

The PVC used in the manufacture of our film fill packs and drift eliminators meets stringent industry standards for use in cooling towers. As such they will not be damaged by operating at the maximum temperatures described by our guidelines. However, under certain storage conditions it is possible to encounter temperatures high enough to cause permanent damage to the modules. To avoid this, the following guidelines must be followed:

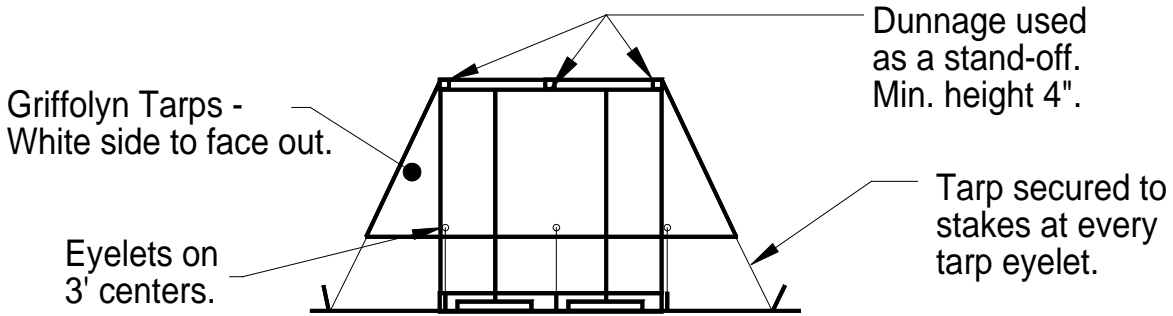
- A.) **Modules must not be stored in any environment where the air temperature exceeds 120⁰F (49⁰C).**
- B.) **When considering outside storage, the skin temperature of modules must not be allowed to reach more than 140⁰F (60⁰C) or more due to solar heat gain.** Black PVC rapidly absorbs the sun's energy. Therefore, when exposed to direct sunlight the surface temperature or skin temperature can be considerably higher than ambient temperatures.
- C.) **Modules must not be stacked more than eight-12 in. (300mm) layers high.** Drift eliminators must not be stacked more than ten layers high. Each layer must be fully supported by the previous one and placed at right angles to the one below. The bottom-most modules must be fully supported on skids on flat, level ground.
- D.) **Modules must be stacked such that the plane of the PVC sheets are in the vertical position,** similar to the manner of their placement in the cooling tower.
- E.) **Modules must be stored in an area where impact damage is not likely to occur and adequate protection is afforded against dirt and other debris.**
- F.) **Modules requiring storage more than 4 weeks must be covered.**

Cover requirements:

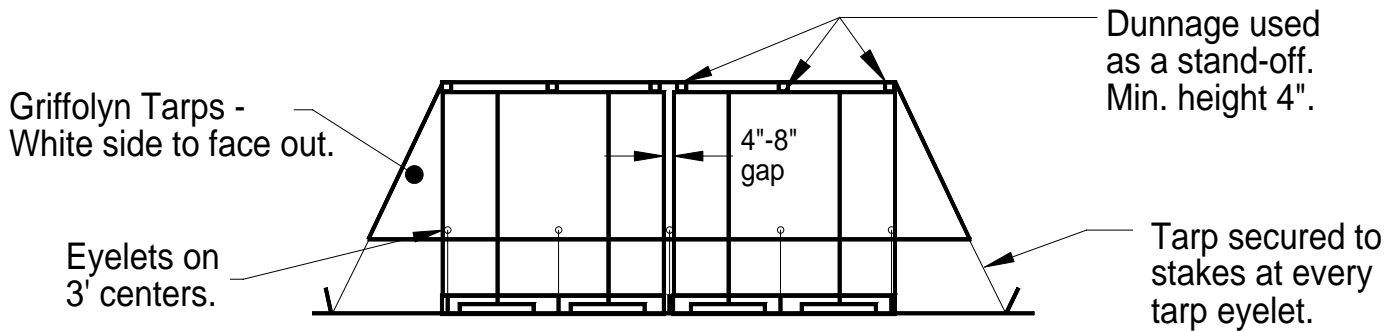
- Ideally these covers should be heavy duty tarps that are double sided, white on black with the white side, facing out to reflect light away. There must be at least a 6 in. (150mm) air gap between the cover and top of the modules. The ends of the cover must be securely anchored on all sides with at least a 12" (300mm) air gap at the bottom. These covers provide shading while allowing air to pass through, preventing heat build-up. See Brentwood Drawing CTPGA-007 for details and tarp recommendations.
 - **Clear or black covers must not be used.**
 - **Covers must not be wrapped tightly around the media.**
- G.) **Modules must be checked once a week.** Covers can become loose over time due to wind or rain. The storage area must be checked to make any minor repairs to the covers or to restack any modules that may have fallen.

Guidelines for the Storage of Nested Sheets

- A.) Fill sheets are shipped packed on their edge in either open crates or closed boxes. In either case, fill sheets cannot be exposed to direct sunlight for any length of time. The solid block of PVC created by the nested sheets will absorb heat rapidly and distort the exposed edges. **We strongly recommend inside storage.** If this is not possible then use of tarps as described in Item F above will be required.
- B.) Crates can be stacked if desired. Do not stack more than 60 inches (1.5m) high. They must be fully supported on flat level ground.
- C.) Drift eliminator blades are typically stacked in open crates. They must be stored using the same procedures outlined above. Drift eliminator crates must not be stacked.
- D.) Drift eliminator end caps are typically shipped in cardboard boxes. These and any product shipped in boxes must be stored inside.
- E.) All fill sheets, drift eliminator blades, end caps, etc., must remain clean and dry prior to assembly. Dirty or wet parts could result in poorly bonded modules.



Front Elevation - Typical Single Row



Front Elevation - Typical Double Row

Notes:

- Only acceptable tarp: Griffolyn model T90.
- Griffolyn tarps manufactured by:
Reef Industries, Inc.
9209 Almeda Genoa Road
Houston, TX 77075
Tel: 1-800-231-6074
www.reefindustries.com

| | | | |
|---|------------------|-----------------------------------|-----------|
| BRENTWOOD INDUSTRIES, INC. | | P.O. Box 605 Reading, PA 19603 | |
| SCALE | NTS | DRAWN BY | RJA |
| DATE | 12/07/06 - Rev 1 | APPROVED BY | RJA |
| TITLE General Arrangement of Fill Pallets for Extended Outside Storage. | | | |
| FILE NO. | storage1.skd | DRAWING NO./DIE NO. | CTPGA-007 |
| | | | REV. 1 |