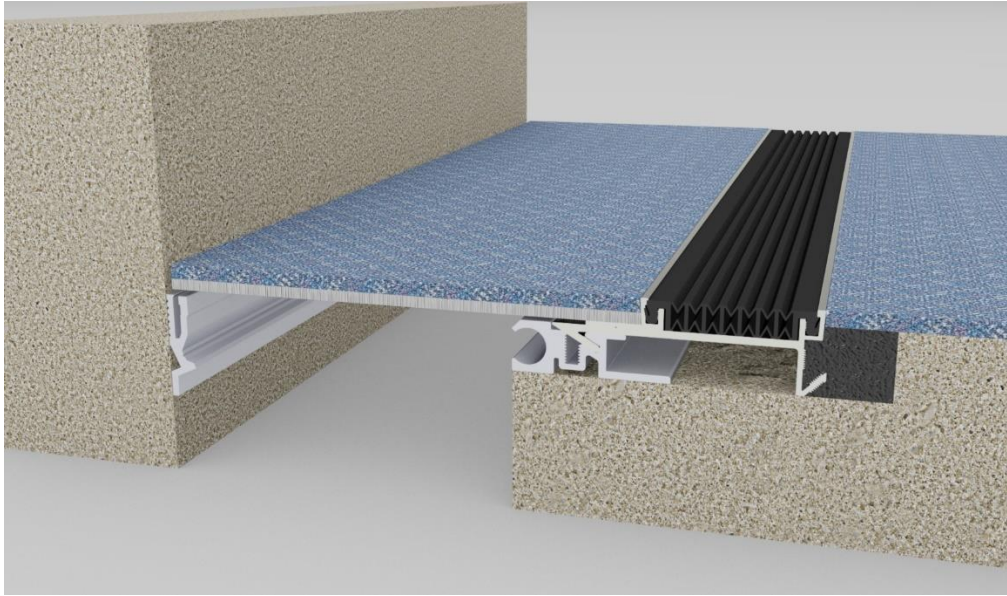


Installation Procedure

Last Updated: March 2019



Wabo®SeismaxPlus, NBS-200C - NBS-2400C

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 WBA's Technical Service Department at (800) 677-4922 for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (800) 677-4922 with WBA'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 WBA shop drawings for project specific detailed information if Engineering services were purchased at time of order.

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Health & Safety

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

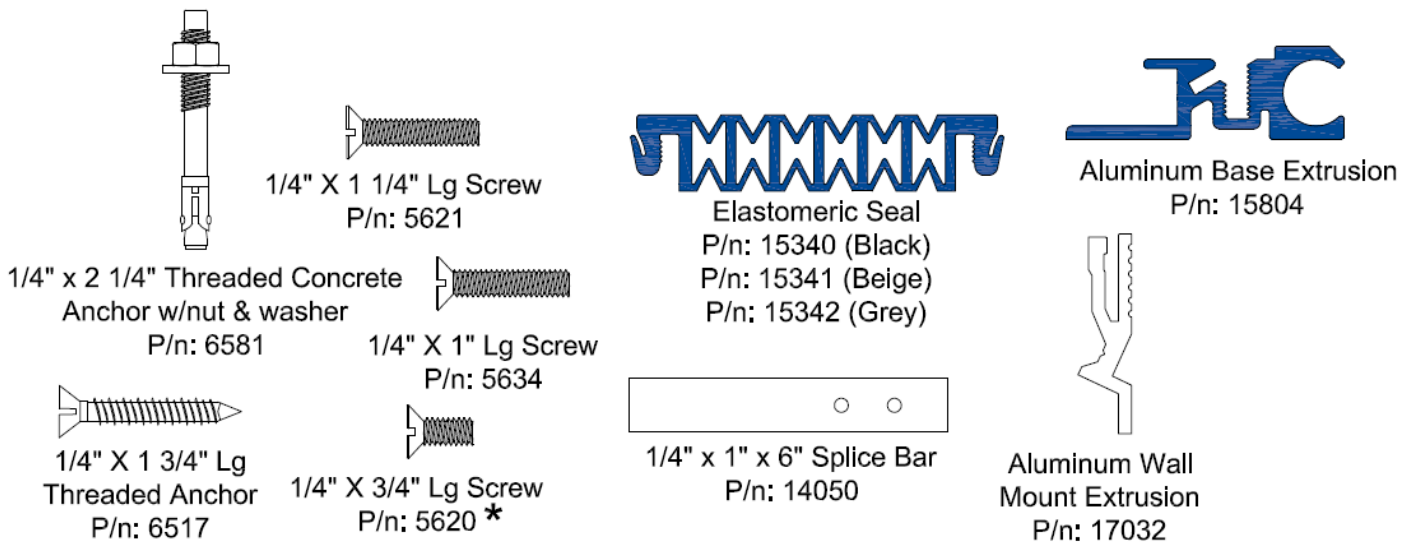
- Proper work clothing
- Safety glasses
- Safety boots
- Gloves
- Hard hat



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

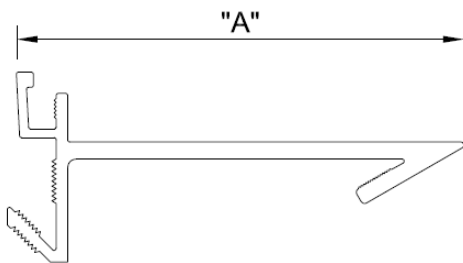
Product Components

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



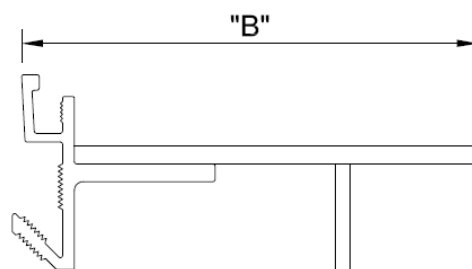
* = Use only for NBS-1800/2400 System Sizes

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



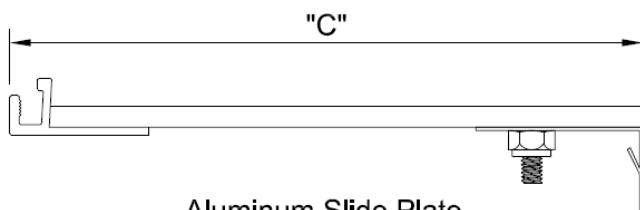
Aluminum Edge Extension
(Refer to Chart Below for sizes and P/n)

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



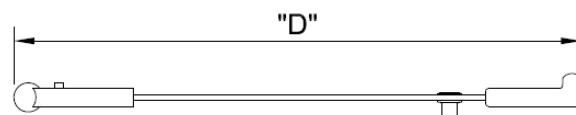
Manufactured Aluminum Edge Extension
(Refer to Chart Below for sizes and P/n)

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



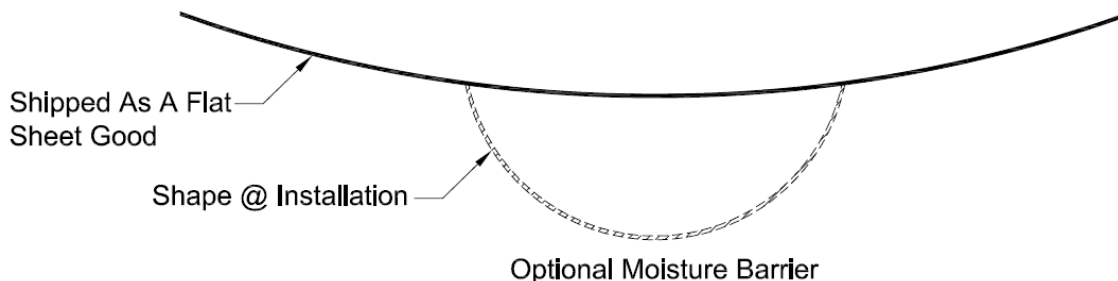
Aluminum Slide Plate
(Refer to Chart Below for sizes and P/n)

Model	P/N	"C"
NBS-200C	15622	3 3/4"
NBS-400C	15624	5 3/4"
NBS-600C	15626	8 3/4"
NBS-800C	15628	10 3/4"
NBS-1000C	15630	13 3/4"
NBS-1200C	15813	15 3/4"
NBS-1800C	15815	23 7/16"
NBS-2400C	15818	30 15/16"



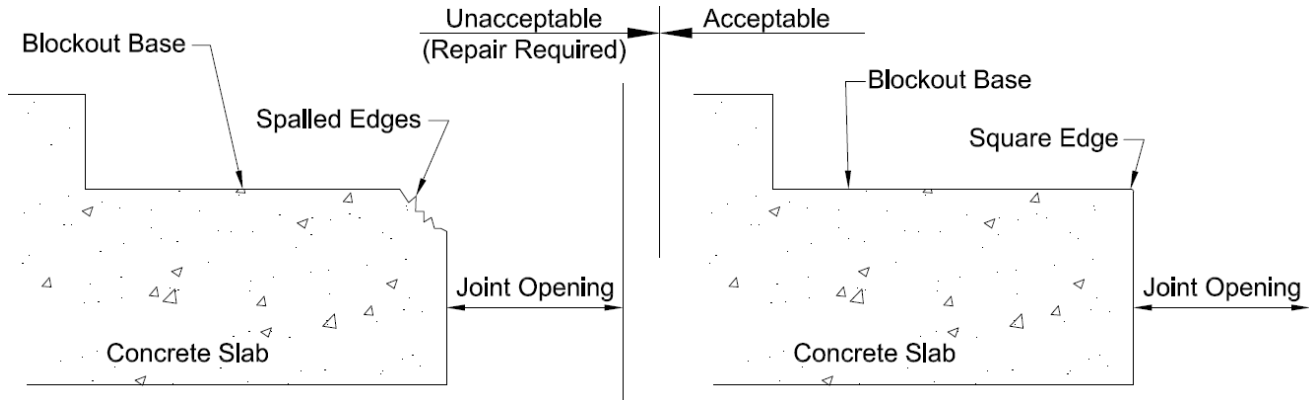
Seismic Self-Centering Bar
(Refer to Chart Below for sizes and P/n)

Model	P/N	"D"
NBS-1000C	15659	12"
NBS-1200C	15660	14"
NBS-1800C	15662	19"
NBS-2400C	15663	22"

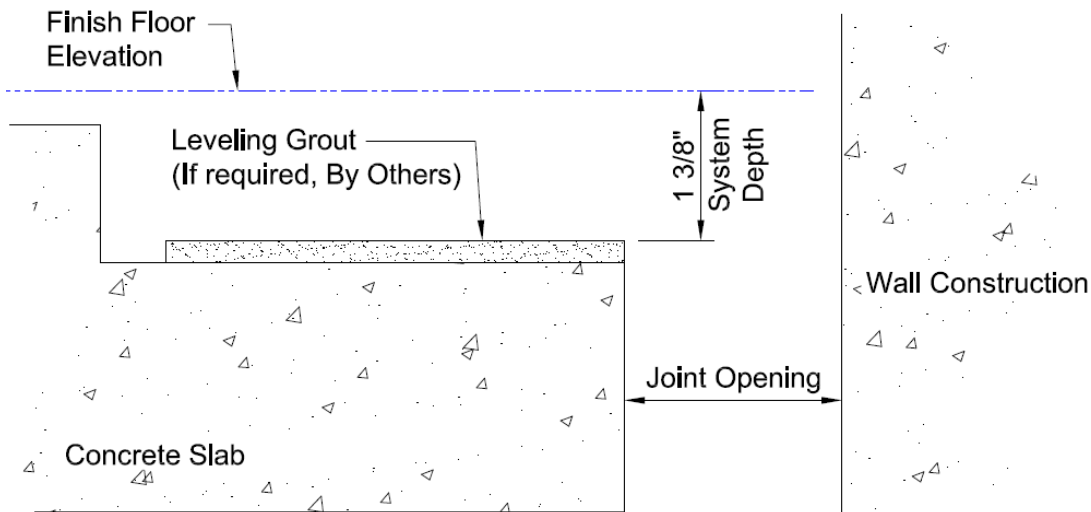


Installation

- 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.

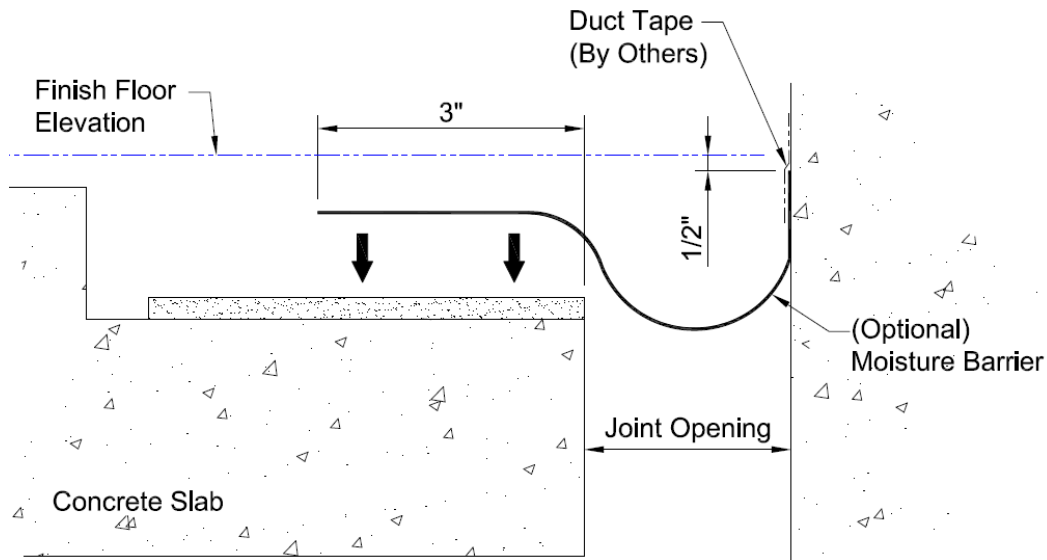


- 2** Prepare concrete blockout for installation of expansion joint. Variations in blockout dimensions must be corrected prior to beginning work.
Note: Leveling grout is usually not required if blockout was formed true and level to satisfy expansion joint system depth.



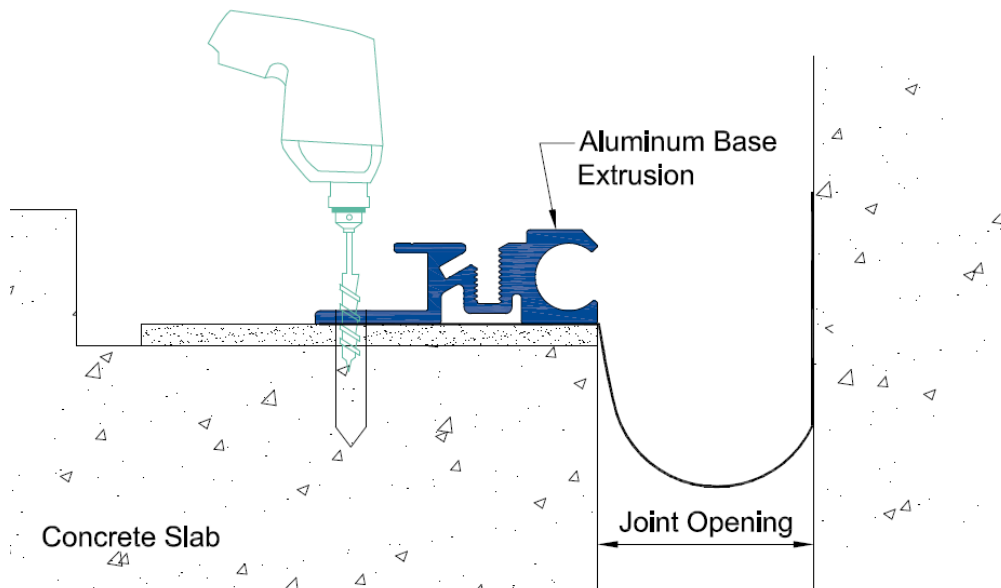
3

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



4

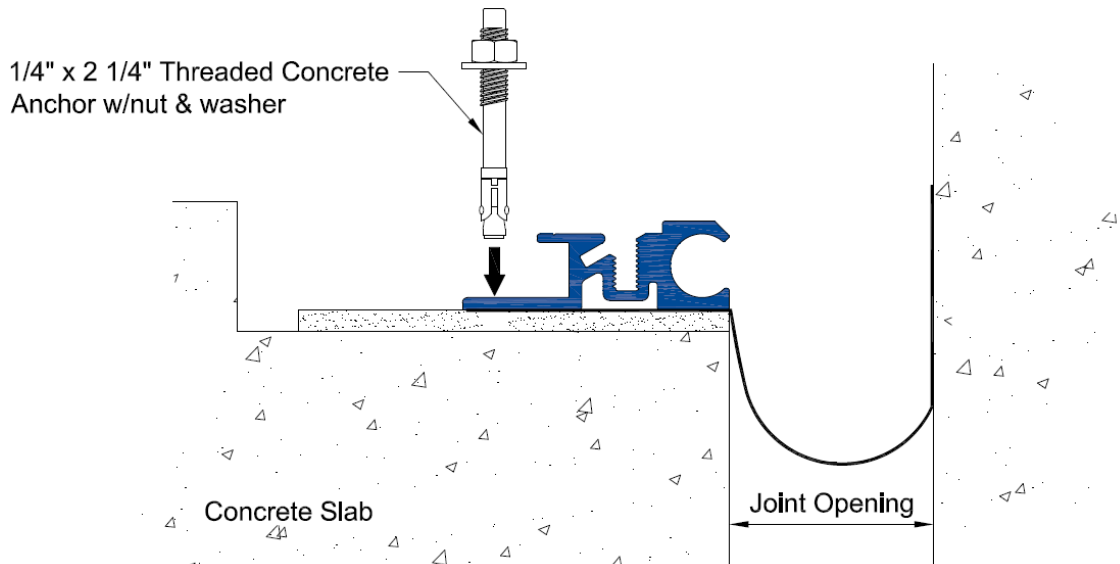
Position base member on blockout so cavity of base member is flush with edge of opening. Use base member as a template. With its position fixed, drill hole for 1/4" x 2-1/4" concrete anchor to proper depth. Clean out holes using a Shop-Vac.



5

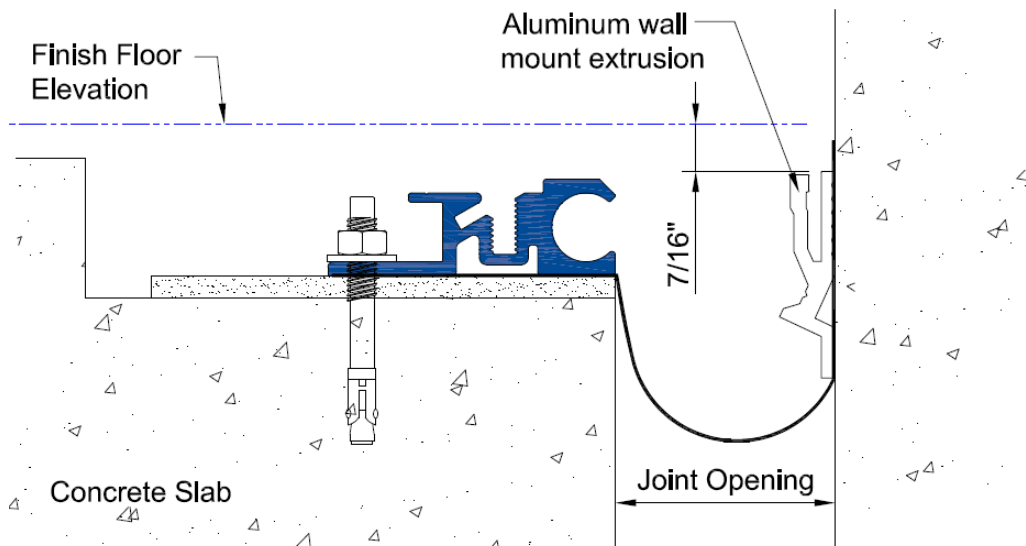
Follow manufacturer's recommendations for proper anchor installation. Remove all debris from moisture barrier by utilizing Shop-Vac.

Caution: Do not install all base members prior to reviewing Step 5.



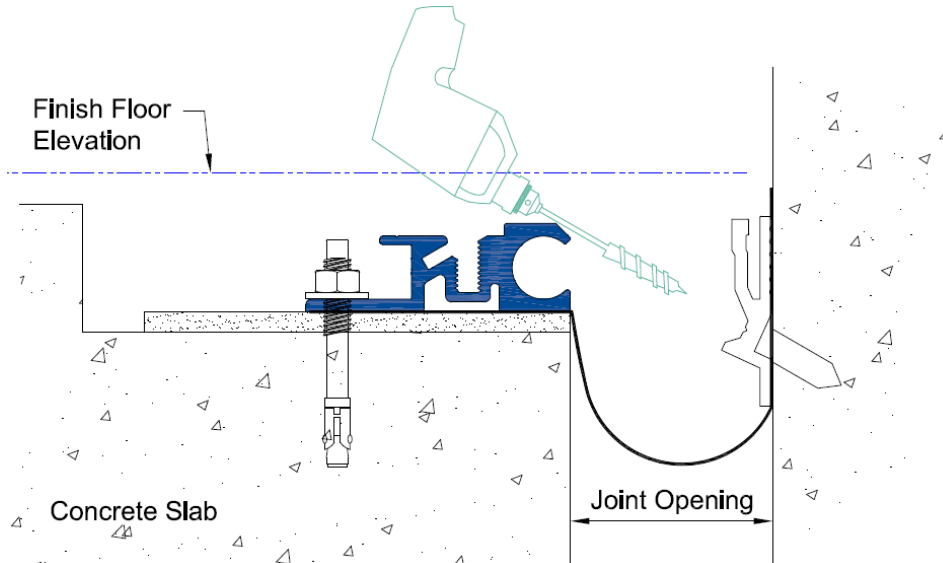
6

Position wall mount profile on wall face so that it sits 7/16" below finished floor elevation. Once elevation is set, temporarily secure wall mount profile for drilling operations. Wood blocking is generally recommended.



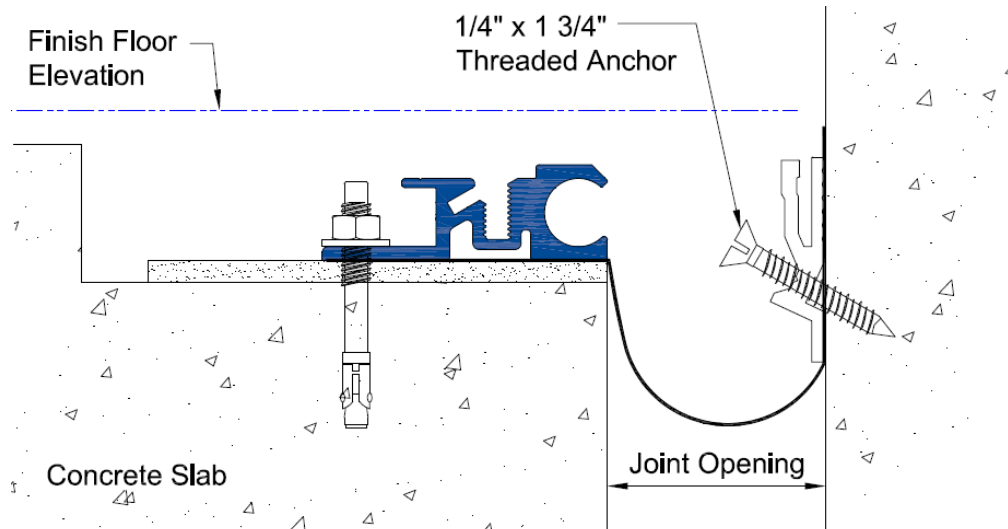
7

Drill hole through aluminum wall mount extrusion into wall construction for $\frac{1}{4}$ " x 1- $\frac{3}{4}$ " lg threaded anchor. Consult WBA if anchor is inappropriate for wall construction.



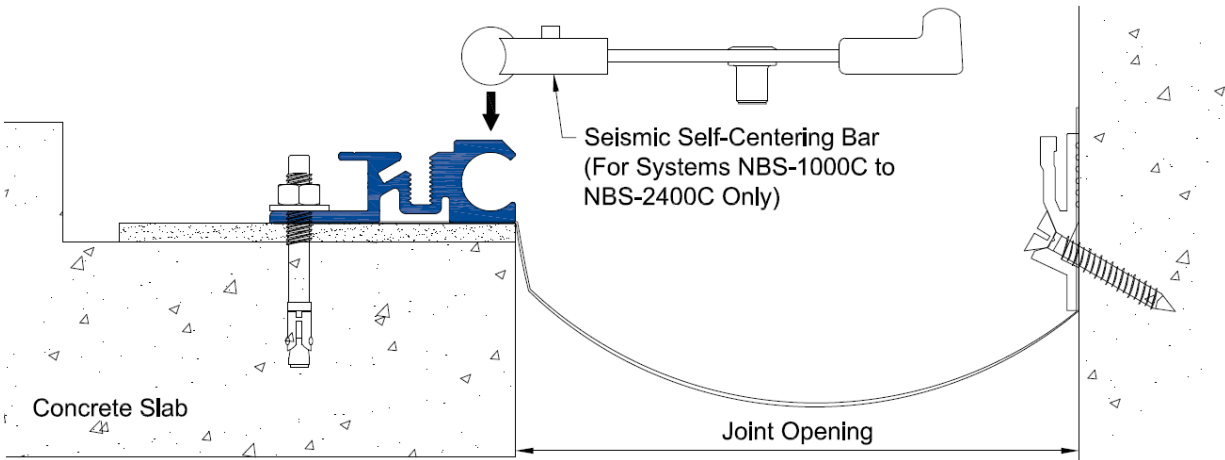
8

Install $\frac{1}{4}$ " x 1- $\frac{3}{4}$ " lg threaded concrete anchor into wall construction using a quality power drill driver. Following anchor manufacturer's instructions is strongly recommended.

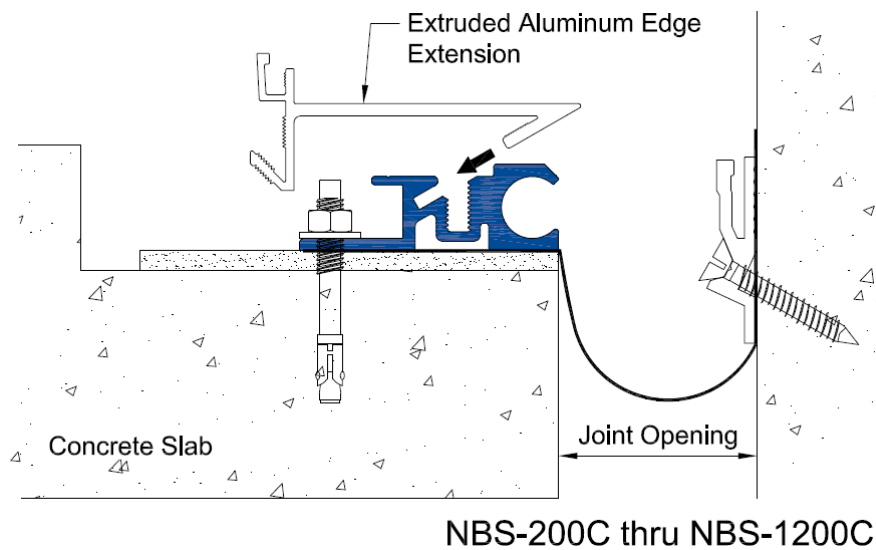


9

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 that the "TOP" indicator is facing up and that all bars are installed with the same horizontal orientation.

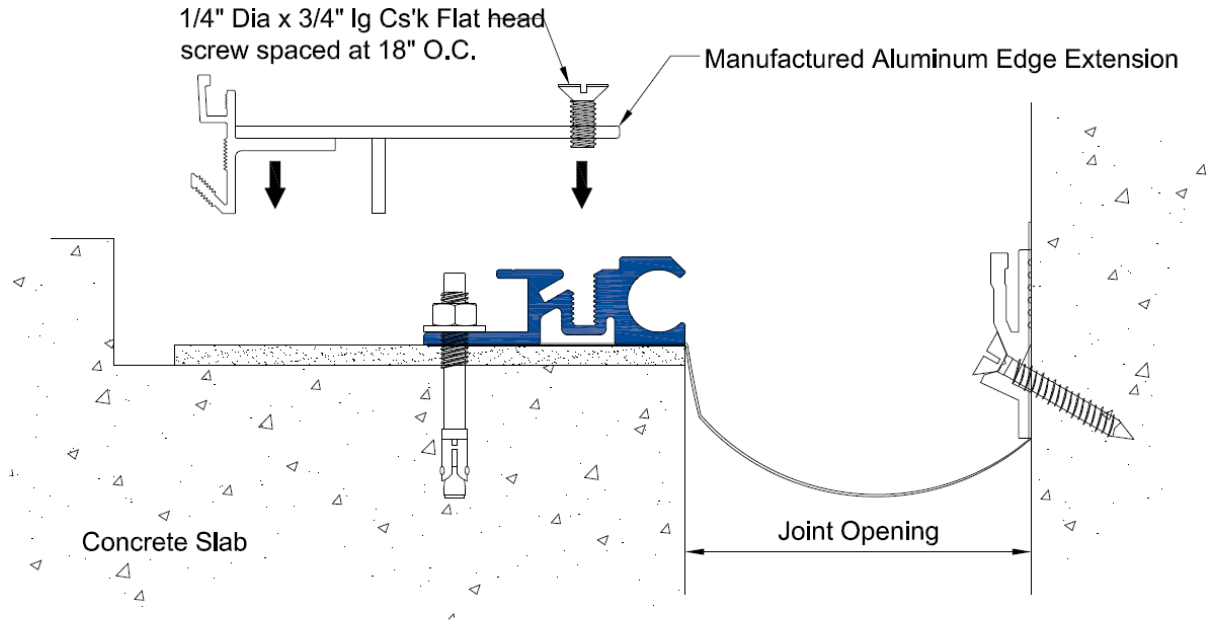
**10A**

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



10B

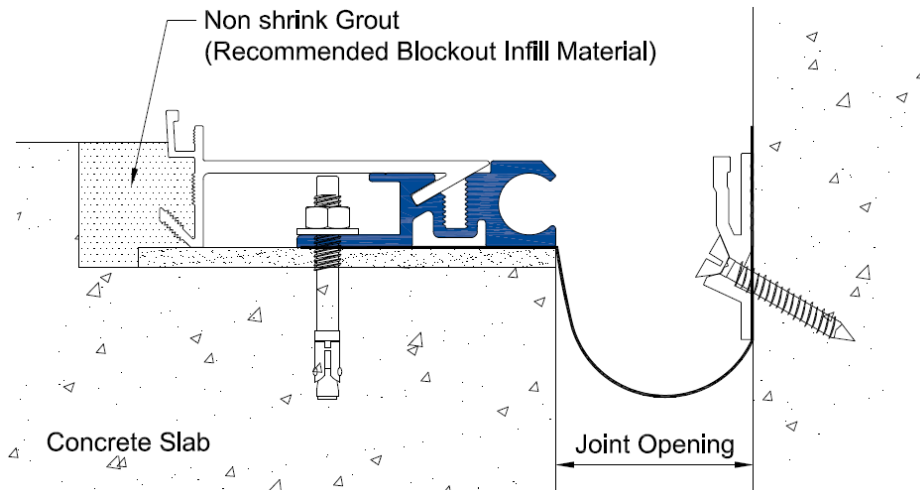
Attach manufactured aluminum extension to base member. Manufactured aluminum extension type is for NBS-1800C and NBS-2400C system size. Check page 3 for proper extension profile.



NBS-1800C thru NBS-2400C

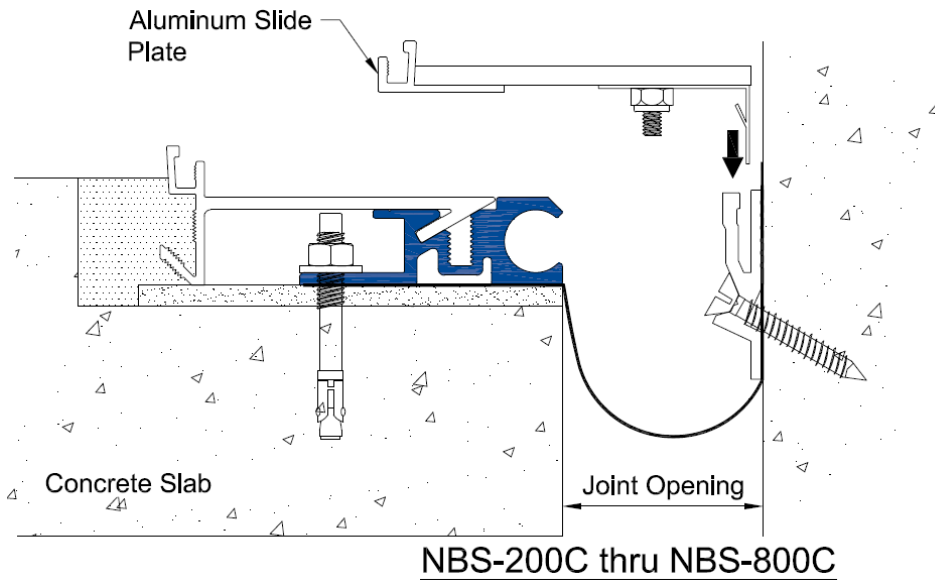
11

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

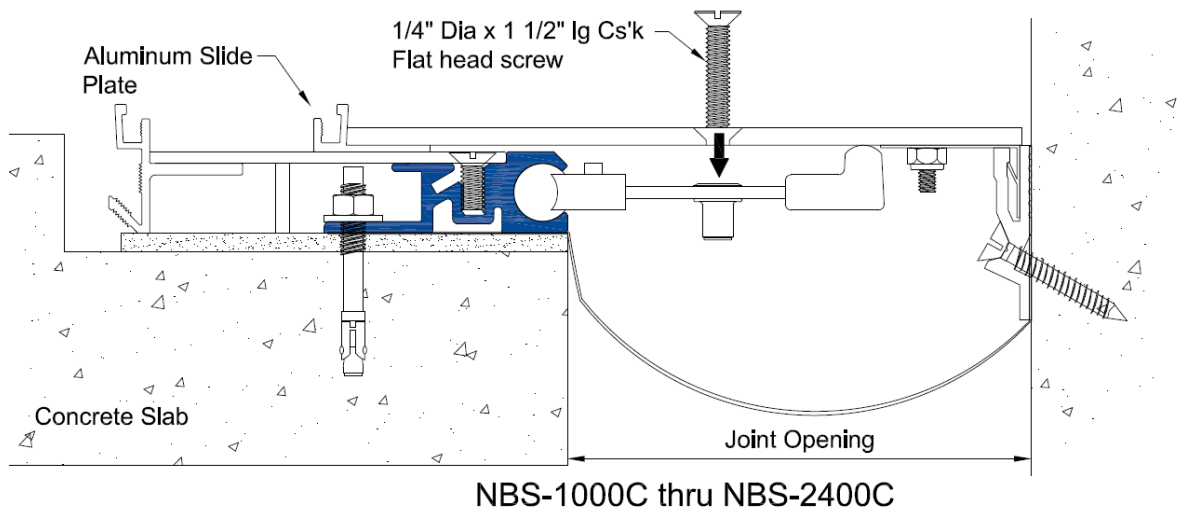


12A

Insert and snap lock slide plate with leaf spring assembly into the anchored wall mount extrusion.

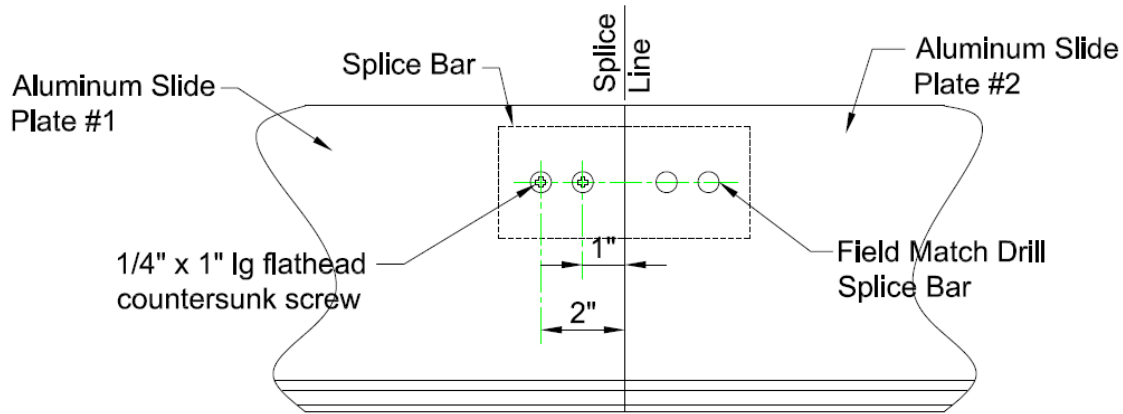
**12B**

Insert and snap lock slide plate with leaf spring assembly into wall mount extrusion. Align pre-drilled holes in slide plate with threaded insert in seismic-centering bars. Secure with 1/4" x 1-1/2" csk flathead screws. Tighten to create measurable tension in the bar. Do not overtighten.



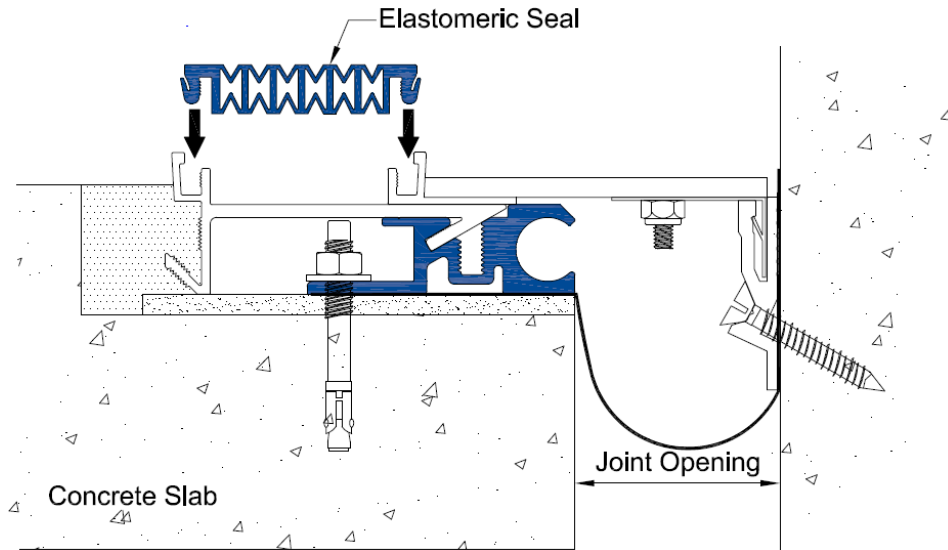
12C

At aluminum slide plate splice line, attach one side of splice bar to the bottom side of aluminum center slide plate with $\frac{1}{4}$ " 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 slide plate as a template. After splice bar has been field drilled, install $\frac{1}{4}$ " x 1" screws to fasten splice bar to aluminum slide plate.



13

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

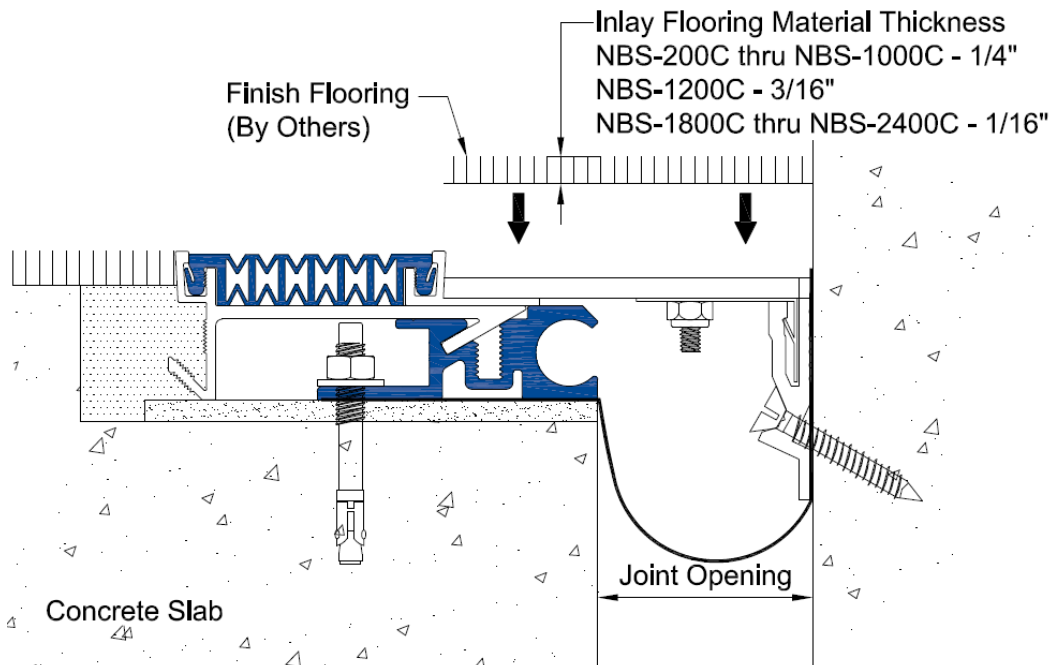


14

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.

Note: For systems NBS-1000C thru NBS-2400C, apply a piece of tape (By Others) at screw locations to cover screws.



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