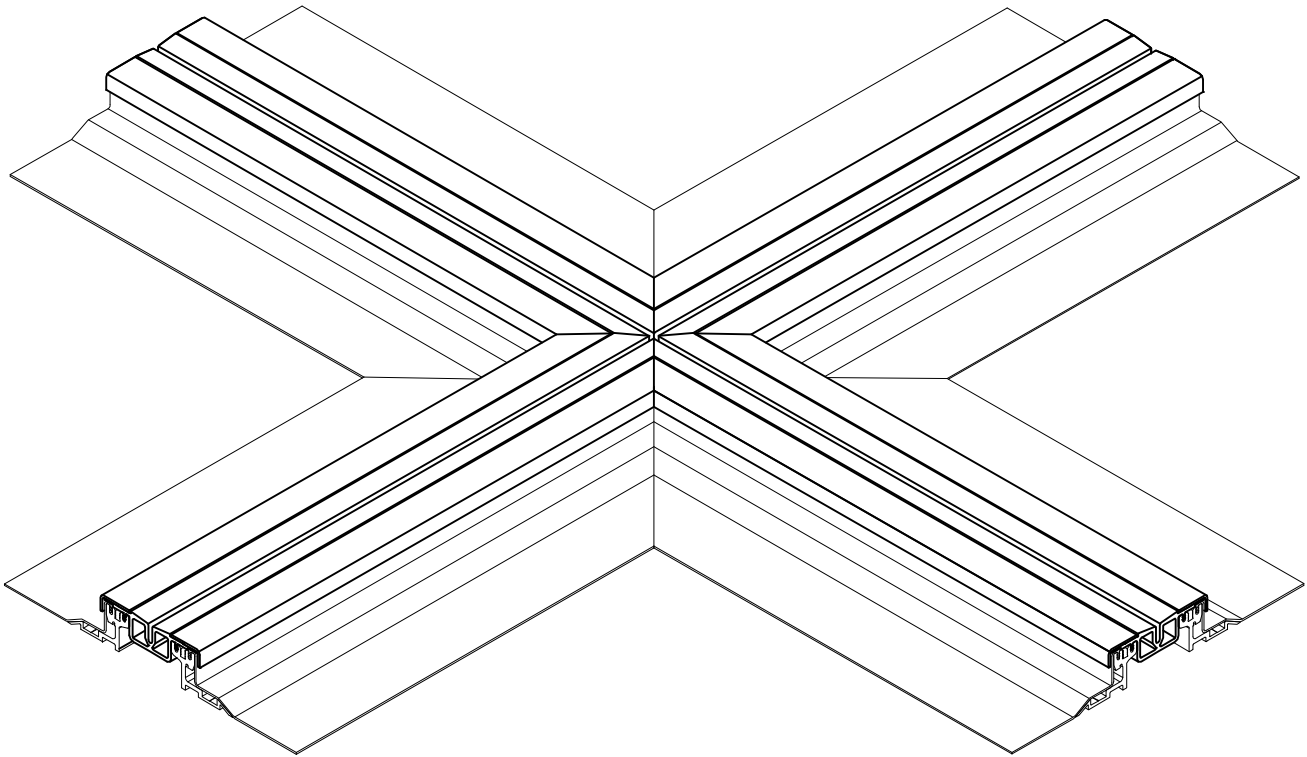


MODEL PDA/PDS 100-400 FACTORY TRANSITIONS INSTALLATION INSTRUCTIONS



MODELS PDA/PDS - 100 - 400
FACTORY TRANSITIONS

IMPORTANT INFORMATION

Prior to the commencement of installation, all materials **MUST** be inspected for damage. Any damage must be reported to CONSTRUCTION SPECIALTIES, INC., as soon as possible, so that replacement materials may be furnished without delay.

All work must be completed as per Architect's Approved "Shop Drawings", and in accordance with these Installation Instructions. When installation is complete, all materials must be protected from damage until the Architect's FINAL INSPECTION.

All materials should be arranged in the order that they are to be installed. All hardware required for each portion of the work should be placed with the appropriate materials.

Please review all Approved Shop Drawings and this document to familiarize yourself with all the details and components of this assembly.

IMPORTANT:

READ THROUGH ALL INSTRUCTIONS PRIOR TO STARTING INSTALLATION

4/3/17



Construction Specialties™

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Notes

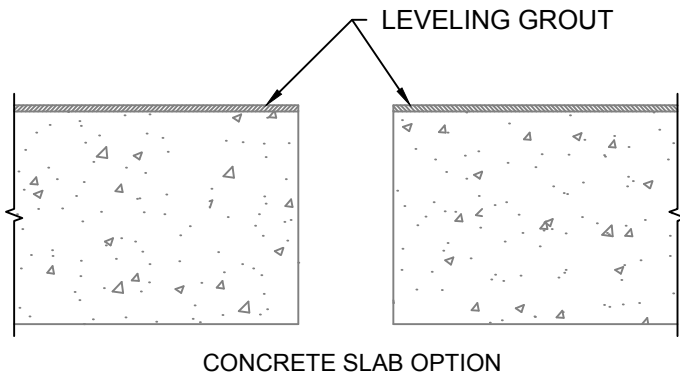
Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the joint cover models and locations.

Check all of the joint cover components to confirm that the correct joint cover model and size have been received. Also, check for materials that may have been damaged during shipping. Report all incorrect and/or damaged components to CS at 800-233-8493.

Read through all the steps of these instructions prior to beginning work.

STEP 1

SURFACE PREPARATION

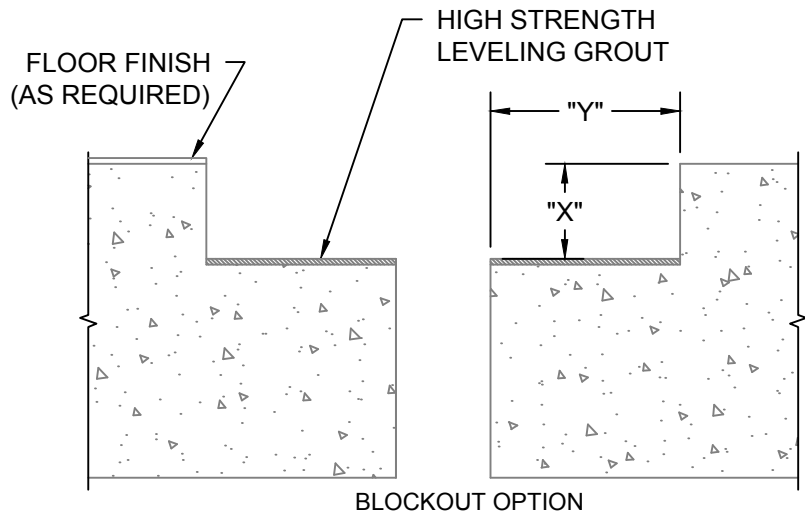


Note: The PDA/PDS models can be adapted to many field conditions. Depending on the field condition either a concrete slab or a blockout will need to be prepared first.

- 1.1) It is recommended that the slab or blockout be formed a minimum of $\frac{1}{8}$ " deeper to allow the top surfaces to be leveled before installation of the joint cover. (Note: Elevation may be adjusted as needed to accommodate surface finish when required.)
- 1.2) Apply a self leveling grout to the base of the concrete surface to provide a continuous, solid, flat and level base for the joint cover. (Note: The blockout's must be level across the width of the joint.)

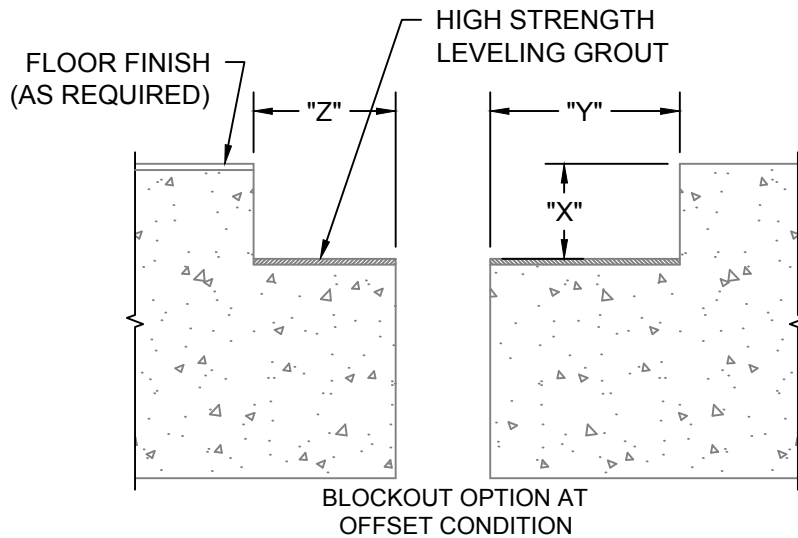
| JOINT SIZE | BLOCKOUT WIDTH ("Y") |
|--------------|----------------------|
| 1" [25.4mm] | 4" [101.6mm] |
| 2" [50.8mm] | 3 1/2" [88.9mm] |
| 3" [76.2mm] | 3" [76.2mm] |
| 4" [101.6mm] | 3 1/2" [88.9mm] |

| FRAME DEPTH | BLOCKOUT DEPTH ("X") |
|--------------|----------------------|
| 2" [50.8mm] | 2" [50.8mm] |
| 3" [76.2mm] | 3" [76.2mm] |
| 4" [101.6mm] | 4" [101.6mm] |
| 5" [127.0mm] | 5" [127.0mm] |



STEP 1 CON'T

SURFACE PREPARATION



Note: The PDA/PDS offset conditions for 1" & 3" models can be adapted to many field conditions. Depending on the field condition either a concrete slab or a blockout will need to be prepared first.

- 1.1) It is recommended that the slab or blockout be formed a minimum of $\frac{1}{8}$ " deeper to allow the top surfaces to be leveled before installation of the joint cover. (Note: Elevation may be adjusted as needed to accommodate surface finish when required.)
- 1.2) Apply a self leveling grout to the base of the concrete surface to provide a continuous, solid, flat and level base for the joint cover. (Note: The blockout's must be level across the width of the joint.)

| FRAME DEPTH | BLOCKOUT DEPTH ("Y") | JOINT SIZE | BLOCKOUT WIDTH ("Y") | BLOCKOUT WIDTH ("Z") |
|--------------|----------------------|-------------|----------------------|----------------------|
| 2" [50.8mm] | 2" [50.8mm] | 1" [25.4mm] | 4 1/2" [114.3mm] | 3 1/2" [76.2mm] |
| 3" [76.2mm] | 3" [76.2mm] | 3" [76.2mm] | 3 1/2" [88.9mm] | 2 1/2" [63.5mm] |
| 4" [101.6mm] | 4" [101.6mm] | | | |
| 5" [127.0mm] | 5" [127.0mm] | | | |

Note: As an alternate surface preparation/ Floor Frame installation method, an epoxy mortar bed can be spread on the surfaces that are going to be receiving the Floor Frame Assemblies. The epoxy mortar bed should be approximately $\frac{3}{8}$ " [9.53mm] thick x 5" [127.00mm] wide on both sides of the joint. The epoxy-mortar can be used to fill in any irregularities on the concrete slab or blockout.

- The Floor Frame Assemblies should be set in the epoxy mortar bed before it is cured.
- The Floor Frame Assemblies can be tapped down until the top surface is at the correct elevation.
- Continue this procedure for the entire run of joint cover. (Note: If needed the frames can be slightly lifted to insert the alignment pins.
- Allow the epoxy mortar to cure per the manufacture's instruction.
- Drill all holes for the CS Supplied Masonry Anchors to the specifications provided by the expansion anchor's manufacturer.
- Fasten the Floor Frame Assembly to the substrate using the CS Supplied Masonry Anchors

STEP 2

UN-ASSEMBLE TRANSITION

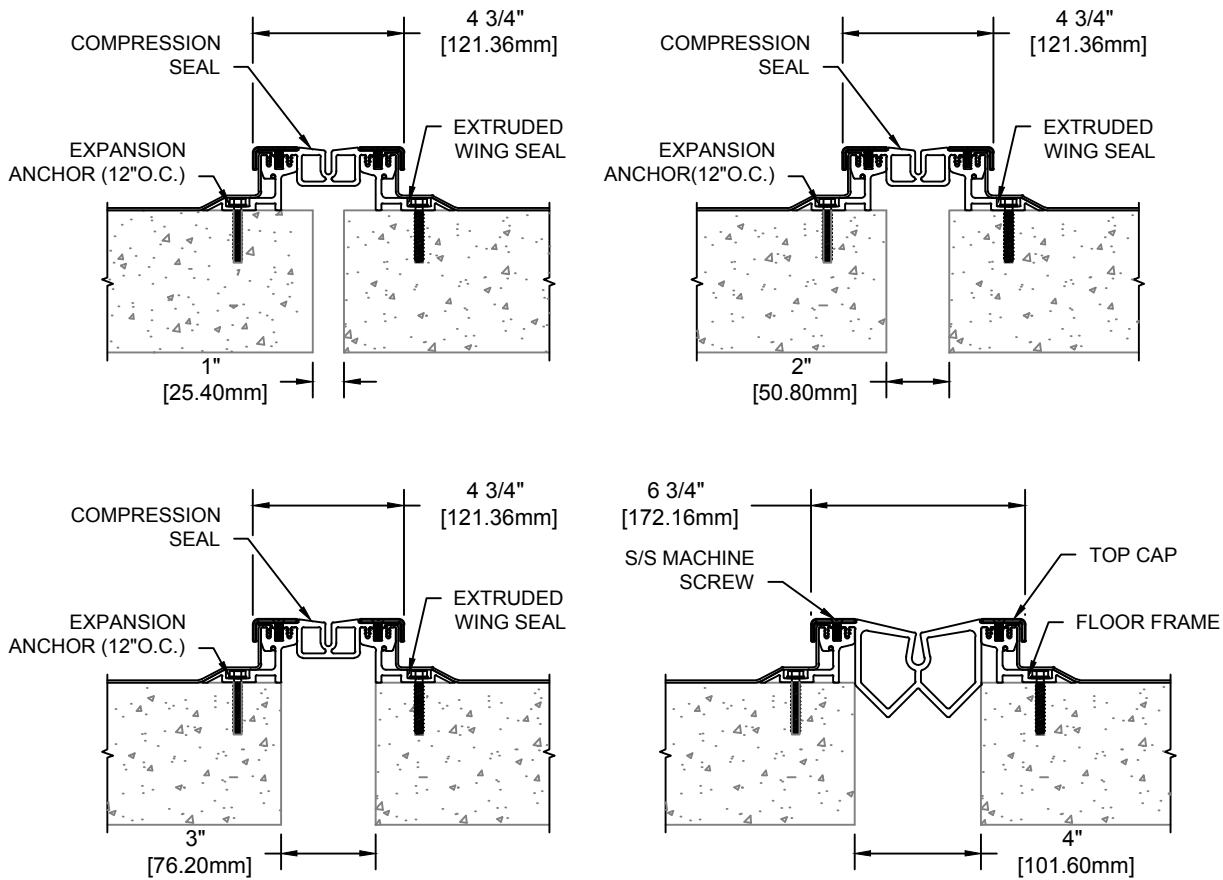


FIGURE 1.1

Note: If a CS Fire Barrier is to be installed in the joint, please review the Fire Barrier Installation Instructions supplied, and if required install the Fire Barrier **BEFORE** installation of CS Seismic Expansion Joint aluminum Floor Frame Assemblies.

Note: All pre-fabricated transitions come fully assembled as opposed to straight runs which are installed part by part. Pre-fabricated transitions include parts that have been factory heat welded. Care must be used when handling these parts, and any cracks or breaks must be repaired prior to finishing installation of the system.

- 2.1) Locate the CS supplied fabricated transition for the specific location.
- 2.2) Remove the Stainless Steel Machine Screws freeing the Top Cap.
- 2.3) Remove Top Caps and store in a safe place.
- 2.4) Remove the Compression Seal being careful not to damage the factory heat welded transition. Store seal in a safe place.
- 2.5) Remove the Extruded Wing Seal, once again being careful not to damage the factory heat welded transition. As with the other parts, store the Wing Seals in a safe place.
- 2.6) The only parts remaining should be the factory welded Floor Frame Assemblies.

STEP 3

INSTALL TRANSITION

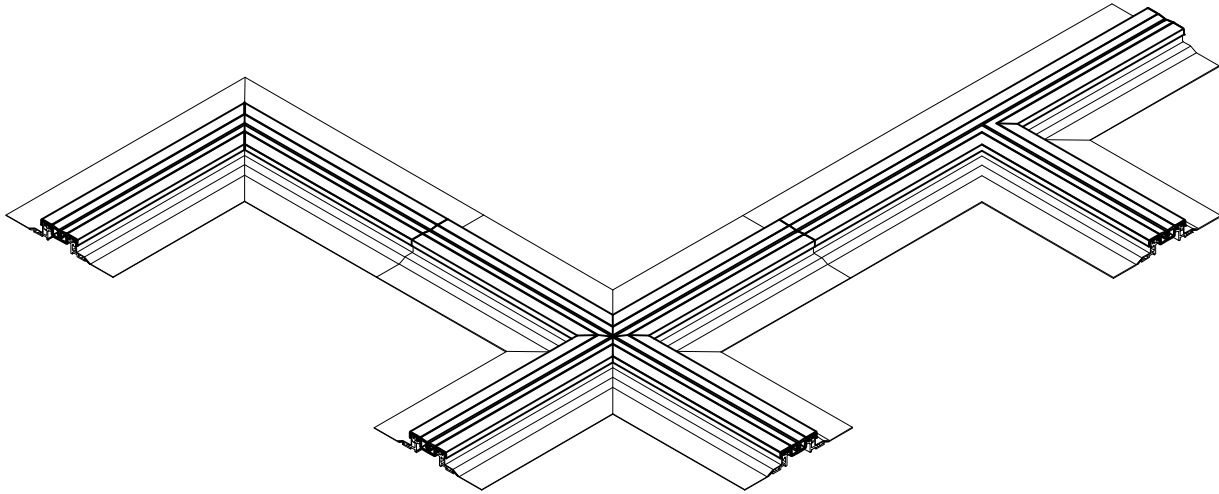


FIGURE 2.1

- 3.1) Install the factory welded Floor Frame Assemblies per Step 2 of the standard PDA/PDS Installation Instructions (12DZ). Be sure to use the alignment pins provided to line up the different sections of frame.
- 3.2) Install the factory welded Extruded Wing Seals per Step 3 of the standard PDA/PDS Installation Instructions (12DZ). The Extruded Wing Seal provided with the transition will butt against the Extruded Wing Seal for the standard joint run. THIS BUTT JOINT MUST BE HEAT WELDED IN THE FIELD. Also, inspect the factory welded joints and if any cracks or breaks are noticed they will need to be repaired by heat welding at this time.
- 3.3) Install the factory welded Compression Seal per Step 4 of the standard PDA/PDS Installation Instructions (12DZ). The Compression Seal provided with the transition will butt against the Compression Seal for the standard joint run. THIS BUTT JOINT MUST BE HEAT WELDED IN THE FIELD. Also, inspect the factory welded joints and if any cracks or breaks are noticed they will need to be repaired by heat welding at this time.
- 3.4) Install the factory Top Caps per Step 5 of the standard PDA/PDS Installation Instructions (12DZ).
- 3.5) To complete installation of the PDA/PDS Transition the Wing Seals need to be tied into the waterproofing of the plaza deck.
- 3.6) Tying the Wing Seals of the transition into the waterproofing should take place at the same time as the Seals for the standard run.
- 3.7) The PDA/PDS Transition needs to be protected during the installation of the waterproofing, installation of the finished deck surfaces, and until the Architect's final inspection.

Note:

- Heat welding can be done with a hot knife or other capable device.

STEP 4

TRANSITION TO VERTICAL

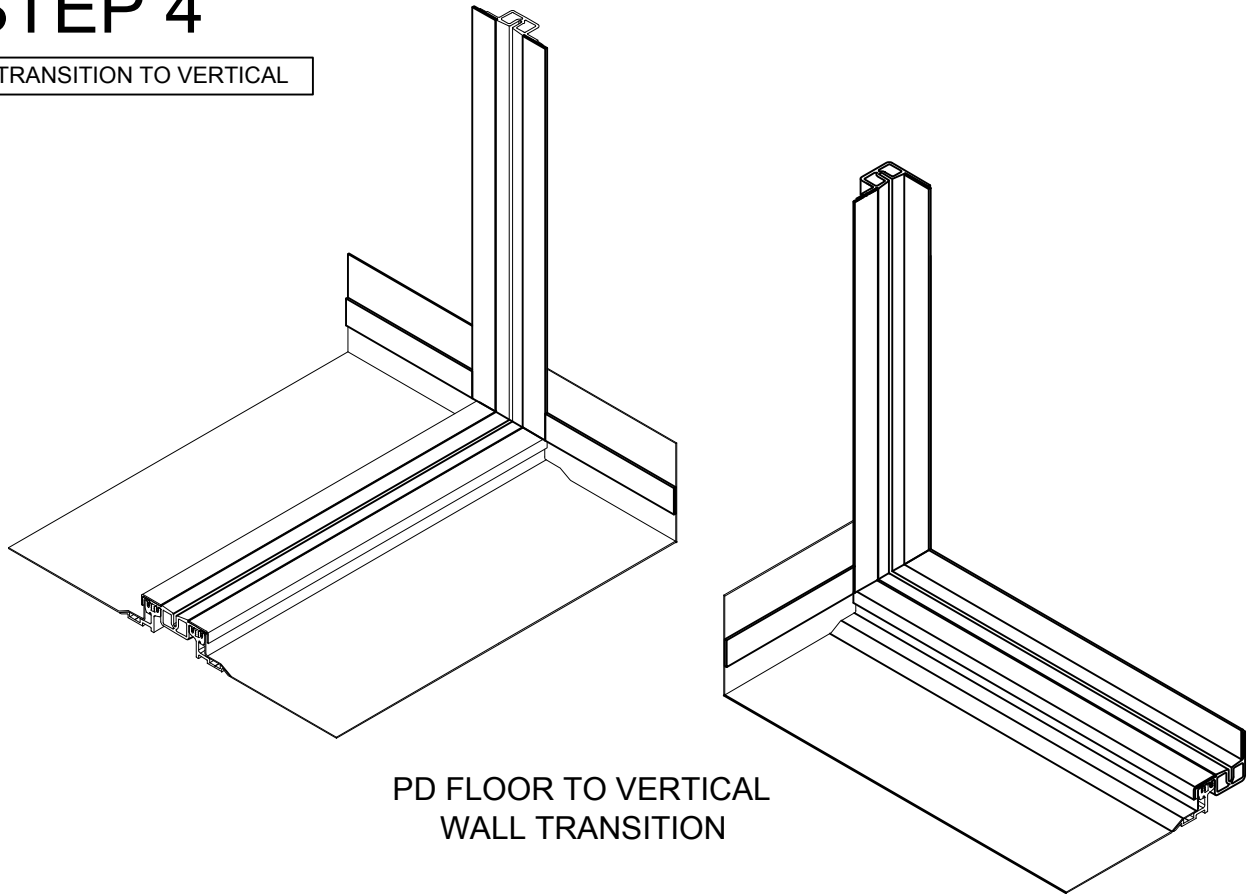


FIGURE 3.1

- 4.1) Install the factory welded Floor Frame Assemblies per Step 2 of the standard PDA/PDS Installation Instructions (12DZ). Be sure to use the alignment pins provided to line up the different sections of frame.
- 4.2) Install the factory welded Extruded Wing Seals per Step 3 of the standard PDA/PDS Installation Instructions (12DZ). The Extruded Wing Seal provided with the transition will butt against the Extruded Wing Seal for the standard joint run. THIS BUTT JOINT MUST BE HEAT WELDED IN THE FIELD. Also, inspect the factory welded joints and if any cracks or breaks are noticed they will need to be repaired by heat welding at this time.
- 4.3) Install the factory welded Compression Seal per Step 4 of the standard PDA/PDS Installation Instructions (12DZ). The Compression Seal provided with the transition will butt against the Compression Seal for the standard joint run. THIS BUTT JOINT MUST BE HEAT WELDED IN THE FIELD. Also, inspect the factory welded joints and if any cracks or breaks are noticed they will need to be repaired by heat welding at this time.
- 4.4) Install the factory Top Caps per Step 5 of the standard PDA/PDS Installation Instructions (12DZ).
- 4.5) Install the factory Anchor Bars per Step 7 of the standard PDA/PDS Installation Instructions (12DZ).
- 4.6) To complete installation of the PDA/PDS Transition the Wing Seals need to be tied into the waterproofing of the plaza deck.
- 4.7) Tying the Wing Seals of the transition into the waterproofing should take place at the same time as the Seals for the standard run.
- 4.8) The PDA/PDS Transition needs to be protected during the installation of the waterproofing, installation of the finished deck surfaces, and until the Architect's final inspection.

Note:

- Heat welding can be done with a hot knife or other capable device.