Return to Table of Contents

Standard Underguide System

For Srew-on Guide and Electric Motor Only

All Corners Square

2½" Flat overhang both sides and end of pool

General Requirements
1. Pool must be true rectangle. (AB=CD, AC=BD, AD=BC)
2. Mechanism end bond beam and interior walls must be 2 inches lower.
3. Deck or coping around pool perimeter must cantilever 2 inches minimum flat beyond tile
4. One 3 inch diameter drain from housing required. Adequate housing drainage required.

Excavation
1. Layout must be true rectangle and corners cut square.
2. Skimmers and other plumbing not deeper than housing may not be located on mechanism end bond beam.
3. For polymer housing dig 16" down and 24" back from pool. Dig 4' past waters edge on motor side and 2' on non motor side. For concrete housing dig 24" down and 24" back from pool. Dig 4' past waters edge on motor side and 2' on non motor side.
4. If drywell will be used for drainage, for convenience dig at this time. Dig hole 30 inches wide and 7 feet deep, 1 foot of stone in bottom. See drywall in this manual

Cover Housing
1. Install housing or form for concrete housing after excavation but before steel and gunite. Refer to housing options for installation.
3. Stake housing or form in place. It should not move before and during gunite.
4. Motor end offset is 36" and non motor side is 12" from interior of pool walls.
5. Housing is 14" wide and 14" deeper than side wall bond beam elevation for pools up to 55' long or up to 25' wide. For pools exceeding these limits contact your Coverstar distributor.

Steel
1. All corners are square.
2. Steel mechanism end wall and interior spa walls 2 inches lower.
3. If cover housing is connected to gunite pool, steel around concrete form.

Plumbing
1. Avoid placing plumbing under housing. If required, plumbing and light conduits must be kept 16 inches lower than side wall elevation in housing area.
2. 3 inch drain required at motor end of housing. Non-motor end drain also is best. Keep drains tight to housing ends.
3. Set skimmer height for water level 4" below bond beam.

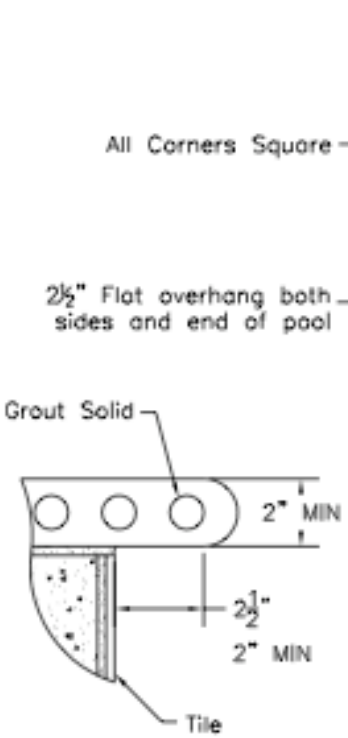
Electrical
1. #8 solid bond wire with 3 foot tail at each end of housing. Wire must be bonded to equipment pad.
2. Motor under full load rated 8.8 AMP 120VAC. Use adequate wire size and follow required codes.
3. Wire to housing should terminate in all-weather junction box. Standard system requires all wires to be sized for motor rating. Key switch carries full motor load. Circuit boards require wire for 5VDC run in conduit seperate from AC wiring.
4. Key switch requires single gang all weather junction box. It must be located where 100 % of pool surface is visable. If pool is outside switch should be outside also.

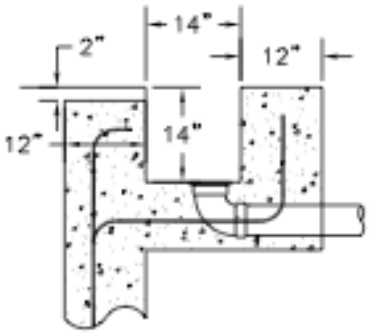
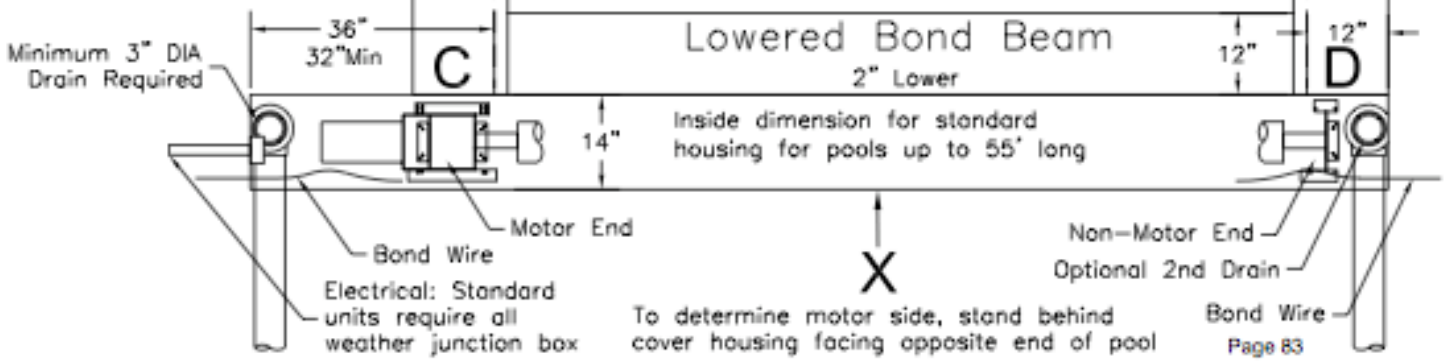
Gunite
1. Pool shell must be true rectangle. (AB=CD, AC=BD, AD=BC)
2. All corners are cut square.
3. Mechanism end bond beam is lowered 2 inches between side bond beams, unless using encapsulation.
4. Interior spa walls and other featers are 2 inches than side bond beams.

Cantilevered Edge
1. Cantilever edge must overhang 2"(min) flat beyond tile on 3 sides. Edge treatments such as bullnose, round over or rock facing should not protrude more than 3/4" beyond flat area.
2. Cantilevered material must be a minimum of 2" thick and have sufficient strength to hold screw and anchor without cracking. Material selection and strength is responsibility of builder. Coverstar is not responsible for damage to cantilevered edge from guide mounting.
3. Cantilevered edge continues over lowered bond beam ending flush with inside of housing.

Tile
1. Tile top of lowered bond beam. The finished surface of the lowered bond beam must be at least 1½ inches below underside of cantilevered edge. Top may be flat or slope ½ inches down to pool.
2. Interior spa wall must finish at least 1½ inch below underside of cantilevered edge. There cannot be rough edges or sharp corners.

Cover Installation
1. Cover may be installed only after pool water is with in 6" of guides
2. In no case may cover be left over pool without water level in pool at final elevation.





Because coping and deck thickness vary, housing depth is always measured from the top of beam or top of encapsulation.