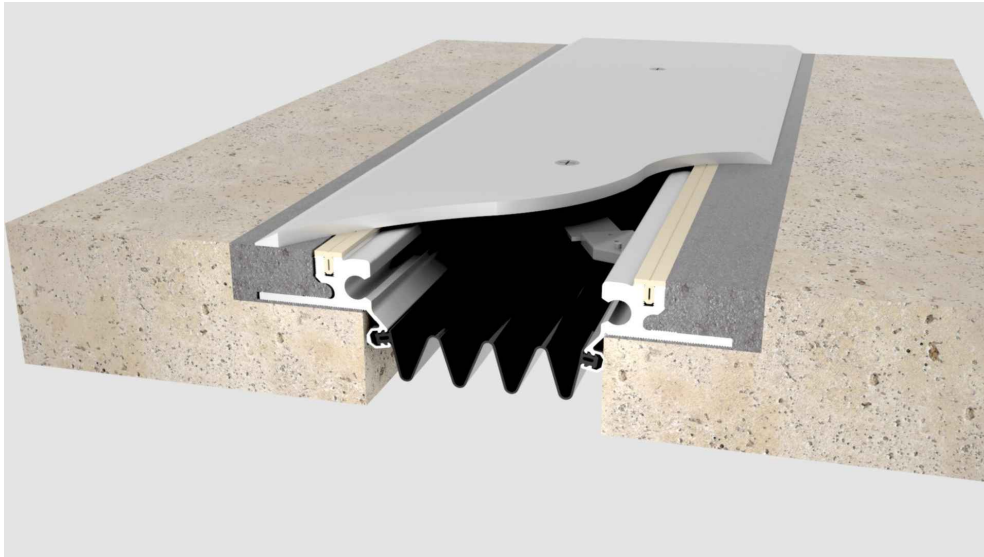




BUILDING TRUST



Installation Procedure



Wabo® SeismicSpan Traffic Series Model(s) "APS" and "APS-C" Horizontal Expansion Control Systems

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 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 if Engineering services were purchased at time of order.

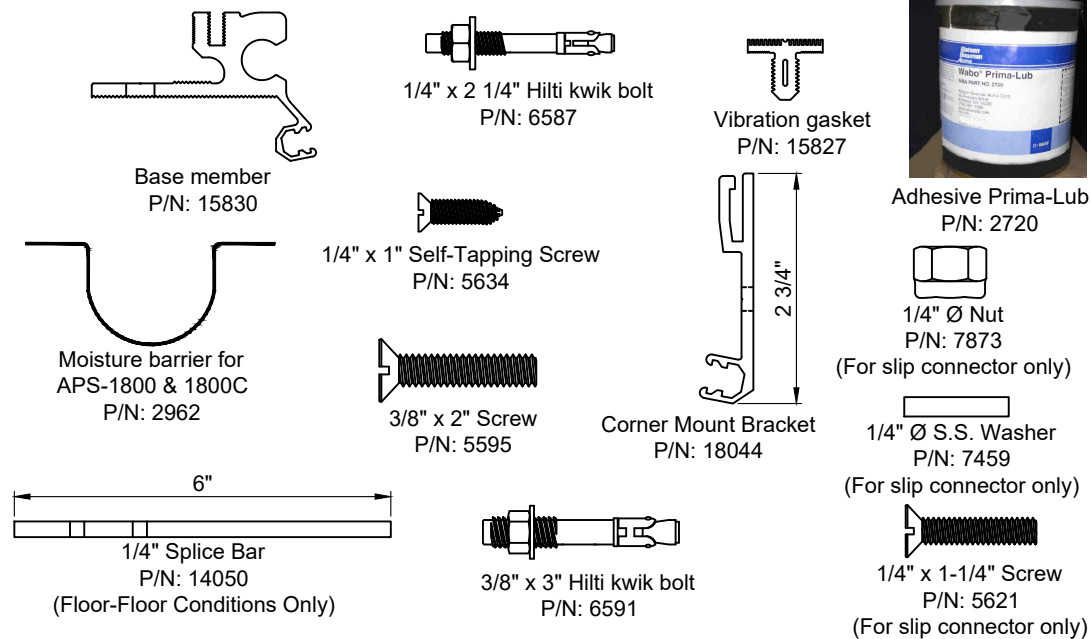
Health & Safety

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



Product components - **required** components



Product components - **recommended** components

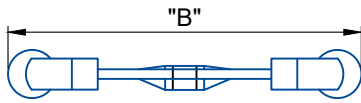


Wabo®Crete Parking Series Elastomeric Concrete
with **Wabocrete II Part B Black**:
Part A (P/n: #14380H, Part B (black) (P/n #14381G)
& Part C (P/n: #33138)



Wabo®Bonding Agent
Part A (P/n: #1931J, Part B (P/n #1933J)

Components shown below vary in size depending on model of system



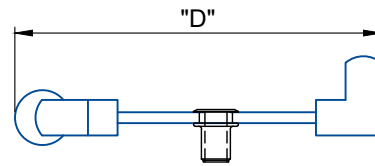
Seismic-Centering bar
(refer to chart for size and P/n)

Model #	P/N	"B" dim.
APS-200	15645	7 3/8"
APS-400	15645	7 3/8"
APS-600	15646	12 3/8"



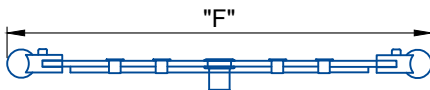
Functional seal
(refer to chart for size and P/n)

Model #	P/N
APS-200/200C	1181
APS-400/400C	1181
APS-600/600C	1175
APS-800/800C	1175
APS-1000/1000C	1176
APS-1200/1200C	1176
APS-1500/1500C	1177



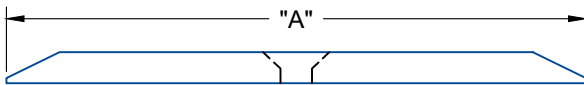
Seismic-Centering bar
(refer to chart for size and P/n)

Model #	P/N	"D" dim.
APS-1000C	15650	12"
APS-1200C	15651	14"
APS-1500C	15652	16"
APS-1800C	15653	19"



Seismic-Centering bar
(refer to chart for size and P/n)

Model #	P/N	"F" dim.
APS-800	15632	18 3/8"
APS-1000	15632	18 3/8"
APS-1200	15633	22 3/8"
APS-1500	15634	26 3/8"
APS-1800	15667	32 3/8"



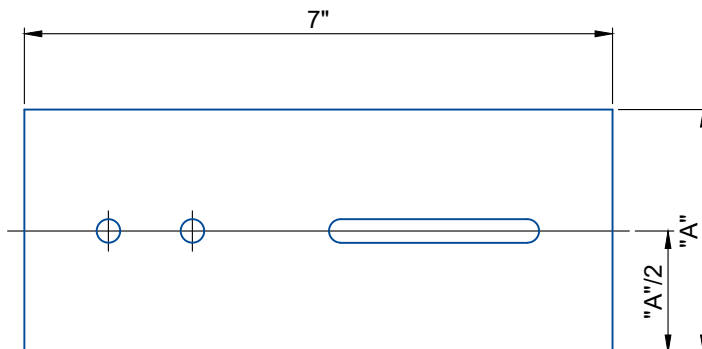
Floor to Floor Cover plate
(refer to chart for size and P/n)

Model #	Aluminum P/N	"A" dim.
APS-200	14400	5 3/4"
APS-400	14401	8 3/4"
APS-600	14402	11 3/4"
APS-800	14403	14 3/4"
APS-1000	14404	17 3/4"
APS-1200	14405	20 3/4"
APS-1500	14406	25 3/4"
APS-1800	14407	29 3/4"



Corner Cover plate
(refer to chart for size and P/n)

Model #	Aluminum P/N	"C" dim.	S.S. P/N
APS-200C	14408	3 3/4"	14424
APS-400C	14409	6 1/4"	14425
APS-600C	14410	8 3/4"	14426
APS-800C	14411	11 1/4"	14427
APS-1000C	14412	13 3/4"	14428
APS-1200C	14413	16 1/4"	14429
APS-1500C	14414	20 1/4"	14430
APS-1800C	14415	23 3/4"	14431



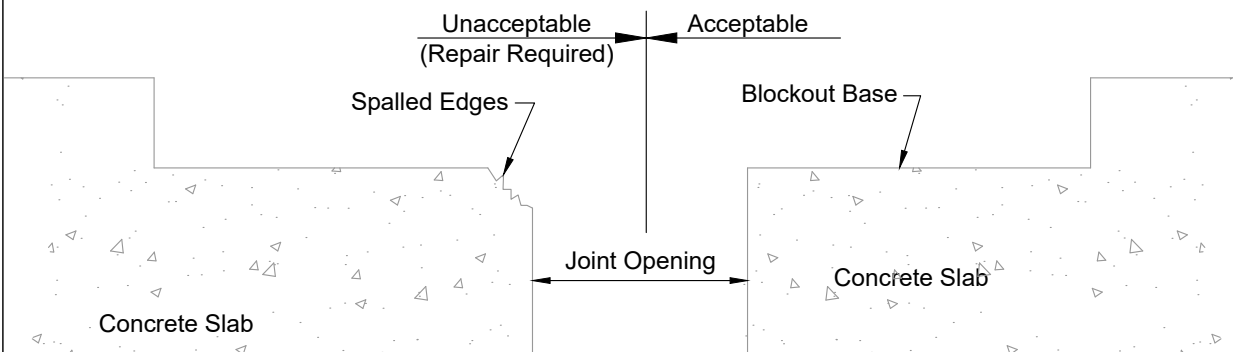
APS Slip Plate Connector
(refer to chart for size and P/n)

Model #	Part Number	"A" dim.
APS-200	14042	4"
APS-400	14043	7"
APS-600	14044	10"
APS-800	14045	13"
APS-1000	14046	16"
APS-1200	14047	19"
APS-1500	14048	24"
APS-1800	14049	28"

Pre-installation Notes

Concrete substrate must be clean (free of dirt, coatings, rust, grease, oil and other contaminants), sound and durable. New concrete must be fully cured (min. 14 days) and all laitance removed. Mask joint edges with duct tape & roofing paper to ensure a clean final appearance. Clean blockout with dry compressed air. (see Installation Step #1)

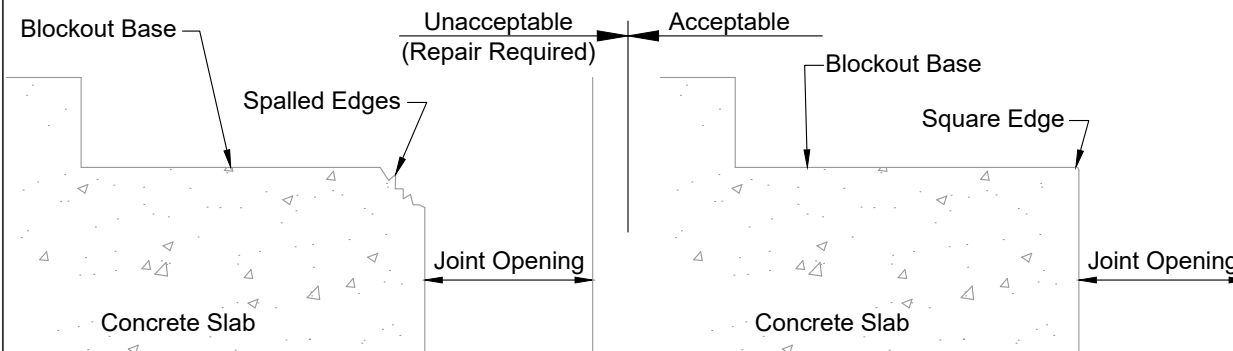
Installation Procedure



Model #	J.O.	Model #	J.O.
APS-200	2"	APS-1000	10"
APS-400	4"	APS-1200	12"
APS-600	6"	APS-1500	15"
APS-800	8"	APS-1800	18"

1

Prepare concrete block out for installation of Wabo®SeismicSpan Expansion Control System. Abrasive blast (CSP2 profile) the concrete blockout surfaces to remove the foam release agents, grease, bond breakers and to enhance bonding surface. **NOTE:** Abrasive blasting is the preferred method. Grinding with an aggressive concrete disc is acceptable when abrasive blasting is not possible (i.e. using zec wheel or diamond cup wheel). **All concrete repair to be in accordance with ICRI Guidelines.**

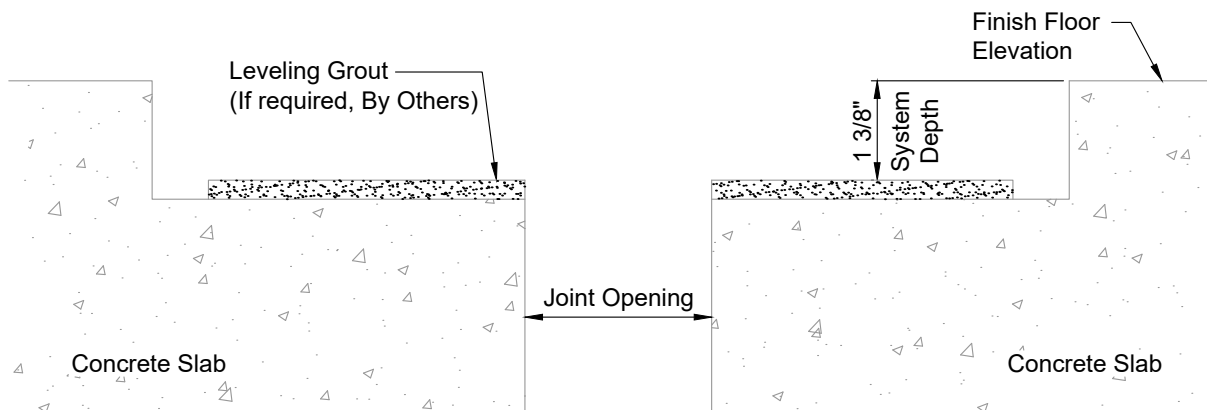


Model #	J.O.	Model #	J.O.
APS-200C	2"	APS-1000C	10"
APS-400C	4"	APS-1200C	12"
APS-600C	6"	APS-1500C	15"
APS-800C	8"	APS-1800C	18"

1A

Corner Condition:

Prepare concrete block out for installation of Wabo®SeismicSpan Expansion Control System. Abrasive blast (CSP2 profile) the concrete blockout surfaces to remove the foam release agents, grease, bond breakers and to enhance bonding surface. **NOTE:** Abrasive blasting is the preferred method. Grinding with an aggressive concrete disc is acceptable when abrasive blasting is not possible (i.e. using zec wheel or diamond cup wheel). **All concrete repair to be in accordance with ICRI Guidelines.**

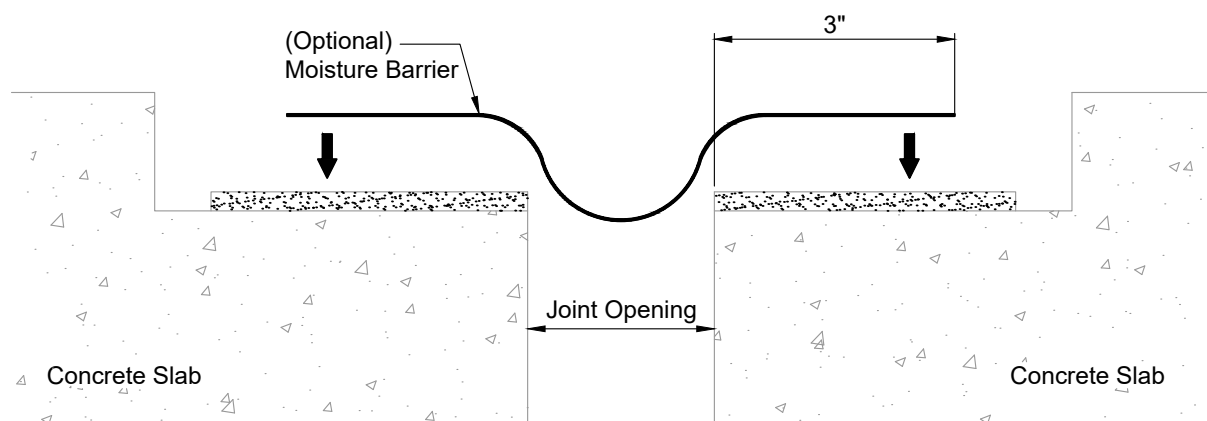


Prepare concrete breakout for installation of expansion joint. Variations in block out dimensions must be corrected prior to beginning work.

2

Note:

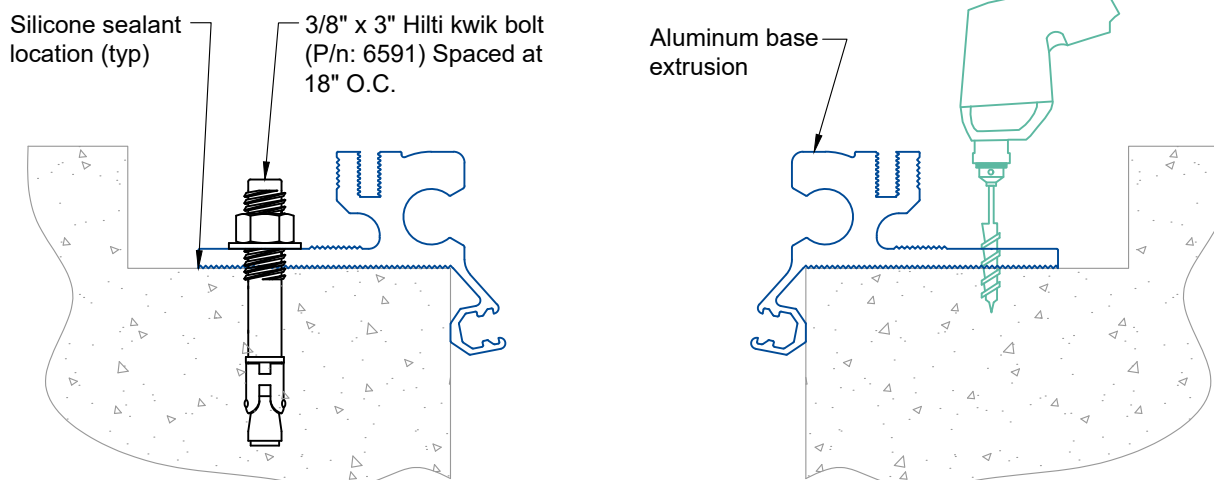
Leveling grout usually not required if breakout was formed true and level to satisfy expansion joint system depth.



3

(APS-1800 & APS-1800C)

Install Moisture Barrier. Maintain proper overlap onto breakout base and temporarily affix with Duct Tape.

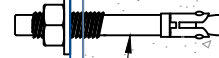
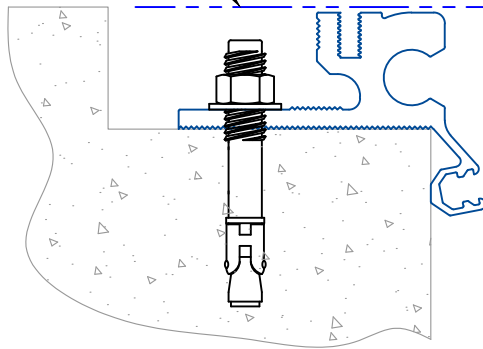


4

Place and adjust aluminum base members into blockouts. Mark anchor locations and follow Hilti recommendations for proper anchor installation. Prior to anchoring base members into place, apply a continuous bead of sealant (by others) onto breakout and at butt ends of aluminum base members. Place and anchor base member.

Flush with finish
floor surface

Aluminum wall
mount extrusion



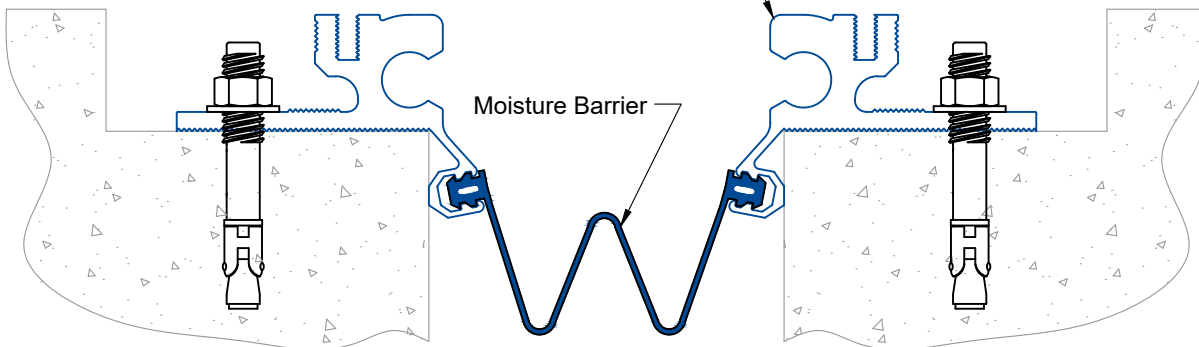
1/4" x 2 1/4" Hilti kwik
bolt (P/n: 6581)
Spaced at 18" O.C.

5

Place and adjust aluminum wall mount bracket into blockouts. Mark anchor locations and follow Hilti recommendations for proper anchor installation. Prior to anchoring wall mount brackets into place, apply a continuous bead of sealant (by others) onto blockout and at butt ends of aluminum wall mount brackets. Place and anchor wall mount bracket.

Aluminum base
extrusion

Moisture Barrier



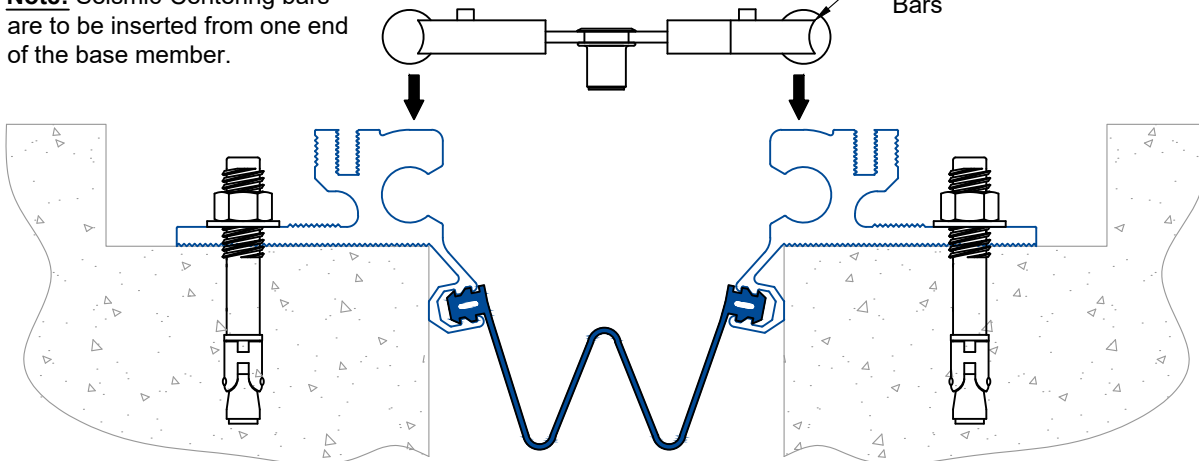
6

Install moisture barrier utilizing supplied Wabo Prima-Lub adhesive.

Note: On custom projects, a sheet good style moisture barrier may be utilized. Refer to Step 3 if applicable.

Note: Seismic-Centering bars
are to be inserted from one end
of the base member.

Seismic-Centering
Bars



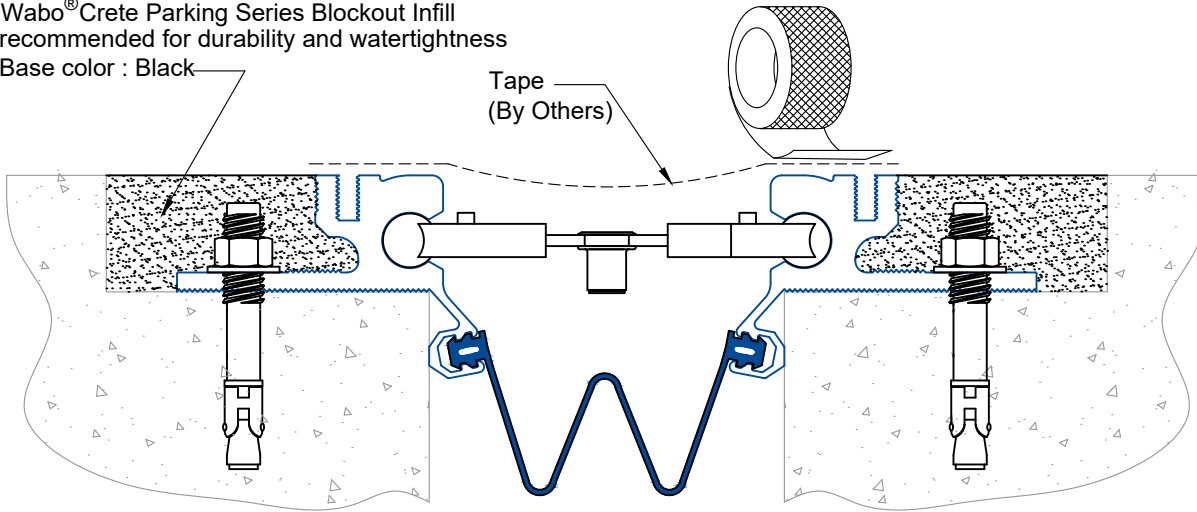
7

Optional:

Wabo® Crete Parking Series Blockout Infill
recommended for durability and watertightness

Base color : Black

Tape
(By Others)

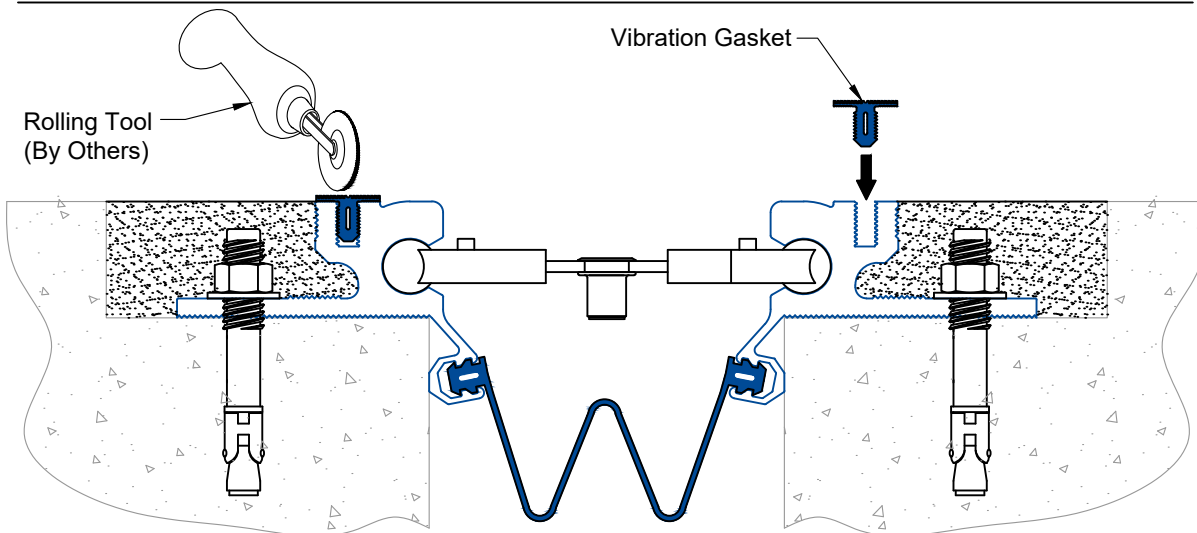


8

Tape and protect exposed metal surfaces during placement of filler material. Fill blockout with Wabo® Parking Series or equivalent for infill material. Remove tape immediately after concrete placement.

Rolling Tool
(By Others)

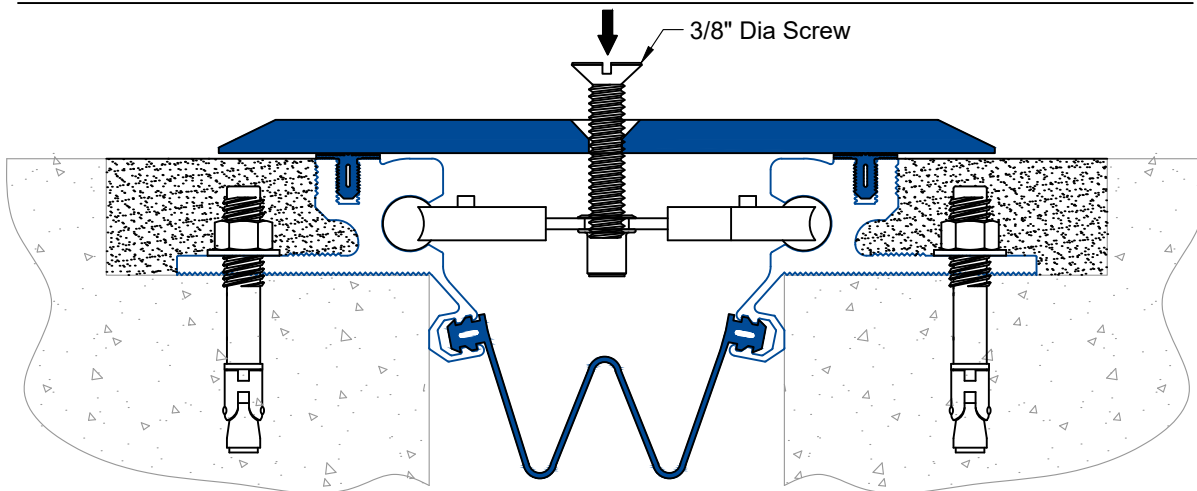
Vibration Gasket



9

Install vibration gaskets utilizing Prima-Lub adhesive provided. Roll gasket to ensure it is fully seated into the aluminum extrusion.

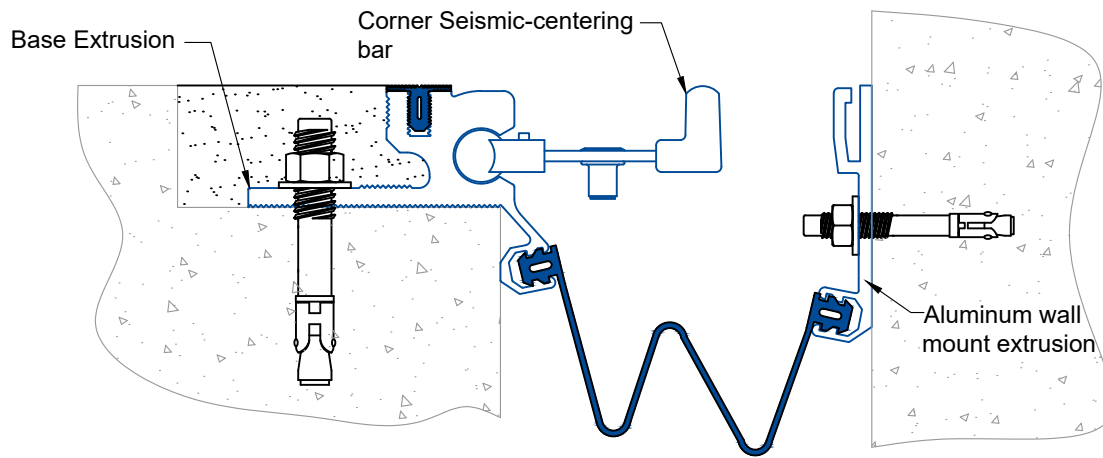
3/8" Dia Screw



10

Align hole in cover with seismic-centering bar threaded insert. Secure cover plate to the seismic-centering bars with the 3/8" x 2" lg machine screws provided. Do not over tighten.

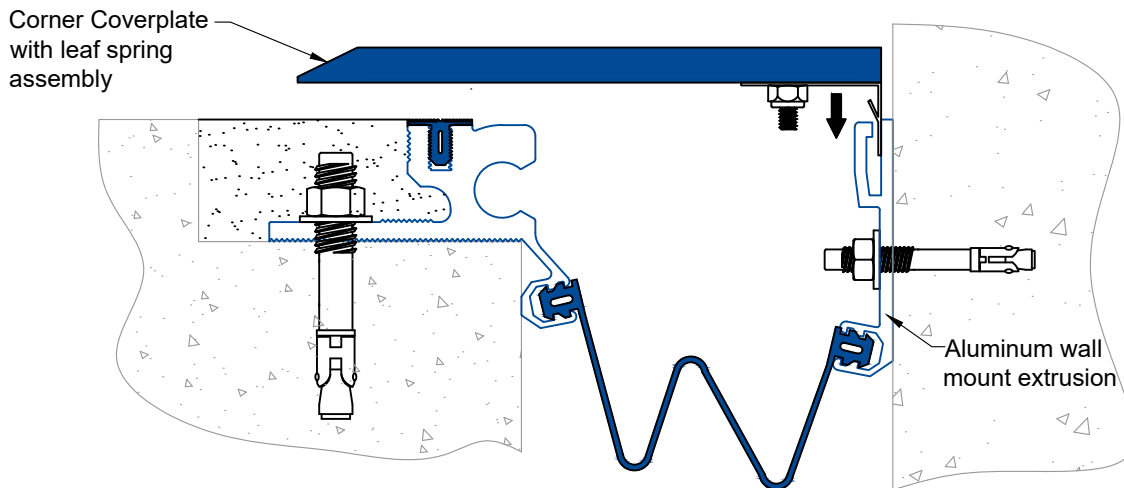
Note: To assure that threads do not loosen, apply Loctite Thread adhesive to threads of the 3/8" Dia screw before securing cover plate to seismic-centering bars.



11A

APS-1000C - APS-1800C

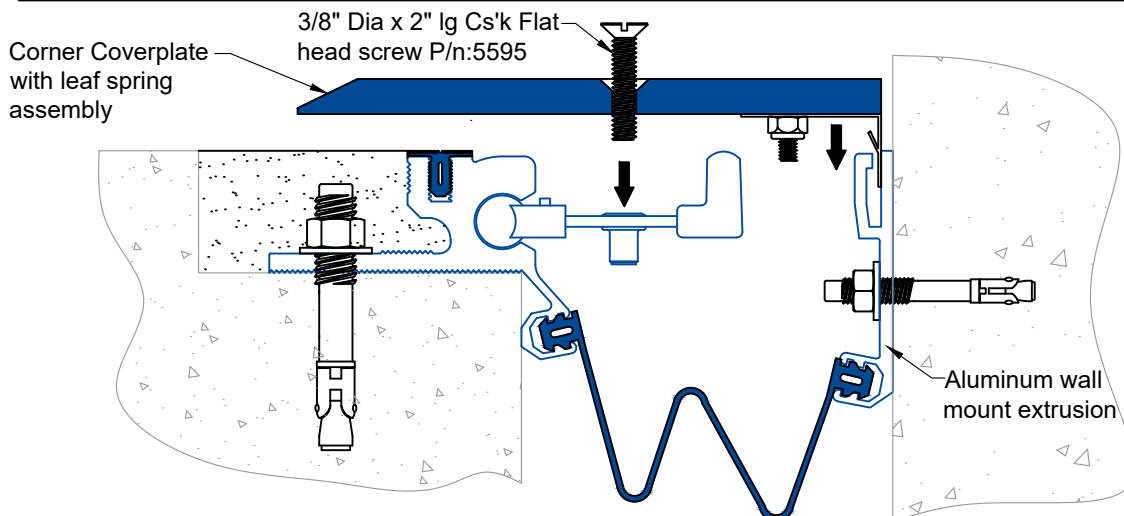
Slide in Corner Seismic-centering Bar into cavity of base extrusion as shown above. Seismic-Centering bar shall be spaced at 18" O.C.



11B

APS-200C - APS-800C

Insert and snap lock Corner cover plate with leaf spring assembly into Wall Mount Extrusion.

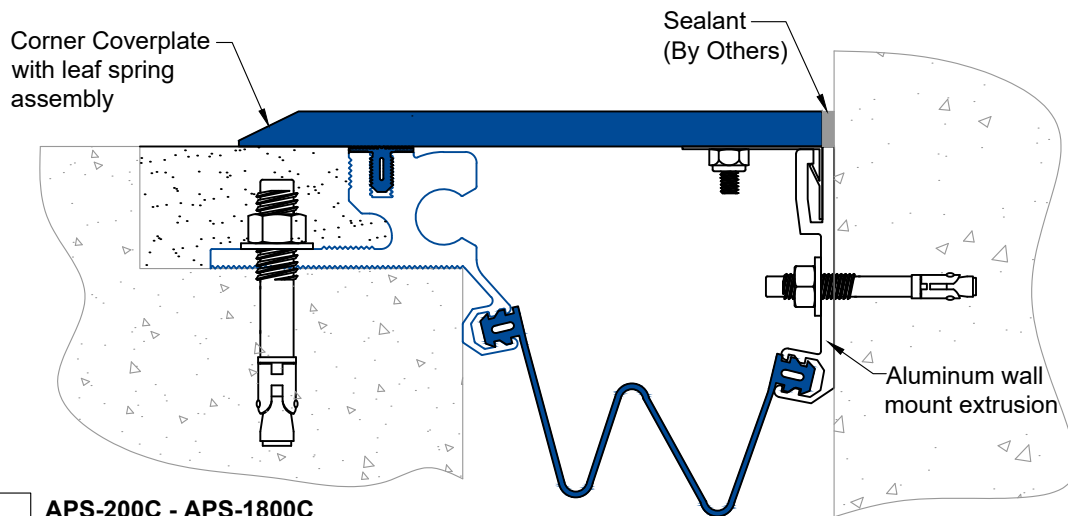


11B

APS-1000C - APS-1800C

Insert and snap lock Corner cover 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 3/8" x 2" csk Flathead screws. Tighten to create measurable tension in the bar. Do not overtighten.

Note: To assure that threads do not loosen, apply Loctite Thread adhesive to threads of the 3/8" Dia screw before securing cover plate to seismic-centering bars.

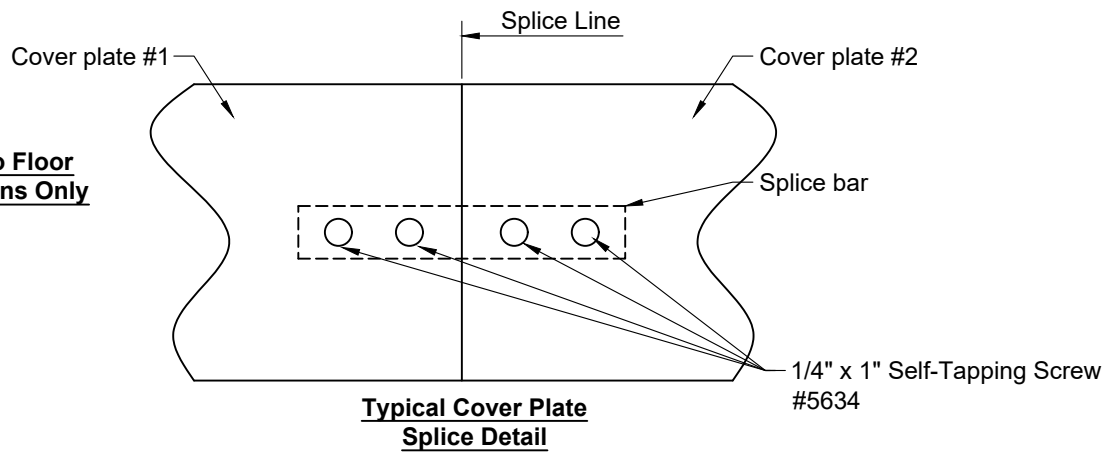


11C

APS-200C - APS-1800C

After Corner cover plate has been installed, apply a bead of sealant (By Others) along wall and edge of cover plate as shown above.

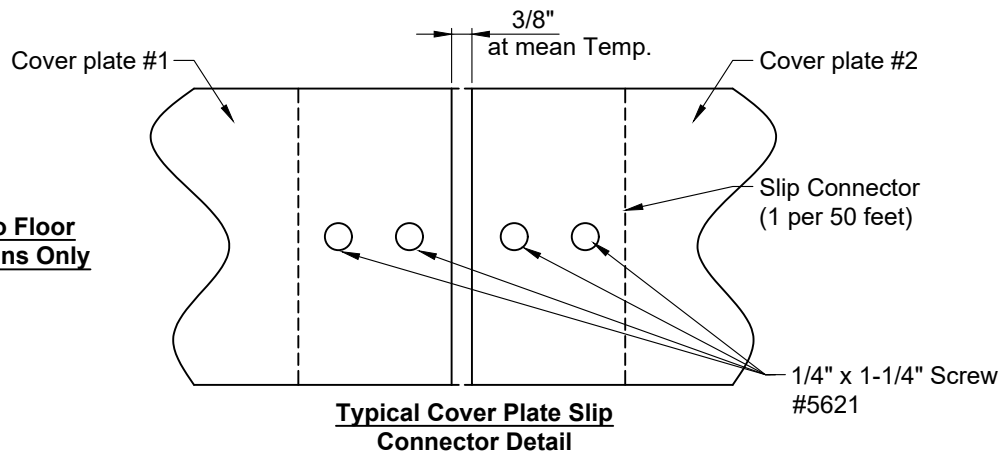
**Floor to Floor
Conditions Only**



12

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

**Floor to Floor
Conditions Only**



12A

At every 50 ft splice line location, attach one side of slip connector to the bottom side of cover plate with 1/4" x 1-1/4" screws. After one side has been fastened, using 1/4" x 1-1/4" screws fasten cover plate into slip connector through the holes already pre drilled in coverplate.

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Sika Emseal
25 Bridle Lane, Westborough, MA 01581 USA
Phone: 508-836-0280 / Fax 508-836-0281
www.emseal.co

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