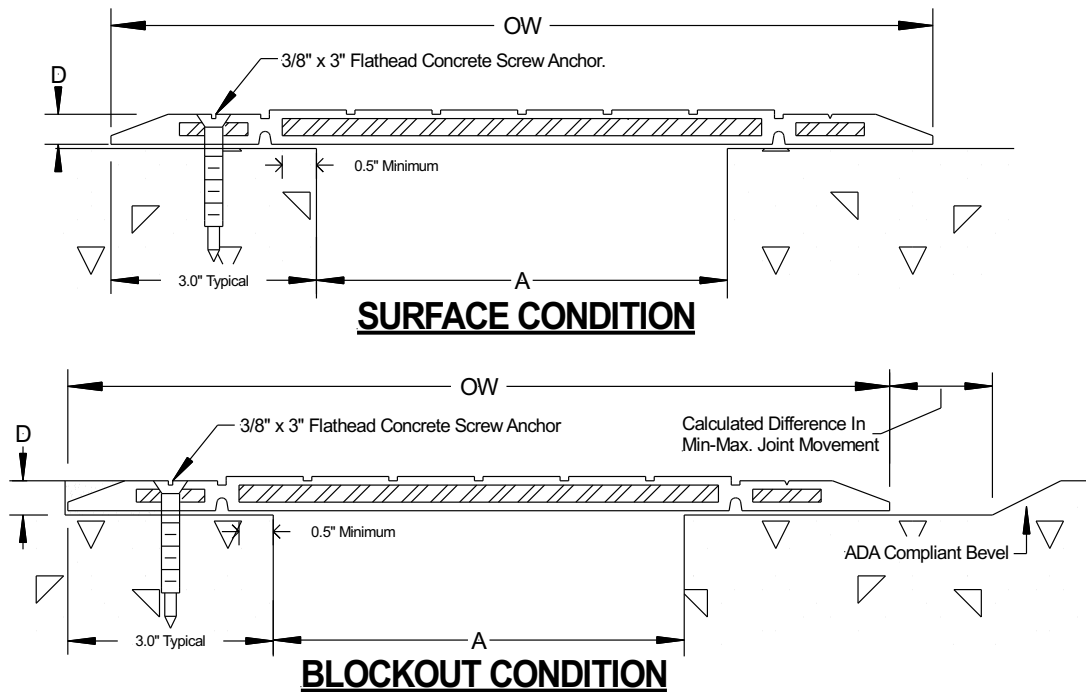
Begin by drill the CapSpan panels utilizing the 1/2" high speed countersunk drill bit as outlined above.

Next, using the CapSpan panel as a template locate and pre-drill the pilot holes in the concrete deck for the anchor at each end of the panel, utilizing a 3/8" masonry bit. Blow out any dust and partially insert an anchor in each of the end locations. This will hold the panel in place. Now using the panel as your template drill a pilot hole in the remaining anchor locations. It is recommended that the adjoining plate section ends be held apart from each other by 1/8" in order to allow for thermal expansion.

All of the steps in this process will be repeated for each section.

5. Completion

The installation can be opened to traffic once the anchorage is fully secured into place. Ensure that all panels are fully anchored and are well seated to the deck prior to introduction of traffic.



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