



# A Photo Guide to Autocover Pool Options

## For Concrete/Gunite Pools



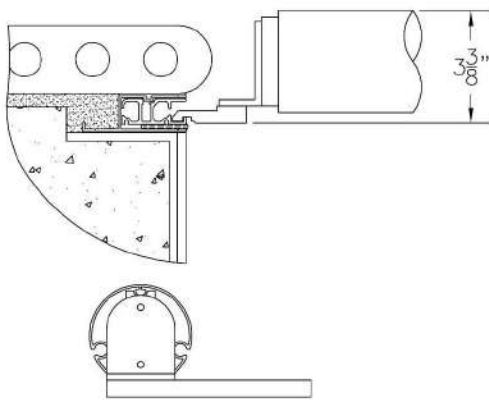
# Underguide Vs. Topguide/RHG

Underguide is used in the following applications: Standard & Encapsulated Underguide, Pool-in-Pool, and Extreme Cantilever. It uses a slider and Leading Edge Bar Insert to support the Leading edge Bar directly to the side of the guide. This typically makes the Leading Edge Bar at or below the deck surface. Underguide catches less dirt and needs less cleaning. There are many different encapsulations configurations to allow it to be used with a variety of pool types.

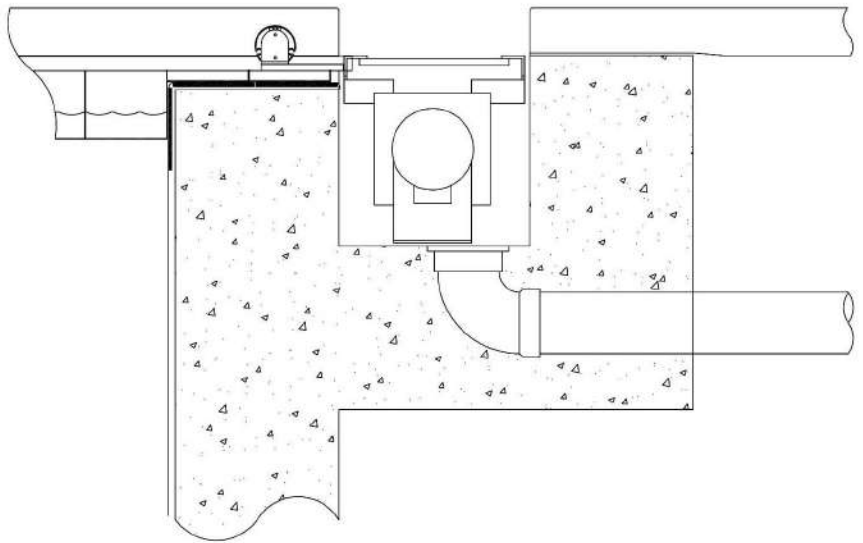
Topguide, Recessed Horizontal Guide, and Screw Down Recessed Horizontal guide are all used to cover existing pools or free form pools and rectangles with free form elements(outside benches and walk out steps). These use a wheel assembly to support the Leading Edge Bar above the deck. This can make the Leading Edge Bar almost 7" above the deck. These guides capture much of the debris on the deck surface and should be cleaned often.

## Slider and Leading Edge Bar Insert

Used with: Underguide

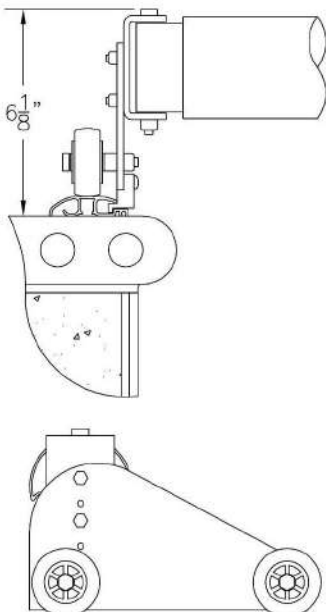


## Standard Underguide

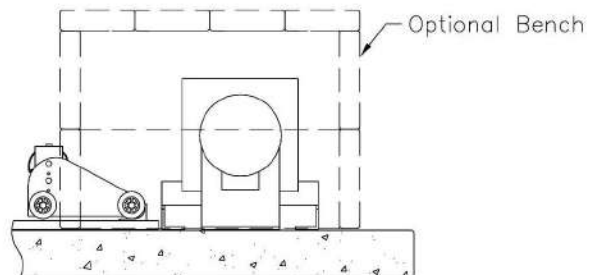


## Wheel Assembly

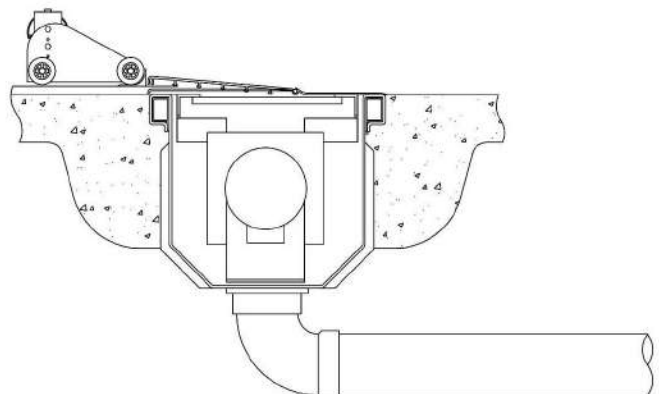
Used with: Topguide  
Recessed Horizontal Guide(RHG)  
Screw Down RHG



## Deckmount Topguide



## Recessed Topguide/RHG



# Photo Guide to Autocover Options

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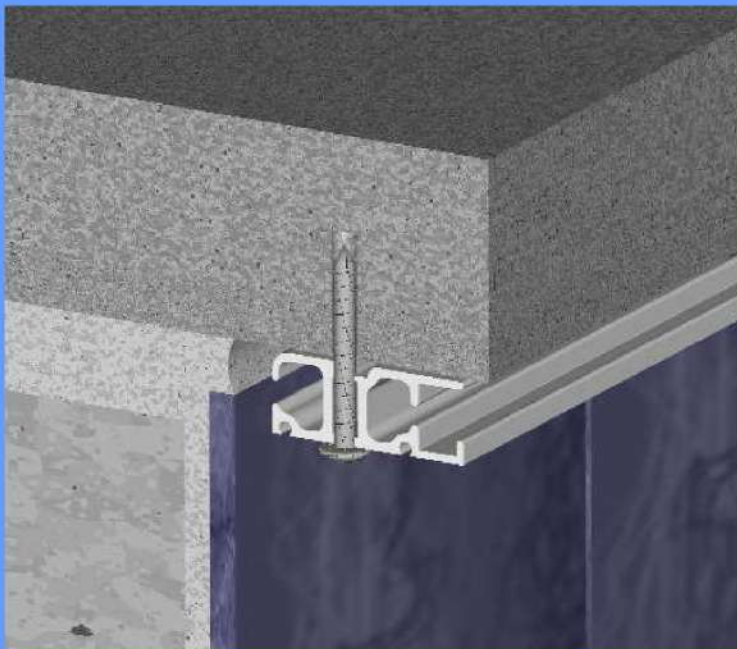


## Underguide Application Options

Underguide Autocovers provide the most integrated and seamless look to your pool. Both the Guides and the Mechanism that moves the cover are located below the deck and coping.

### Guide Options

Guides are attached to the two long sides of the pool. They have channels that the cover fabric slides through holding it to the edges of the pool. There are two ways to attach the guides to the pool. Though the coping options are limitless when using encapsulated guide, coping will need to be at least 2" thick with Screw-on Guide and Stone Walk-on Lid options.



#### Guides: Screw-on Guide

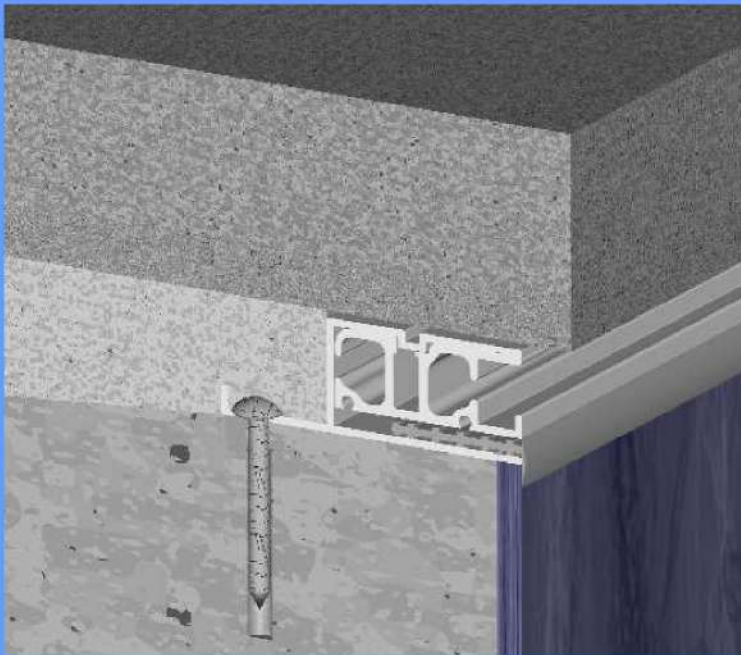
Guides are attached by drilling holes in the underside of the coping every 2 feet, inserting a plastic expansion anchor then screwing into the anchor. This method relies on the strength of the connection between the anchor and the coping, the coping itself and bond between the coping and the pool wall. Coping must be 2 inches thick and overhang the pool tile 2 1/2 inches. It is best to use coping that is at least 14" wide.





## Guides: Encapsulated Guide

Guides are contained in a sleeve called "encapsulation" in the pool wall. Encapsulation is attached to the top of the pool wall after the tile has been put on, then the coping is placed on top of the encapsulation. This method does not depend on the coping for strength but instead on the encapsulation that is screwed and cemented into the pool wall. Coping overhang is typically 1/2 inch and the coping is usually 12 inches wide. Coping can be any thickness. Cantilever deck forms that clip into the encapsulation are also available for forming the edge of the concrete deck along the inside of the pool.





## Coping Options

Though the coping options are limitless when using encapsulated guide, coping will need to be at least 2" thick when using Screw-on Guide or Walk-on Lid options. To use matching Walk-on Lid stones, choose coping that is at least 2" thick, at least 14" wide and 16" to 48" long

### Coping: Natural and Pre-cast Coping Stone



Bluestone with Screw-on Guide



Bluestone with Encapsulated Guide



Limestone with Screw-on Guide



Travertine with Encapsulated Guide



Pre-cast Stone with Screw-on Guide

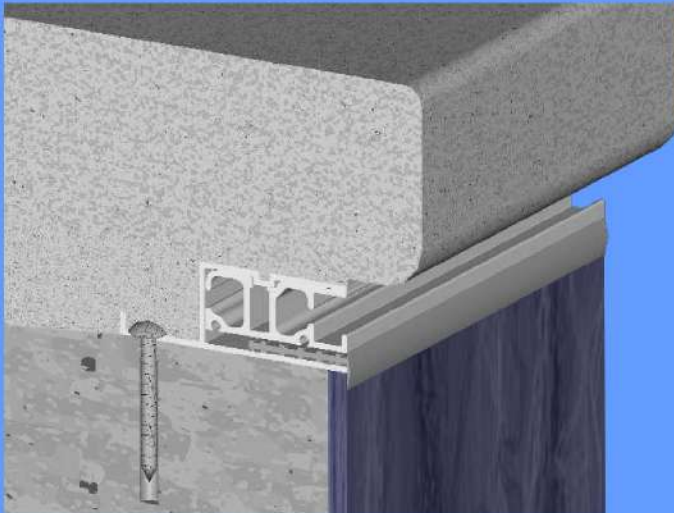


Brick with Encapsulated Guide

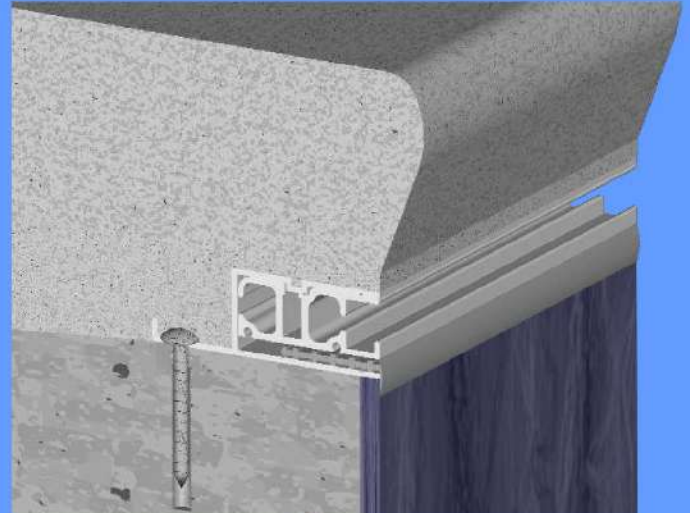


## Coping: Formed Cantilevered Concrete

Cantilever and inclined concrete deck forming profiles are available for encapsulated guide pools.



Standard Cantilever Forming



Inclined Forming



Exposed Aggregate Concrete



Brushed Concrete



Stamped Concrete



Stamped Concrete



## Cover Housing Lid Options

The cover housing lid covers the opening in the deck where the mechanism rolls up the cover. Not all lids can support the weight of persons walking on the lid. The most basic lid is the Standard Aluminum Lid. The premium aluminum lids are the Flat Aluminum Lid and the Flush Aluminum Lid, both lids can be upgraded to walk-on lids. Stone Walk-on Lids use coping or decking material in conjunction with our Walk-on Lid Bracket system for the most visually appealing cover box lid.

### Lids: Standard Aluminum Lid

The Standard Aluminum Lid is a bright clear anodized aluminum lid that is fastened to the top of the deck. It is supported by brackets every 4 to 5 feet. These brackets are designed to support the lid only and cannot support the additional weight of a person walking on the lid. An economic choice best suited to pools that will not have a lot of foot traffic at the end of the pool with the cover housing.





## Lids: Flat Aluminum Lid

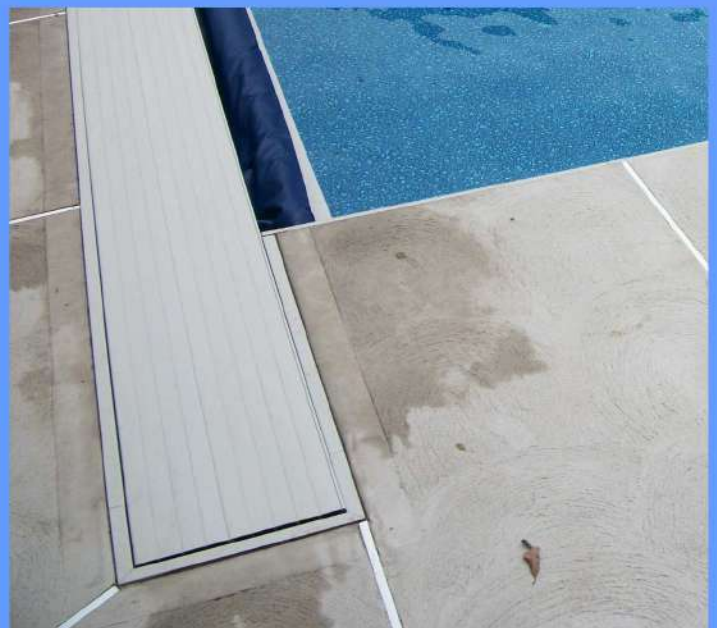
The Flat Aluminum Lid is a light gray painted aluminum lid that is fastened to the top of the deck with screws that are countersunk. It has a rounded bezel that wraps around the lid and has an extended hinge range to allow easy access to the cover housing for cleaning. It is supported by brackets every 4 to 5 feet. The standard brackets support the lid only and cannot support the additional weight of a person walking on the lid. Request walk-on lid brackets to make this a walk-on aluminum lid.





## Lids: Flush Aluminum Lid

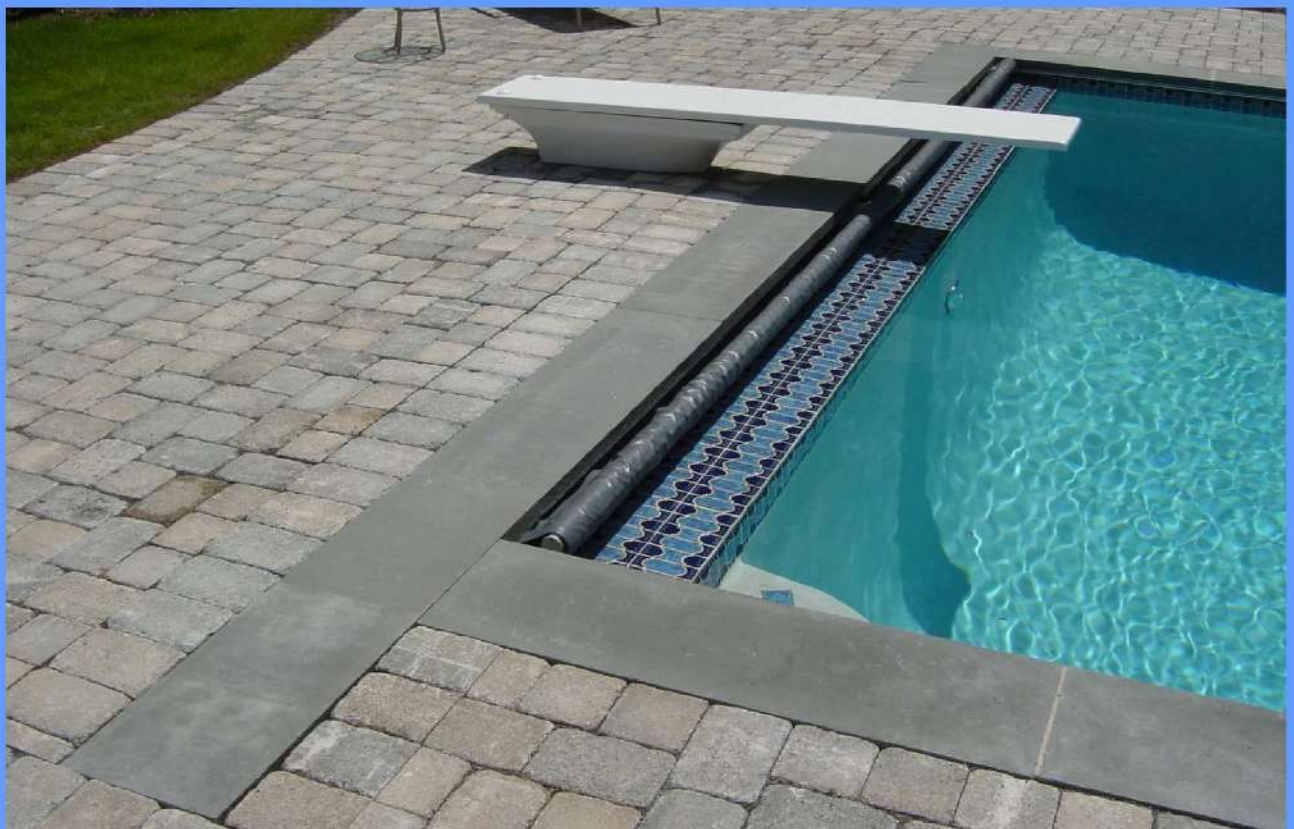
The Flush Aluminum Lid is a light gray painted aluminum lid that rests in a narrow frame that is flush with the top of the deck. This lid can only be used with concrete decks and is held in place by the concrete. The lid brackets clip into the frame, standard spacing is every 4 to 5 feet. The flush lid brackets support the lid only at standard spacing and cannot support the additional weight of a person walking on the lid. Request additional lid brackets for 2 foot spacing to make this a walk-on lid





## Lids: Walk-on Stone Lid

Walk-on lids use a series of brackets to support coping or deck material over the cover housing where the cover rolls up. This material is typically the same as the coping material used. The lid material cannot be thicker than the coping used, but must be thick enough to support persons on the lid between the brackets with out breaking (typically 2 inches thick for stone). The lid material must be at least 14 inches wide to completely fill the cover housing opening.





## Walk-on Lids



Matching Coping Stone Lid



Wood Decking Lid



Matching Coping Stone Lid



Formed Concrete Stone Lid



Non-matching Stone



Brick Tray Assemblies



## Pool-in-Pool Application

Pool-in-Pool is a hybrid of the Underguide and Topguide applications. It allows the flexibility of free form pool design while retaining the advantages of an underguide system. It uses all the coping and lid options available to underguide systems. The same pool shape and size considerations explained in the Topguide Application section apply to Pool-in-Pool design.

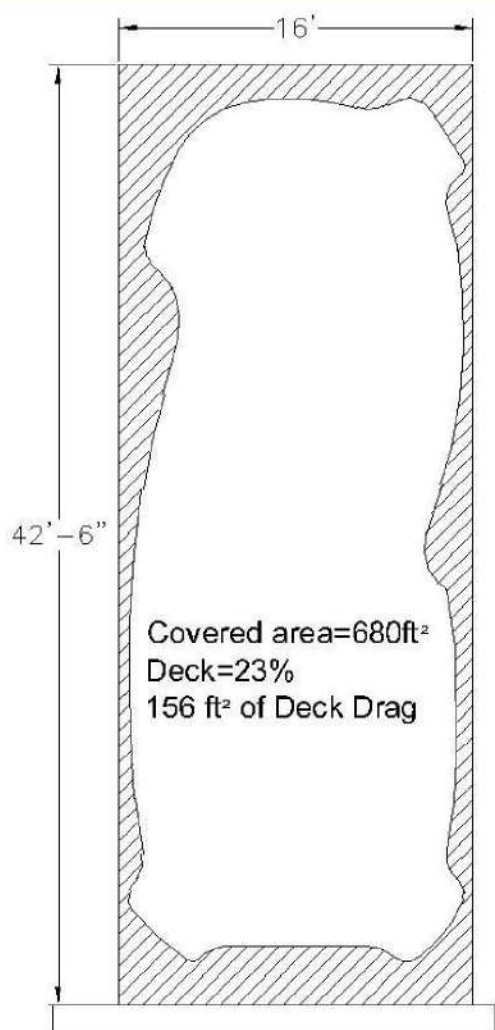




## Topguide Application Options

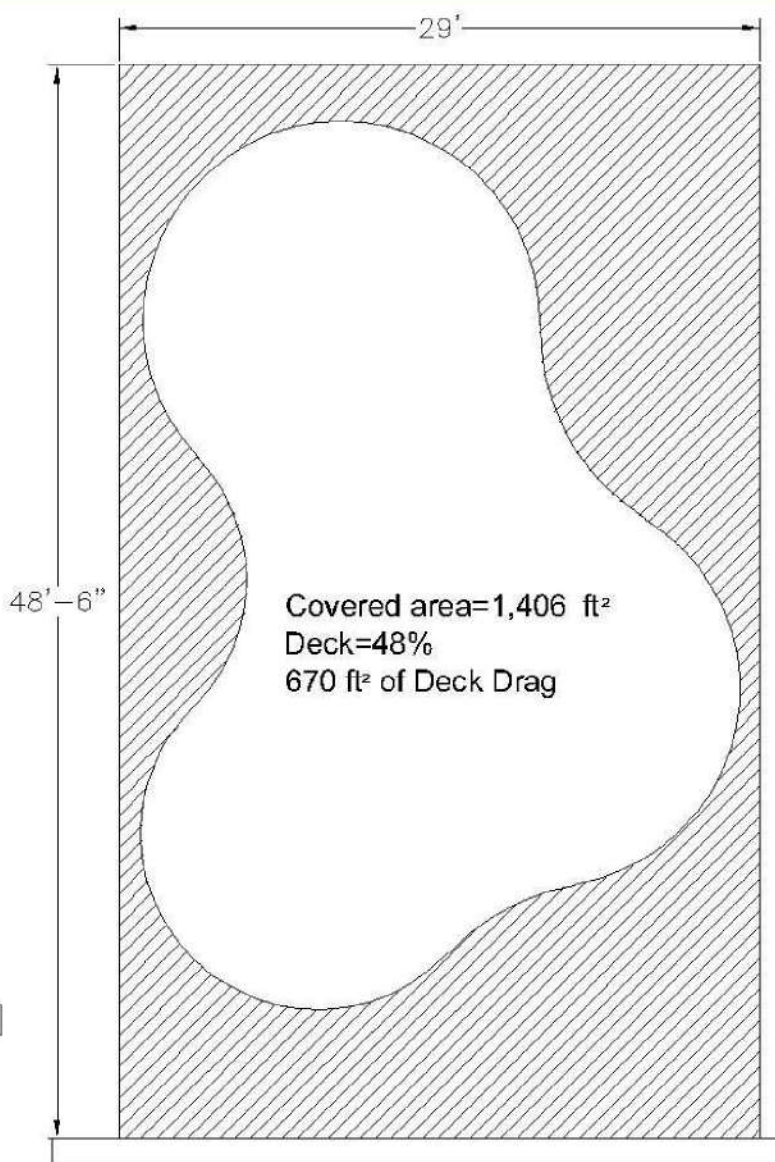
Topguide Autocovers provide the most flexibility for new freeform pools and existing pools. Though the pool may be any shape, the cover is still rectangular and requires guides on both sides to pull the cover onto the pool and secure it. Some pool shapes will require very large covers to fully cover the pool. Increasing the size, particularly the width past 25 ft increases the cost of the cover. Also the amount of deck required around the pool increases. Pools that do not fill the area of the rectangular cover will have more "deck drag". Deck drag is where the cover must be dragged across the deck instead of gliding on the surface of the pool water. When a large area must be covered with a high amount of deck drag, a blower system may be needed to lift the cover off the deck when in operation. It is best to keep the pool shape within a 20x44 rectangle.

### Good Fit



Keeping the cover box close to the pool will minimize deck drag

### Poor Fit





## Guide Options

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### Standard Topguide

Should not be used on dry laid pavers.  
Finish is anodized aluminum



### Recessed Horizontal Guide

Cannot be used with dry laid paver decks. Must be secured with concrete deck or cemented deck stone.  
Tan or gray painted finish available.



### Recessed Horizontal Guide Screw-down

Cannot be used with dry laid paver decks. Requires channel cut or formed in deck.  
Finish is anodized aluminum.





## Recessed Top Guide Cover Housing Lid Options

Recessed Topguide have cover guides on top of, or embedded flush with the deck and a Mechanism that is recessed below the deck. The opening for the cover is created by either elevating the front of the lid or by sloping the deck down below the front of the lid.

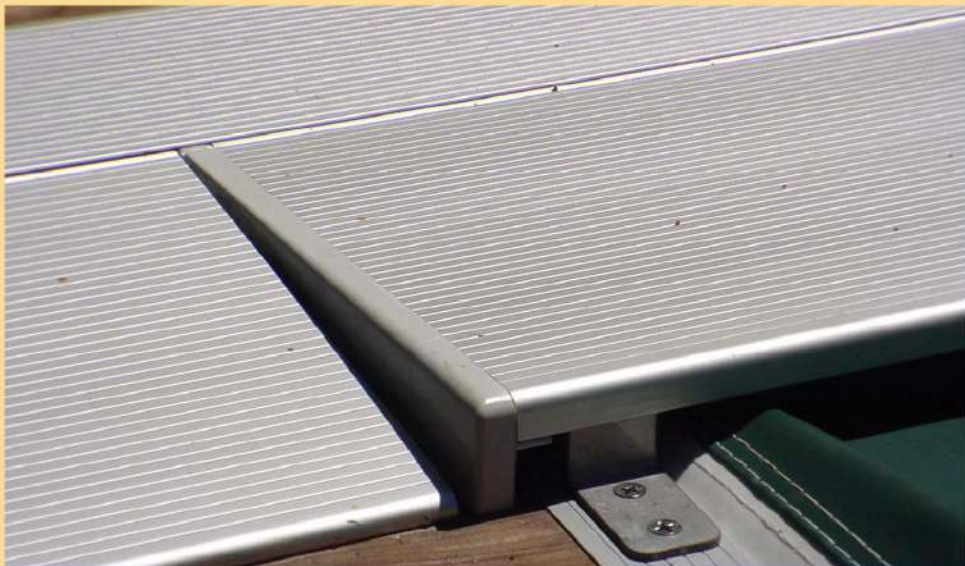


Raised Lid  
(standard)



Sloped Deck





Standard Aluminum Lid



Flat Aluminum Lid



Flush Aluminum Lid



## Deckmount Topguide Housing Options

Deckmount Topguides have cover Guides on top of the deck and a Mechanism that is also on top of the deck. This is an economical choice for existing pools. Plastic End Housing are available to cover the mechanism ends of the system or a bench may be built to house the entire system. Neither the system nor the brackets for the bench can be fastened to dry laid pavers. They must be bolted to concrete or pavers/stones that are cemented to a concrete sub-deck .

### No Housings



### Plastic End Housings





## Finished Red Wood Bench Housing



## Synthetic Wood Bench Housing



## Unfinished Pressure Treated Wood Bench



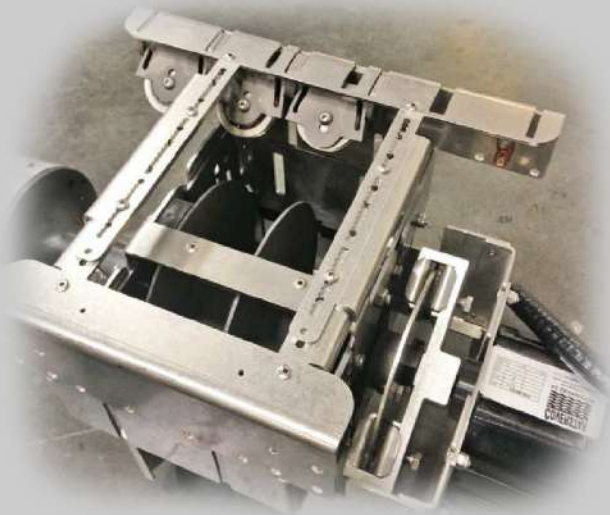


# General Options

## Mechanism Model

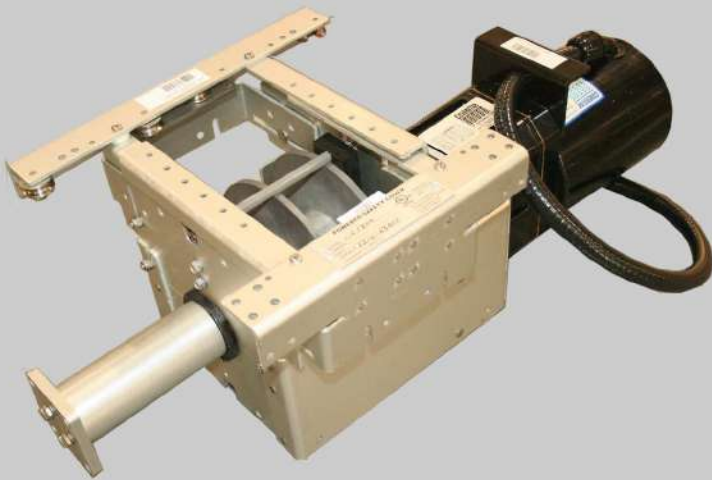
### Eclipse

Built with stainless steel for the highest protection from corrosion



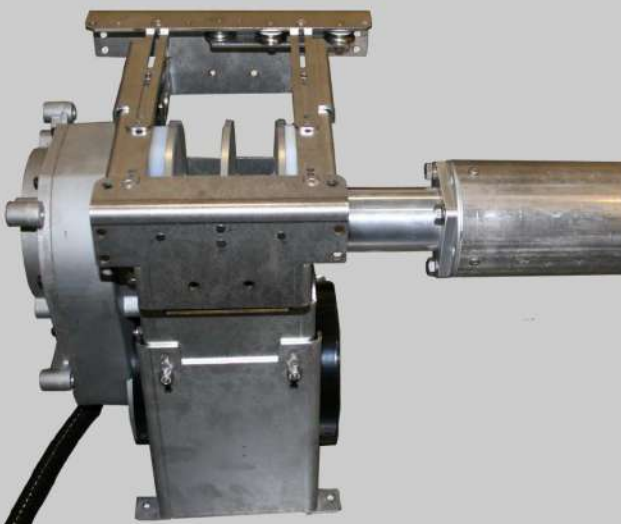
### CS3000

Built with the industry standard anodized aluminum for corrosion resistance.



### CS300 SPA

Built with stainless steel, this mechanism uses over/under stacked motor and reel to reduce space required for the mechanism





## Control Switch



**Standard Toggle**

Not available for CS300 SPA



**Touchpad**



**WiFi Touchpad**

WiFi connection for cover status email/txt alerts only

## Leading Edge

**Loop Leading Edge**



**Rope Leading Edge**



## Fabric Color

Coverstar covers are made with exclusive color matched heat-sealed webbing. Darker colors will heat the water more and dirt will be less visible.

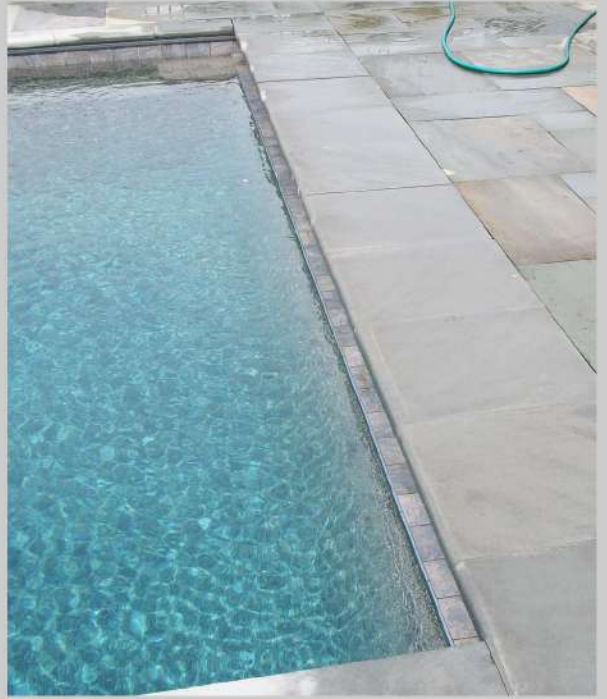




## Additional Options and Upgrades

### Hidden Leading Edge Bar

This feature uses extended brackets and wider lid material to extend the Walk-on Stone Lid past the Leading Edge Bar in the retracted position. This setup requires a notched lowered end wall for the leading edge bar to fit under the lid. Skimmers and interior spa walls are lowered for additional clearance.





## Water Feature Shut-off Controller

Water Features can pump water from the pool onto the top of the cover resulting in damage to the cover system. Using a controller can ensure this never happens.



**Line Voltage Rotary Limit**  
for directly controlling power to Water feature pumps.



**Low Voltage Rotary Limit**  
For controlling relays to Water feature pumps and valves.



## Extruded Roll-up Tube

The roll-up tube is in constant contact with the Cover and the water from the pool. The extruded anodized roll-up tube offers the best corrosion resistance and is recommended for salt chlorine generator pools.



## Brick Trays

Brick tray provide a surface to which a mason may mortar bricks or pavers to, allowing this decking material to be used with the walk-on lid bracket system.



## Hydraulic Power

Large heavy covers or other design consideration may require a hydraulic pump and motor to drive the Autocover mechanism.

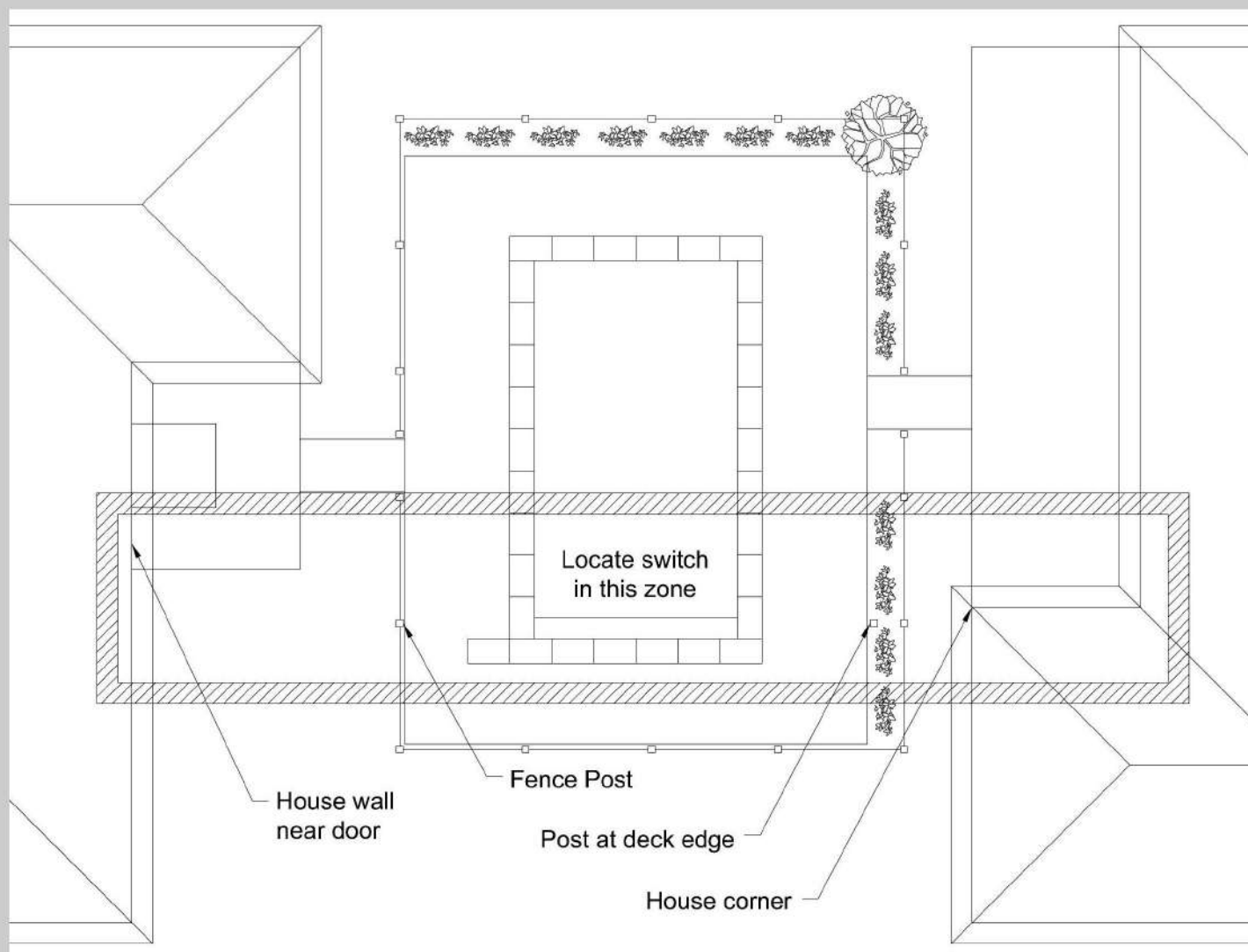


## Motor Side

Motor side is indicated as either "Left" or "Right" and is determined by standing directly behind the cover housing and facing the pool. The housing for the autocover mechanism extends 36 inches from the waters edge of the pool on the motor side and 12" on the non-motor side. For many autocover systems, primary considerations for choosing the motor side will be the layout of the deck, pool entry and exit points and expected foot traffic. Deckmount mechanisms and recessed mechanisms with standard aluminum lids should have foot traffic directed away from the motor side. Autocover systems with stone walk-on lids are not affected by foot traffic, so deck layout, property line easements and electrical routing are usually considered.

## Switch Location

Safety and reliability need to be the primary factors for choosing a switch location. The switch should also be in a convenient location to facilitate regular use, but not at the expense of safety. The switch must be located where the entire surface of the pool is visible to the operator. The operator should visually verify the autocover is in proper working order before fully operating the auto-cover. This is done best when the switch is located near the cover housing end of the pool. It is recommended that the switch be no more than 30 feet from the pool. The switch should never be located inside the home or other buildings unless the pool is indoor, then the switch must be in the same room. See diagram below for switch locating guidance.





## Cover Housing Drain

Underguide and Recessed Topguide systems have motorized mechanism in cover housings below the surface of the deck that must not be flooded. Cover housing drainage should be considered in the planning stages of the pool project to ensure it is done correctly and will work with the landscaping. The most reliable drain method is the drain to "daylight" or "open air". If the site topography has no significant slope, the finished pool height should be elevated 24 inches above the surrounding grade to allow for a daylight drain. Even a very long daylight drain run is better than any other drainage method. Draining to whole property storm-water detention system system is also acceptable. The minimum drain diameter is 3 inches, but size and number of drains should increase with the pool size. If it is not possible to drain to daylight, an adequately sized dry-well or pump out pit must be used. **DO NOT** use "french drains" where the drain end is buried in a hole with gravel. These types of drains typically fail with in a year. Soil may have poor drainage or become saturated in heavy rains. Even the largest gravel pit will not work when silt and debris clog the end of the drain. An accessible dry-well can be cleaned out and accommodate a sump pump. If the cover housing will also function as an overfill drain, it must be able to handle a forgotten hose or rainfall for the whole pool.

### Daylight or Open Air Drain



### Dry-well Drain





## Exterior Spas

### Raised Spa

with spillway into pool

\*water feature shut-off controller  
recommended



### Raised Spa

with catch pool  
and bridged coping



### Open Spillway

Used only on end wall spas



### Bridged Spillway



## Interior Spas



Centered Square



Full Width



Centered Round



Corner Square



Corner Round



## Raised Walls









## Vanishing Edge





The Vanishing Edge is created by flowing water over one or more walls of the pool. These walls are lower and also sloped either into the pool or away from the pool. If the vanishing edge is on the end of the pool where neither the guides or cover housing are located, there are no special requirements for the auto-cover system. If the vanishing edge is on the long side of the pool where the guide is located the pool will need to be carefully crafted and the auto-cover system for the specific vanishing edge type.

**Vertical Negative Edge**



**Sloped Negative Edge**







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Bridger Kempton