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CRITICAL REQUIREMENTS FROM GENERAL INSTALLATION GUIDELINE FOR AUTOMATIC POOL COVERS
Major points to inspect during pool construction

- 1 Pool must be a true rectangle with square corners above water line.
- 2 At gunite, make sure cover box is plumb, square to pool and pool is a true rectangle. Concrete box must be smooth on bottom and sides. **Should slope toward drain** or drain sump well. Refer to dimensions in General Installation manual for correct lower beam and cover housing dimensions. 14in. wide, 14in. deep, 32in. at motor, 10in. non-motor end (16in. deep if vanishing edge)
- 3 Cover box must have one 3” screened drain at one end. Drainage should be sufficient to handle heavy rains. (Monsoons can deliver more than 3 inches of rain in one day. A 15 x 30 pool can catch over 100 cubic feet of rain during these storms.) **Drains placed at extreme ends of cover boxes** are preferred and easier for the customer to keep clean **Do not place drains in the center of the cover housing**
- 4 **Walls inside pool, (I.E. spa walls), must be 2” lower than top of beam (after tile) edges should be finished with ¼ round or bullnose tile.**
- 5 Lower bond beam at the cover box must be 2” lower (finished tile) than sidewall (or top of beam) sloping to 3” lower (finished tile) at water edge. Tile must not cantilever into cover housing, finish flush. **Use a rounded tile on the front and back edges to minimize scraping on the cover.** Lowered spa walls have same requirements. Avoid cut tile edge facing cover box opening or pool. Cut tile edges may result in **requiring modifications or added expense to the builder to protect the fabric.**
- 6 **Electrical #8 copper bond wire** off the steel to both ends of the cover box. Multiple options are possible. Review your sales agreement. Dedicated 110 volts supplied to key control box or location of pool cover circuit board at pool equipment area, protected by **a motor rated GFCI**. Key switch location should be in **full view** of the pool. 54” above grade. ASTM and NEC code requirements. Local codes maybe more stringent. **Conduits at extreme end of motor side of cover housing finished in flex conduit. Provide 1 foot wire pigtails at the end of all provided conduits**
- 7 Coping or cantilever deck must overhang the pool side walls, providing a smooth flat horizontal 3”cantiliver mounting surface (after tile) for the pool cover tracks. There must also be a 3”overhang at the end of the pool opposite the cover box. This layout permits proper cover closure.
- 8 Paver decks require installation of track channel or stainless steel straps prior to deck installation. Tile should be installed first, top of beam floated flat and level 10” back from water edge
- 9 Cover Housing Perimeter area (minimum 6” wide) around top opening should be flat and level, not sloping. Permitting proper installation of pool cover lid without gaps between lid and deck. No cantilever of deck material over cover housing, only over lower beam area near cover housing. Must be a solid foundation. Not pavers set in sand.
- 10 Spill ways and water features: Special considerations must be given to water features that empty into the pool. Track channel or stainless steel straps must be installed prior to water feature construction. Please call and ask about our water feature interrupt switch with special wiring requirements.
- 11 Vanishing edge or vanishing lids: Pools with vanishing edges or walk on vanishing lids have special dimension requirements. Contact Arizona Pool Covers 520-408-1579 or 480-829-0083 for correct dimensions of your specific job. **Vanishing lid material MUST be thinner than coping material, or elevations changes are required, if not provided, vanishing lid installation may not be possible.**