Installation Procedure

Wabo® Seismic Pan
Model(s) SPJ / SPJ-C
Horizontal Expansion Control 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.

Issued: 4/1/10  p/n: 20184
Standard components

Concrete Threaded Anchor #2764
1/4" x 2-1/4"
Part No. 6526

Bolt 1/4" x 2-1/2"
Part No. 4835

Nut 1/4"
Part No. 7869

Bolt 1/4" x 1"
Part No. 4836

Screw 1/4" x 1"
Part No. 5834

CapPlug W8 Red Plastic
Part No. 4337

Butt Splice Connector
Part No. 14050

Wall Mount
Part No. 19610
Components shown below vary in size depending on model of system

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Flush Condition
Installation procedure for flush condition

1. Prior to beginning work, installer shall inspect opposing concrete slabs, corners and blockouts for acceptability. For repair (if required) refer to step 2, also, measure joint opening for proper size as called for on WBA shop drawings or Cad detail.
   * See WBA Shop drawings or Cad detail for specific blockout information.

2. Repair corner of concrete slab and blockout base following manufacturers written instructions.

3a. Figure 3a.1 - Insert (4) ZINC PLATED NUTS (Part # 7869) into NUT CAVITY of ALUMINUM EDGE FRAME.

Figure 3a.2 - Thread Bolt 1/4" x 1" HLN (Part # 4836) into each ZINC PLATED NUT, spacing at 36" on center (starting 6" from either end). Tighten until bolts are secure.
3b Utilizing pre-drilled holes in Aluminum edge frame assembly as a template, drill pilot holes using a 3/16" TAPPER Masonry drill bit. Use two 5 foot Aluminum Edge frame sections (1 on each side of joint opening) when starting a run of Wabo® Seismic Pan. See step 6.

3c Fasten Aluminum Edge Frame Assembly securely using Threaded Anhcor Rawl Tapper #2764 1 1/4" x 2-1/4" (Part No. 6526)

4 Insert Seismic-centering bars into circular aluminum cavity as work progresses from step 3c. Space bars at 18" o.c. See plan next page.
All Seismic-centering bars must be oriented in the same direction. Side of the Seismic-centering bar labeled "Top" must be facing UP.

After aluminum edge frames and Seismic-centering bars are installed, start adding butt splice connectors to one end of each aluminum pan using factory holes provided and part no. 5634 (Screw 1/4" x 1" FTPN)
Center the Aluminum Pan on joint opening while keeping end of pan snug with wall reference line. Use phillips head screwdriver to fine tune alignment or seismic centering bars to associated pre-drilled holes.

Use Heavy Tape to cover unused splice connector holes (this will be at the first aluminum pan to be installed against the wall). Take measurement "X" from Aluminum Pan and align first self-centering bar to this dimension as shown. This step is to double check for accuracy before installing the Aluminum Pan.

Installation procedure: SeismicPan "SPJ" system

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Installation procedure: SeismicPan "SPJ" system

Insert Part No. 4835 through pre-drilled holes in Aluminum Pan and seismic-centering bars and tighten to 1" inch-lbs. Cover bolt heads with Capplugs (Part no. 4337).

Note: Installation Tip: Calibrate battery operated drill / driver to proper inch-lb setting. Periodically inspect for proper torque utilizing "clicker" wrench.

Bolt 1/4" X 2-1/2" HLN
Part No. 4835

CapPlug W8 Red
Part No. 4337

Aluminum Pan
Repeat steps 5, 6, & 7 to align seismic-centering bars for next section of Aluminum Pan. Be sure to start threading seismic-centering bars for this section (do not completely tighten seismic-centering bars (as noted in step 8) until Step 10 is complete). Ensure Aluminum pan sections butt tightly together and that the outside edges align from section to section.
Using the splice connector holes in the Aluminum Pan as a guide, firmly tap in guide marks into the aluminum splice connector below utilizing either a nail setter or hole punch. Pre-drill 3/16" dia. pilot hole in connector. Use self-tapping screws (Part No. 5634) to complete splicing of pan systems together. Tighten seismic-centering bar bolts in newly spliced Aluminum Pan Section.
11 Use heavy tape continuously to protect joint opening through the next final steps.

12 Pour infill material into blockout voids and Pan cavity.

* Warning! - Leave required recess for finish floor finish material thickness and proper placement.
13 Install finished floor material. Be sure to keep joint opening protected (See Step 11)

14 Remove Heavy Tape from joint opening. Protect surrounding finish floor material using Heavy Tape and Heavy Gauge Plastic Sheeting
Install backer rod (Supplied by others) and bond breaker tape (Supplied by others) as shown.

Follow manufacturers procedures for priming aluminum surfaces and mixing sealant.

Elastomeric Traffic Bearing Sealant

Backer Rod

Installation procedure: SeismicPan "SP" system

15 Install Backer Rod, Bond Breaker Tape (Supplied by others including if installed by WBA certified Applicator) & Sealant (Supplied by others unless system is installed by WBA certified applicator).

Finished flooring material

Temporary cover (Supplied by others)

16 Installing contractor shell cover and protect the finished expansion joint assembly from damage during installation of finish floor materials. The expansion joint assembly is a finished product. Damage to expansion joint finishes and components are excluded from warranty.
Installation procedure for corner condition

Prior to beginning work, installer shall inspect opposing concrete slabs, corners and blockouts for acceptability. For repair (if required) refer to step 2, also, measure joint opening for proper size as called for on WBA shop drawings or Cad detail.

* See WBA Shop drawings or Cad detail for specific breakout information.

Acceptable

Unacceptable (Repair Required)

Square Edge Required

Level Base

Concrete Wall

Concrete Slab

Joint Opening

Concrete Wall

Concrete Slab

Joint Opening

Repair Corner

Build up base of Blockout

Irregular Base

Concrete Slab

Concrete Wall

Joint Opening

Repair corner of concrete slab and blockout base following manufacturers written instructions.

Figure 3a.1

Nut Cavity

Aluminum Edge Frame

Part # 7869

Figure 3a.2

Aluminum Edge Frame

Part # 4836

Figure 3a.1 - Insert (4) ZINC PLATED NUTS (Part # 7869) into NUT CAVITY of ALUMINUM EDGE FRAME.

Figure 3a.2 - Thread Bolt 1/4" x 1" HLN (Part # 4836) into each ZINC PLATED NUT, spacing at 36" on center (starting 6" from either end). Tighten until bolts are secure.
3b Utilizing pre-drilled holes in Aluminum edge frame assembly as a template, drill pilot holes using a 3/16" TAPPER Masonry drill Bit. Use two 5 foot Aluminum Edge frame sections (1 on each side of joint opening) when starting a run of Wabo® Seismic Pan. See step 6.

3c Fasten Aluminum Edge Frame Assembly securely using Threaded Anchor Rawl Tapper #2764 1/4" x 2-1/4" (Part No. 6526) Utilizing predrilled countersunk holes.

4a In preparation for fastening Wall Mount Extrusion (Part No. 19610), hold ext against wall and making sure that it is LEVEL with the adjacent Aluminum Edge Frame Assembly. Snap a chalk line to insure level installation. Use 5 foot piece Wall Mount at start of each joint run.
4b Fasten Wall Mount with part no. 6526 utilizing pre-drilled countersunk holes.

5 After aluminum edge frames and Seismic-centering bars are installed, start adding butt splice connectors to one end of each aluminum pan using factory holes provided and part no. 5634 (Screw 1/4" x 1" FTPN)

6 Use Heavy Tape to cover un-used splice connector holes (this will be at the first aluminum pan to be installed against the wall).
Gently set Aluminum Pans into place as shown above. See Steps 8 & 9 for splicing procedure.

Components should be staggered as shown above.

Set in next Aluminum Pan snug against previously laid in Aluminum Pan. See Step 9 for splicing the two together. Ensure Aluminum pan sections butt tightly together and that the outside edges align from section to section.
Using the splice connector holes in the Aluminum Pan as a guide, firmly tap in guide marks into the aluminum splice connector below utilizing either a nail setter or hole punch. Pre-drill 3/16" dia. pilot hole in connector. Use self tapping screws (Part No. 5634) to complete splicing of pan systems together.
Use heavy tape continuously to protect joint opening through the next final steps.

Pour infill material into blockout voids and Pan cavity. *Warning! Leave required recess for finish floor finish material thickness and proper placement.
14 Install Backer Rod, Bond Breaker Tape (Supplied by others Including if installed by WBA certified Applicator) & Sealant (Supplied by others unless sytem is installed by WBA certified applicator.)

15 Installing contractor shell cover and protect the finished expansion joint assembly from damage during installation of finish floor materials. The expansion joint assembly is a finished product. Damage to expansion joint finishes and components are excluded from warranty.