



P.O. Box 3
North Billerica, MA 01862

INSTALLATION PROCEDURE

ADA REPLACEABLE (WET-SET) COMPOSITE UNITS FOR COMMERCIAL APPLICATIONS

1. **Submittals/Approvals:** Contractor will not be allowed to install ADA Replaceable (Wet-Set) Composite Unit (ADAREP) until all submittals have been reviewed and approved by the Engineer.
2. **Truncated Dome Alignment:** When successive ADAREP Units are installed, or when cutting to a radius, take care to insure that the truncated domes are properly aligned (to the maximum extent possible) for the best possible function and architectural finish.
3. **Concrete Substrate:** Generally, the ADAREP Unit shall be installed when the slump value of the concrete substrate is in the 4 – 7 range. The ADAREP Unit is best installed in a somewhat “stiff” concrete mix. Excessively “wet” concrete mixes are undesirable.
4. **Installation:** The ADAREP Units shall be tamped with a rubber mallet (Avoid striking directly by using a cut 2”x4” piece of wood) or vibrated into the fresh concrete to ensure that there are no voids or air pockets, and the field level of the ADAREP unit is flush to the adjacent concrete surface, or as the drawings indicate, to permit proper water drainage and to eliminate tripping hazards between adjacent finishes.
5. **Maintain a Level Profile:** Depending upon the “stiffness” of the concrete mix, it is possible that there might be a minor tendency of successive ADAREP Units to float slightly relative to one another. If and when such a condition arises, and to insure that ADAREP Units are level relative to one another, place a small piece of plywood (to distribute the load) with suitable weight on it to span the joint line between successive ADAREP Units. The weight may be removed once initial set of the concrete is achieved.
6. **Spacing:** The Installer must leave a 1/8” nominal gap between successive ADAREP Units. UNDER NO CIRCUMSTANCES SHALL SUCCESSIVE ADAREP UNITS BE INSTALLED WITHOUT THE 1/8” NOMINAL JOINT OR ALLOWED TO OVERLAP.
 - A. **Plastic Joint Materials:** To insure that a uniform 1/8” wide nominal joint is created between successive ADAREP Units, use 1/8” PLASTIC TILE SPACERS, as manufactured by Superior Bilt or equal, between successive ADAREP Units – this is the preferred approach. Alternatively, a plastic joint material such as “SPEED-E-JOINT” (“Zip-Strip”), as manufactured by W.R. Meadows, Inc., may be installed between successive ADAREP Units. Equivalent joint materials/systems may be used so long as a uniform 1/8” wide joint is created and so long as sealant may be properly applied to the 1/8” wide nominal joint.



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7. **Perimeter Edge Treatment:** As part of the concrete finishing operation, the Installer shall use a ¼” edging tool to create a ¼” edge treatment around the perimeter of the ADAREP Units to facilitate future replacement of the ADAREP Units.
 - A. **Successive ADAREP Units:** Installer shall also clean out the 1/8” wide (nominal) joint between successive ADAREP Units so as to allow for proper application of sealant material. The joint may be cleaned out with an edging tool, tile spacer, or similar device.

8. **Apply Urethane Sealant for Water Tight Performance:** Once the concrete has cured sufficiently, and the substrate is determined to be dry, a Urethane Sealant such as Sikaflex1a or BASF Sonneborn NP1 shall be applied to the edge treatment and joints between successive ADAREP Units for a watertight ADAREP Unit installation. For optimal performance, prior to applying the sealant, inspect the ADAREP installation to insure that water from a recent cleaning operation or rain event hasn't collected around or underneath the ADAREP Unit. In the event that water is coming out from underneath the ADAREP Unit, remove the ADAREP Unit(s) and dry the underlying substrate using a blower – or for maximum speed a propane powered weed torch. Based upon the caulking skills of the Installer, the Installer may wish to mask at least the joint between successive ADAREP Units to insure that a sealant bead, with pleasing uniform architectural appearance, is applied between successive ADAREP Units.

9. **Cutting ADAREP Units:** ADAREP Units may be cut to desired size and configuration with a marble tip or diamond tip blade using a table saw or equivalent cutting device. The structural integrity of the ADAREP Unit is not compromised by cutting.
 - A. **Grinding Truncated Domes:** When cutting through truncated domes, Installer shall use a mini-grinder to grind smooth (to the maximum extent practicable) all cut truncated domes. The Installer may also grind cut truncated domes between successive ADAREP Units as necessary for optimal fit, appearance, and function.
 - B. **Layout for Radial Application:**
 1. **Wedge Approach:** Installer may elect to cut an appropriate number of ADAREP Units into wedge shapes suitable to “step around” the desired radius.
 2. **“Cut To Fit”:** Installer may wish to modify 3’x4’ or 3’x5’ ADAREP Units into “single piece” radial units to conform more precisely to the desired radius.

10. **Creating Additional Anchor Location(s):** All anchor locations on the ADAREP Unit are located five inches inside of the perimeter of the ADAREP Unit. In the event you cut off an anchor when cutting to fit, please follow the procedure below, prior to installation:
 - A. **“Countersink Kit”:** Installer may purchase from ADA Solutions, Inc., a Countersink Kit consisting of a 7/8”, 82*, 6pt countersink bit along with hex drive ½ “ flat head, stainless steel bolt(s), and anchors. (Caps are not used for these fastener locations).



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- B. **Countersink:** Using the countersink bit, carefully countersink a new fastener hole in the desired location between the truncated domes. Do not countersink any deeper than where the countersink bit begins to go vertical. There is just enough depth in the body of the ADAREP Unit to accommodate a new anchor.
 - C. **Inspection:** Prior to installing the ADAREP Unit, confirm that the flathead bolt supplied by ADA is properly and flush seated within the newly created anchor hole location.
11. **Removal of Plastic Cover:** The ADAREP Unit is supplied with a protective plastic cover to protect the ADAREP Unit from construction debris and equipment until ready to place into commercial service. In the event of high UV and temperature exposure, please remove the protective plastic cover as soon as the concrete has cured sufficiently so that the protective plastic cover does not become bonded to the ADAREP Unit.