



# HIGH PERFORMANCE ADA DOMES

## WET-SET INSTALLATION INSTRUCTIONS (Fresh Concrete) For Mass-Transit Rail Platforms



**Step 1:** Preparation of Dome-Tiles and mortar mix



**Step 2:** Preparation of Wet Set (Fresh Concrete) for Dome-Tiles



**Step 3:** Prepare Dome-Tiles for installation



**Step 4:** Installing Dome-Tiles into Wet-Set (Fresh Concrete)



Removing Protective Covering (If applicable)



Completed installation



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## Wet-Set Installation Instructions

**Background:** The following installation instructions apply for Mass-Transit Rail Platforms only.

Locate areas to receive TekWay® ADA Dome-Tiles. Determine layout of tiles and, if necessary, precut tiles prior to beginning the installation process using a concrete saw with a diamond blade. Before installing, ensure you have the following items on-site.

Tools	Materials
<ul style="list-style-type: none"><li>• Cordless drill and mixing paddle</li><li>• Magnesium and Rubber floats</li><li>• Non-marring rubber mallet</li></ul>	<ul style="list-style-type: none"><li>• Mortar mix – Type “S”</li></ul>

**Step 1:** Preparation of Dome-Tiles and mortar mix:

- Prior to the arrival of the concrete, place Dome-Tiles face down on buckets. Insert anchors and hand tighten only. Back anchors off one quarter of a turn. Start preparing the mortar mix Type “S” by pouring the dry mix into a bucket.

**Step 2:** Preparation of Wet-Set (Fresh Concrete) for Dome-Tiles:

- Pour, tamp, and screed concrete to a depth no greater than ½” from top of form.
- Smooth the ½” recessed area with a Magnesium Float.

**Note:** Concrete must be fresh and showing no signs of setting up to ensure anchors will be fully encapsulated and achieve a solid bond between mortar and concrete.

**Note:** Concrete should not be poured in excess of ten feet beyond last tile set.

**Step 3:** Prepare Dome-Tiles for Installation:

- Wet the back of Dome-Tiles with water.
- Add water to the dry mortar mix and blend thoroughly.
- Using a rubber float, apply the mortar mix (no less than 1/8” thick) to the back of the tiles.
- Remove any mortar from the edges of the tiles (ensures tight tile joints).

**Note:** 100% MORTAR COVERAGE OF BACK OF DOME-TILES IS REQUIRED.



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### Step 4: Installing Dome-Tiles into Wet-Set (Fresh Concrete):

- Immediately after applying mortar mix, set tile into recessed area.
- Apply weight with one hand to the center of the tile and with the other hand strike the tile with a non-marring rubber mallet to force out any air pockets from between the tile and concrete.
- Work the tile down until the top surface between the domes is flush with the adjacent surfaces to provide a smooth transition.
- Stand the second tile vertically on the edge of the first tile and gradually lay it down into the concrete.
- Push the second tile up against the first tile and repeat the process for setting the tile flush with the adjacent surfaces.
- Repeat this procedure until the installation is complete.
- Finish concrete per design specifications.

**Note:** Concrete must be fresh and showing no signs of setting up to ensure anchors will be fully encapsulated and achieve a solid bond between mortar and concrete.

### General recommendation:

The process of setting multiple tiles efficiently works best with two - three people.

- The 1st person wets and applies the mortar on the tile and hands it to the 2nd person while also helping to lower it into place.
- The 2nd person positions the tile and sets it flush to the adjacent surfaces while working out any air pockets.
- The 3rd person follows making minor adjustments and cleaning any residue on the tiles.

**Following the above procedure will help to ensure 100% surface contact between the concrete and the Dome-Tiles. Concrete/Domes will become a monolithic structure.**

**Note:** Removing Protective Covering:

- If applicable, remove protective covering from the TekWay® ADA Dome-Tiles within 48 hours after completing the above steps.

**Warning: Sunlight damages the protective covering! The removal of this covering within 48 hours will ensure a quality and maintenance free installation.**





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### Additional Benefits Tekway® offers:

- Multiple colors, sizes, and configurations
- Tile specific shop Drawings
- Consulting for Layout/Design
- Dedicated Customer Service
- Custom-colors available
- On-site Installation Training Class available

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