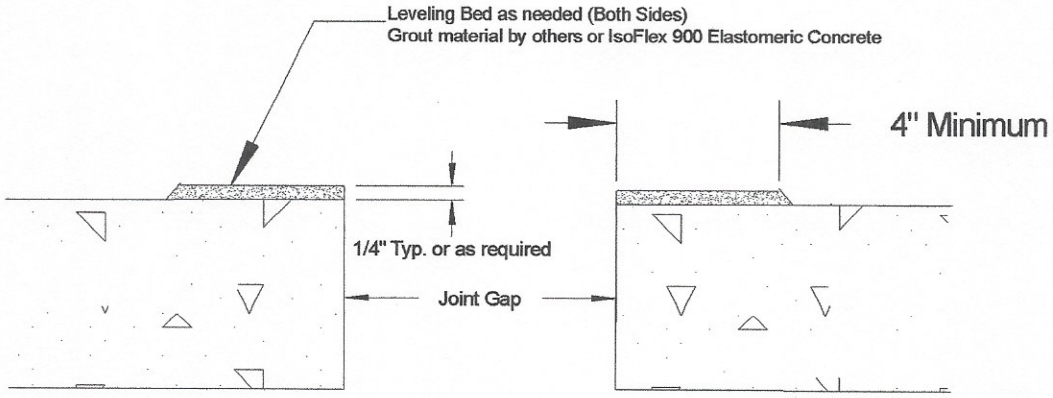
Decklock PCM Installation Procedure

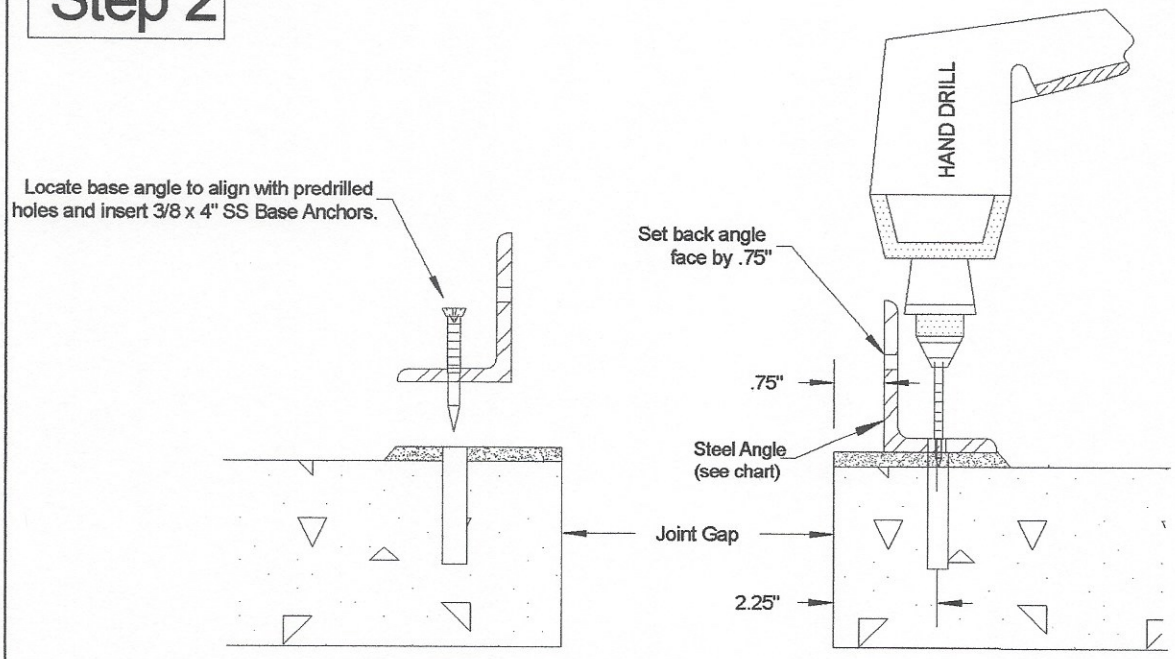
Step 1



The concrete interfaces must be repaired to eliminate any spalling or damaged areas prior to expansion joint installation.
For purposes of leveling and setting final elevation, place a leveling bed at each side of the joint gap opening. The leveling bed should be a minimum of 4" wide.

Step 2

SYSTEM DEPTH "D"	Steel Angle		
	Vert. Leg	Horiz. Leg	Thickness
3.500	2.000	3.000	0.250
88.900	50.800	76.200	6.350
4.500	3.000	3.000	0.250
5.500	76.200	76.200	6.350
5.500	4.000	3.000	0.250
139.701	101.600	76.200	6.350
6.500	6.000	3.000	0.250
165.101	127.001	76.200	6.350



Utilize one 10 Ft section of the steel base angle as a template to locate hole locations. The horizontal leg in contact with the grout bed should be the 3" leg. Set back the vertical face of the angle by 3/4" from the joint gap edge. Once hole locations are marked, remove the plate and drill the holes for the 3/8" x 4" stainless expansion anchors. The anchor hole should be located 2.25" from the edge of the expansion joint gap edge.
With all holes drilled, insert the 3/8" x 4" stainless base anchors. Tighten down to secure the steel angles into place. **ONLY install one pair of 10 Ft. sections at a time.** As each pair of Base Angle sections are installed, follow by attaching the DL2 Core aluminum shape to the Base Angle as described in Step 3.

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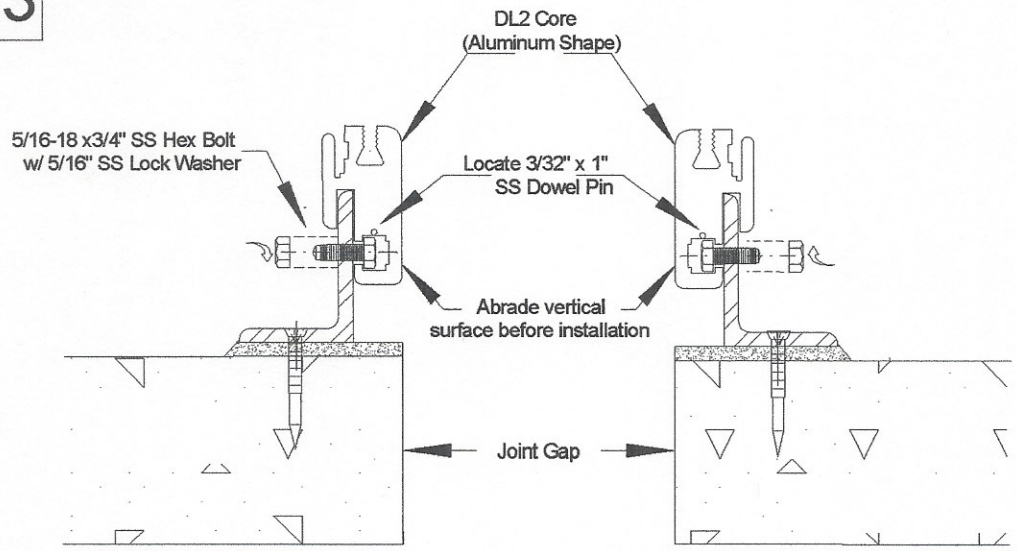
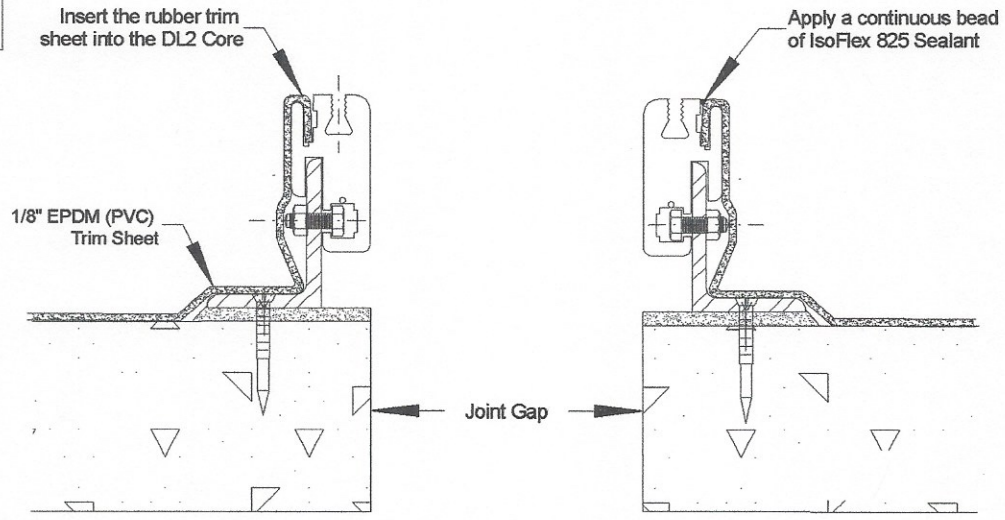
Decklock PCM Installation Page 1	
	Drawing Number:

Step 3



Before attaching the DL2 Core to the base angles it is important to abrade the vertical face where the Core will adjoin the Precom HSL Seal. This can be done by sandblasting or grinding the surface. (See datail Above)
The next step is to attach the DL2 Core aluminum shape to the steel base angle. The process involved in connecting the two parts requires that the 5/16-18 x 3/4" hex bolt be inserted into the steel angle. The steel angle is slid along the groove in the DL2 aluminum core and as you slide the two parts together, the head of the hex bolt is slid into the DL2 Core cavity. Continue to slide the two parts together as you continue to engauge the hex bolts into the DL2 Core. As you progress you should thread on the 5/6" lock nuts to a slightly tightened state. This will reduce the binding of the anchors as the parts are slid together. Once the two parts are connected and in the desired alignment, tighten down the lock nuts with a socket wrench. Continue the process for the following 10 Ft sections until the joint lenght is fully in-place. As adjoining sections of the DL2 Core are placed, a 3/32" x 1" SS Dowel Pin should be installed to ensure alignment of the sections.

Step 4



The next step is to install the rubber Trim Sheet. This process is completed in relationship to the waterproofing membrane manufacturer and their installation details.
The process is begun by rolling out the 50 Ft lengths of the rubber 1/8" Trim Sheet. The Trim Sheet is inserted into the receiver cavity of the DL2 Aluminum Core. Once inserted and fully set in place, a continuous bead of IsoFlex 825 sealant is applied to seal off and secure the Trim Sheet.
The Trim Sheet is then wrapped down the joint components and is sandwiched into the fluid applied membrane waterproofing being utilized on the project.

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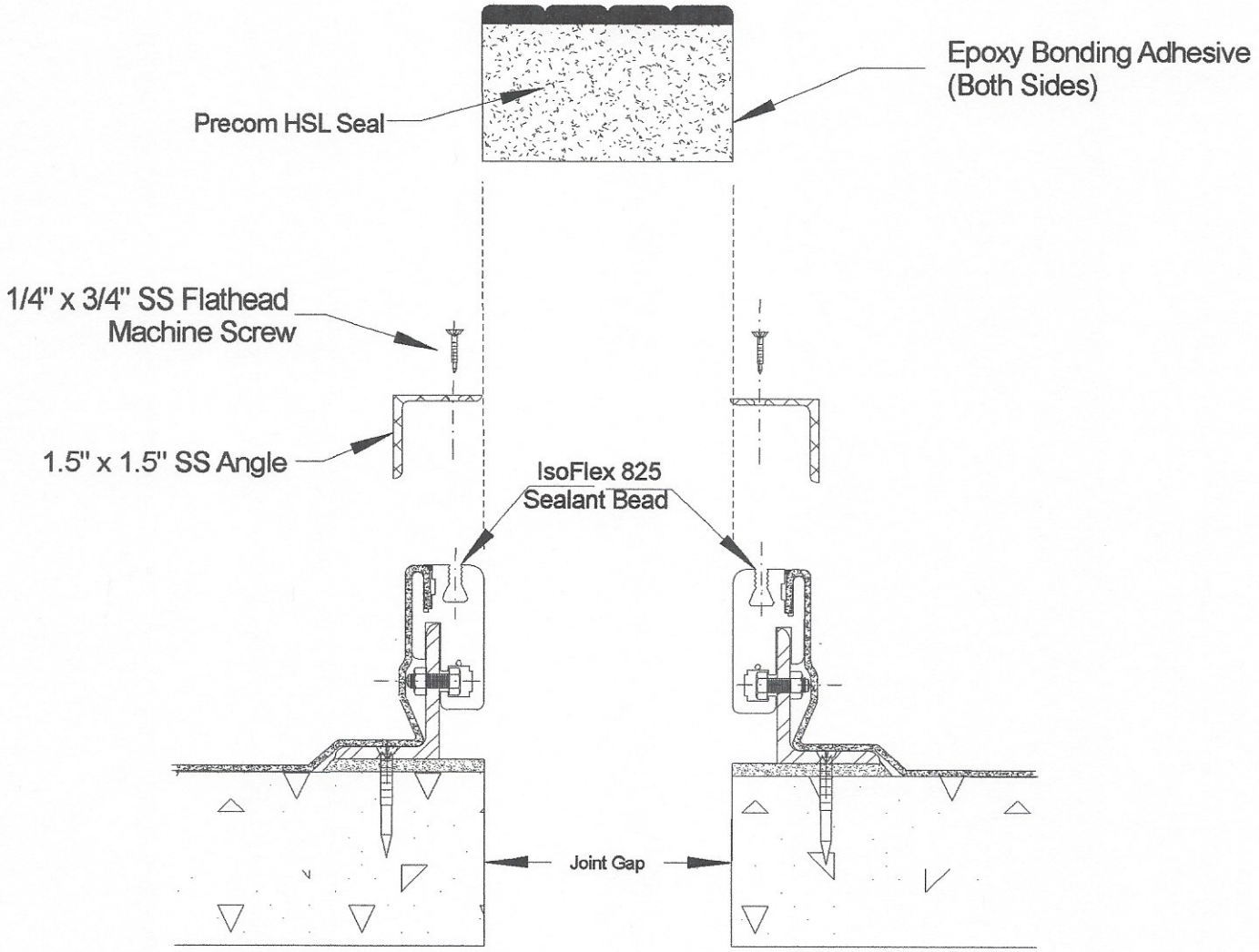
Scale: NTS	Drawn By: GAB
Date: 2/20	Revised:
Decklock PCM Installation Page 2	
	Drawing Number:

Step 5



With the Trim Sheet installation completed, a second bead of IsoFlex 825 sealant needs to be placed continuously along the race in the top of the DL2 Core. With the two sealant beads in place the next step is to align and place the 1.5" x 1.5" Stainless Steel Cap Angle As the angle is located, be sure that the countersunk holes are on the top exposed surface. As the stainless angle is pressed down into place, begin to tighten down the 1/4" x 3/4" Stainless Steel Flathead Machine Screws into place. The screws will tap into the DL2 Core as they are tightened into place.

With the stainless angles secured in place the Precom HSL seal can be installed. This is accomplished by applying the 2-part Epoxy Bonding Adhesive against the prepared surafce of the DL2 Core. The Precom seal can then be installed by releasing the "sticks" of seal from the shrink wrap and removal of the release paper, exposing the Pressure Sensitive Adhesive. As sticks of the seal are placed, "Flexible Adhesive" is placed at the butt connections. The installed seal is the completed by placing a bead of Dow 888 silicone on each side interface. Complete installation steps are covered in the Precom HSL Installation Procedures.

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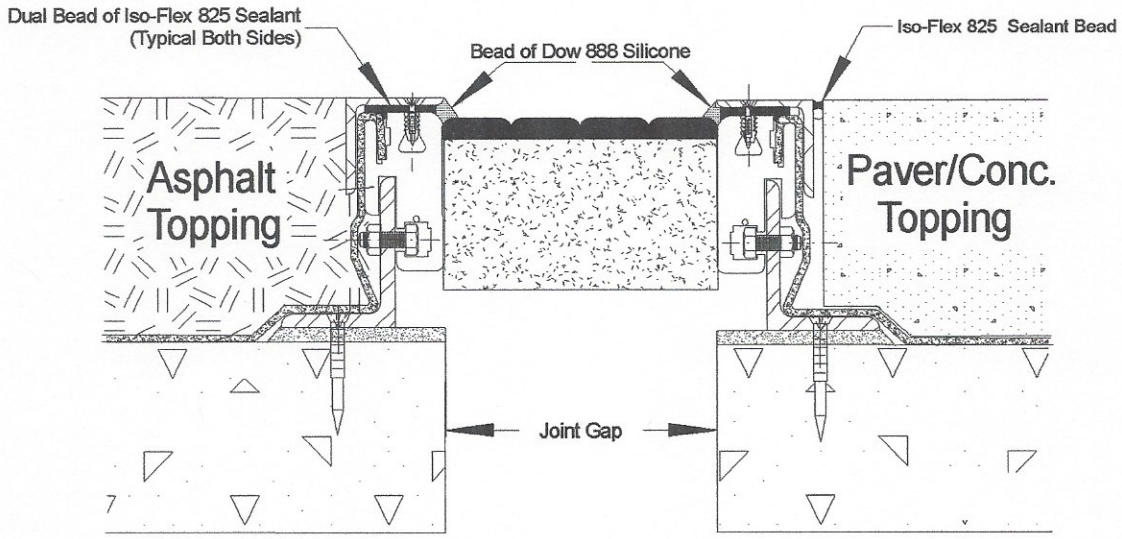
Scale: NTS	Drawn By: GAB
Date: 2/20	Revised:
Decklock PCM Installation Page 3	
	Drawing Number:

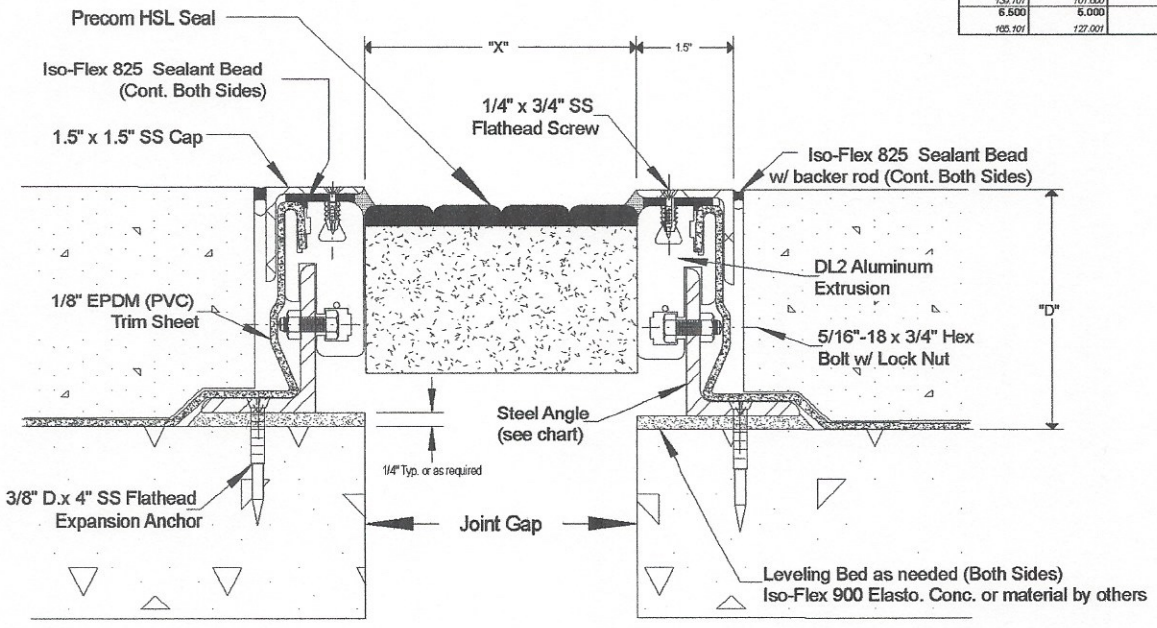
Step 6



Once the expansion joint system is fully installed the effort can begin to install the topping construction. This may be an asphalt overlay, concrete paver or poured concrete, depending on the project requirements.
If the topping is asphalt, the topping may be poured up to the expansion joint system. If it happens to be pavers or concrete, it is recommended to install a sealant bead along the interfacing edge of the expansion joint system.

Complete

SYSTEM DEPTH "D"	Steel Angle Vert. Leg	Horiz. Leg	Thickness
3.500 88.900	2.000 50.800	3.000 76.200	0.250 6.350
4.500 5.500	3.000 76.200	3.000 76.200	0.250 6.350
5.500 139.701	4.000 101.600	3.000 76.200	0.250 6.350
6.500 165.101	5.000 127.001	3.000 76.200	0.250 6.350



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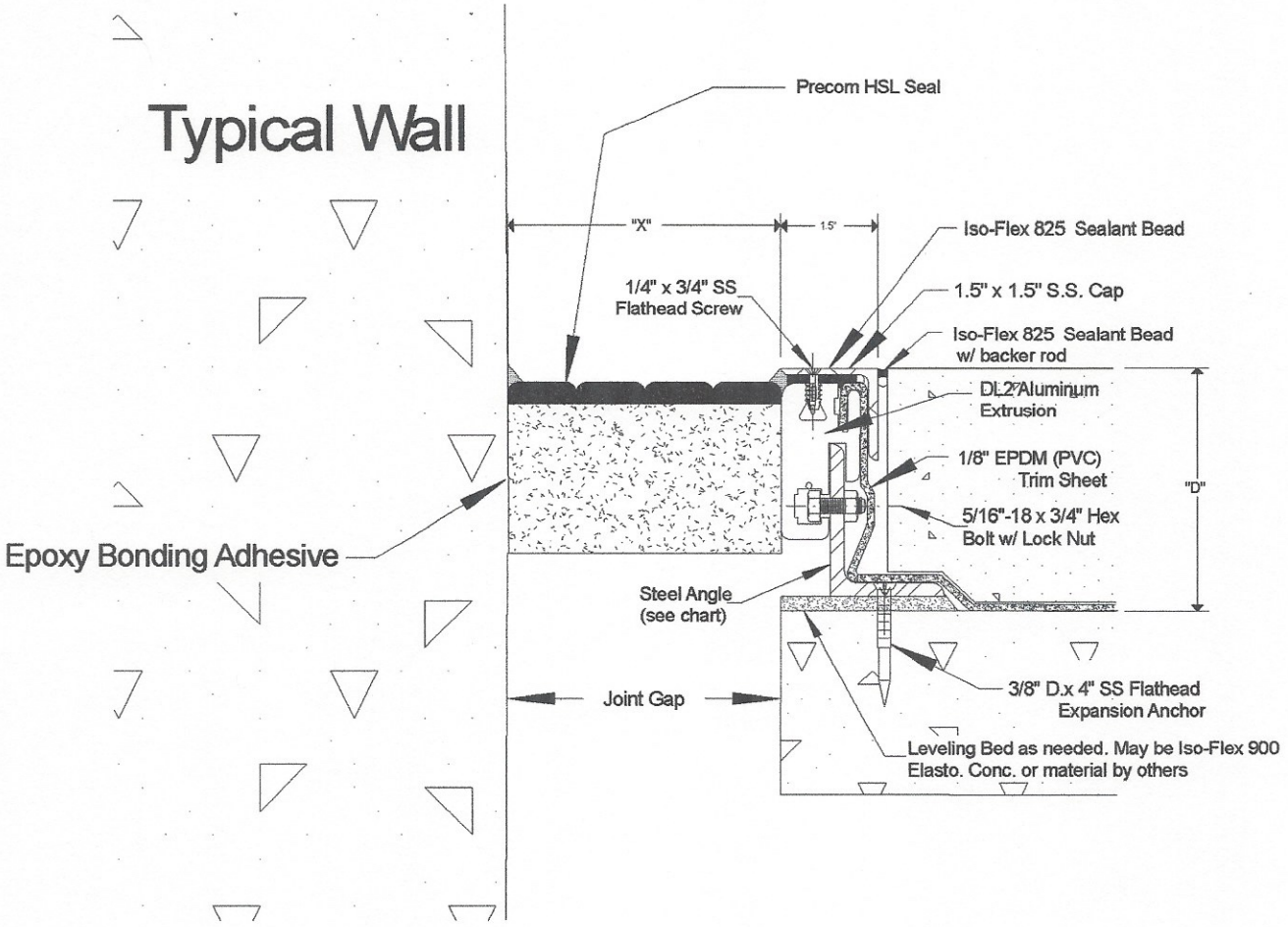
Decklock PCM Installation Page 4	
	Drawing Number:

Wall Condition

SYSTEM DEPTH "D"	Steel Angle		
	Vert. Leg	Horiz. Leg	Thickness
3.500	2.000	3.000	0.250
88.900	50.800	76.200	6.350
4.500	3.000	3.000	0.250
5.500	76.200	76.200	6.350
5.500	4.000	3.000	0.250
139.701	101.600	76.200	6.350
6.500	5.000	3.000	0.250
165.101	127.001	76.200	6.350

Typical Wall



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Decklock PCM Installation Page 5	
	Drawing Number:

Recommended Tools and Equipment

Hand Tools & Materials

1. Tape Measure
2. Chalk Line & Chalk
3. Combination Square
4. 4 Foot Level
5. Razor Knives
6. Pry Bars
7. Margin Trowels
8. Bulk Caulking Gun
9. Caulking Cartridge Gun (Large & Small)
10. Rubber Mallet
11. Shop Vac
12. Clean Rags
13. Open End Wrenches
14. Hex Socket Ratchet Set
15. Screw Drivers

Electric Tools

1. Extension Cords
2. Power Drills
3. Drill Bits
4. Power Miter Saw
5. Sawz-All Reciprocating Saw
6. Soldering Iron with flared tip
7. Hand Grinders

Decklock Component List

Components

1. A36 Steel Base Angles (Various Sizes)
2. DL2 Core Aluminum Extrusion
3. Precom HSL Rubber Seal (Various Sizes)
4. Epoxy Bonding Adhesive
5. Flexible Sealant
6. Dow 888 Silicone
7. Type 304 Stainless Steel 1.5" x 1.5" Angles
8. 1/8" x 12" Rubber Trim Strip in EPDM or PVC
9. IsoFlex 825 Sealant

Hardware

1. ¼" x ¾" Stainless Steel Flathead Machine Screw
2. 5/16" x 3/4" Stainless Steel Hex Bolt
3. 5/16" Stainless Steel Hex Lock Nut w/ Nylon
4. 3/8" x 4" Stainless Steel Expansion Anchor
5. 3/32" x 1" Stainless Steel Dowel Pin