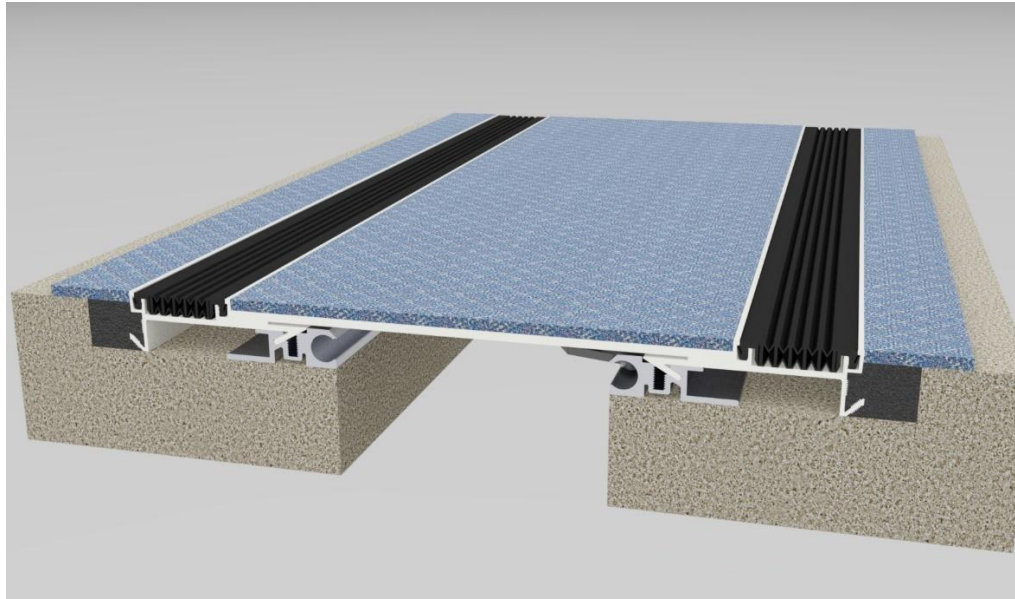




BUILDING TRUST



Installation Procedure



Wabo®SeismaxPlus, NBS-200 thru NBS-2400 Interior Floor Seismic Expansion Joint System

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

- 1) Carefully read and understand installation procedure. Contact Sika Emseal's Technical Service Department at 508-836-0280 for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at 508-836-0280 with Emseal's order number and invoice for prompt assistance.
- 3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.
- 4) Review Emseal shop drawings for project specific detailed information.



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Health & Safety

During the installation of any Sika Emseal product, appropriate personal protective items should be worn at all times, including but not limited to the following:

- Proper work clothing
- Safety glasses
- Safety boots
- Gloves
- Hard hat



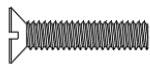
Local rules and regulations regarding safe work environments and health should be followed.

Product Components

The following components are required for the installation of this product:



1/4" x 2 1/4" Threaded Concrete Anchor w/ Nut & Washer
P/N: 6587



1/4" X 1 1/4" Lg Screw
P/N: 5621



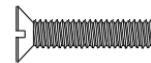
1/4" X 3/4" Lg Screw
P/N: 5620 *



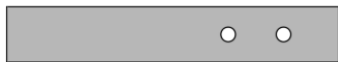
Aluminum Base Extrusion
P/N: 15804



Elastomeric Seal
P/N: 15340 (Black)
P/N: 15341 (Beige)
P/N: 15342 (Grey)



1/4" X 1" Lg Screw
P/N: 5634

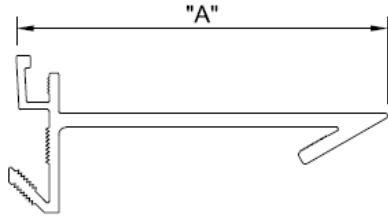


1/4" x 1" x 6" Splice Bar
P/N: 14050

* = Use only for NBS-1800/2400 System Sizes

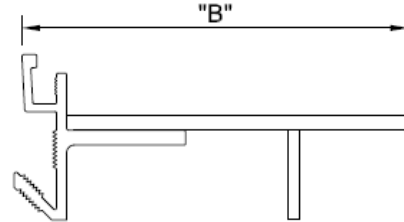


The following components vary in size depending on model of system:



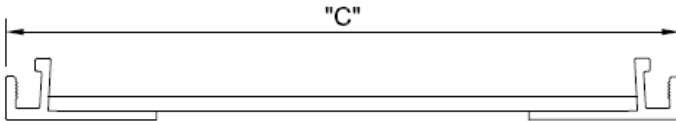
Aluminum Edge Extension
(Refer to Chart Below for sizes and P/n)

Model	P/N	"A"
NBS-200/400	15805	3 1/4"
NBS-600/800	15806	4 1/4"
NBS-1000/1200	15807	5 1/4"



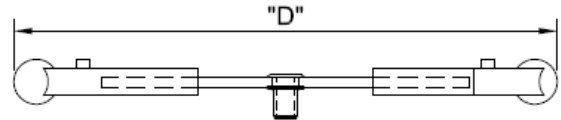
Manufactured Aluminum Edge Extension
(Refer to Chart Below for sizes and P/n)

Model	P/N	"B"
NBS-1800	15816	7 1/32"
NBS-2400	15819	8 1/2"



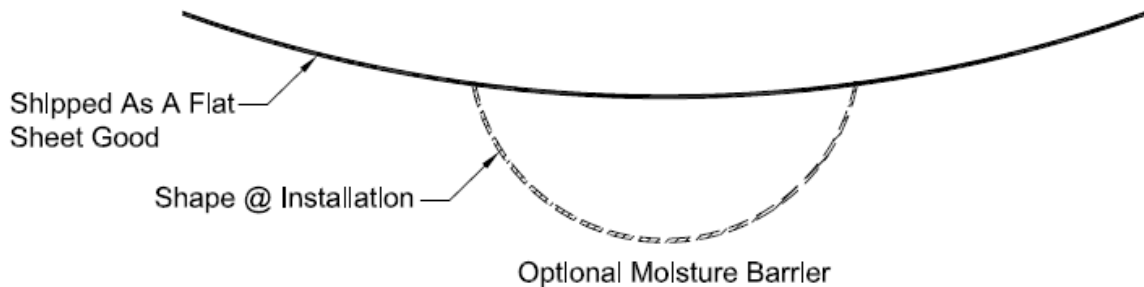
Aluminum Center Slide Plate
(Refer to Chart Below for sizes and P/n)

Model	P/N	"C"
NBS-200	15621	5 5/8"
NBS-400	15623	7 5/8"
NBS-600	15625	11 5/8"
NBS-800	15627	13 5/8"
NBS-1000	15629	17 5/8"
NBS-1200	15812	19 5/8"
NBS-1800	15814	29 1/8"
NBS-2400	15817	38 1/8"



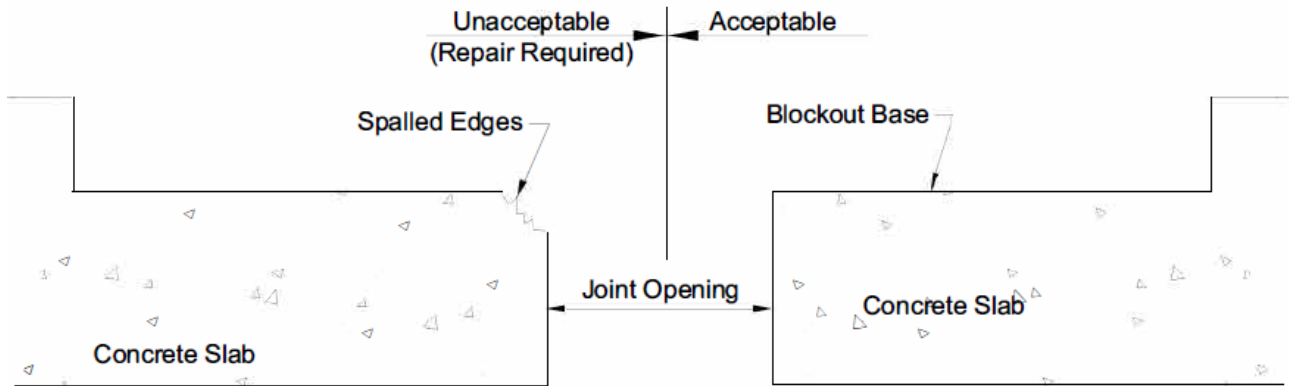
Seismic Self-Centering Bar
(Refer to Chart Below for sizes and P/n)

Model	P/N	"D"
NBS-200	11089	7"
NBS-400	15643B	7 3/8"
NBS-600	15643	12 3/8"
NBS-800	15630	18 3/8"
NBS-1000	15630	18 3/8"
NBS-1200	15631	22 3/8"
NBS-1800	15644	32 3/8"
NBS-2400	15604	38 3/8"

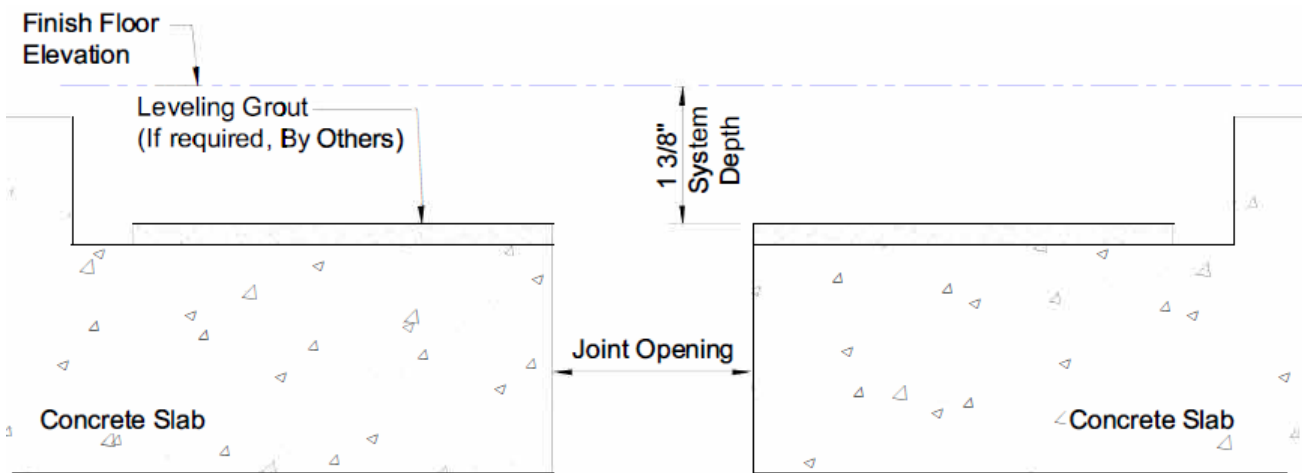


Installation

- 1** Prepare concrete blockout for installation of Wabo®SeismaxPlus expansion joint system. Deficiencies in blockout base and spalled edges must be corrected prior to beginning work. **Note:** Utilizing concrete repair material, repair corner of concrete slab following manufacturer's written instructions.

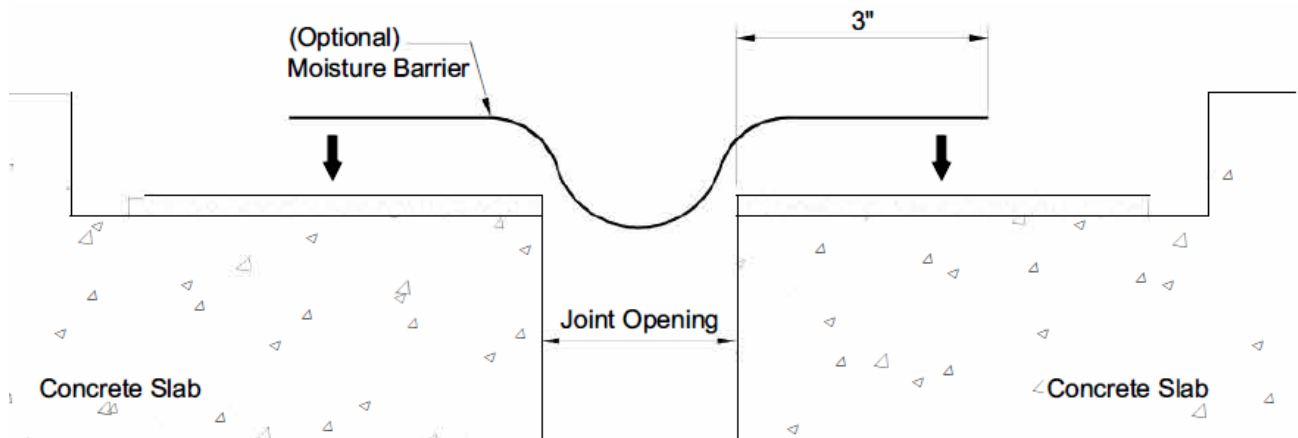


- 2** Prepare concrete blockout for installation of expansion joint. Variations in blockout dimensions must be corrected prior to beginning work. **Note:** Leveling grout is usually not required if blockout was formed true and level to satisfy expansion joint system depth.



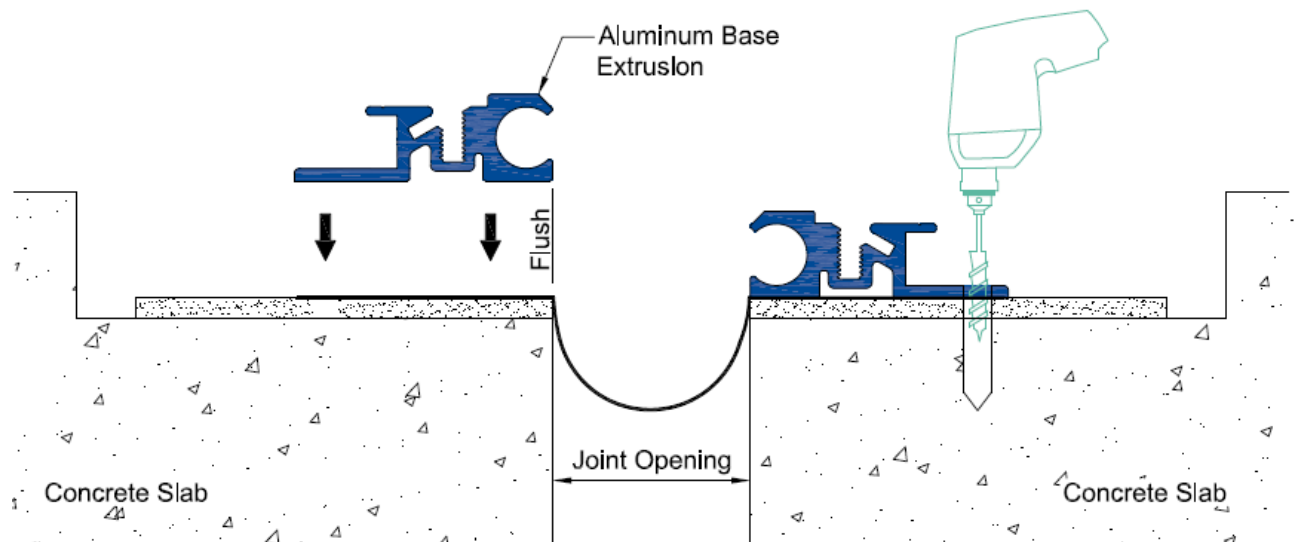
3

(Optional). Install moisture barrier. Maintain proper overlap onto blockout base and temporarily affix with duct tape.



4

Position base member on blockout so cavity of base member is flush with edge of opening. Use base member as a template. With its position fixed, drill hole for $\frac{1}{4}$ " x 2- $\frac{1}{4}$ " concrete anchor to proper depth. Clean out holes using a Shop-Vac.



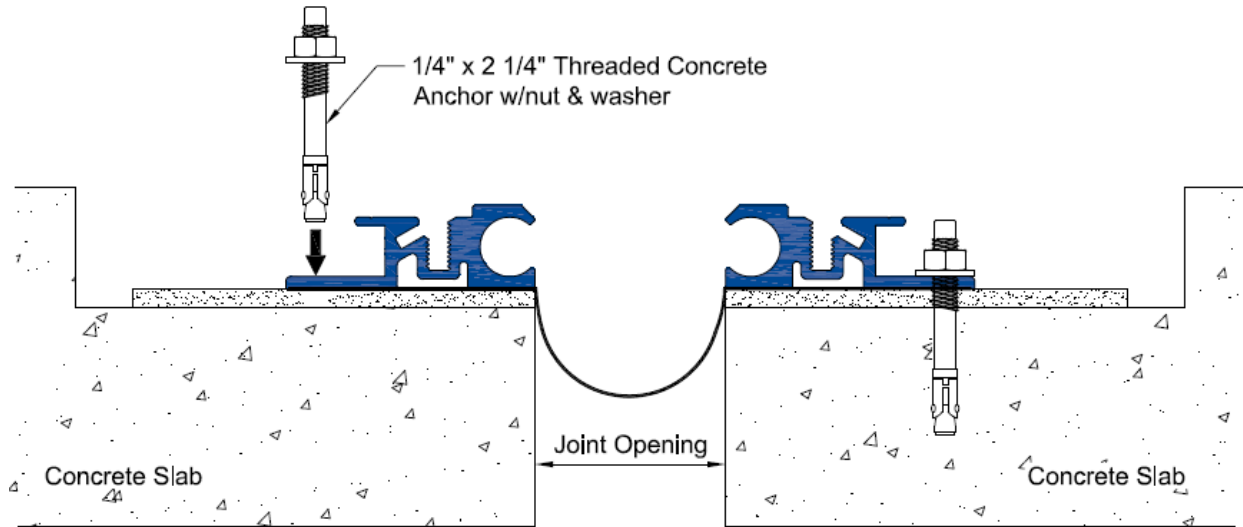
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5

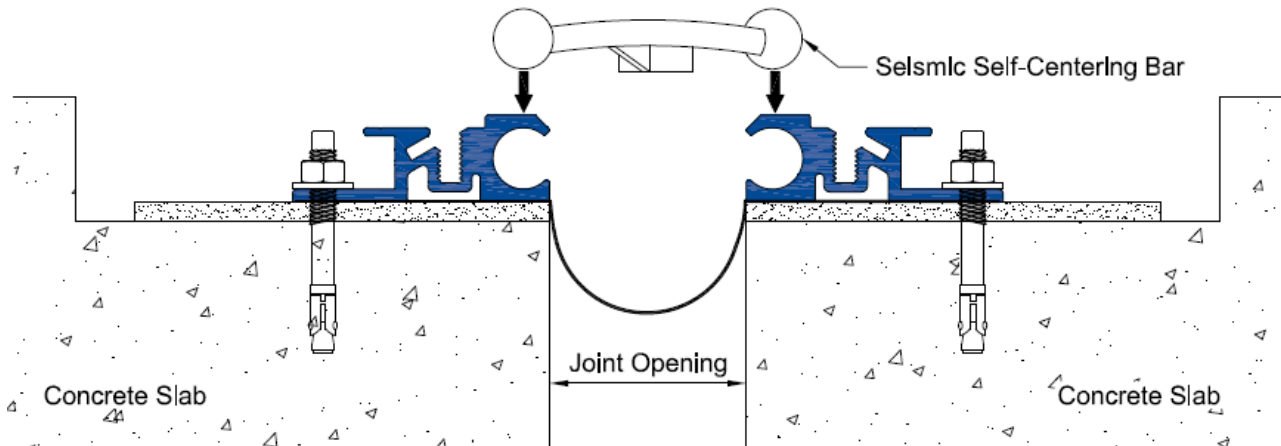
Follow manufacturer's recommendations for proper anchor installation. Remove all debris from moisture barrier by utilizing Shop-Vac.

Caution: Do not install all base members prior to reviewing Step 6.



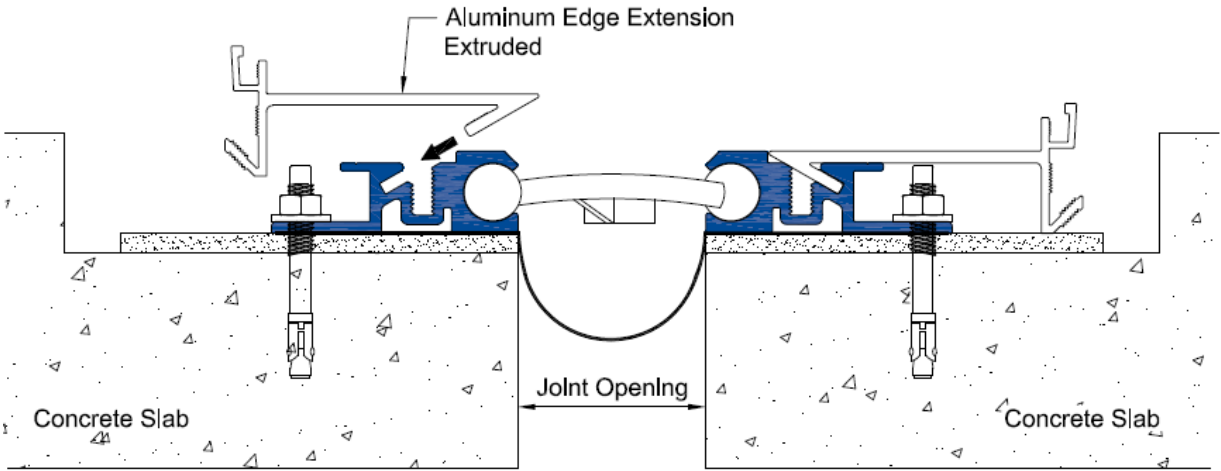
6

As work progresses with placement of base members, install self-centering bars by sliding the sphered ends of the bars into and through the circular cavities of the base members. Set at an approximate spacing of 18" O.C. Ensure the "TOP" indicator is facing up and that all bars are installed with the same horizontal orientation.



7A

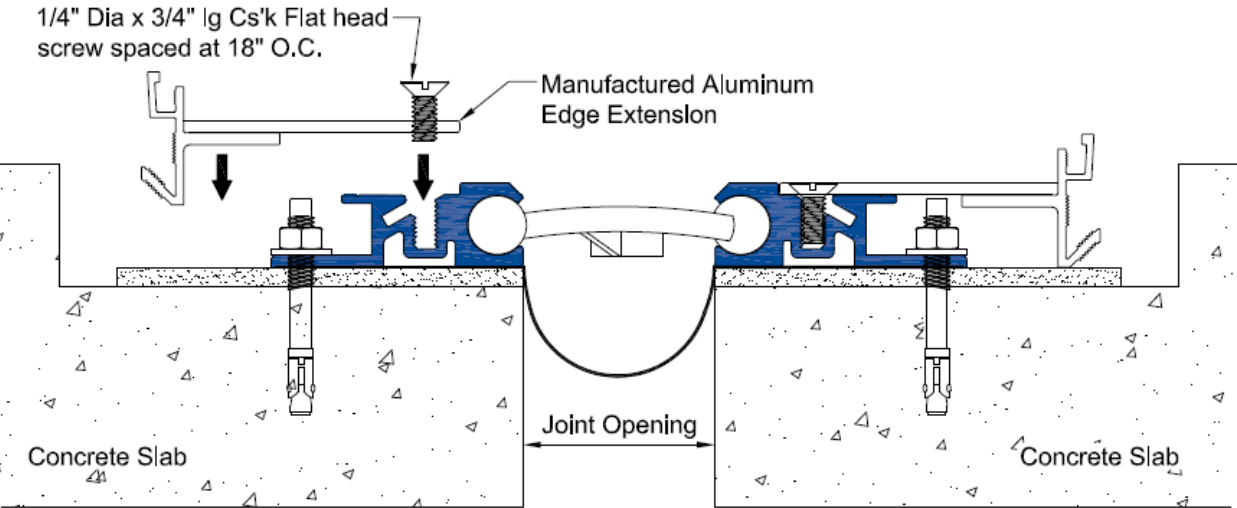
Attach aluminum extension to base member. Aluminum extension type depends on system size. Check Page 3 for proper extension profile.



NBS-200 thru NBS-1200

7B

Attach manufactured aluminum extension to base member. Manufactured Universal Aluminum Extension Type is for NBS-1800 and NBS-2400 system size. Check page 3 for proper extension profile.



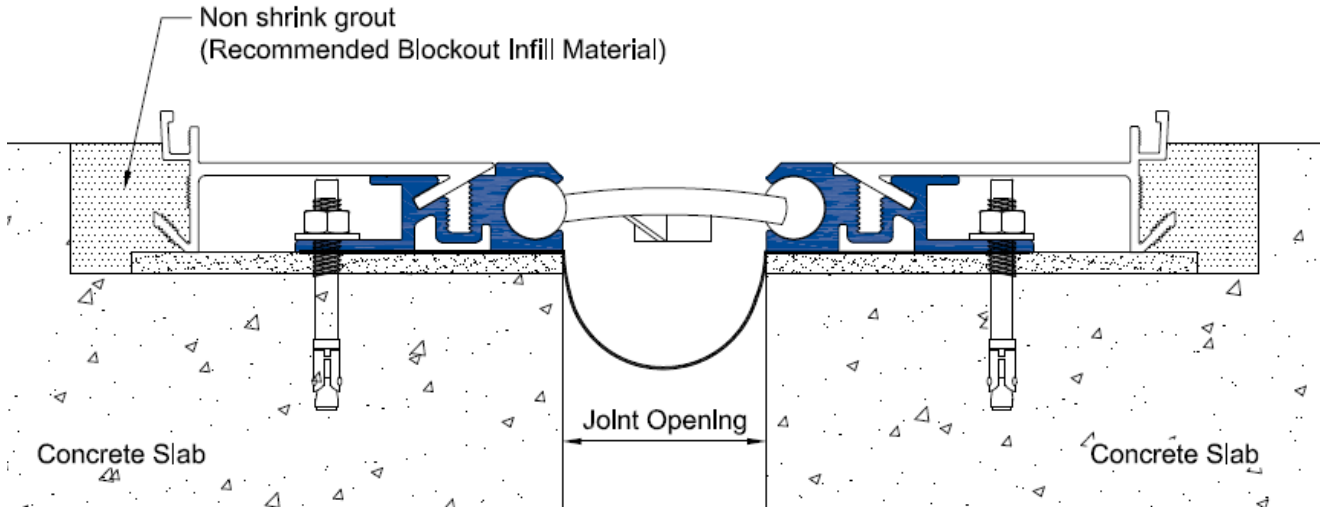
1/4" Dia x 3/4" lg Cs'k Flat head screw spaced at 18" O.C.

NBS-1800 thru NBS-2400



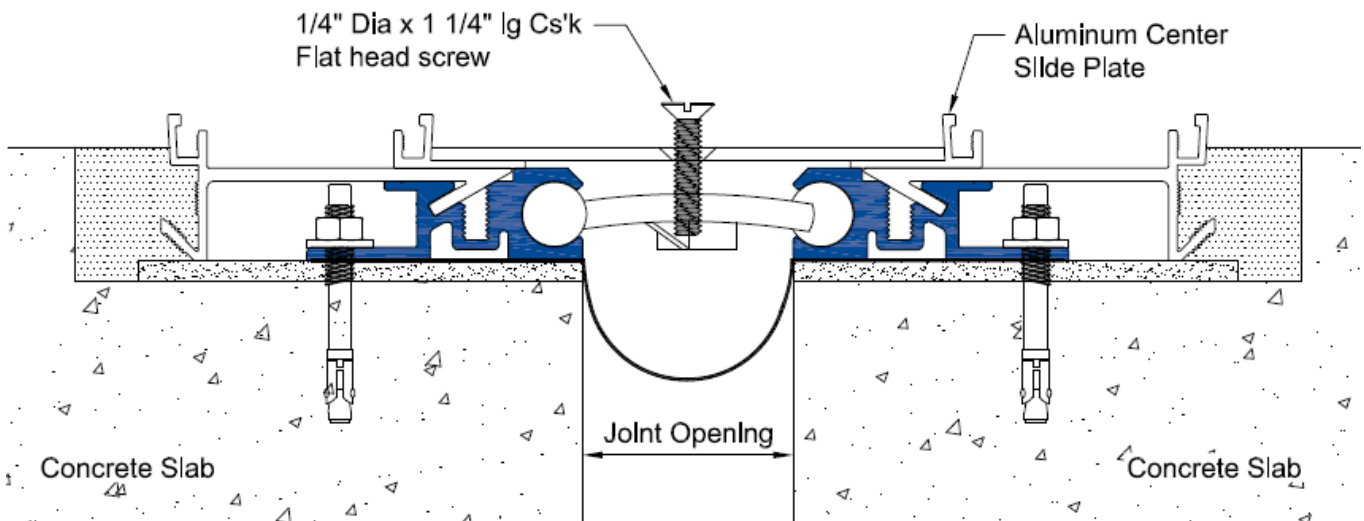
8

Fill blockout with high quality, impact-resistant, non-shrink cementitious filler material. Protect aluminum profiles during placement of material.



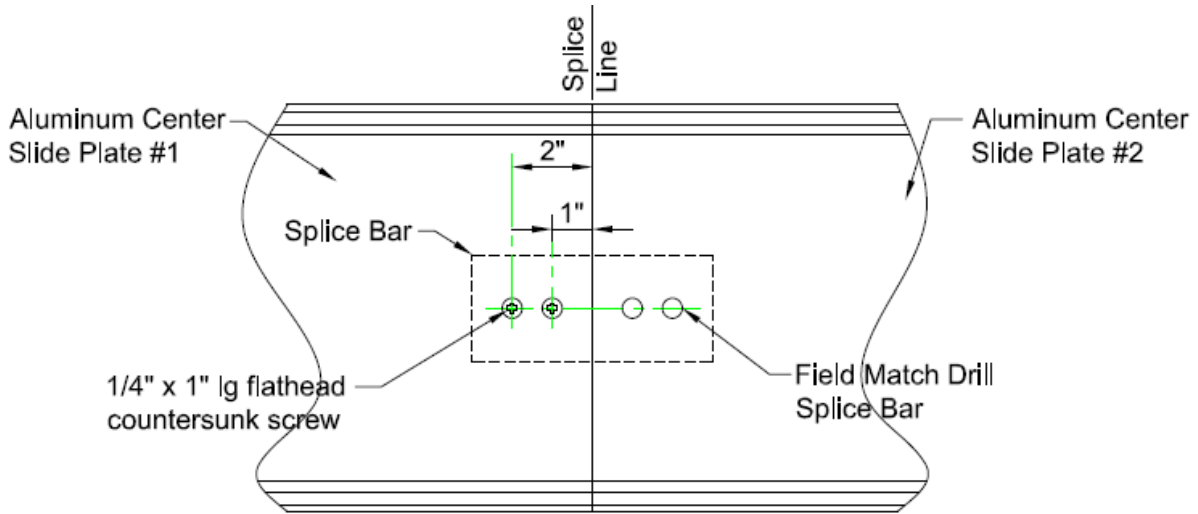
9

Position the center slide plate over expansion opening. Align pre-drilled holes in slide plate with threaded insert in self-centering bars. Fasten with $\frac{1}{4}$ " x 1-1/2" csk flat screw. Tighten to create measurable tension in the bar. Do not overtighten.



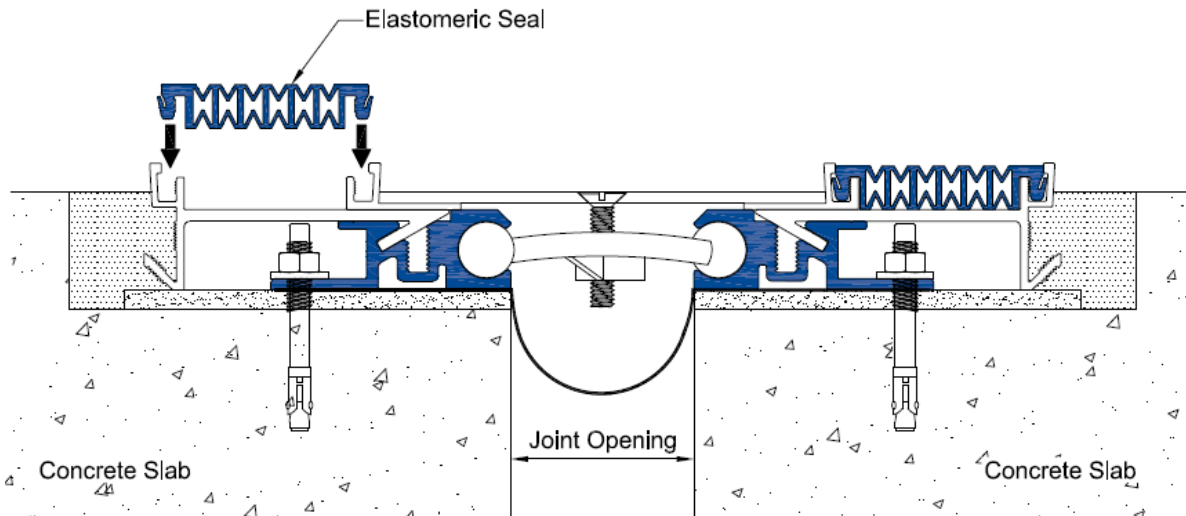
9A

At aluminum center slide plate splice line, attach one side of splice bar to the bottom side of aluminum center slide plate with 1/4" x 1" screws. After one side has been fastened, field match drill holes in splice bar utilizing a .228" diameter drill bit, allowing the aluminum center slide plate as a template. After splice bar has been field drilled, install 1/4" x 1" screws to fasten splice bar to aluminum center slide plate.



10

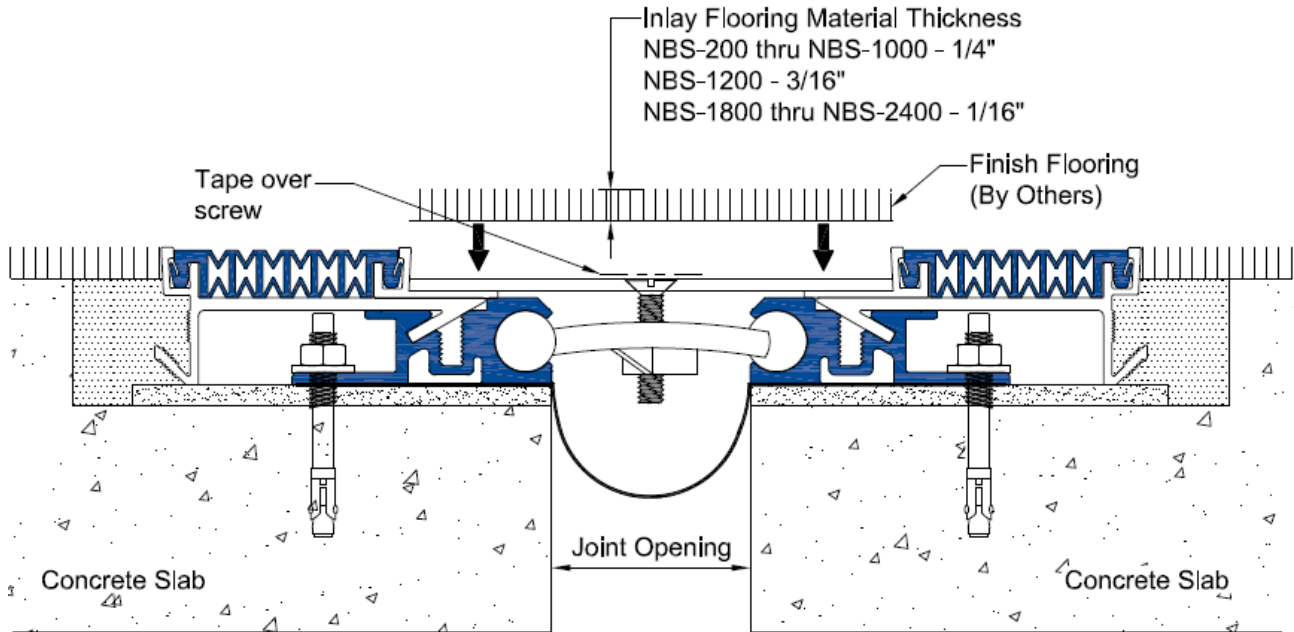
Position seal lug over the extrusion cavity and insert lug into cavity using thumb pressure for initial insertion. Once elastomeric seal is inserted, run your thumb along the top of the lug to ensure complete lug insertion.



11

Install flooring material. Ensure flush installation with top of expansion joint system.

Caution: Contact flooring manufacturer to discuss product application and procedure for proper installation. Allowable thickness of inlay flooring material varies by system sizes.



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Rev. 1.1 02-13-2026



INTERNAL