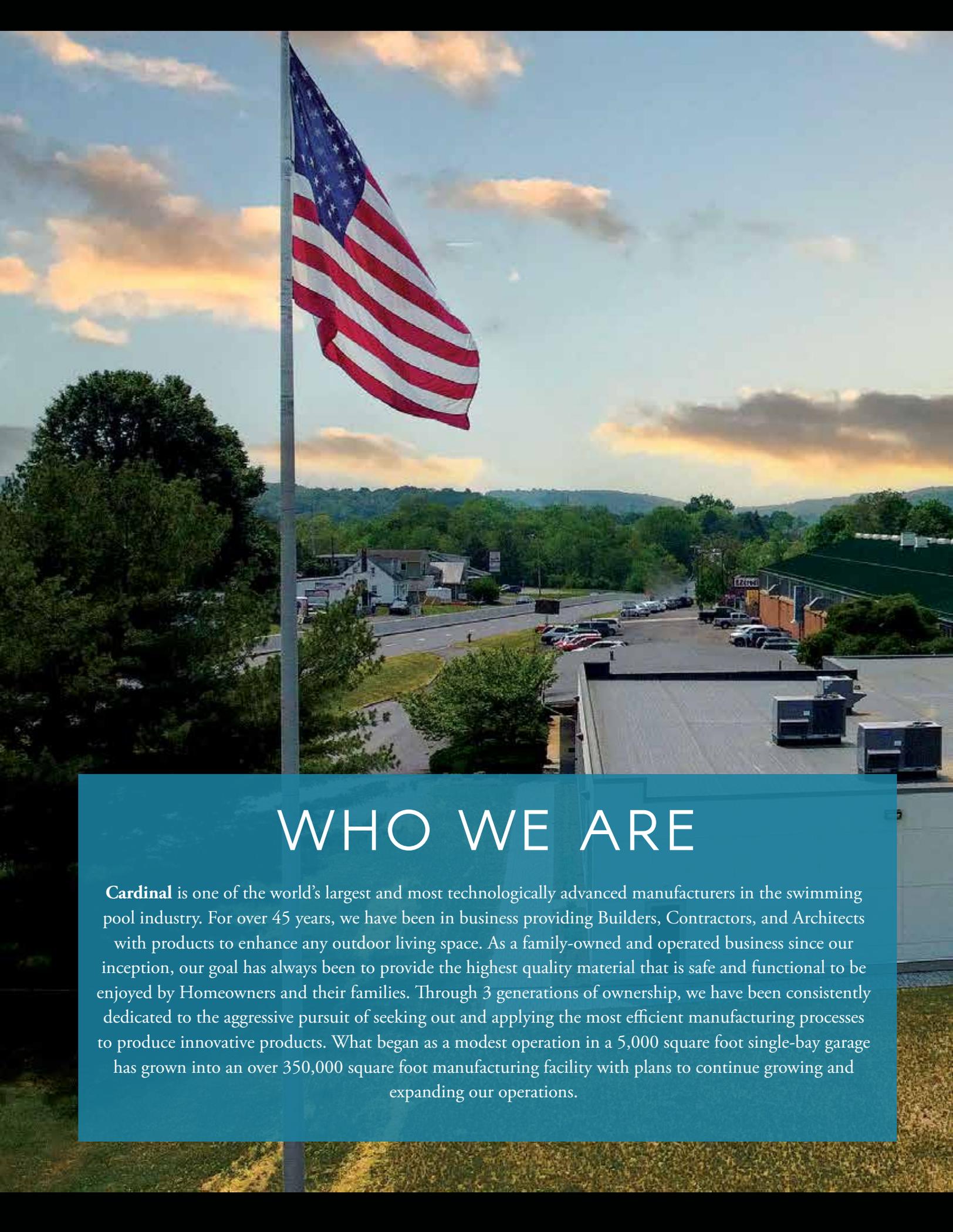




Cardinal

PRODUCT

Catalog



WHO WE ARE

Cardinal is one of the world's largest and most technologically advanced manufacturers in the swimming pool industry. For over 45 years, we have been in business providing Builders, Contractors, and Architects with products to enhance any outdoor living space. As a family-owned and operated business since our inception, our goal has always been to provide the highest quality material that is safe and functional to be enjoyed by Homeowners and their families. Through 3 generations of ownership, we have been consistently dedicated to the aggressive pursuit of seeking out and applying the most efficient manufacturing processes to produce innovative products. What began as a modest operation in a 5,000 square foot single-bay garage has grown into an over 350,000 square foot manufacturing facility with plans to continue growing and expanding our operations.



Cardinal



Quaker
Plastics



M
MODERN
MOULDING



OUR PRODUCTS

Cardinal stands at the forefront of the brand family, producing high-quality and trusted products such as: steel pool walls, steps and benches, vinyl liners, aluminum tracking and coping, Luxury Spas, Ultimate Pool Kits and more. Quaker Plastics and Modern Moulding are among the other brands housed within Cardinal to fully encompass the distinctive design and functionality of a pool. Quaker Plastics provides a wide range of extrusion and thermoforming products such as deck and paver drains, thermoformed steps, and liner bead that adds depth to the Cardinal brand. Modern Moulding offers unique and innovative cantilever coping styrofoam forms that are easy to install and replace, and provide a visually impressive profile on any pool.

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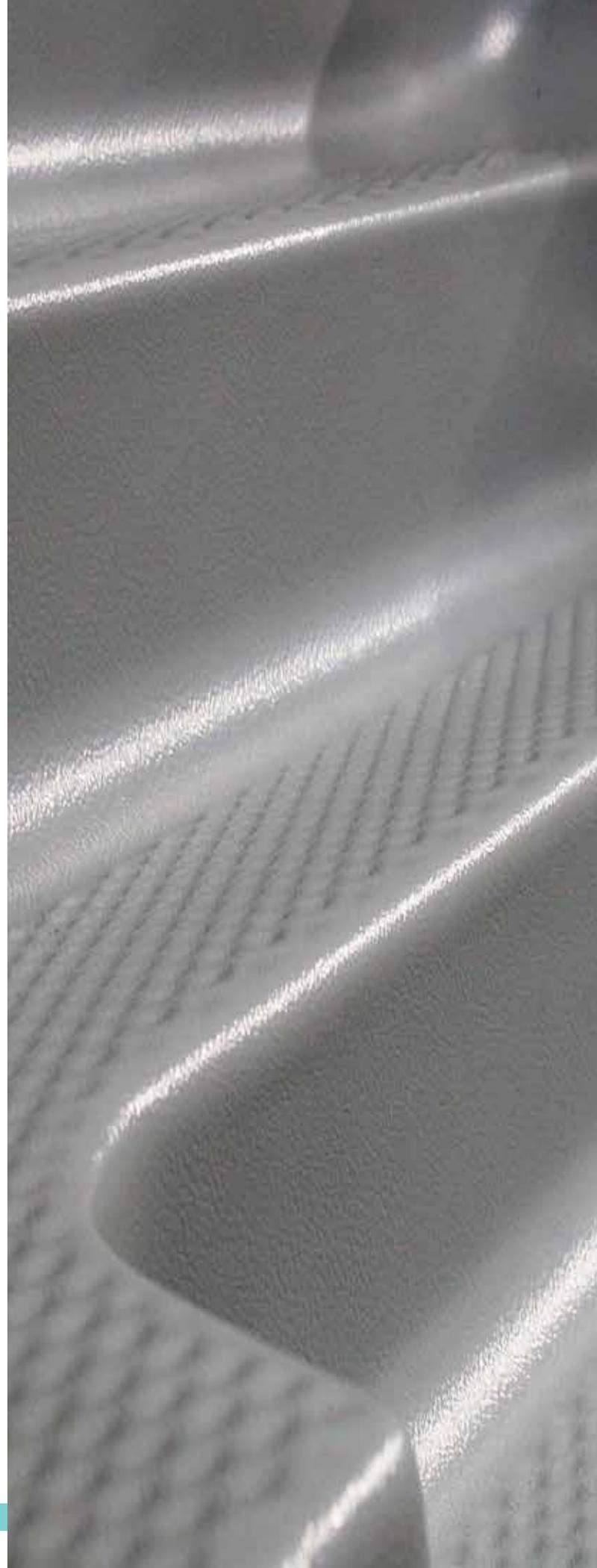
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QUAKER PLASTIC DRAINS AND MORE

DECK DRAINS



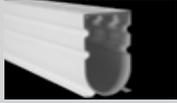
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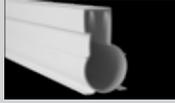
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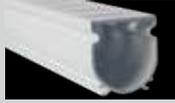
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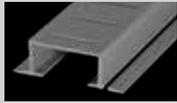


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COPING AND LINER TRACK

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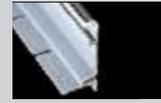
CAP LOCK COPING



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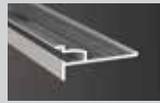


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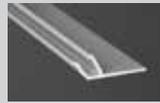


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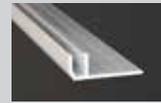


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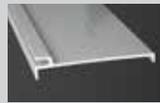


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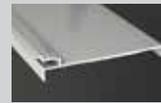


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DOUBLE TRACK

SPECIALTY COPING AND LINER TRACK PROFILES



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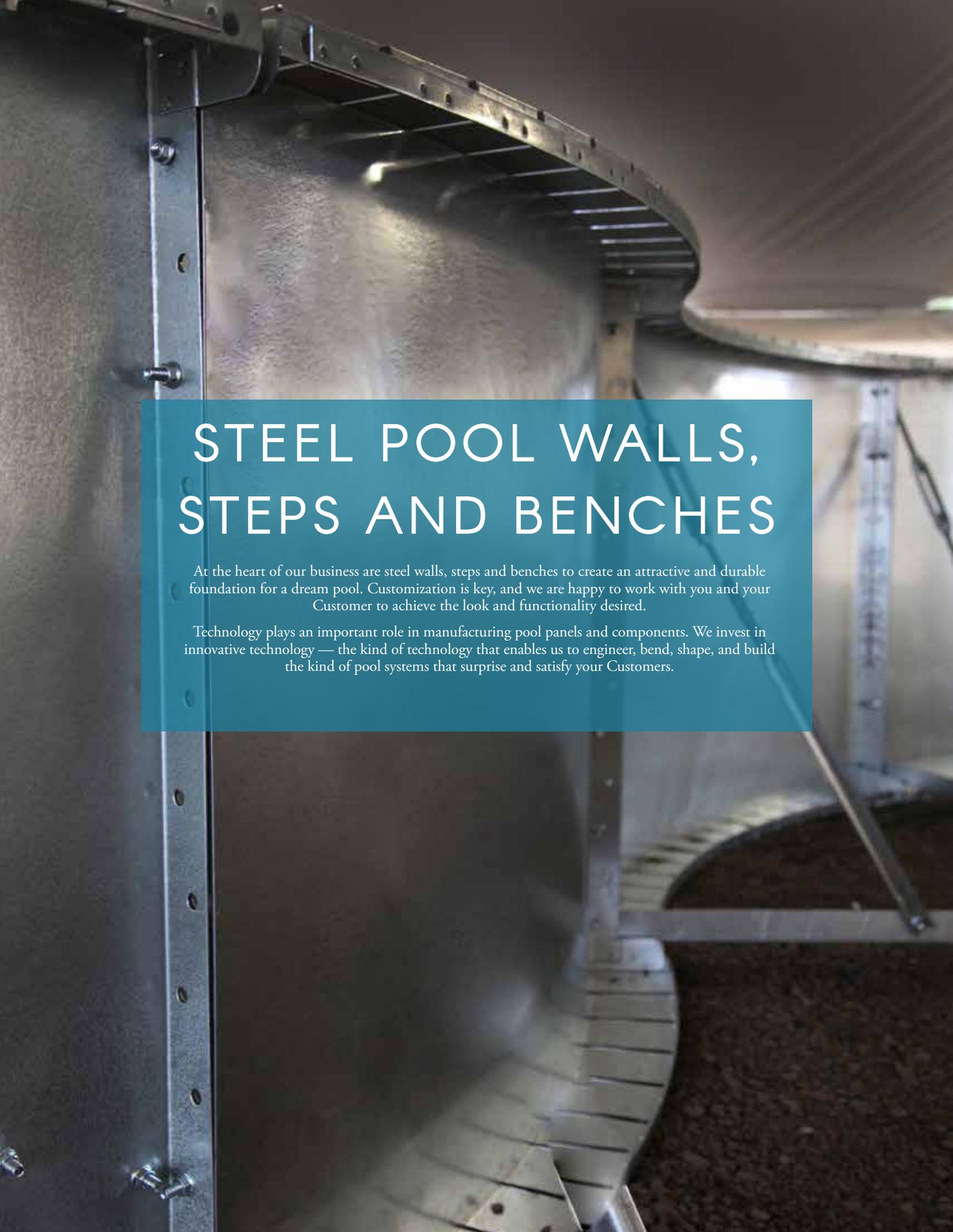
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STEEL POOL WALLS, STEPS AND BENCHES

At the heart of our business are steel walls, steps and benches to create an attractive and durable foundation for a dream pool. Customization is key, and we are happy to work with you and your Customer to achieve the look and functionality desired.

Technology plays an important role in manufacturing pool panels and components. We invest in innovative technology — the kind of technology that enables us to engineer, bend, shape, and build the kind of pool systems that surprise and satisfy your Customers.



STEEL PANEL WALLS & FABRICATED PARTS

Cardinal's steel pool wall panels are made from the finest North American-sourced materials. Our manufacturing processes and computer design ensure that every panel is consistent and accurate every time, guaranteeing a perfect fit and easy assembly on the job site. Steel wall panels are made of 14-gauge galvanized steel or ZAM corrosion resistant steel and are engineered precisely for seamless installation. For extra strength where it counts, the wide top and bottom flanges are mitered at each corner to join the strength of the vertical side flanges. The horizontal and vertical flanges are then united by our unique toggle-locking system to join the two together. No welding is needed, therefore the integral protection of the galvanization is completely preserved.

Behind each panel are steel fabricated parts that support the pool system to keep it structurally stable and durable against harsh conditions. Our expertise in precise fabrication allows for complete customization including: linear & freeform shapes, specialty steps, benches, or sun-shelves. Our engineering brings almost any pool vision to life.

BRACES & SUPPORTS

A-FRAME BRACE - One of the several types of adjustable wall supports that ensure a straight square structure, with or without water.

VERSA DECK BRACE - Versa Deck Braces permit concrete or other decking material to be installed immediately after the pool is installed, without waiting for the back to settle. The inverted "A" shape transfers the weight of the deck to the base of the wall using the outward pressure of the water to equalize the stress on the wall.

SKIMMER SUPPORT - Designed to support the weight of the skimmer during and after backfilling, the skimmer support fits securely under the skimmer on the wall's bottom flange.

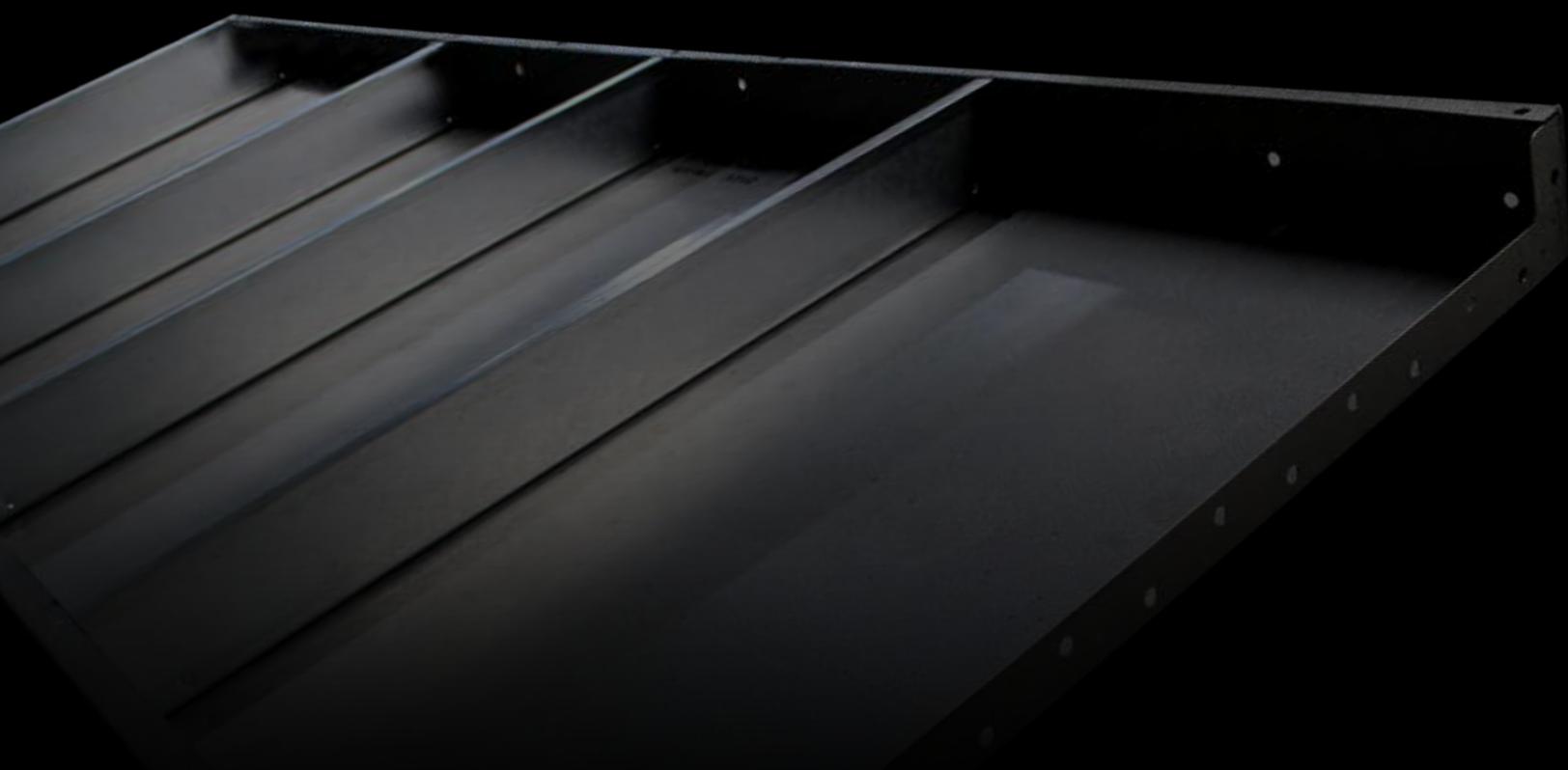
CORROSION RESISTANT

Cardinal is proud to offer ZAM® 115— the most effective non-corrosive coating for steel panels in the industry. ZAM® is a hot-dip coated steel sheet that has a layer of Zinc, 6% Aluminum, and 2% Magnesium. The effects of magnesium and aluminum together allow our ZAM® coated steel panels to have excellent corrosion resistance, scratch resistance, and formability.

ZAM® offers superior protection against corrosion on Salt Generator Pools, **up to 5x's more effective than standard galvanization.** It also offers increased protection when servicing areas with a high water table or acidic ground conditions.

Customization of walls is still achievable, as sheet steel can be bent without the coating cracking on the edges. **Cardinal ZAM® coated steel is covered by a lifetime, 1-time transferable warranty.**

Steel



ZAM®

Steel

Superior Corrosion Resistance of ZAM®

| TIME | 100h | 1000h | 5,000h |
|------------------------------|------|-------|--------|
| ZAM® | | | |
| 55% Al-Zn alloy coated steel | | | |
| Zn-5% Al alloy coated steel | | | |
| Galvanized steel | | | |

* Appearances of cut edge sections after salt spray test. (Thickness 0.126", coating weight 0.40/0.40 oz/ft², no chem treat)

* ZAM® produced to ASTM A1046 specifications



Speak to your Cardinal Representative for more on the strength & integrity of ZAM steel products.

SHAPES FOR ANY SPACE

Cardinal's wide variety of pool shapes provides you the ability to give your Customers the right look for their environment.

Our CAD Team can take any drawing and transform it into a workable blueprint of your Customer's dream pool, with elegance and functionality at the forefront.

SOME STANDARD SHAPES AND SIZES

1. RECTANGLE

14' x 28' • 16' x 36' • 16' x 32' • 18' x 36' • 16' x 34' • 20' x 40'

2. GRECIAN

14.5' x 28.5' • 16.5' x 32.5' • 16.5' x 35.5' • 17' x 31' • 17' x 34' • 18' x 37' • 20' x 40'

3. ROMAN END

16' x 32' • 18' x 36' • 20' x 40'

4. DOUBLE ROMAN END

16' x 32' • 18' x 36' • 20' x 40'

5. TRUE ELL

16' x 32' • 12' x 26' • 18' x 40' • 30' x 12'

6. LAZY ELL

16' x 39' • 18' x 43' • 20' x 44'

7. KIDNEY

14' x 28' • 16' x 32' • 16' x 34' • 16' x 36' • 18' x 36' • 20' x 40'

8. OASIS

16' x 34' • 18' x 36' • 18' x 38'

9. MOUNTAIN POND

14' x 28' • 16' x 32' • 18' x 36'

10. LAGOON

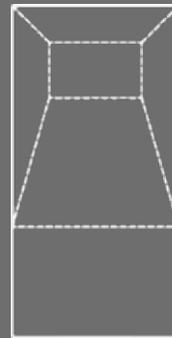
22' x 34' x 40' • 18' x 29' x 35'

11. CELEBRITY

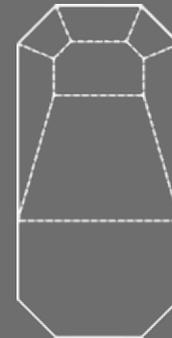
16' x 32' • 18' x 36' • 20' x 40'

12. OVAL

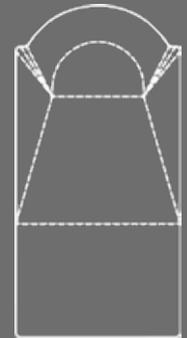
12' x 24' • 14' x 28' • 15' x 30' • 16' x 32' • 16' x 34' • 16' x 36' • 17' x 27' • 18' x 36'



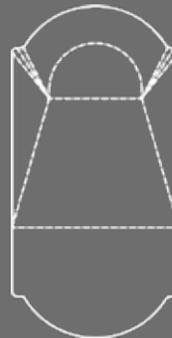
1. RECTANGLE



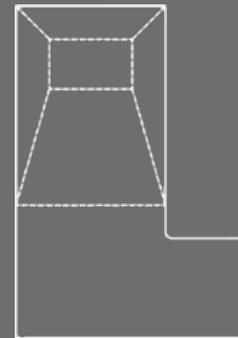
2. GRECIAN



3. ROMAN END



4. DOUBLE ROMAN END



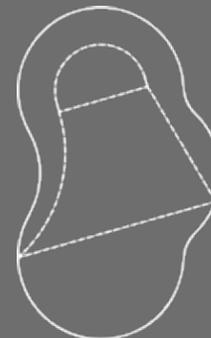
5. TRUE ELL



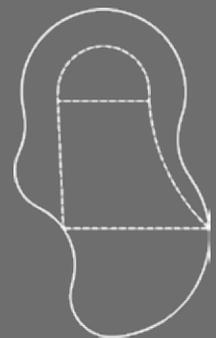
6. LAZY ELL



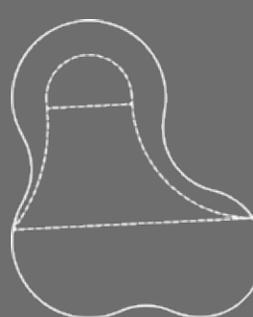
7. KIDNEY



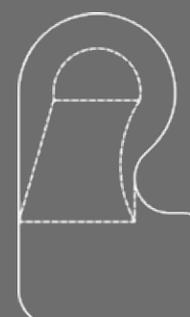
8. OASIS



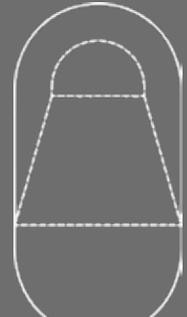
9. MOUNTAIN POND



10. LAGOON



11. CELEBRITY



12. OVAL



1. STEEL PANEL WALLS

The top, bottom, and vertical flanges, as well as panel stiffeners ("Z" braces) are secured using the toggle-lock fastening system. The result being a panel with maximum strength, minimal deflection, and a perfectly square structure, every time.

2. A-FRAME BRACE

One of the several types of adjustable wall supports that ensure a straight square structure, with or without water.

3. VERSA DECK BRACE

The use of versa deck braces permits concrete or other decking material to be installed immediately after the pool is installed, without waiting for the back to settle. The inverted "A" shape transfers the weight of the deck to the base of the wall using the outward pressure of the water to equalize the stress on the wall.



STEEL STEPS OPTIONS



Cardinal's steel steps, benches, and entryways create an attractive and durable foundation for any dream pool. Whether choosing from our wide selection of standard steps or a completely custom idea, Cardinal stands ready with the most advanced manufacturing technology, design software, and handcrafted precision to ensure an accurate finished product, every time. All items are manufactured with 14-gauge steel or ZAM corrosion resistant steel, and include aluminum liner track for easy liner installation. Every new model is thoughtfully designed to ensure a "perfect-fit" when installed on-site, every time.

Cardinal offers standard, open pour, and modular steps for new builds, and even drop-in step options for renovation projects. Our fully accessible Step Finder Library allows you to explore available step models at our Cardinal facility.

Quite simply, Cardinal steel steps and benches are unmatched for performance, function, and elegance.



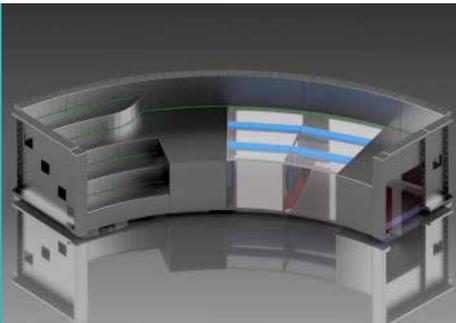
STANDARD STEPS

Cardinal offers over 150 standard steel step and bench models available in any 42 or 48" height, and practically any shape. Custom entry steps, benches, lounges, and sundecks are our specialty, and can be manufactured to fulfill almost any design.



OPEN POUR STEPS

We want YOU to have the flexibility to decide what is best for your Customer. Keep your options open and affordable with an Open Pour step, bench, or sundeck solution. Every step created by Cardinal is available as Open Pour, with step-by-step instructions for simple assembly on-site.



Precision Design

Our precise design process allows for custom steps that go together with ease.



Easy Installation

Easy in-field installation with confidence for a perfect fit.



Beautiful Finish

Finished step creates a beautiful entrance to the completed pool.

STEEL STEP OPTIONS

TEK SCREW FLANGE TO EXISTING POOL WALL

LINER TRACK

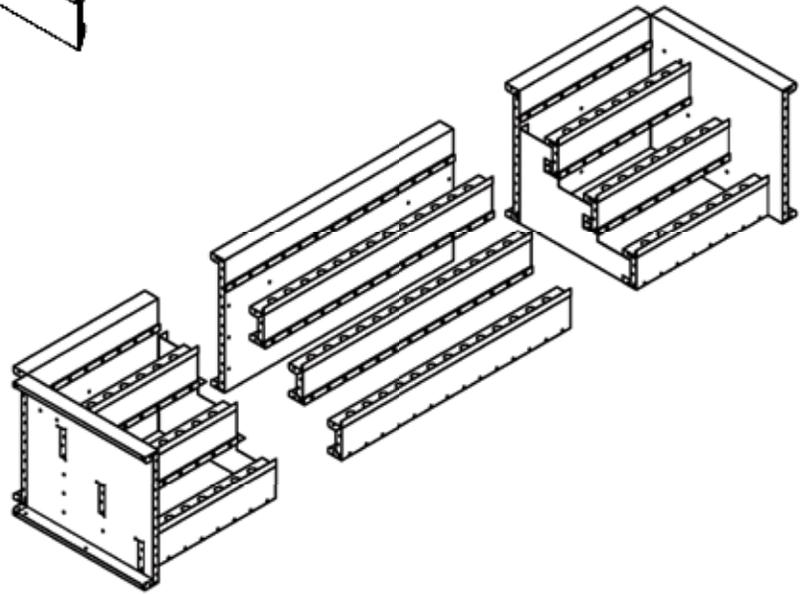
SCREED EDGE

DROP-IN STEPS

Ideal for pool renovation projects where a step needs to be added, Drop-Ins can be easily set during a replacement liner installation. New Drop-In designs are created as Open-Pour, while our stock Drop-Ins have availability in solid Standard steel.

MODULAR STEP SYSTEM

Knowing each pool is unique to its landscape and Customer, the Modular Step allows for an extended entryway to fit essentially any pool width. Customers choose a left, right, and appropriate quantity of middle sections to create an extended step module to fit the pool's specifications.



Check out the Cardinal Step Finder by scanning the QR Code or visiting: cardinalpools.com/products/steel-steps-entries/



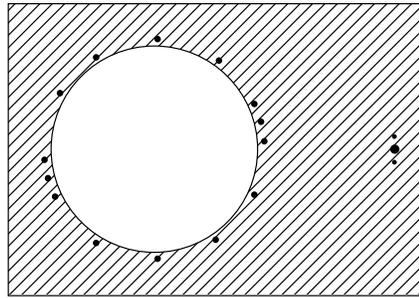
PANELS

REPAIR PANELS

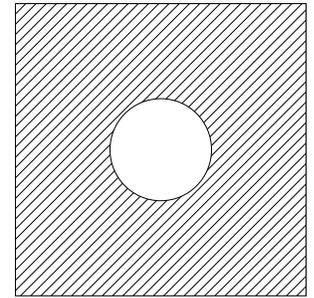
| REPAIR PANELS | |
|---------------|--------------------------------|
| ITEM NO. | DESCRIPTION |
| CSFIXBAD | 20" x 25" Repair - Badu Jet |
| CSFIXJIF | 18" x 18" Repair - Jiffy Lite |
| CSFIXLT | 18" x 18" Repair - Light |
| CSFIXRT | 18" x 18" Repair - Return |
| CSFIXSK | 18" x 18" 1084 SKM Fix Panel |
| CSFIXSPA | 18" x 18" Spa Bright Light Rep |
| CSFIXWS | 18" x 24" 1085 SKM Fix Panel |
| CSFIXXX | 18" x 18" Repair - Blank |
| CS-LIGHT DROP | Light Punch Drop |

Used for renovations such as corrosion due to a leaky gasket. These panels pop-rivet to an existing panel.

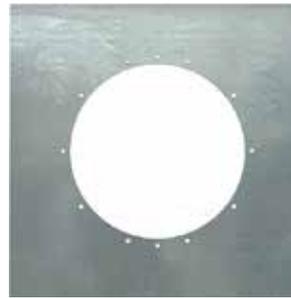
*Custom repair panels, available upon request.



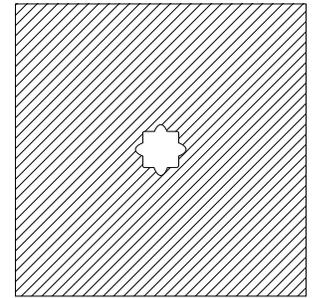
CSFIXBAD



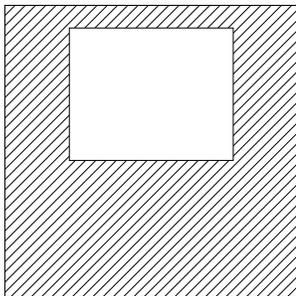
CSFIXJIF



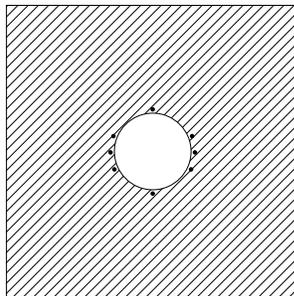
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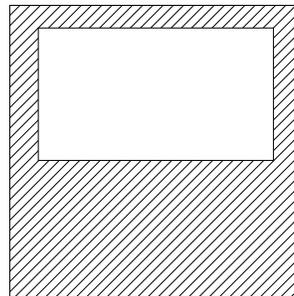
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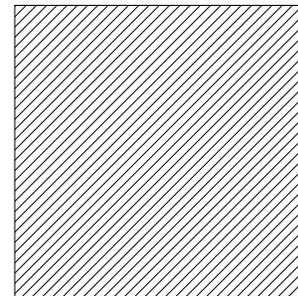
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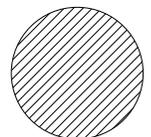
CSFIXSPA



CSFIXWS



CSFIXXX

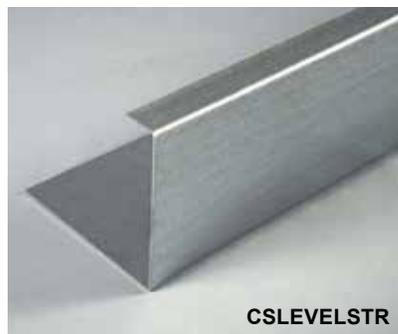


CS-LIGHT DROP

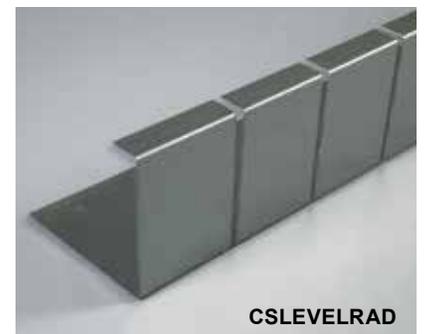
LEVELER PANELS

| LEVELER PANELS | |
|----------------|--------------------------------|
| ITEM NO. | DESCRIPTION |
| CSLEVELSTR | 1" x Flange O.D. x 6" x 8' Cap |
| CSLEVELRAD | 1" x Flange O.D. x 6" x 6' Cap |

Used to re-level the top of a panel due to settling. The leveler panels pop-rivet onto the top face of an existing panel.



CSLEVELSTR

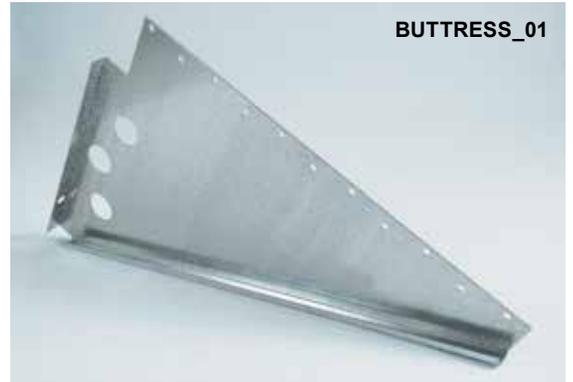


CSLEVELRAD

ABOVE GROUND BUTTRESSES

| ABOVE GROUND BUTTRESSES | |
|-------------------------|--------------------------------|
| ITEM NO. | DESCRIPTION |
| BUTTRESS_01 | Above Ground Buttress - ST |
| BUTTRESS_02 | 48" Above Ground Buttress - ST |

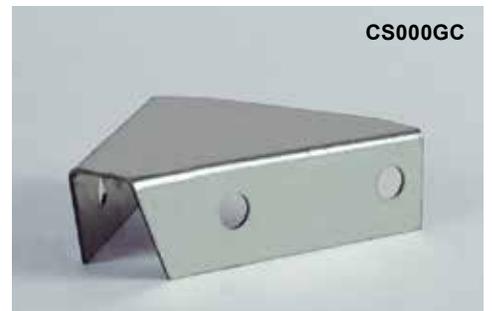
For above ground pool applications. Replaces the 3 and 4 piece A-frame used on the inground frame.



GRECIAN CORNER CAP

| GRECIAN CORNER CAPS | |
|---------------------|-----------------------------|
| ITEM NO. | DESCRIPTION |
| CS000GC | Grecian Corner Cap - 6 1/2" |

This piece ties corners together on a Grecian pool to give more rigidity on the top of the panels. This 45° angle helps keep the panels from pushing out and locks them into place.



SMALL INSIDE CORNER CAP

| SMALL INSIDE CORNER CAPS | |
|--------------------------|-------------------------|
| ITEM NO. | DESCRIPTION |
| CS904FC | Small Inside Corner Cap |

This piece ties corners together on a 90° angle on pool panels and helps keep the panels from pushing out and locks them into place.



SKIMMER SUPPORTS

SKIMMER SUPPORT ANGLE

| SKIMMER SUPPORT ANGLE | |
|-----------------------|--------------------------|
| ITEM NO. | DESCRIPTION |
| CS401SA | 7" Skimmer Support Angle |

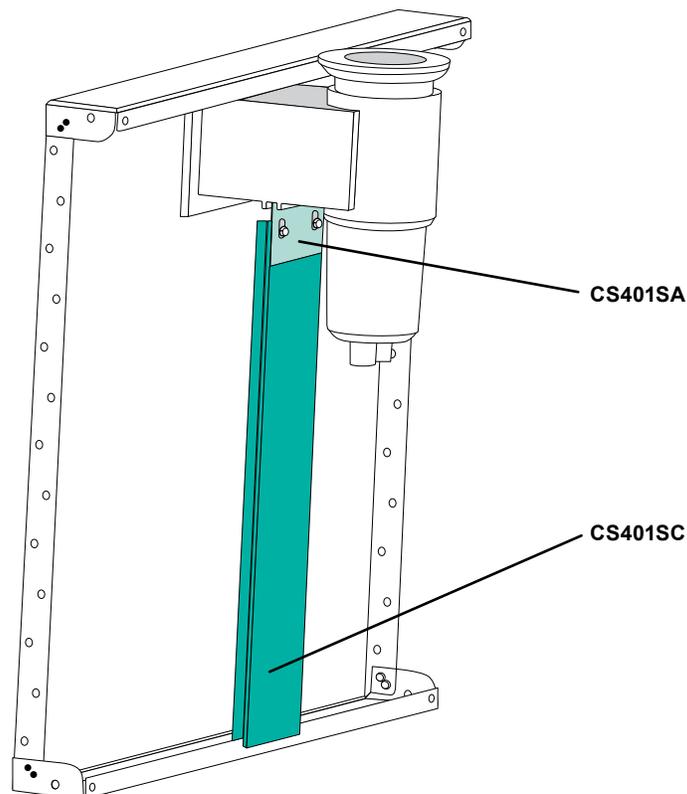
The skimmer support angle and channel both work together to support the skimmer. The angle is the top adjustable bracket.



SKIMMER SUPPORT CHANNEL

| SKIMMER SUPPORT CHANNEL | |
|-------------------------|-----------------------------|
| ITEM NO. | DESCRIPTION |
| CS401SC | 32" Skimmer Support Channel |
| CS448SC | Skim Support Chan/48" Panel |

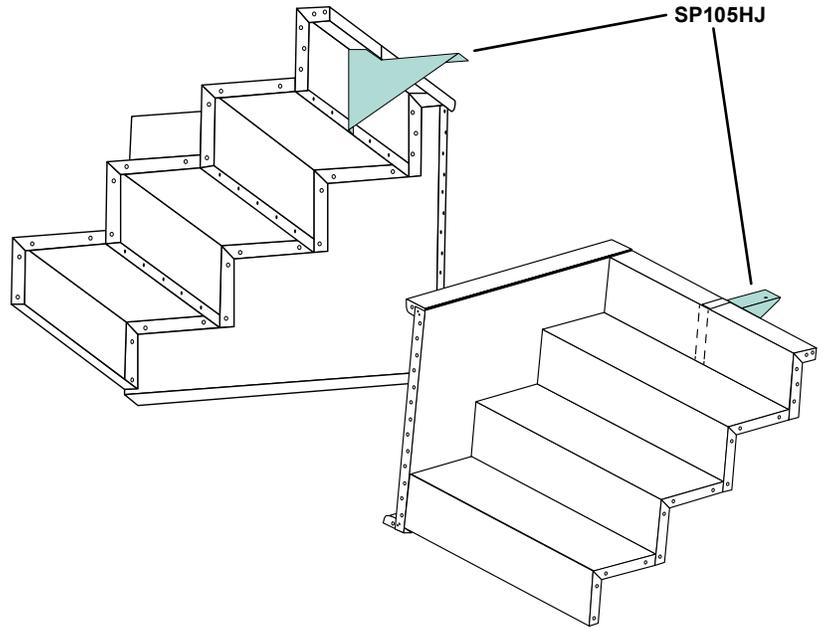
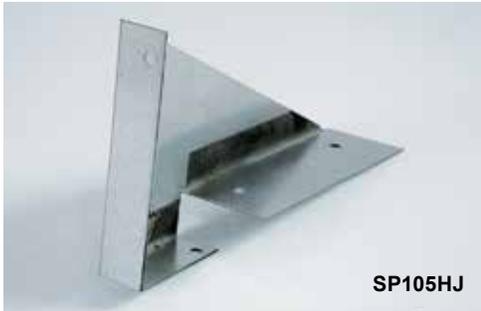
The skimmer support channel supports the skimmer to prevent cracking at the neck location due to settling. The channel clips to the flange.



HANDRAIL JIG

| HANDRAIL JIGS | |
|---------------|--------------|
| ITEM NO. | DESCRIPTION |
| SP105HJ | Handrail Jig |

Allows for attachment of handrail sockets.



VERTICAL LADDER JIG

| VERTICAL LADDER JIGS - 42" | |
|----------------------------|---------------------|
| ITEM NO. | DESCRIPTION |
| CS302VA | Vertical Ladder Jig |

| VERTICAL LADDER JIGS - 48" | |
|----------------------------|------------------------------|
| ITEM NO. | DESCRIPTION |
| CS348VA | Vert PC/Ladder Jig/48" Panel |

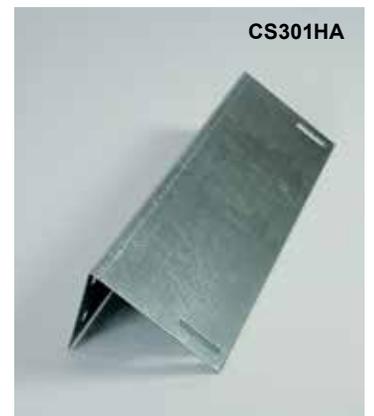
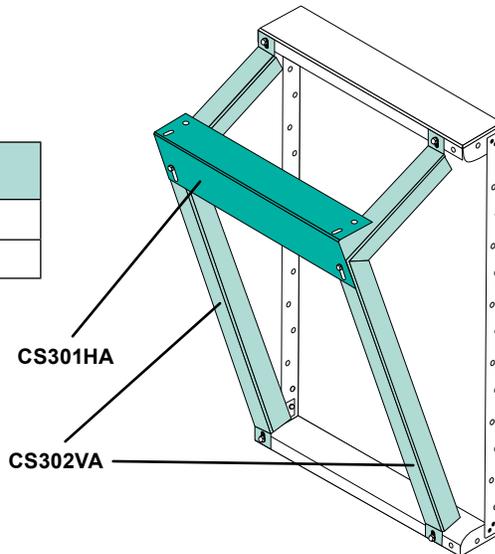
Allows for easy attachment of ladders to the deck.



HORIZONTAL LADDER JIG

| HORIZONTAL LADDER JIGS | |
|------------------------|-----------------------|
| ITEM NO. | DESCRIPTION |
| CS301HA | Horizontal Ladder Jig |

Allows for easy attachment of ladders to the deck.



TURNBUCKLES

ONE PIECE TURNBUCKLE

| ONE PIECE TURNBUCKLE | |
|----------------------|--------------------------|
| ITEM NO. | DESCRIPTION |
| CS600OPT | 1 pc. Turnbuckle A-Frame |
| CS608DH | 18" Drive Stake w/ Holes |

* The 1 pc. Turnbuckle A-Frame integrates a turnbuckle and notched short angle as one unit. The bottom of the turnbuckle is crimped to allow it to bend on the A-Frame Assembly.

THREE PIECE TURNBUCKLE

| THREE PIECE TURNBUCKLE | |
|------------------------|--------------------------|
| ITEM NO. | DESCRIPTION |
| CS600TA | Turnbuckle Assembly |
| CS606ES | Notched Short Angle |
| CS608DH | 18" Drive Stake w/ Holes |

The 3 pc. Turnbuckle requires a turnbuckle and notched short angle that function as separate units. It also needs an 18" or 24" drive stake to be inserted into the notched short angle and used to support the Turnbuckle Assembly.

*CS600OPT



CS606ES



CS608DH





THREADED RODS

THREE PIECE THREADED ROD

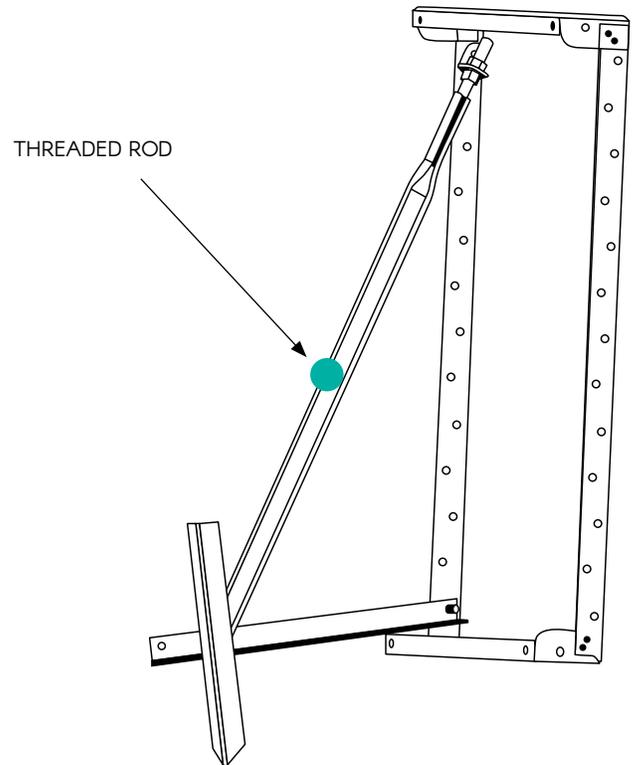
| THREE PIECE THREADED ROD | |
|--------------------------|---------------------------------------|
| ITEM NO. | DESCRIPTION |
| CS602TR | Threaded Rod/ Bracket/ Nuts Assembled |
| CS606ES | Notched Short Angle |
| CS608DH | 18" Drive Stake w/ Holes |

Use to plumb panels.

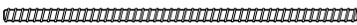
| MISC. | |
|------------|-------------------------------|
| ITEM NO. | DESCRIPTION |
| CS619RB | 18" Rebar 3/8" x 18" #3 Grade |
| CS624-12DH | 24" Drive Stake w/ holes 12G |
| CS601TA | Threaded Rod |
| CS603TB | Threaded Angle Bracket |
| BP858HN | 5/8" Hex Nut |

Use to plumb panels.

Threaded Rod A-Frame Assembly
 *Threaded rod, notched short angle, and drive stake make up 3 pc. Threaded Rod A-Frame.



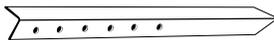
CS619RB



CS601TA



CS624-12DH



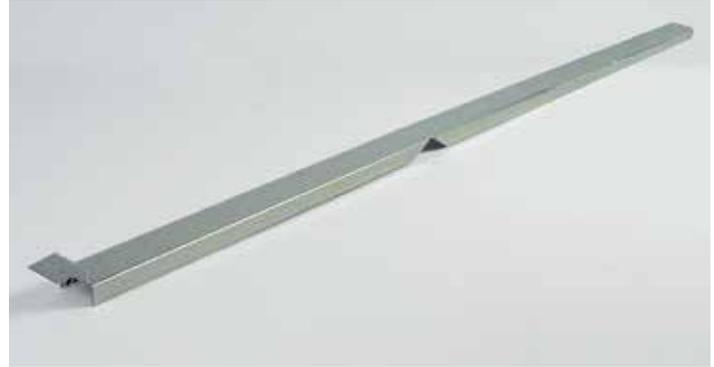
CS603TB



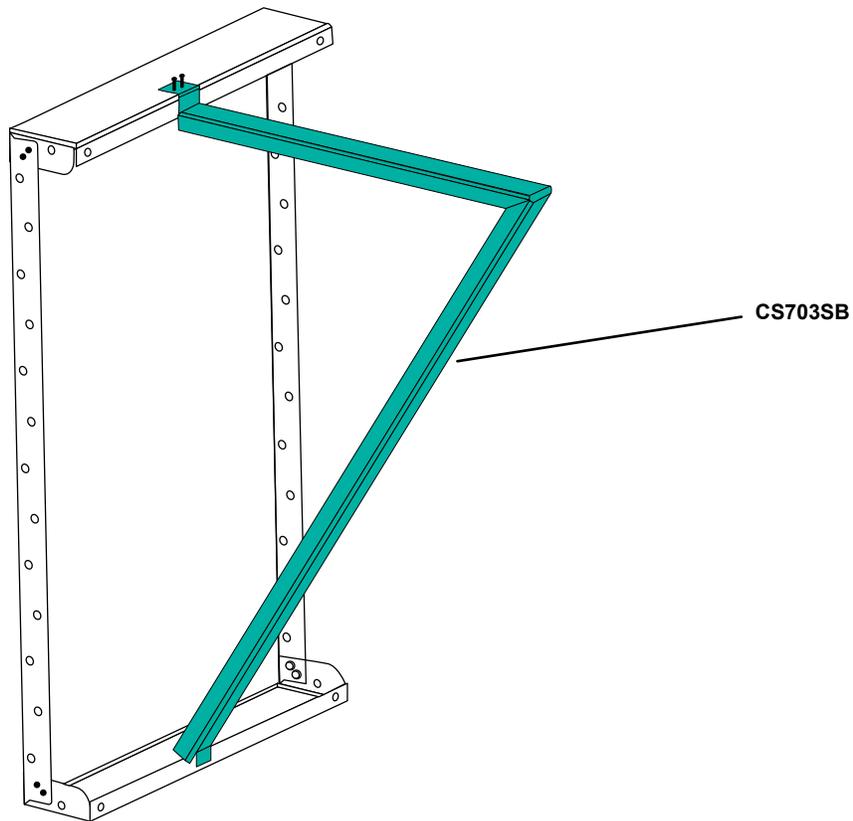
ONE PIECE VERSA BRACE

| ONE PIECE VERSA BRACE - 42" | |
|-----------------------------|----------------------------------|
| ITEM NO. | DESCRIPTION |
| CS703SB | One Piece Versa Deck Brace Angle |
| BP000TS | #12 Hex Tek Screw - 110 per box |

| ONE PIECE VERSA BRACE - 48" | |
|-----------------------------|--------------------------------------|
| ITEM NO. | DESCRIPTION |
| CS703SB-48 | One Piece Versa Brace Deck Angle/48" |
| BP000TS | #12 Hex Tek Screw - 110 per box |



Does not require bolt locations. Tek screws at the top and clips at the bottom.



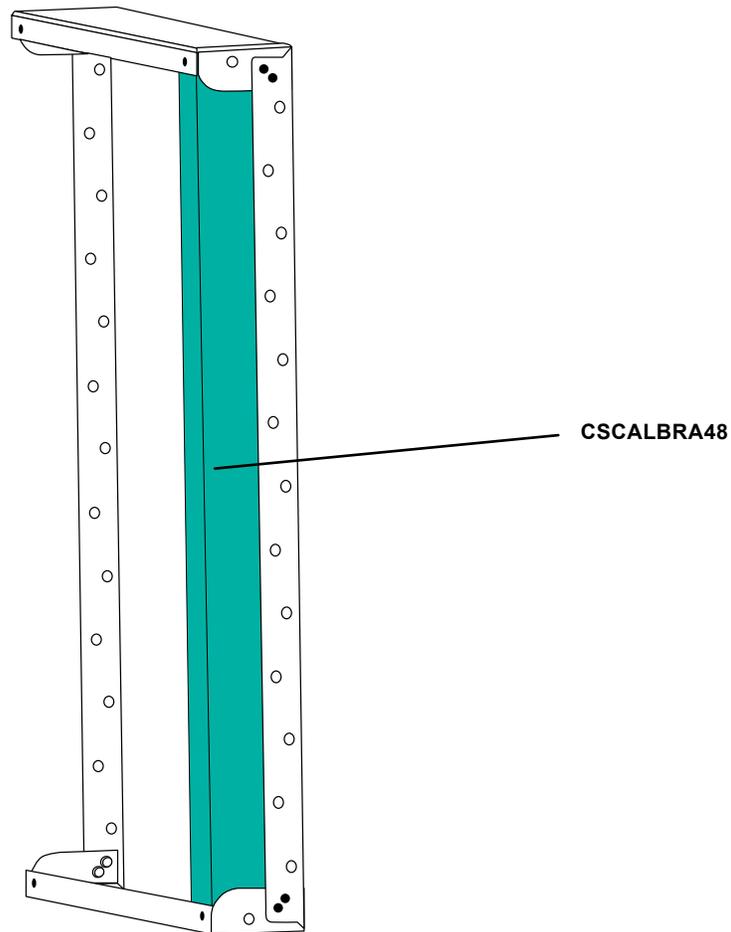
CALIFORNIA BRACE

CALIFORNIA BRACE

| CALIFORNIA BRACE | |
|------------------|-----------------------|
| ITEM NO. | DESCRIPTION |
| CSCALBRA48 | CA. Joint Brace - 48" |

Standard Size. *Other sizes are available.
Acts as a joint stiffener.

*Mandatory on all panels over 48".



SQUARE CORNER ANGLES

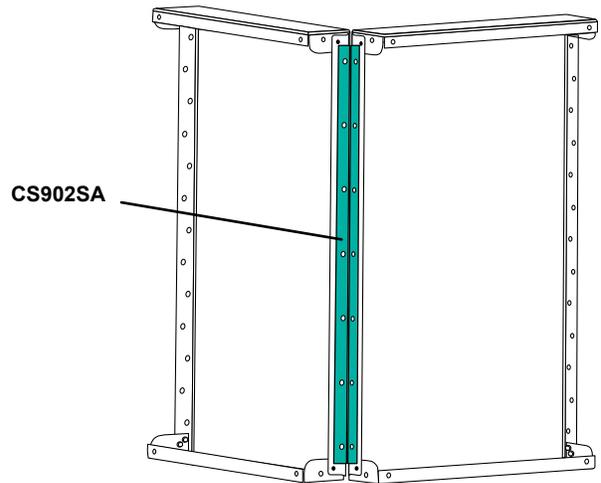
| SQUARE CORNER ANGLES | |
|----------------------|-------------------------|
| ITEM NO. | DESCRIPTION |
| CS902SA | Square Corner Angle |
| CS948SA | 48" Square Corner Angle |

Angles listed above are for 42" or 48" pool kits. *Other sizes and angles are available.

Ties a 90° corner together.



CS902SA

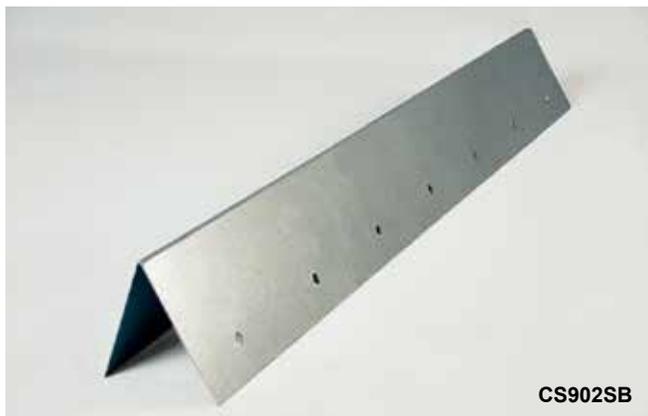


CS902SA

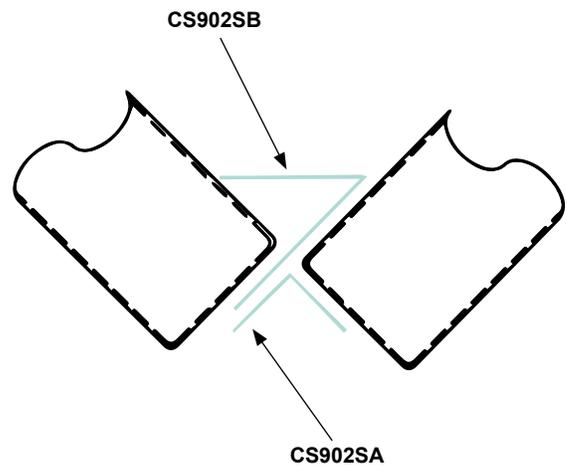
BIG VEE ANGLE

| BIG VEE ANGLES | |
|----------------|-------------------------------|
| ITEM NO. | DESCRIPTION |
| CS902SB | Big Vee Angle (for 6" Radius) |
| CS948SB | 48" Big Vee Angle |
| CS902SA | Corner Angle |

6" radius diagonal filler.

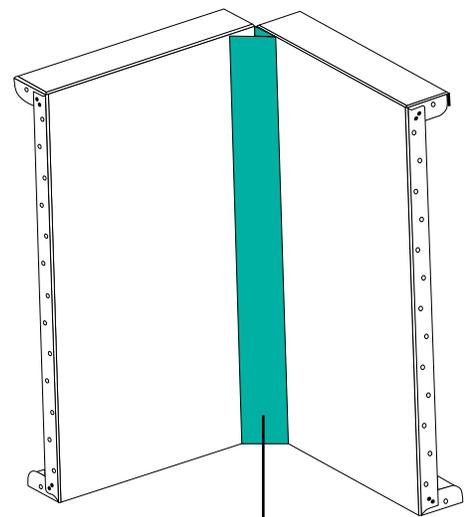


CS902SB



CS902SB

CS902SA



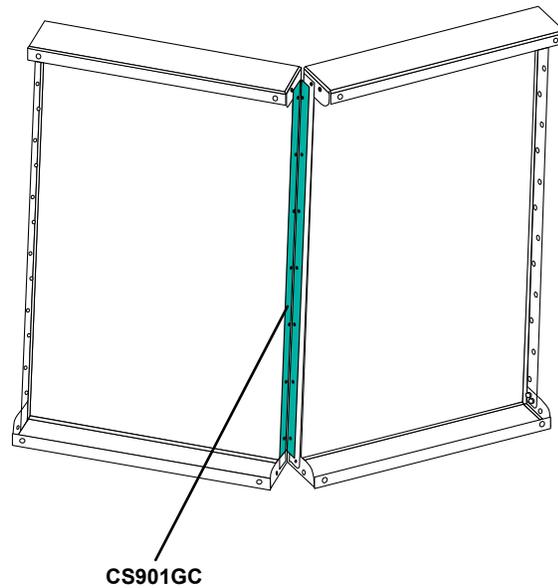
CS902SB

CORNER ANGLES, INSERTS AND STEP ANGLES

GRECIAN ANGLES

| GRECIAN ANGLES | |
|----------------|--------------------------|
| ITEM NO. | DESCRIPTION |
| CS901GC | Grecian Corner Angle |
| CS948GC | 48" Grecian Corner Angle |

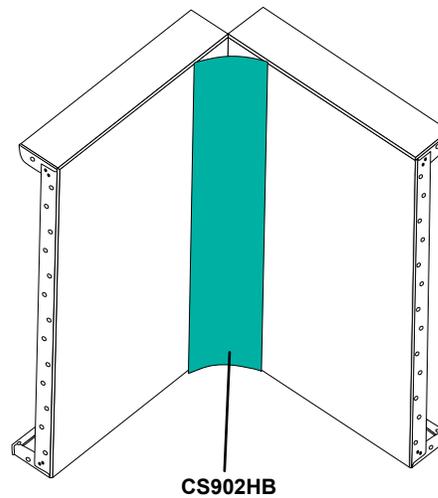
Ties a 45° corner together.



INSERTS

| INSERTS | |
|----------|---------------------------------|
| ITEM NO. | DESCRIPTION |
| CS902HB | Heldor, 6" Radius Corner Insert |
| CS903FC | Foam Inserts 3.5" 3.5 x 5 x 40 |

6" radius roll form filler.



STEP ANGLES

| STEP ANGLES | |
|-------------|--------------------|
| ITEM NO. | DESCRIPTION |
| CS900GS | Grecian Step Angle |

Attach a plastic or fiberglass stair or bench option to the panel.

Step Angles listed are for 42" pool kits. *Other sizes and angles are available.



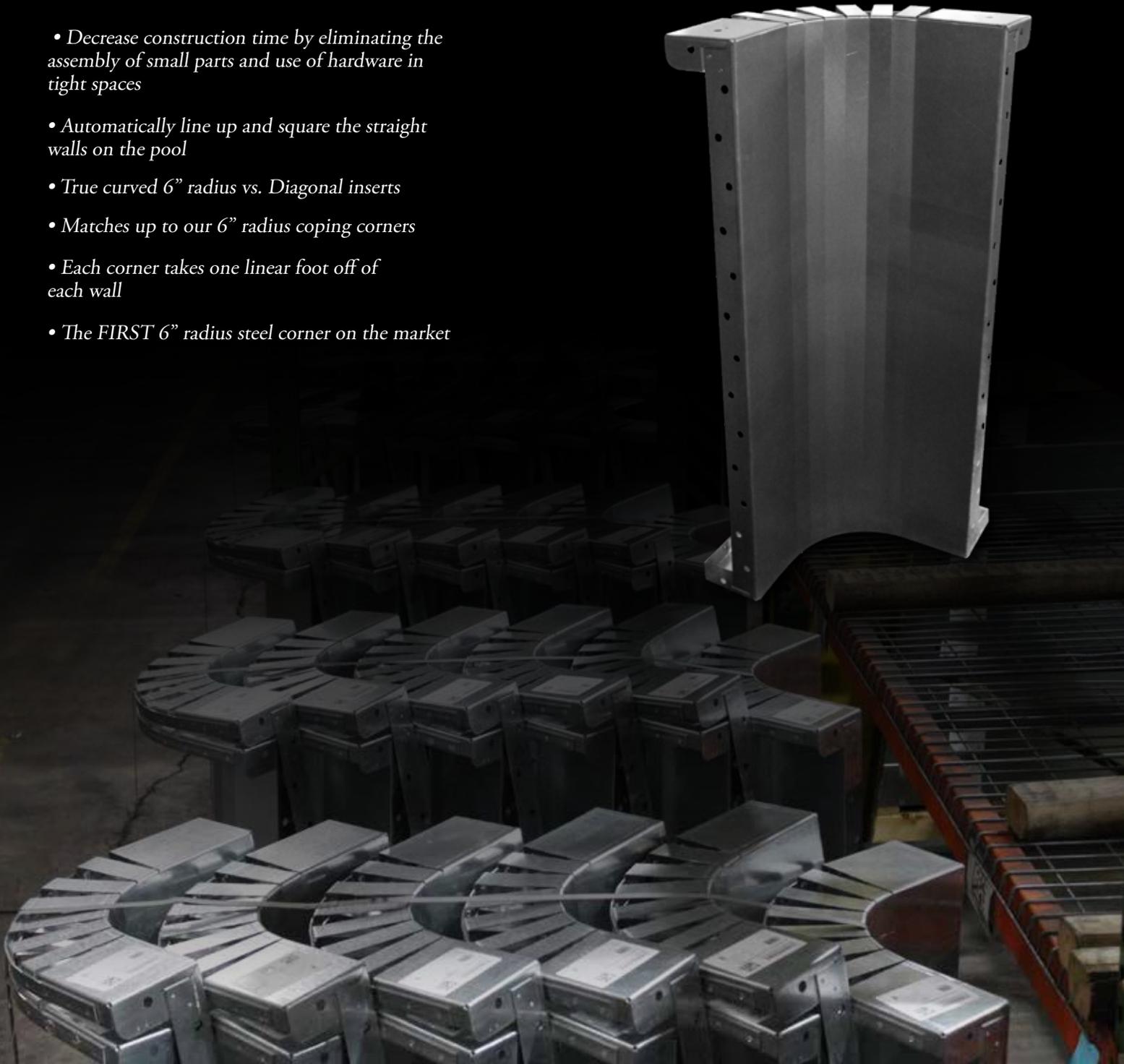


6" STEEL RADIUS CORNER PANELS

6" STEEL RADIUS CORNER PANELS

| 6" STEEL RADIUS CORNER PANELS | |
|-------------------------------|--------------------------------------|
| ITEM NO. | DESCRIPTION |
| 5C42193XX00600 | 6" Steel Radius Corner Panels (g235) |
| ZC42193XX00600 | 6" Steel Radius Corner Panels (ZAM) |

- *Decrease construction time by eliminating the assembly of small parts and use of hardware in tight spaces*
- *Automatically line up and square the straight walls on the pool*
- *True curved 6" radius vs. Diagonal inserts*
- *Matches up to our 6" radius coping corners*
- *Each corner takes one linear foot off of each wall*
- *The FIRST 6" radius steel corner on the market*



BOLT PACKS

TEK SCREWS

| TEK SCREWS | |
|------------|---------------------------------|
| ITEM NO. | DESCRIPTION |
| BP000TS | #12 Hex Tek Screw - 110 per box |



BENT BOLTS

| BENT BOLTS | |
|------------|--|
| ITEM NO. | DESCRIPTION |
| BP500JS | 56 - 2" Bent Bolts w/ Nuts (BP838HN) (Grecian) |



BOLT PACKS

| BOLT PACKS | |
|------------|-------------------------|
| ITEM NO. | DESCRIPTION |
| BP216JS | 216 Nuts/Bolts Per Pack |
| BP192JS | 192 Nuts/Bolts Per Pack |



7' DROP-IN STEP BOLT PACK

| DROP-IN STEP BOLT PACKS | |
|-------------------------|--|
| ITEM NO. | DESCRIPTION |
| BP500DS | 20 Hex Screws (BP375HB) 12 Stair Clips (SP0746) 26 Slotted Flathead Screws (BP834MB) 26 Bolts with Nuts (BP810MB) 52 3/8" Serrated Hex Nuts (BP838HN) per pack |



LARGE STEP BOLT PACKS

| LARGE STEP BOLT PACKS | |
|-----------------------|-------------------------|
| ITEM NO. | DESCRIPTION |
| BP810MB | Bolts w/ Nuts (BP838HN) |
| SP0746-12 | Stair Clips |



VERSA BRACE BOLT PACKS

| VERSA BRACE BOLT PACKS | |
|------------------------|---------------------------------|
| ITEM NO. | DESCRIPTION |
| BP000TS | #12 Hex Tek Screw - 110 per box |





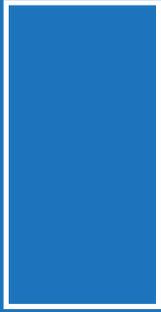
THE BACKYARD POOLSCAPE SERIES: A PLUNGE POOL COLLECTION

The thought of owning a pool is often a dream, and remains a dream for today's average Homeowner. It may be that your backyard is 'too small' or your budget won't accommodate a standard pool. Perhaps your busy lifestyle doesn't mesh with the longterm upkeep and maintenance that a large luxury item requires.

That may be too much, but an empty yard is not enough... right?

To today's Homeowner, we *hear you*, we *see you*. You want a space that you can unwind, and simply *escape to* after a long day. Our *Backyard Escape Series* is a plunge pool collection that offers luxury and paradise on a smaller, more manageable scale. Whatever its purpose—relaxation, exercise/rehabilitation, a gathering place, a peaceful escape...this collection will allow you to **Eescape to what is meant for you.**

Size & Shape



Rectangle

8' x 16' • 10' x 20' • 12' x 24'

All sizes include Poured Step

Optional Additions: Sundeck,
Drop-in Deep End Bench



Oval

8' x 16'

Includes Poured Step

Optional Addition:
Drop-in Deep End Bench



Oasis

9' x 20'

Includes Poured Step

Optional Addition:
Drop-in Deep End Bench

Coping Options



CARDINAL'S CR
COPING



CARDINAL'S HZ
LINER TRACK



Features

All Plunge Pool Kits Include:

- 54" high galvanized steel walls
- Turnbuckle braces
- Versa braces
- 1 Skimmer panel & 1 Return panel
- Choice of Cardinal's CR or HZ coping

(Autocover capabilities with no coping option)

Upgrade

with a Cardinal Luxury Spa:

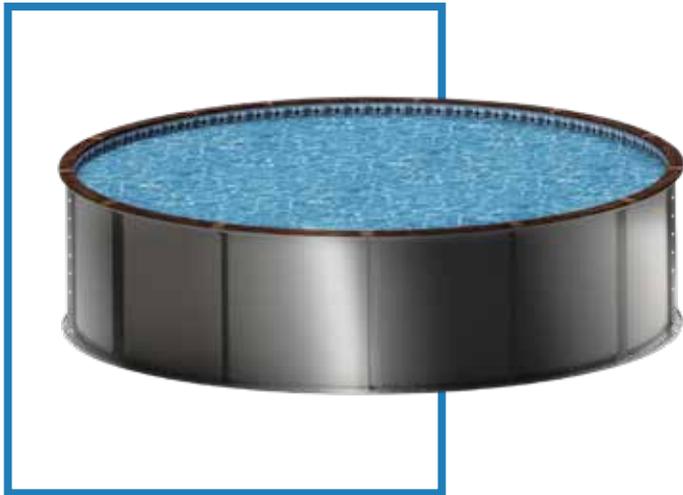
- Sterling Silver or Storm Cloud Colors
- Standard or Spillover (waterfall effect)
- Round or Square Shapes
- Interior Embossed Wave Detail
- 12 or 25 Jet Systems
- Easy Entry Steps
- Built-in Filtration
- Hydrotherapy Stainless Steel Jets
- Adjustable Air Control

ULTIMATE POOL

Experience



Our Ultimate Pool designs provide the ultimate versatility. Whatever the landscape requires or your customer's dream idea consists of, the Ultimate Pool comes in shapes and sizes to fit any space. Whether inground, above ground, or semi-inground, all Ultimate Pool walls and buttress supports are made with galvanized steel and state-of-the-art ZAM coating to provide long-lasting protection from corrosion, and are backed by a lifetime warranty. ***Your Ultimate Pool experience begins with us!***



FLEXIBLE INSTALLATION

The Ultimate is offered in four standard shapes and multiple sizes. As an additional option, our round shape option can be assembled as an above ground pool in addition to inground and semi-inground. The grecian, modified rectangle, and oval shapes must be submerged in the ground at least 24”.

DURABILITY

ZAM coating provides long lasting protection from corrosion on our walls and buttress supports. Combining this with a concrete bonding ring on oval, grecian, and modified rectangle pools provides lasting strength in any soil.



BUTTRESS

The 14-gauge ZAM coated steel buttress, when combined with a concrete bond beam, provides wall support for straight walls on Oval, Modified Rectangle, Grecian, and Oasis pools. The buttress support system helps ensure the pool walls are straight and will last the lifetime of the pool.

CUSTOMIZATION

Customization is the Cardinal way, and Ultimate Pools are no exception. Your customers can tailor their choices to fit their needs for style and functionality.



ULTIMATE POOLS

| SIZES & SHAPES | SQUARE FEET | GALLONS |
|----------------------------|-------------|---------|
| 15' ROUND | 184 | 5,500 |
| 18' ROUND | 250 | 7,400 |
| 21' ROUND | 370 | 11,000 |
| 24' ROUND | 459 | 13,600 |
| 15 x 23 OVAL | 307 | 9,100 |
| 15 x 31 OVAL | 430 | 12,800 |
| 18 x 34 OVAL | 535 | 15,900 |
| **12 x 22 GRECIAN | 236 | 7,000 |
| 14 x 30 GRECIAN | 390 | 11,600 |
| 16 x 32 GRECIAN | 500 | 14,900 |
| 18 x 38 GRECIAN | 649 | 19,300 |
| 20 x 40 GRECIAN | 793 | 23,600 |
| 12 x 26 MODIFIED RECTANGLE | 340 | 10,000 |
| 14 x 34 MODIFIED RECTANGLE | 513 | 15,200 |
| 18 x 34 MODIFIED RECTANGLE | 652 | 19,400 |
| 18 x 38 MODIFIED RECTANGLE | 727 | 21,600 |
| 20 x 42 MODIFIED RECTANGLE | 888 | 26,400 |
| **13 X 21 OASIS | 214 | 6,300 |
| 16 X 28 OASIS | 328 | 9,700 |
| 18 X 32 OASIS | 457 | 13,600 |

SHAPE YOUR SPACE

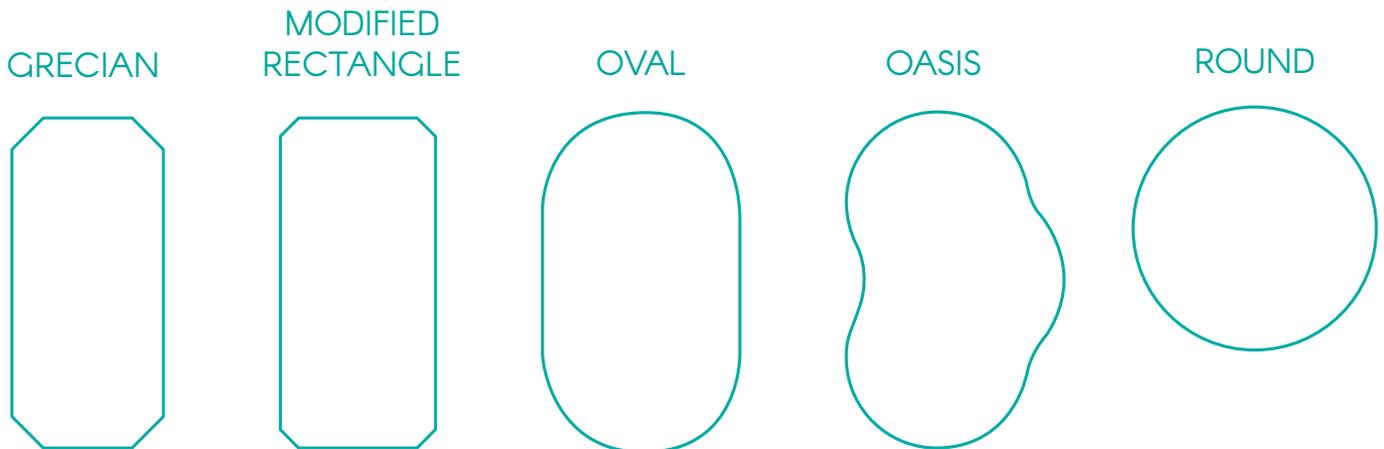
Cardinal's variety of Ultimate Pool styles provide you the ability to give your Customers the right look & fit for their environment.

The Ultimate Pool can be installed above ground, semi-inground, or completely inground in either our standard Grecian, Oval, Round, Modified Rectangle or Oasis shapes.



* Note: Standard Water Depth in all Ultimate Pools is 4'.

** Not available with Quaker thermoplastic Stair Option



PLEASE NOTE: All Ultimate Pools are non-diving pools for Customers' safety.



ABOVE GROUND



SEMI-INGROUND



INGROUND

Limitless

INSTALLATION POSSIBILITIES



Grecian, Oval, Modified Rectangle, and Oasis are available in multiple size options for each. They can also be installed completely inground, semi-inground, or above ground.

A reliable foundation with
52" TALL ZAM CORROSION RESISTANT STEEL WALLS

CORROSION RESISTANT STEEL FOR THE *ULTIMATE* PROTECTION



Galvanized
18
Months



ZAM®
28
Months

ZAM is the most effective non-corrosive coating for steel panels in the industry. ZAM is a hot-dip coated steel sheet that has a layer of Zinc, 6% Aluminum, and 2% Magnesium. The effects of magnesium and aluminum together allow our ZAM coated panels to have excellent corrosion resistance, scratch resistance, and formability.

ZAM offers superior protection against corrosion on Salt Generator Pools, up to 5x's more effective than standard galvanization. It also offers increased protection when servicing areas with a high water table or acidic ground conditions.

Customization of panels is still achievable, as the steel can be bent and formed without the coating cracking on the edges. Cardinal's ZAM coated steel is covered by a lifetime, 1-time transferable warranty.

ZAM BENEFITS:



SUPERIOR TO OTHER LIKE PRODUCTS

ZAM's unique chemical composition of Zn, Al and Mg combines to form a firm coating layer. This unique coating develops thin film byproducts unlike that of competitors, that are remarkably corrosion resistant—even over cut edges.



ECO-FRIENDLY

ZAM's corrosion resistance will allow customers to significantly reduce coating thickness which benefits the environment. Specifically, reducing coating thickness effectively decreases the amount of minerals mined from the earth, reduces harmful runoff dispersed into the soil, and reduces coating residue at steel recycling plants.



PROTECTION ON CUT EDGES

When the ZAM coating layer corrodes in the rain, Zn and Mg flow over the cut edge. These elements form a fine zinc-based protective film that helps ensure a long product life even against harsh elements.

CUSTOMIZATION

Customization is the Cardinal way, and it doesn't stop with the Ultimate Pool. With a variety of optional add-on features, your Customers can upgrade their pool to satisfy functional necessities, as well as style preferences and aesthetic.

Each shape comes with 4 options to customize:

1. Synthetic Wood
2. PC Bullnose Coping
3. Synthetic Wood & Quaker Thermoplastic Step
4. PC Bullnose Coping & Quaker Thermoplastic Step

*Please note, vinyl liners and ladders are no longer included in the Ultimate Kits. We have partnered with 5 preferred liner manufacturers to ensure the highest-quality liners will be installed.

ULTIMATE POOL KITS

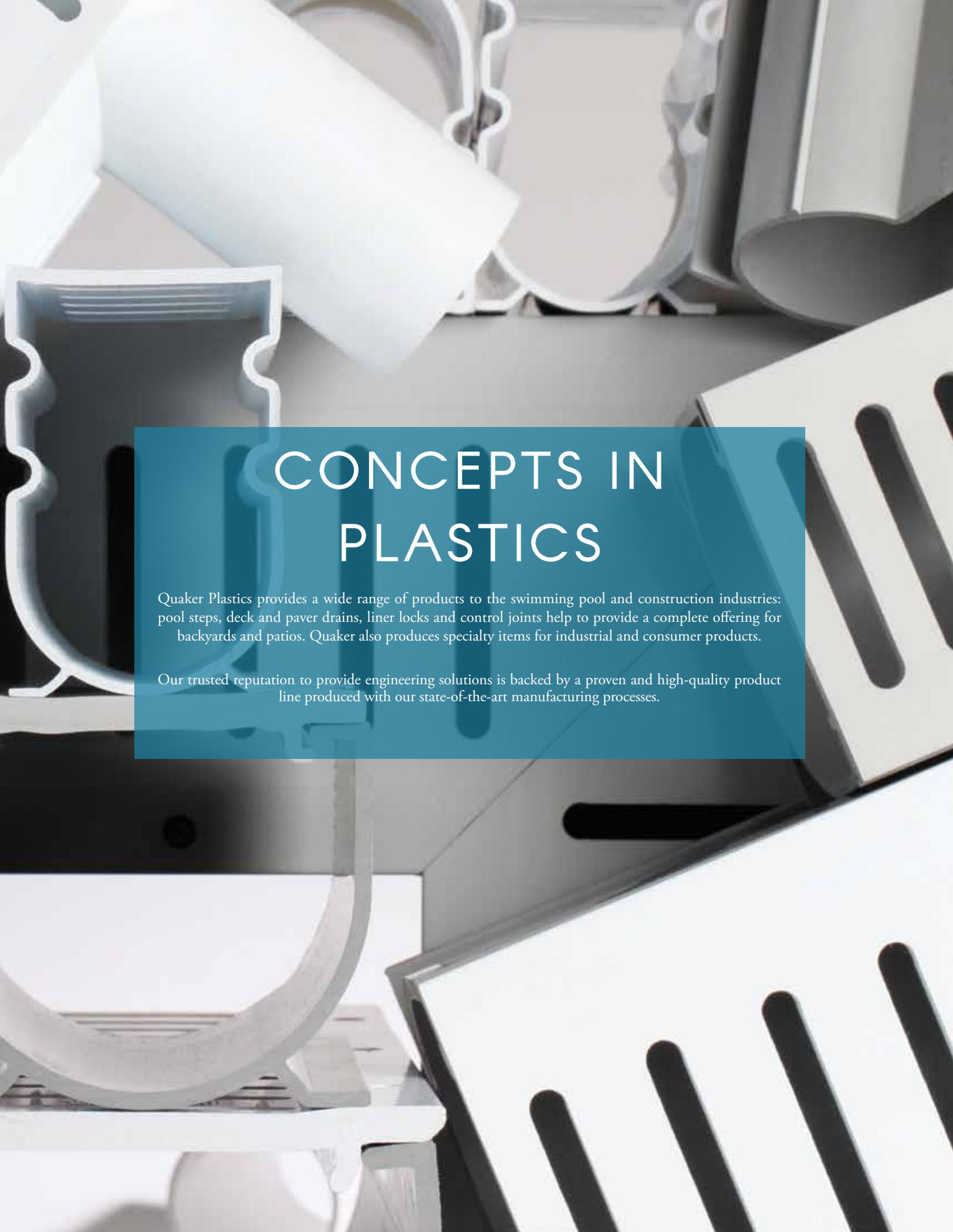
All Ultimates come equipped as Kits with the necessary product, hardware, and step-by-step installation instructions for a hassle-free build on the job site. **All kits include:**

- 14-gauge galvanized ZAM coated steel walls and buttress supports (if needed)
- Top Rail (chosen by Customer)
- Inground quality skimmer and return
- Hardware, drive stakes, and joint covers

BUILD MORE POOLS

Ultimate Pool Kits come with all materials and step-by-step instructions to make the build a breeze. For seasoned pool professionals, **Ultimates should take significantly less time** to complete than a fully custom inground pool build. For new builders or builders in training, this is an ideal build to get them started and gain experience.

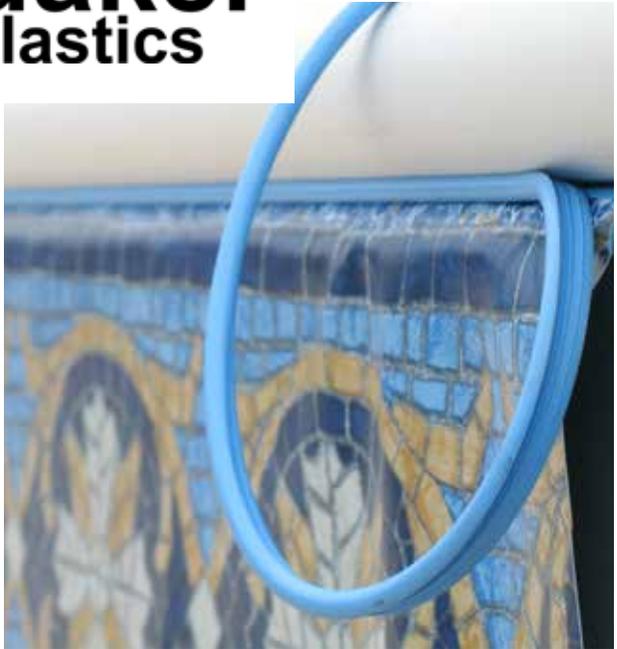
All Ultimates can be ordered as one part number. This saves you time and planning, and Builders can rely on a complete kit to arrive at the job site, *every time*.



CONCEPTS IN PLASTICS

Quaker Plastics provides a wide range of products to the swimming pool and construction industries: pool steps, deck and paver drains, liner locks and control joints help to provide a complete offering for backyards and patios. Quaker also produces specialty items for industrial and consumer products.

Our trusted reputation to provide engineering solutions is backed by a proven and high-quality product line produced with our state-of-the-art manufacturing processes.



DECK/PAVER DRAINS

Made of all-weather, rigid PVC and available in several designer colors, our drains can match your landscape needs for color and function. The drains are constructed with a concave top for superior drainage and minimal debris collection. Our design provides for less clogging, and for handling more water volume than comparably sized competitive drains. The deck drains can be mounted flush against the wall, and are ready to install with tops and base assembled, screws, connections, protective tape, and instruction sheet included in the packaging.

DISCHARGE HOSE

Quaker Plastics boasts the highest-quality vinyl discharge hose in the industry – 20% thicker than competitors. The hose is available in various sizes and lengths for both the pro and the homeowner. Convenient spools are ideal for the trucks of Installers and Service Professionals. Smaller rolls, which include a stainless steel clamp, are shrink-wrapped for best shelf visibility and easier handling.

ACCESSORIES & RENOVATION PRODUCTS

We offer an accessory product line for additional needs specific to the pool industry. In addition, we offer an array of products for repair and up-sell during renovation projects.

COLOR GUIDE

COLOR GUIDE FOR DECK DRAINS AND CONCRETE PRODUCTS



PAVER GRAY

(for paver drain and paver overlay only, 2" Paver Drain, Streamline, and 1" Paver Overlay include Paver Gray.)



GRAY

(for all stock products except pavers)



WHITE

The color representations have been printed as closely as possible to actual colors, however, product color may vary from photograph.



TAN

THE FOLLOWING QUAKER PRODUCTS ARE AVAILABLE IN THE COLORS TO THE LEFT:

- 3" Water Hog® Deck Drain and Fittings
- 4" Water Hog® Deck Drain and Fittings
- 2" Paver Drain and Fittings
- 1" Paver Overlay
- 2" Square Drain System and Fittings
- Deck Drain-A-Way® and Fittings
- Streamline and Fittings
- Replacement Caps

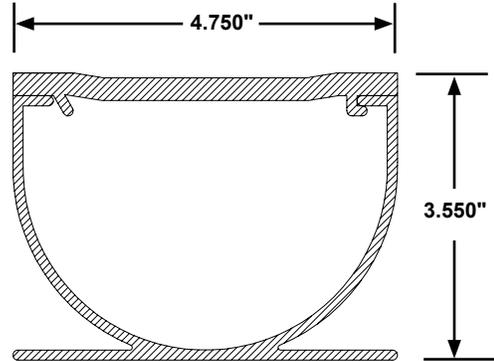


DECK DRAINS

QP-6251: 4" WATER HOG®



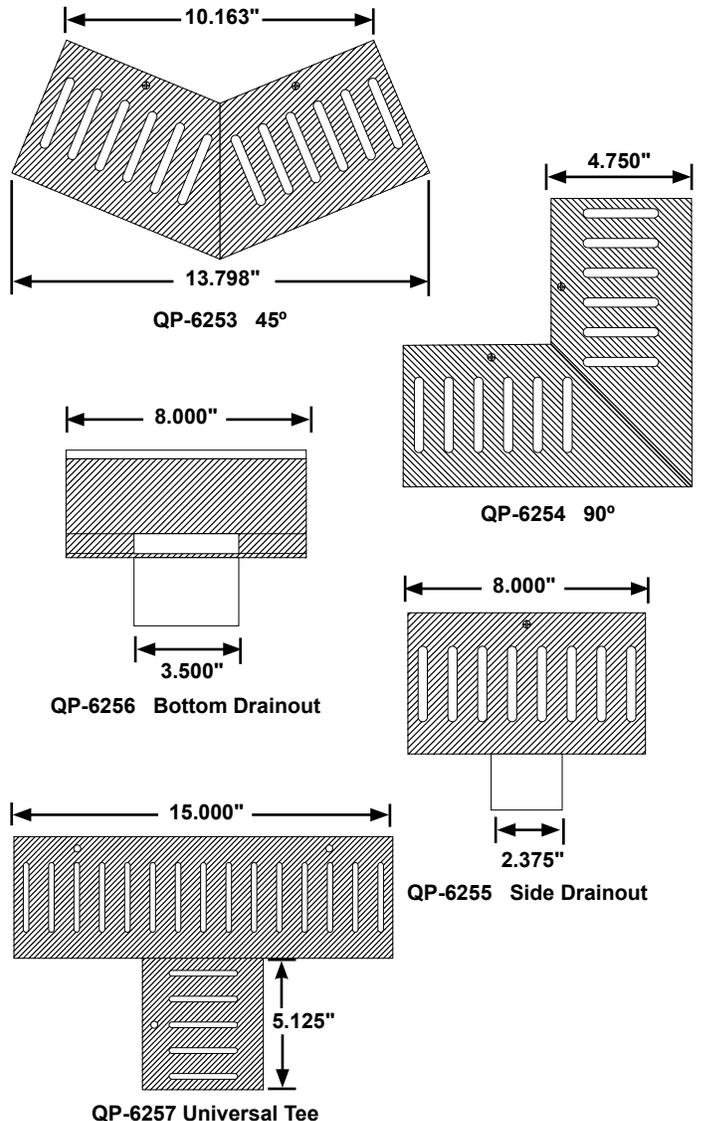
4" DECK DRAIN SYSTEM WITH GRAY BASE



4" WATER HOG® FITTINGS

FITTINGS FOR 4" DECK DRAIN SYSTEM FIT ITEM #: QP-6251 AND QP-6252

| 4" WATER HOG® MODEL NUMBERS | | |
|--|--------|--------------------------------|
| Available Colors: white, gray, and tan (W,G,T) | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-6251 (W,G,T) | 6 ft. | 24 ft./case, four 6-foot pcs. |
| QP-6252 (W,G,T) | 10 ft. | 40 ft./case, four 10-foot pcs. |
| Case includes four connectors, one extra screw packet, protective tape, and one instruction sheet. 6 ft. is able to ship UPS, 10 ft. is not. | | |



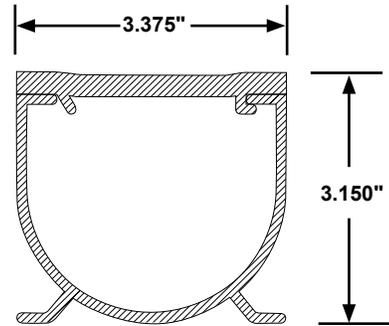
| 4" WATER HOG® FITTINGS | | |
|--|--|----------|
| Available Colors: white, gray, and tan (W,G,T) | | |
| ITEM NO. | STYLE FITTING | PER CASE |
| QP-6253 (W,G,T) | 45° | 1 |
| QP-6254 (W,G,T) | 90° | 1 |
| QP-6255 (W,G,T) | Side Drainout | 1 |
| QP-6256 (W,G,T) | Bottom Drainout | 1 |
| QP-6257 (W,G,T) | Universal Tee | 1 |
| QP-4951 (W,G,T) | 4" Drain Tops only, 6' length | 8 |
| QP-4973 | Connector (gray only) | 1 |
| QP-496A | End Plug/End Adapter Kit | 1 ea. |
| QP-496B | End Adapter (gray fitting, white base plate) | 1 |
| QP-496C | End Plug (gray fitting, white base plate) | 1 |

DECK DRAINS

QP-6241: 3" WATER HOG®

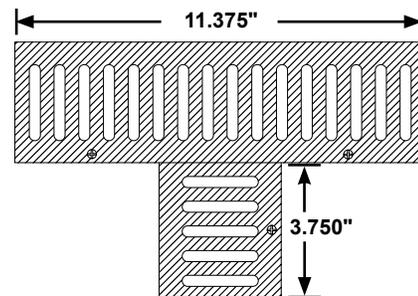
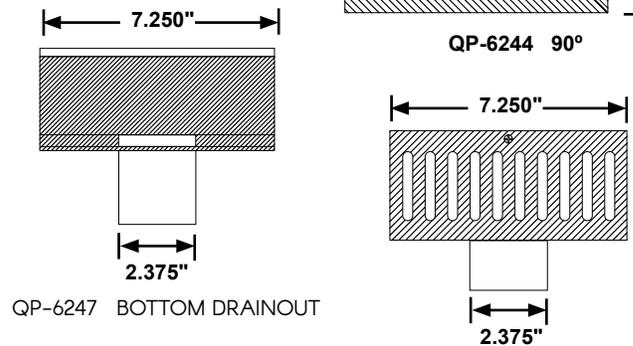
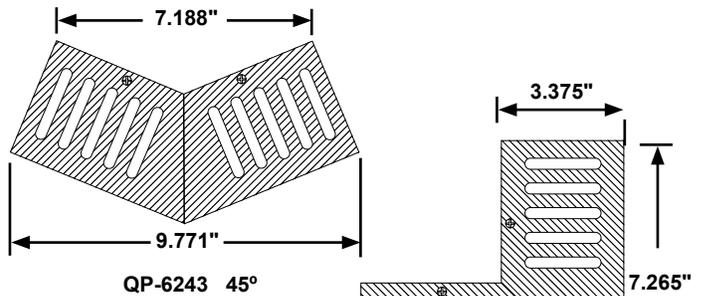


3" DECK DRAIN SYSTEM WITH GRAY BASE



3" WATER HOG® FITTINGS

FITTINGS FOR 3" DECK DRAIN SYSTEM FIT ITEM #: QP-6241 AND QP-6242



QP-6245 UNIVERSAL TEE

3" WATER HOG® MODEL NUMBERS

Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | LENGTH | PACKAGING |
|-----------------|--------|--------------------------------|
| QP-6241 (W,G,T) | 6 ft. | 48 ft./case, eight 6-foot pcs. |
| QP-6242 (W,G,T) | 10 ft. | 60 ft./case, six 10-foot pcs. |

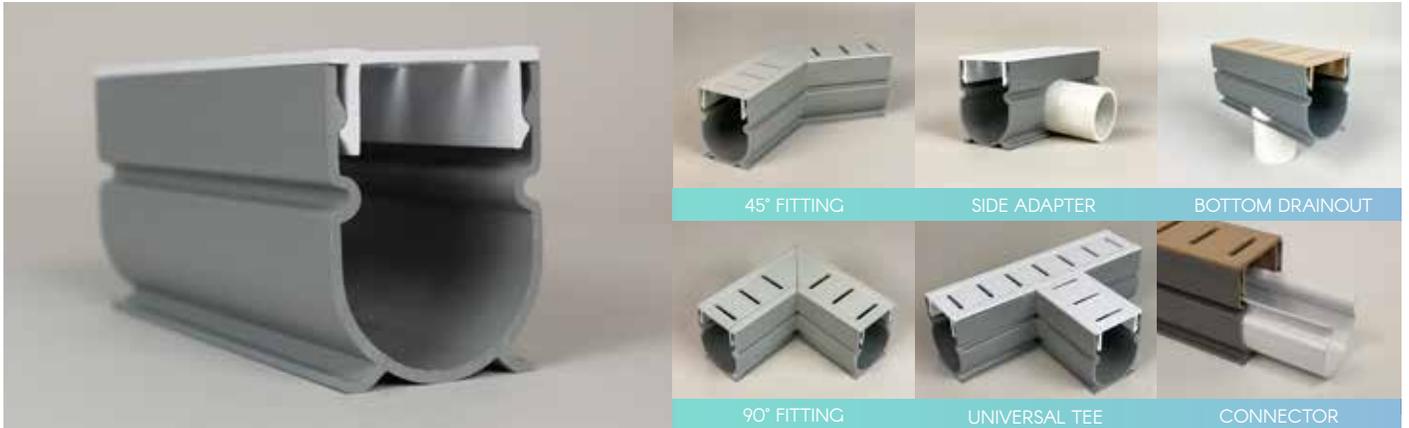
Case includes connectors (8 pcs. in 6-ft. case, 6 pcs. in 10-ft. case), one extra screw packet, protective tape, and one instruction sheet. 6 ft. is able to ship UPS, 10 ft. is not.

3" WATER HOG® FITTINGS

Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | STYLE FITTING | PER CASE |
|-----------------|---|----------|
| QP-6243 (W,G,T) | 45° | 2 |
| QP-6244 (W,G,T) | 90° | 2 |
| QP-6245 (W,G,T) | Universal Tee | 2 |
| QP-6247 (W,G,T) | Bottom Drainout | 2 |
| QP-6248 (W,G,T) | Side Drainout | 2 |
| QP-5701 (W,G,T) | 3" Drain Tops only, 6' length | 8 |
| QP-5712 | Connector (gray only) | 1 |
| QP-572A | End Adapter (gray fitting, white base plate) | 1 |
| QP-572B | End Plug (gray fitting, white base plate) | 1 |
| QP-572C | End Plug/End Adapter Kit | 1 ea. |

QP-6972: 2" REMOVABLE TOP DECK DRAIN



Not shown: End Cap (QP-5181-1 & 5182-1).

2" REMOVABLE TOP DRAIN MODEL NUMBERS

Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | LENGTH | PACKAGING |
|----------|--------|---------------------------------|
| QP-6972W | 10 ft. | 80 ft./case, eight 10-foot pcs. |
| QP-6972G | 10 ft. | 80 ft./case, eight 10-foot pcs. |
| QP-6972T | 10 ft. | 80 ft./case, eight 10-foot pcs. |

Includes four adapters in a box of eight.

BENEFITS OF 2" REMOVABLE TOP DECK DRAIN SYSTEM

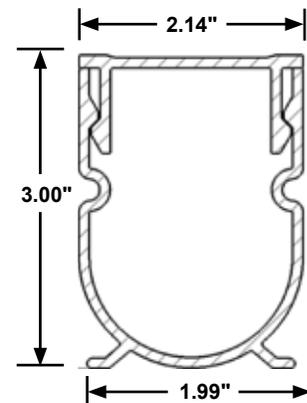
- Heavy wall, bondable, drain system and all components are made from rigid PVC, proven in years of outdoor applications with lasting beauty.
- Adapts to all standard 1½" plastic fittings.
- Joints bond together like PVC pipe, with PVC connectors supplied.
- Removable top for easy clean out.
- Drain offers heavier walls than existing systems, as well as greater rigidity and durability.
- Strong water volume capacity.
- Taped top for extra strength when peeling off after concrete is in place.
- Smooth concave top surface provides better drainage and minimizes collection of dirt and debris.

2" REMOVABLE TOP DRAIN FITTINGS

Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | STYLE FITTING | PER CASE |
|-----------------|--------------------|----------|
| QP-6973 (W,G,T) | 45° | 2 |
| QP-6974 (W,G,T) | 90° | 2 |
| QP-6978 (W,G,T) | Side Adapter | 2 |
| QP-6977 (W,G,T) | Bottom Drainout | 2 |
| QP-6975 (W,G,T) | Universal Tee | 2 |
| QP-6976* | End Cap | 4 |
| QP-6979* | End Drain Out | 1 pc. |
| QP-6413-1 | Connectors (white) | 1 pc. |
| QP-6411-1 | Connectors (gray) | 1 pc. |

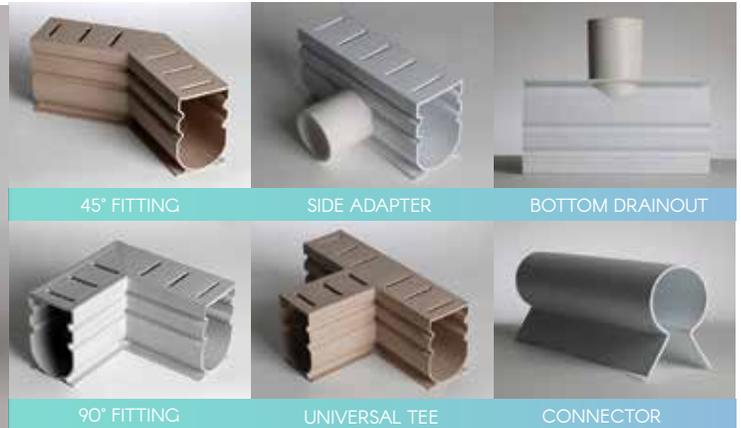
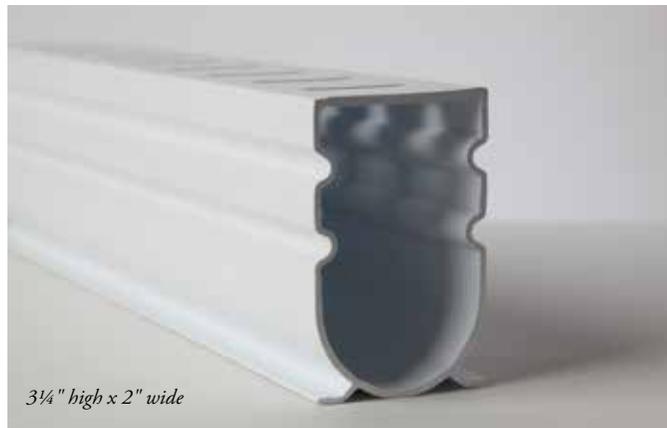
**Available in WHITE ONLY*



DECK DRAINS

QP-5171: 2" SQUARE DRAIN SYSTEM

U.S. Patent No. 6,729,795



Adaptable to standard 1 1/2" fittings and stands on its own feet for easy upright installation.

Not shown: End Cap (QP-5181-1 & 5182-1), and Surface clean-out plug (QP-988-1).

2" SQUARE DRAIN SYSTEM MODEL NUMBERS

Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | LENGTH | PACKAGING |
|-----------------|--------|---------------------------------|
| QP-5171 (W,G,T) | 10 ft. | 80 ft./case, eight 10-foot pcs. |

Includes eight connectors (QP-5981-1), two surface clean-out plugs (QP-988-1), double-protective tape, and one instruction sheet.

2" SQUARE DRAIN SYSTEM FITTINGS

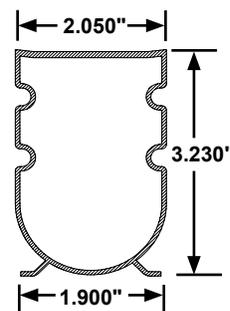
Available Colors: white, gray, and tan (W,G,T)

| ITEM NO. | STYLE FITTING | PER CASE |
|-----------------|-------------------------|----------|
| QP-5172 (W,G,T) | 45° | 8 |
| QP-5173 (W,G,T) | 90° | 8 |
| QP-5174 (W,G,T) | Side Adapter | 4 |
| QP-5175 (W,G,T) | Bottom Drainout | 4 |
| QP-5176 (W,G,T) | Universal Tee | 4 |
| QP-5181-1* | End Cap, 3/8" length | 1 pc. |
| QP-5182-1* | End Cap, 1" length | 1 pc. |
| QP-988-1* | Surface Clean-out Plugs | 1 pc. |
| QP-5981-1* | Connectors | 1 pc. |

*Available in WHITE ONLY

BENEFITS OF 2" SQUARE DRAIN SYSTEM

- Heavy wall, bondable, drain system and all components are made from rigid PVC, proven in years of outdoor applications with lasting beauty.
- Adapts to all standard 1 1/2" plastic fittings.
- Joints bond together like PVC pipe, with PVC connectors supplied.
- Clean-outs adapt to 1 1/2" threaded (purchased locally) or connector (supplied) for end clean-outs with either threaded or slip end cap.
- Should a surface clean-out hole be desired, simply drill a 1" hole and snap in our clean-out fitting. To clean, remove plug and flush with hose. There are two supplied in every carton.
- Drain offers heavier walls than existing systems, as well as greater rigidity and durability.
- Strong water volume capacity.
- Taped top for extra strength when peeling off after concrete is in place.
- Smooth concave top surface provides better drainage and minimizes collection of dirt and debris.



QP-3701: DECK DRAIN-A-WAY® SYSTEM II

U.S. Patent No. 4,490,067 Canada Patent No. 1,221,043



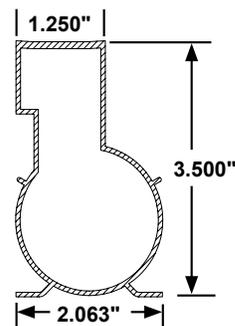
Adaptable to standard 1½” fittings and stands on its own feet for easy upright installation.

| DECK DRAIN-A-WAY® SYSTEM II MODEL NUMBERS | | |
|--|--------|-------------------------------|
| Available Colors: white, gray, and tan (W,G,T) | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-3701 (W,G,T) | 8 ft. | 72 ft./case, nine 8-foot pcs. |
| <i>Includes nine connectors (QT-125-1), two surface clean-out plugs (QP-988-1), double-protective tape, and one instruction sheet.</i> | | |

| DECK DRAIN-A-WAY® SYSTEM II FITTINGS | | |
|--|-------------------------|----------|
| Available Colors: white, gray, and tan (W,G,T) | | |
| ITEM NO. | STYLE FITTING | PER CASE |
| QP-3702 (W,G,T) | 45° Inside | 4 |
| QP-3703 (W,G,T) | 45° Outside | 4 |
| QP-3704 (W,G,T) | 90° Inside | 4 |
| QP-3705 (W,G,T) | 90° Outside | 4 |
| QP-3706 (W,G,T) | Universal Tee | 4 |
| QP-3709 (W,G,T) | Bottom Drainout | 4 |
| QP-1031-1* | Top End Caps | 1 pc. |
| QP-988-1* | Surface Clean-out Plugs | 1 pc. |
| QT-125-1* | Connectors | 1 pc. |
| <i>*Available in WHITE ONLY</i> | | |

BENEFITS OF DECK DRAIN-A-WAY® SYSTEM II

- Heavy wall, bondable, drain system and all components are made from rigid PVC, proven in years of outdoor applications with lasting beauty.
- Adapts to all standard 1½” plastic fittings.
- Joints bond together like PVC pipe, with PVC connectors supplied.
- Clean-outs adapt to 1½” threaded (purchased locally) or connector (supplied) for end clean-outs with either threaded or slip end cap.
- Should a surface clean-out hole be desired, simply drill a 1” hole and snap in our clean-out fitting. To clean, remove plug and flush with hose. There are two supplied in every carton.
- Drain offers heavier walls than existing systems, as well as greater rigidity and durability.
- Strong water volume capacity.
- Taped top for extra strength when peeling off after concrete is in place.
- Smooth concave top surface provides better drainage and minimizes collection of dirt and debris.



DECK DRAINS

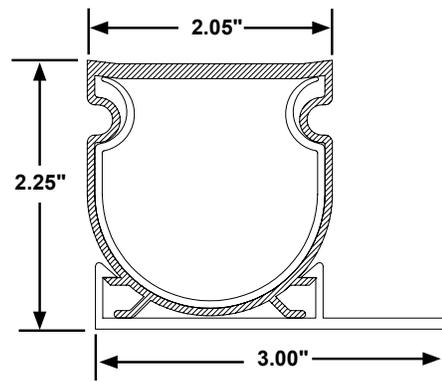
QP-6401: 2" PAVER DRAIN



| PAVER DRAIN MODEL NUMBERS | | |
|--|--------|---------------------------------|
| <i>Available Colors: white, paver gray, and tan (W,G,T)</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-6401 (W,G,T) | 10 ft. | 80 ft./case, eight 10-foot pcs. |
| <i>Includes eight connectors (QP-6411-1 or QP-6413-1), 48 securing clips (QP-1003), double-protective tape, and instruction sheet.</i> | | |

| PAVER DRAIN FITTINGS | | |
|---|-----------------------------|----------|
| <i>Available Colors: white, paver gray, and tan (W,G,T)</i> | | |
| ITEM NO. | STYLE FITTING | PER CASE |
| QP-6402 (W,G,T) | 45° | 10 |
| QP-6403 (W,G,T) | 90° | 10 |
| QP-6404 (W,G,T) | Bottom Drainout | 4 |
| QP-6405 | End Plug (white only) | 4 |
| QP-6406 (W,G,T) | Tee Fitting | 4 |
| QP-1003 | Securing Clips (white only) | 48 |
| QP-6411-1 | Connector (paver gray) | 1 pc. |
| QP-6413-1 | Connector (white) | 1 pc. |
| QP-5183-1 | End Cap (white only) | 1 pc. |
| QP-988-1 | Clean Out Plug (white only) | 1 pc. |

- 2³/₈" Paver Height - designed for standard pavers.
- Tan, gray and white - three designer colors to match the latest paver styles.
- Securing clips - packaged complete with 48 clips for locking underneath pavers. Alternate side-to-side or all on one side to fit flush with walls.
- Concave top - ensures superior drainage, minimizes debris collection.
- Ready to install - includes eight connectors, securing clips (six per 10' length), protective tape, and instruction sheet.
- Adapts to all standard 1¹/₂" plastic fittings.



BOTTOM WIDTH INCLUDES SECURING CLIP.
ALL DIMENSIONS ARE NOMINAL.

QP-7201: STREAMLINE | LOW PROFILE DRAIN

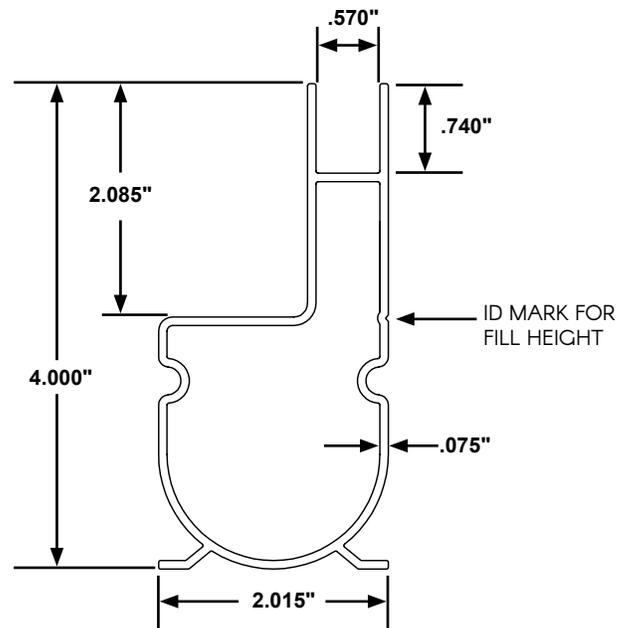


| STREAMLINE MODEL NUMBERS | | |
|---|--------|------------------------------|
| <i>Available Colors: white, paver gray, and tan (W,G,T)</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-7201 (W,G,T) | 8 ft. | 48 ft./case, six 8-foot pcs. |
| <i>Case includes 6 connectors and instruction sheet.</i> | | |

Streamline is the unique drain from Quaker Plastics. With its slim opening, Streamline blends seamlessly into the most elegant patio or deck.

- Visible entry channel only 1/2" wide.
- Recyclable, protective, removable filler strip for installation, no tape/no residue.
- Designed for pavers and concrete decks.
- Available in white, gray, and tan.
- Adapts to all standard 1 1/2" plastic fittings.

| STREAMLINE FITTINGS | | |
|---|-----------------------------|----------|
| <i>Available Colors: white, paver gray, and tan (W,G,T)</i> | | |
| ITEM NO. | STYLE FITTING | PER CASE |
| QP-7202 (W,G,T) | 45° Inside Corner | 2 |
| QP-7203 (W,G,T) | 45° Outside Corner | 2 |
| QP-7204 (W,G,T) | 90° Inside Corner | 2 |
| QP-7205 (W,G,T) | 90° Outside Corner | 2 |
| QP-7206 (W,G,T) | Bottom Drainout | 2 |
| QP-7207 | End Cap - (1 left, 1 right) | 2 |
| QP-6413-1 | Connector (white) | 1 |

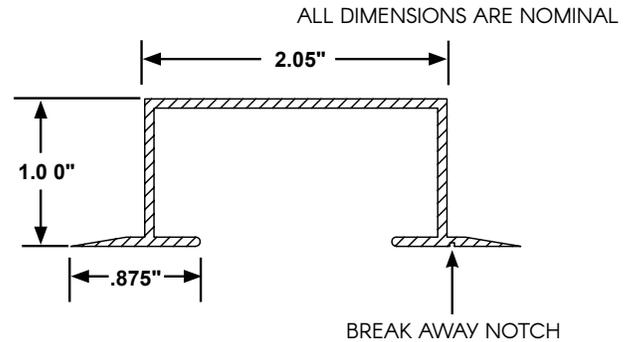


QP-6611: 1" PAVER OVERLAY



The 1" Paver Overlay is perfect for renovation.

| 1" PAVER OVERLAY MODEL NUMBERS | | |
|---|--------|----------------------------------|
| <i>Available Colors: white, paver gray, and tan (W,G,T)</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-6611W (white) | 5 ft. | 100 ft./case, twenty 5-foot pcs. |
| QP-6611G (paver gray) | 5 ft. | 100 ft./case, twenty 5-foot pcs. |
| QP-6611T (tan) | 5 ft. | 100 ft./case, twenty 5-foot pcs. |
| <i>Includes Double-protective tape and one instruction sheet.</i> | | |



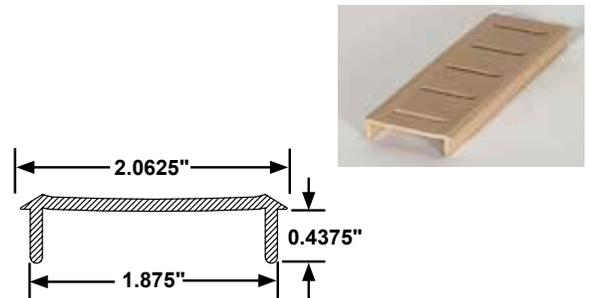
One-inch Paver Overlay is perfect for renovating an old, damaged deck. The overlay is easily installed on top of the old drain between the new surface paver stones, blending seamlessly with your landscape projects. Considerable expense is avoided in digging up old drain and replacing with a new system. Simpler and less time-consuming than replacement caps.

- Twenty (20) 5-foot lengths (100 ft./case).
- One side of overlay is notched for easy break-a-way for use against flat surfaces.
- Available in white, gray, and tan.
- UPS able carton.

QP-595: REPLACEMENT CAP FOR QUAKER DECK DRAIN

| REPLACEMENT CAP FOR QUAKER DECK DRAIN | | |
|---|--------|----------------------------------|
| MODEL NUMBERS | | |
| <i>Available Colors: white, gray, and tan (W,G,T)</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-595 (W,G,T) | 5 ft. | 100 ft./case, twenty 5-foot pcs. |

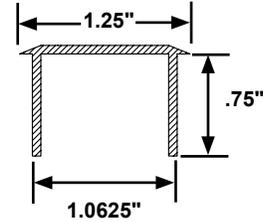
Ideal to repair common 2" drain systems. Fits Quaker's 2" Square Drain (QP-5171). Simply saw out damaged area, insert replacement drain top, and bond it in place.



QP-255I: REPLACEMENT CAP FOR COMMON DECK DRAIN

| REPLACEMENT CAP FOR COMMON DECK DRAIN MODEL NUMBER | | |
|---|--------|--------------------------------------|
| <i>Available Colors: white, gray, and tan (W,G,T)</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-2551 (W,G,T) | 4 ft. | 96 ft./case, twenty four 4-foot pcs. |

Ideal to repair commonly used drain systems. Fits Quaker's Deck Drain-A-Way® (QP-3701). Simply saw out damaged area and insert Quaker's replacement drain top and bond it in place.

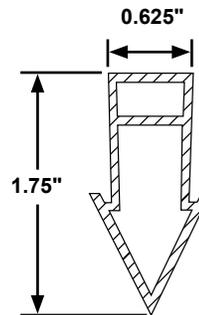


QP-781: ARROWHEAD™ CONTROL JOINT

U.S. Patent No. 4,548,009

| ARROWHEAD™ CONTROL JOINT MODEL NUMBERS | | |
|--|--------|-----------------------------------|
| <i>Available Colors: white</i> | | |
| ITEM NO. | LENGTH | PACKAGING |
| QP-781 (W) | 12 ft. | 240 ft./case, twenty 12-foot pcs. |

Unique arrow-shape presses easily into concrete - no channels to obstruct installation. Locks into concrete with minimum water seepage. A layer of peel off tape protects the top during installation.



DISCHARGE HOSE AND LINER LOCKS

QT-131, 132, 133, 261, 262: HEAVY DUTY DISCHARGE HOSE

| HEAVY DUTY DISCHARGE HOSE MODEL NUMBERS | | |
|---|--------------------------|----------------|
| ITEM NO. | LENGTH | ROLLS PER CASE |
| QT-131* | 1½" x 25' with clamp | 6 |
| QT-132* | 1½" x 50' with clamp | 6 |
| QT-133 | 1½" x 200' without clamp | 1 |
| QT-261 | 2" x 200' without clamp | 1 |
| QT-262* | 2" x 50' with clamp | 5 |

* Available in shrink-wrap packaging.



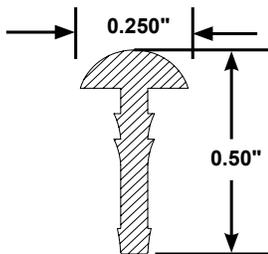
- Highest quality vinyl discharge hose, 20% thicker than the competition.
- Most popular sizes are shrink-wrapped in retail-friendly packaging for best shelf visibility and easier handling.
- Stainless steel clamp included with retail-size rolls.
- Color-coded for easy identification and convenient inventorying.
- Highest quality made in America.

LINER BEAD WEDGE LOCK

| LINER BEAD WEDGE LOCK MODEL NUMBERS | | | |
|-------------------------------------|-----------------|----------------------------|---|
| ITEM NO. | LENGTH | COLOR | PACKAGING |
| QP-1561 | 1500 ft. | White | 1 spool |
| QP-1562 | 120 ft. per bag | White | 12 bags per box |
| QP-1564 | 120 ft. per bag | Blue | 12 bags per box |
| QP-1566 | 120 ft. per bag | Black | 12 bags per box |
| QP-1568 | 120 ft. per bag | Gray | 12 bags per box |
| QP-1560-Variety | 120 ft. per bag | White, Black, Gray, & Blue | 3 bags of each color (12 bag total in case) |



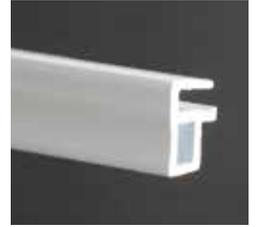
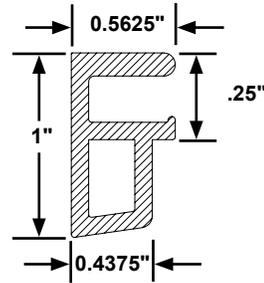
High-quality flexible vinyl designed as a wedge (or shim) to secure liner bead to coping track. Available in white, blue, black, and gray.



QP-521: SIDE MOUNT LINER TRACK

| SIDE MOUNT LINER TRACK MODEL NUMBER | | |
|-------------------------------------|--------|---------------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-521 | 8 ft. | 400 ft./case, fifty 8-foot pcs. |

Mounts on the side of pool walls to hold liner securely. Ideal for pools in which coping cannot be easily removed or for installing liners in concrete pools. White PVC.

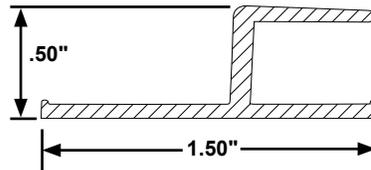


ALL DIMENSIONS ARE NOMINAL

QP-531: TOP MOUNT LINER TRACK

| TOP MOUNT LINER TRACK MODEL NUMBER | | |
|------------------------------------|--------|--------------------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-531 | 8 ft. | 512 ft./case, sixty four 8-foot pcs. |

Ideal for new pools or installing a liner in a pool with easily removable coping or with broken coping. Install Top Mount Liner Track on top of the pool wall to hold liner securely. White PVC.



ALL DIMENSIONS ARE NOMINAL

QP-532: 6" RADIUS CORNER FOR TOP MOUNT LINER TRACK

| TOP MOUNT LINER TRACK MODEL NUMBERS | | |
|-------------------------------------|--------|-------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-532 | 24 in. | set of four 24 in. pcs. |

Perfectly matches Top Mount Liner Track (QP-531). These pre-notched corner lengths are easily shaped by hand to form any corner up to a 6" radius. White PVC.

QP-532

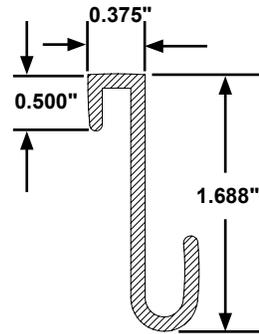


LINER HANGERS

QP-2581: ABOVE GROUND POOL REPLACEMENT LINER HANGER

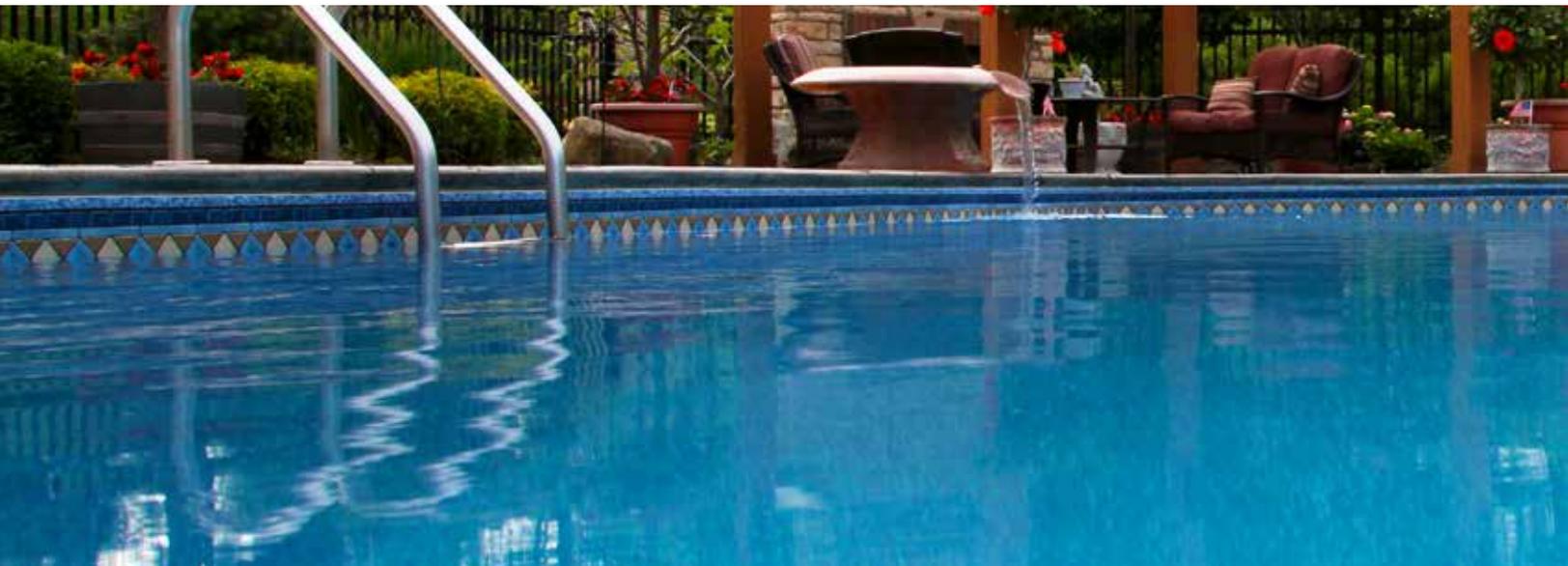
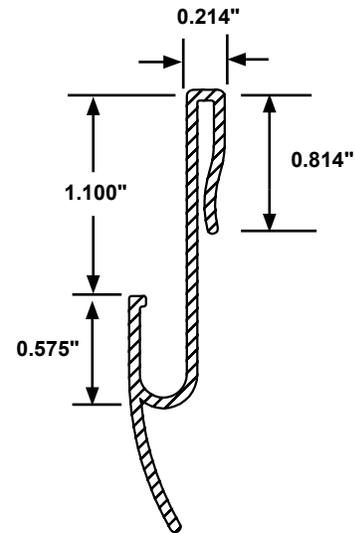
| ABOVE GROUND POOL REPLACEMENT LINER HANGER | | |
|--|--------|---------------------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-2581 | 56 in. | 266 ft./case, fifty seven 56 in. pcs. |

Hanger fits on top of pool walls to provide a liner bead receiver. Liners fit better with fewer or no wrinkles, conforms to pool interior. Easy to change liners, no need to disassemble pool. White PVC.



QP-7141: DELUXE ABOVE GROUND POOL REPLACEMENT LINER HANGER

| DELUXE ABOVE GROUND POOL REPLACEMENT LINER HANGER | | |
|---|----------|------------------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-7141 | 56.5 in. | 188 ft./case, forty 56.6" in. pcs. |



LINER HANGERS

QP-2681: CERAMIC TILE HOLDER FOR NEW POOLS

| CERAMIC TILE HOLDER MODEL NUMBER | | |
|----------------------------------|--------|----------------------------------|
| ITEM NO. | LENGTH | PACKAGING |
| QP-2681 | 6 ft. | 120 ft./case, twenty 6-foot pcs. |

You can create the elegant look of a higher cost pool just by adding real tile to an ordinary vinyl liner pool built with Quaker's patented tile/coping system. Practical, as well as stylish, real tile protects the vinyl from ultraviolet deterioration that is so common in the Sunbelt.

This unique system has been tested for over thirty years on hundreds of pools and has withstood the harsh winters of the Northeast with amazing durability. Frost proof tiles are available from local tile distributors. Accommodates a 6" x 6" tile. White PVC.



QP-3162: SIGN HOLDER WITH "NO DIVING" SIGNAGE

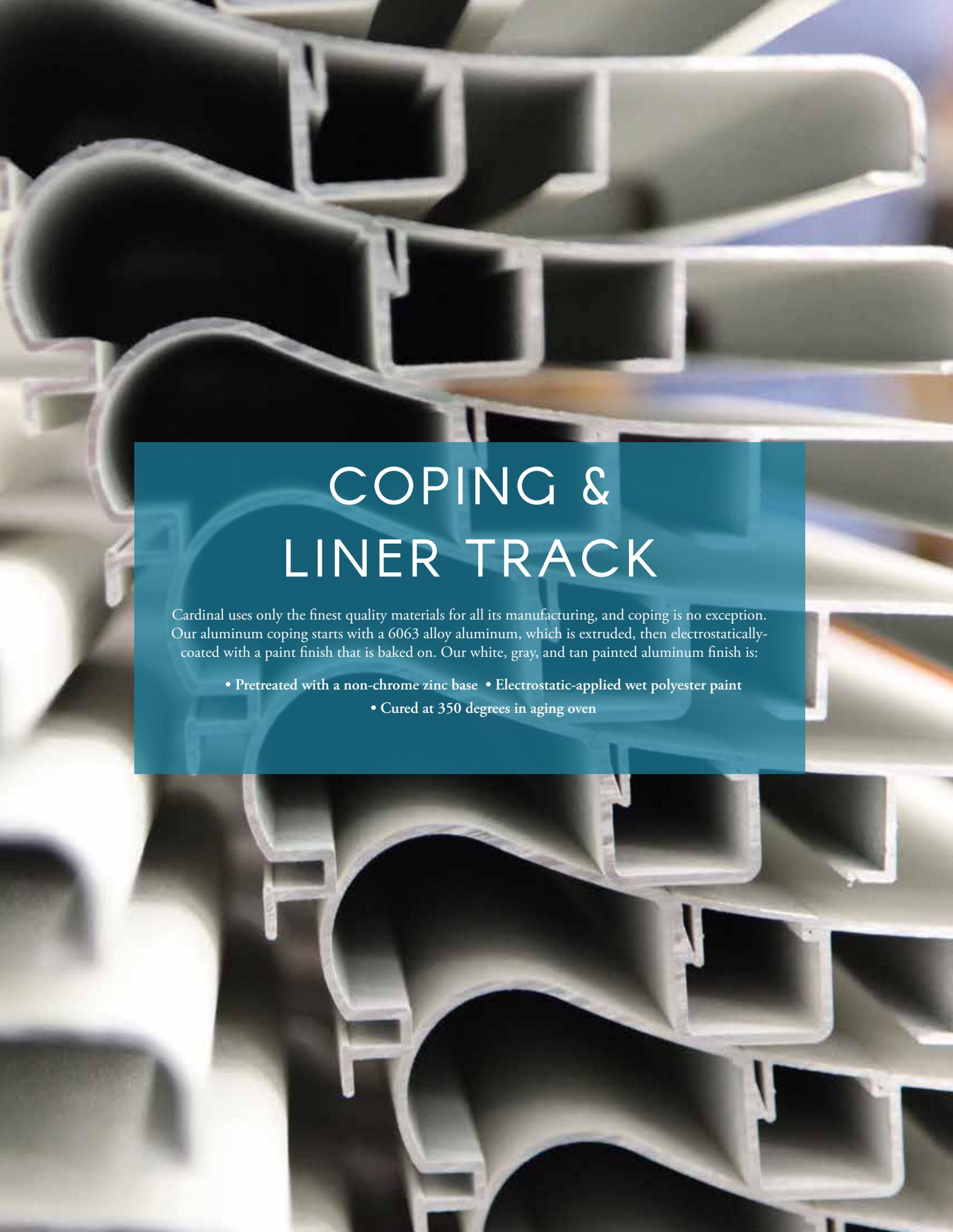
| SIGN HOLDER WITH "NO DIVING" SIGN MODEL NUMBER | | |
|--|---------------|---|
| ITEM NO. | LENGTH | PACKAGING |
| QP-3162 | 3½" h x 16¾"w | 200 sign holders with sign affixed per case |
| QP-3162-1 | 3½" h x 16¾"w | Single Piece |



The white plastic sign holder is ideal to display "No Diving" signs in new or existing vinyl liner pools. Patented lock-in edge snaps in above the existing liner bead.

The Sign Holder can be easily inserted around the pool as recommended by pool manufacturers. Here's a simple, clean, effective, and low cost way to equip all pools with important safety signage.

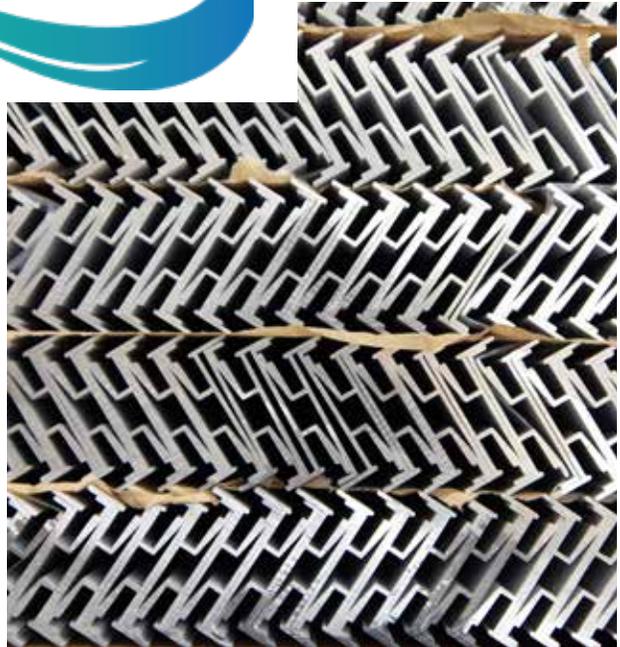




COPING & LINER TRACK

Cardinal uses only the finest quality materials for all its manufacturing, and coping is no exception. Our aluminum coping starts with a 6063 alloy aluminum, which is extruded, then electrostatically-coated with a paint finish that is baked on. Our white, gray, and tan painted aluminum finish is:

- Pretreated with a non-chrome zinc base
- Electrostatic-applied wet polyester paint
- Cured at 350 degrees in aging oven



FABRICATION METHODS

Cut and Weld

Cutting and welding is used to make angled transitions and odd corners that are unable to be bent. A non-bendable coping profile can be cut and welded in segments to create different radii.

Custom Fabrication and Coping Profiles

Cardinal is able to fabricate coping to meet almost any need, from free-form pools to odd plastic step kits to milling for water features. Cardinal has created many proprietary extrusions for customers. If you have a requirement for a custom or proprietary extrusion, please contact our Customer Service Department at 570-385-4733 or via email at customerservice@cardinalsystemsinc.com. We will be happy to discuss a solution for your requirements.

Please Note: If Cardinal coping or liner track is used in conjunction with a salt generator, all warranties from the extruder will be null and void. Cardinal Systems will not be liable for salt generator damage.

COPING INSTALLATION TIPS

Coping Installation

Coping profiles are attached to steel and polymer walls using self-tapping tek screws. Cardinal recommends placing these at intervals no greater than every 18".

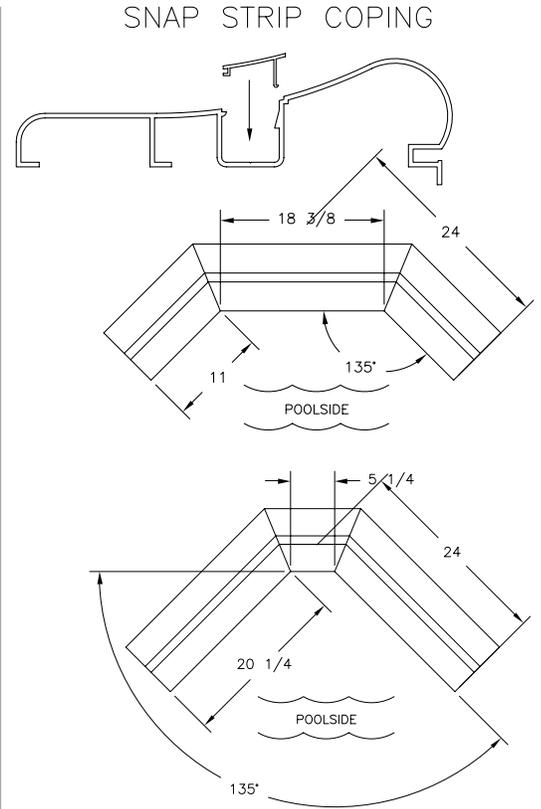
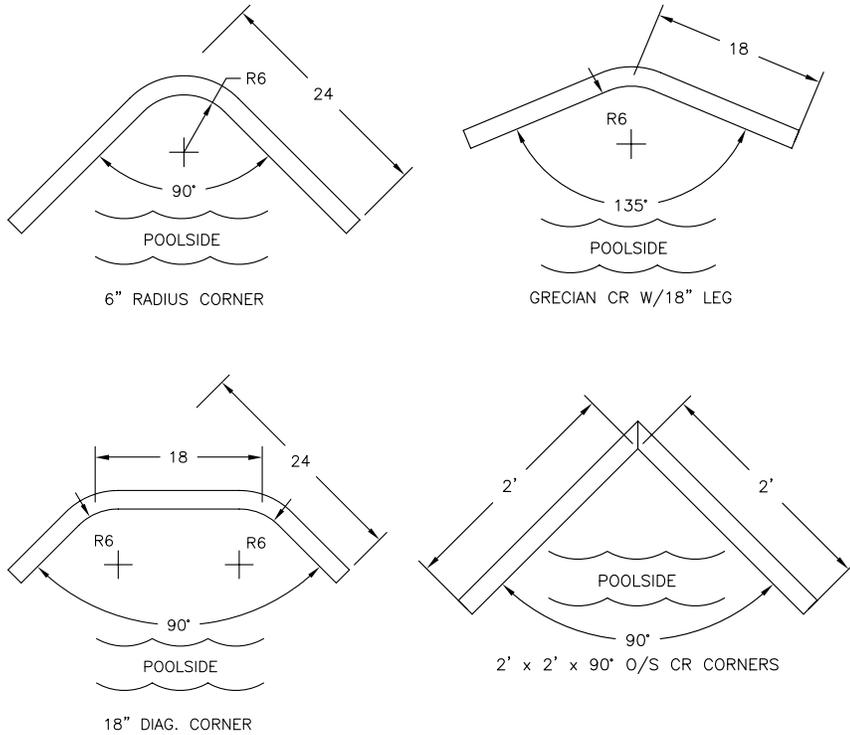
When coping is made for a pool, typically there will be some extra length that will need to be trimmed in the field. This is the best way to ensure a proper fit for each job. Though a hack saw will cut through most aluminum extrusions, Cardinal recommends using a miter saw, outfitted with an aluminum cutting blade for the most professional results. Coping profiles that form the finished edge of the pool, such as bullnose coping, will require coping clips to cover the joint between each piece of coping.

Bonding

Because Cardinal's coping is made from aluminum, it will need to be properly bonded. Follow your federal, state, and local electrical codes to be sure that coping is properly bonded.

COPING CORNER LENGTHS INSTALLATION

Shown below are corner lengths and dimensions.



COLOR GUIDE



NON-SKID WHITE



NON-SKID GRAY

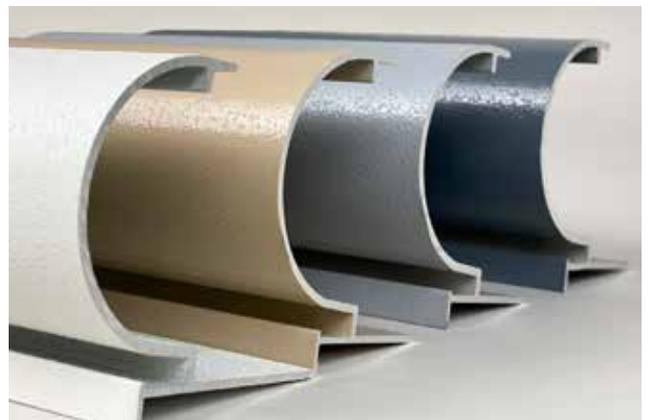


NON-SKID TAN



NON-SKID DARK GRAY

The color representations have been printed as closely as possible to actual colors, however, product color may vary from photograph.

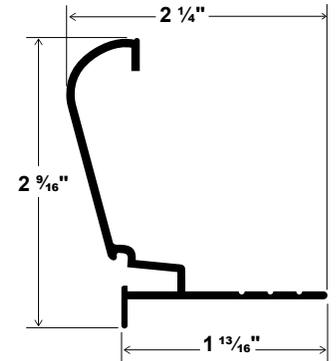
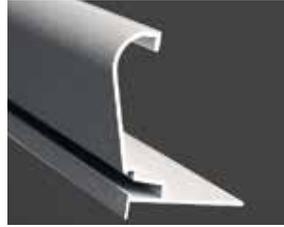


BULLNOSE COPING

PC

| PC BULLNOSE COPING | |
|--------------------|----------------|
| ITEM NO. | COLOR |
| PCW | Non-skid white |
| PCG | Non-skid gray |

Straights: 8' and 12' Lengths
 Radius: 4', 6', and 8' Lengths

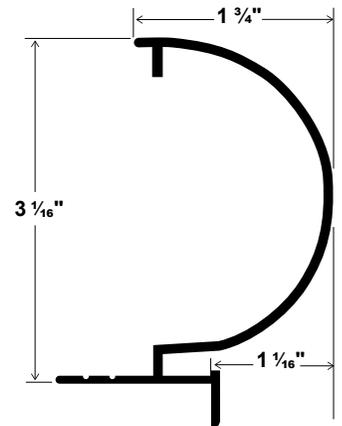
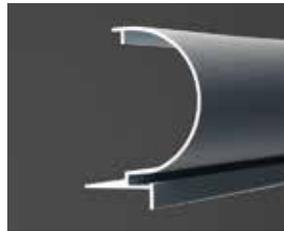


CB

| CB BULLNOSE COPING | |
|--------------------|----------------|
| ITEM NO. | COLOR |
| CBW | Non-skid white |

The CB coping has 3" profile and is similar in height to the original Helder style coping.

Straights: 8' and 12' Lengths
 Radius: 4', 6', and 8' Lengths

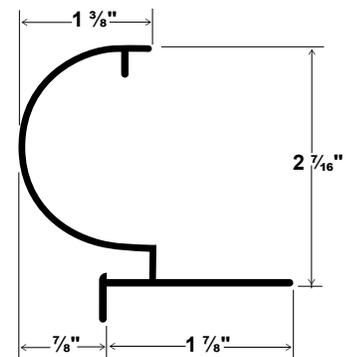
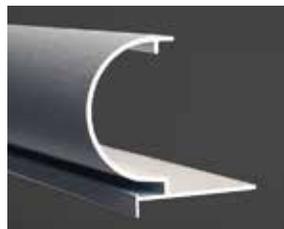


CR

This coping is also referred as "CP2".

| CR BULLNOSE COPING | |
|--------------------|--------------------|
| ITEM NO. | COLOR |
| CRW | Non-skid white |
| CRG | Non-skid gray |
| CRT | Non-skid tan |
| CRDG | Non-skid dark gray |

CRW - Straights: 8' and 12' Lengths
 CRG, CRT & CRDG - Straights: 8' Length
 All Radius: 4', 6', and 8' Lengths



We recommend using a bead roller to help lock liner bead into the liner receiver on all our liner tracks and coping.

BULLNOSE COPING

CAP LOCK COPING

CP/C4

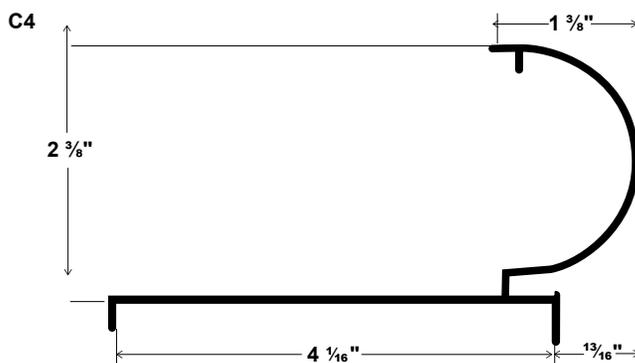
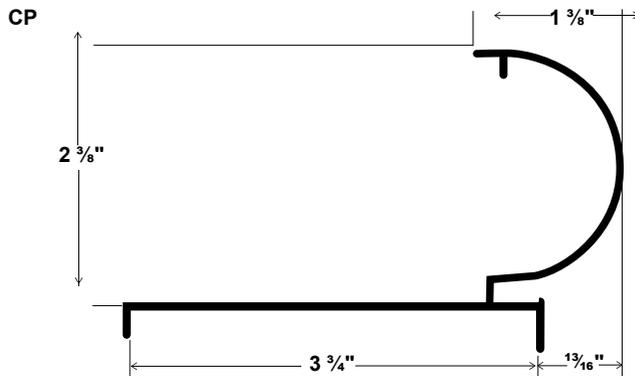
| CP/C4 BULLNOSE COPING | |
|-----------------------|----------------|
| ITEM NO. | COLOR |
| CPW | Non-skid white |
| C4W | Non-skid white |



The CP fits 3 3/4" flange polymer panels. The C4 fits 4" flange polymer panels. CPW is for Polymer Wall pools.

CPW - Straights: 8'

C4W - Straights: 12' Lengths



CP and C4 may be combined with the CR coping profiles to build corners and radius curves.



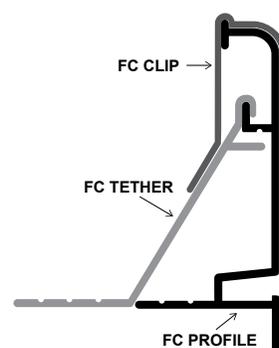
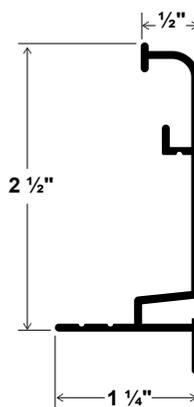
FC

| FC BULLNOSE COPING | |
|--------------------|----------------|
| ITEM NO. | COLOR |
| FCW | Non-skid white |
| FCG | Non-skid gray |



The FC is the only Bullnose Coping that can be bent in the field. This will allow for less SKUs and is available in notched. Clips and tethers support brace are sold separately.

8' Lengths



*Tethers are recommended every 2' and at joints.

Flex coping is not recommended for corners 2' rad or smaller.



TOP MOUNT

All liner track is made from heavy-duty, aluminum extrusion that is electrostatically coated.

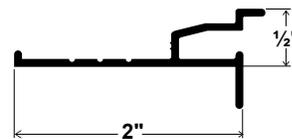
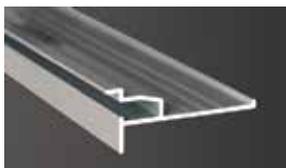
Custom Fabrication: Can be bent to fit any shape, including standard 6", 2', or 4' radius, Grecian corners, and steps. Ask about fabrication for other corner shapes.

Available in 8 ft. lengths only.

15 or 25 per case.

T2

| T2 TOP MOUNT TRACK | |
|--------------------|-------|
| ITEM NO. | COLOR |
| T2W | white |
| T2G | gray |



2" Top Mount Track is used for steel, polymer and concrete wall pools. The T2 is available in notched or straight lengths. Track works with Modern Moulding cantilever forms.

T3

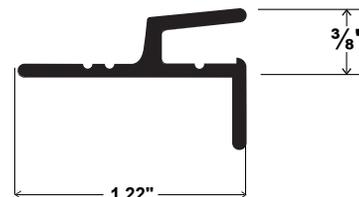
| T3 TOP MOUNT TRACK | |
|--------------------|-------|
| ITEM NO. | COLOR |
| T3W | white |



3" Top Mount Track is used for steel, polymer and concrete wall pools. The T3 is available in notched or straight lengths. Track works with Modern Moulding cantilever forms.

HZ

| HZ TOP MOUNT TRACK | |
|--------------------|-------|
| ITEM NO. | COLOR |
| HZW | white |
| HZG | gray |



HZ Top Mount Track is used for steel and polymer wall pools. The HZ is available in notched or rollbent. **Old and new tracks can be used together.**



All of our liner tracks are available in standard and custom notched lengths for free-form pools and radius corners.

LINER TRACK

SIDE MOUNT

All liner track is made from heavy-duty, aluminum extrusion that is electrostatically coated. Angled side mount track for reducing gap under old coping. Available in **WHITE** only.

Available in 8 ft. lengths only.

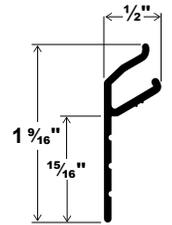
15 or 25 per case.

AS

| AS SIDE MOUNT TRACK | |
|---------------------|-------|
| ITEM NO. | COLOR |
| ASW | white |

The AS is available in 8' straight, 8' notched and 6" radius notched lengths. White only. The AS is designed to fit snugly under old pool coping, eliminating the gap other side mount tracks leave between coping and receiver track.

1. Turned-up lip reduces gap opening under old coping.
2. Includes nail and screw guides.
3. Angled receiver secures liner bead to prevent slipping.
4. Longer length allows more area to attach to wall.



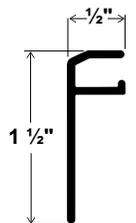
SM

| SM SIDE MOUNT TRACK | |
|---------------------|-------|
| ITEM NO. | COLOR |
| SMW | white |

The SM is available in 8' straight, 8' notched and 6" radius notched lengths. White only. For radius and free-form pools, use SM, a notched track that can be bent to conform to almost any radius.

This side mount track has these improved features:

1. Receiver area shortened 1/8" to bring liner closer to pool wall.
2. More screw guides to keep self-drilling screws from wandering when drilling through mounting flange to pool wall.
3. Longer mounting flange for easier attachment to different types of pool wall.

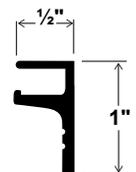


VT

| SM SIDE MOUNT TRACK | |
|---------------------|-------|
| ITEM NO. | COLOR |
| VTW | white |

The VT is available in white only. It can be bent to fit any shape, including standard 6", 2' or 4' radius corners as well as steps.

The VT can be roll-bent at the factory for almost any shape free-form pool. This profile can also be bent on-site without being notched to fit most radii, down to 2' radius.



CAP LOCK

HC

| HC CAP LOCK | |
|-------------|-------|
| ITEM NO. | COLOR |
| HCW | white |

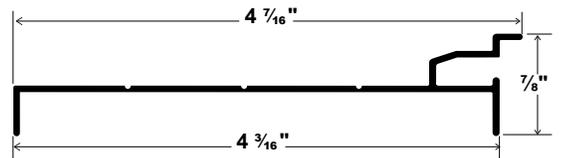
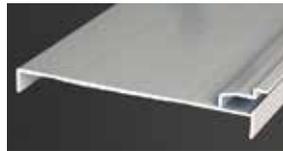


The HC is available in white only and comes in 8' straight lengths in counts of 15 pieces per box. The HZ series can be used with the HC to make corners. HC Cap Lock Liner Track is used for polymer wall pools.

1. Liner bead receiver specially designed to ensure positive lock-in.
2. Screw Guides.
3. Designed to fit any pool with a 3 3/4" wide top flange.
4. Holds polymer pool walls straight.
5. Front and rear flanges to lock on pool wall.

T4

| T4 CAP LOCK | |
|-------------|-------|
| ITEM NO. | COLOR |
| T4W | white |



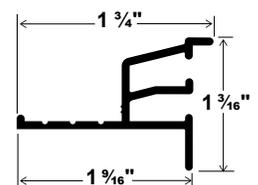
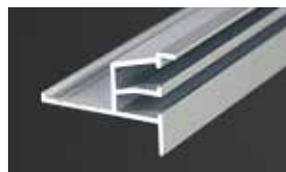
The T4 is available in white only and comes in 12' straight lengths in counts of ten pieces per box. The T2 notched can be used with the T4 to make corners. T4 Cap Lock Liner Track is used for polymer wall pools. Track works with Modern Moulding cantilever forms.

1. Liner bead receiver specially designed to ensure positive lock-in.
2. Screw Guides.
3. Designed to fit any pool with a 4" wide top flange.
4. Holds polymer pool walls straight.
5. Front and rear flanges to lock on pool wall.

DOUBLE TRACK

DT

| DT DOUBLE TRACK | |
|-----------------|-------|
| ITEM NO. | COLOR |
| DTW | white |
| DTG | gray |



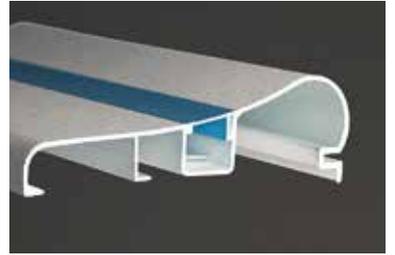
The DT is available in white or gray and comes in 8' straight or notched lengths in counts of 15 pieces per box. Track works with Modern Moulding cantilever forms.

SNAP STRIP COPING

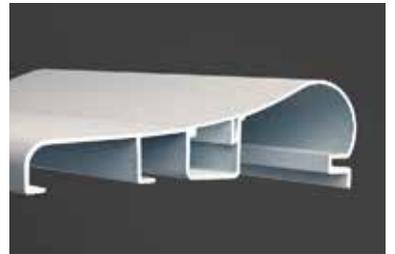
SS

| SNAP STRIP COPING | |
|-------------------|------------------------------|
| ITEM NO. | COLOR |
| SSW | Non-skid white/white inserts |
| SSB | Non-skid white/blue inserts |

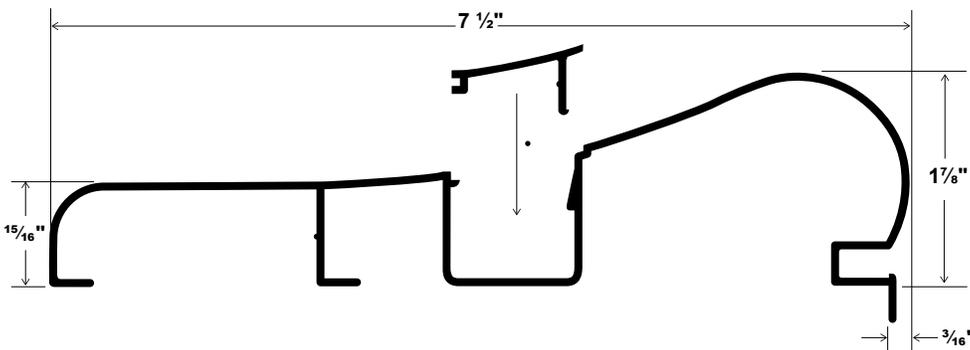
The SS comes in 12' and 16' straight lengths in counts of 1 or 2 pieces. The SS comes in standard configurations for most rectangular pools including an 18" diagonal, 6" radius, 90°, and 135° Grecian corners. Other sizes can be cut and welded to fit many curves, including reverse 6" radius, 270°, 4' corners, and full radius ends for oval pools. The SS (Snap Strip Copping) is an ideal coping for pool renovations.



Shown with blue insert



Shown with white insert

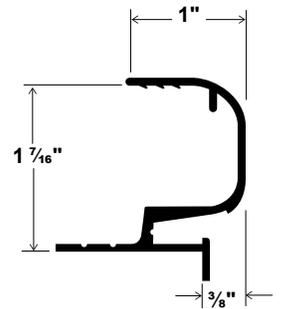
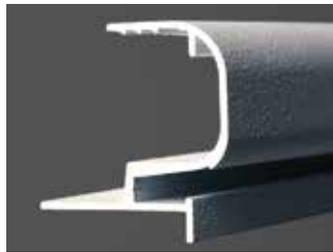


WOOD RECEIVER COPING

CG

| CG WOOD RECEIVER COPING | |
|-------------------------|----------------|
| ITEM NO. | COLOR |
| CGW | Non-skid white |

The CG comes in 12' straight lengths in counts of 6 pieces. The CG is designed to receive standard 1 1/4" (5/4" board) decking and is popular for on-ground pools or pools surrounded by wooden decks. Cut and welded corners only.



Lengths can be cut for UPS shipping.

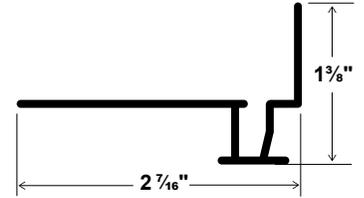
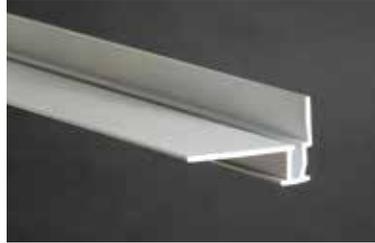


CONCRETE LINER TRACK

CC

| CC LINER TRACK | |
|----------------|-------|
| ITEM NO. | COLOR |
| CCW | white |

The CC is available in white only and comes in 8' straight lengths, 15 pieces per case. Used for concrete step applications.

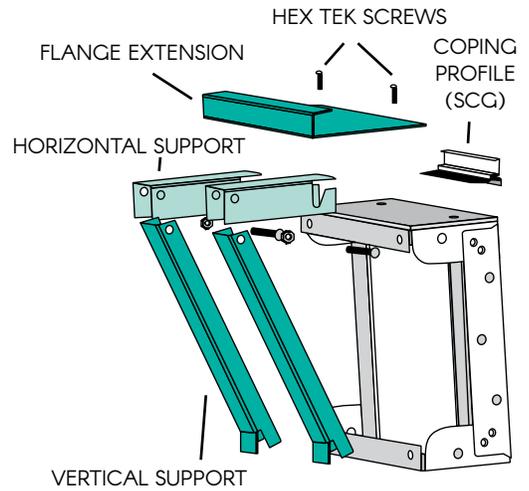


SPECIALTY PROFILES

STONE COPING SUPPORT SYSTEM

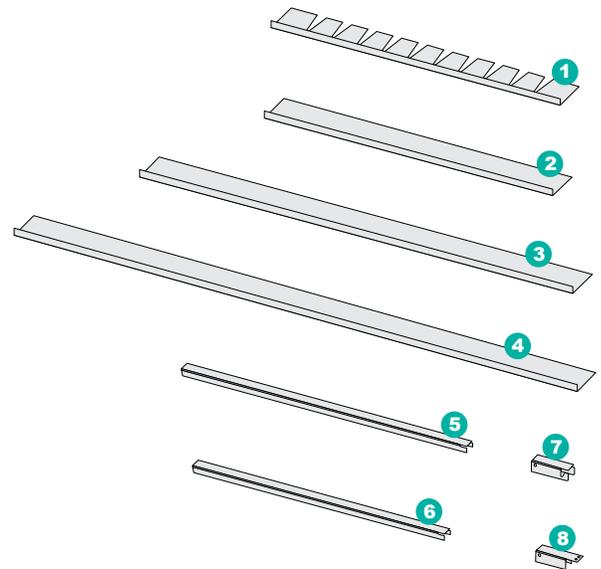
* not recommended for Polymer Pools

| STONE COPING SUPPORT SYSTEM COMPONENTS | | |
|--|-------------|--|
| ITEM NO. | PART NUMBER | DESCRIPTION |
| 1 | CS748EXR | 4' Radius Coping Support Shelf |
| 2 | CS748EX | 4' Straight Coping Support Shelf |
| 3 | CS772EX | 6' Straight Coping Support Shelf |
| 4 | CS796EX | 8' Straight Coping Support Shelf |
| 5 | CS748CL | Vertical Coping Support - 48" high |
| 6 | CS710CL | Vertical Coping Support - 42" high |
| 7 | CS710CS | Horizontal Coping Support - Steel |
| 8 | CS710CSP* | Horizontal Coping Support - Plastic Step |
| 9 | BPS30DB | Versa Brace Bolt Pack (Qty. to do 30 braces) |
| 10 | BP000TS | #12 x 1 Hex Tek Screws - 110/Box |



Special features of Cardinal's Stone Coping Support System:

- Manufactured of 14 gauge galvanized steel and can be used on all Cardinal steel pool kits.
- Provides 10" wide base for attachment of stone coping or pavers.
- Weight of coping stones is supported by a channel that is locked into collar.
- Use a pea gravel or small aggregate mix to make finishing easier.
- Eliminates excavation for second bond beam as well as additional concrete deliveries.

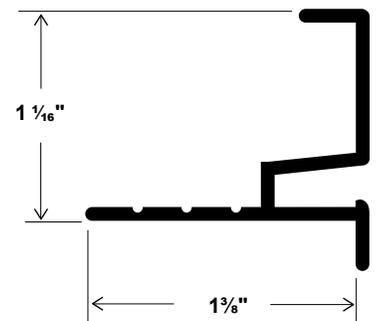
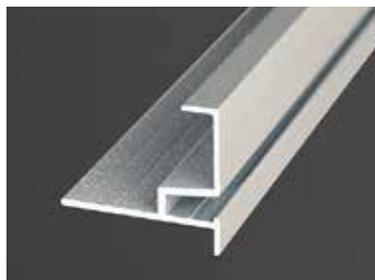


STONE COPING LINER TRACK

SC

| CG WOOD RECEIVER COPING | |
|-------------------------|---------------|
| ITEM NO. | COLOR |
| SCG | Non-skid gray |

The SC comes in 8' straight lengths sold by the piece. The SC is a top mount liner track for Cardinal's stone coping support system and can be notched for custom bending on site. CS710CSP only used for thermo stairs.



VINYL TRIM SEAL

| VINYL TRIM SEAL | |
|-----------------|----------------------|
| ITEM NO. | DESCRIPTION |
| TS1-120W | White, One 120' Roll |
| TS1-120G | Gray, One 120' Roll |

The TS1 Trim Seal will seal off the top track of the DT Double Top Mount Liner Track after it has been used to lock cantilever deck forms in place during pool constructions.

**Picture is shown using Trim Seal in conjunction with step liner track.*



PAL REPLACEMENT CLIPS

| PAL REPLACEMENT CLIPS | |
|-----------------------|---|
| ITEM NO. | DESCRIPTION |
| PALSTR | 1 1/2" x 9" For Straight Coping Joints |
| PALCRN | 1 1/2" x 10" For Corner Coping Joints |



ZINC TEK SCREWS

| ZINC TEK SCREWS | |
|-----------------|-------------------------|
| ITEM NO. | DESCRIPTION |
| BP000TS | 110 #12 - 1" Tek Screws |

NON-SKID TOUCH-UP PAINT

| NON-SKID TOUCH-UP PAINT | |
|-------------------------|--|
| ITEM NO. | DESCRIPTION |
| CRW-NONSKID | 12 Oz. Spray Can Texture White Covers 8-10 Sq Ft |
| CRG-NONSKID | 12 Oz. Spray Can Texture Gray Covers 8-10 Sq Ft |
| CRDG-NONSKID | 12 Oz. Spray Can Texture Dark Gray Covers 8-10 Sq Ft |
| CRT-NONSKID | 12 Oz. Spray Can Texture Tan Covers 8-10 Sq Ft |
| CRW-QUART | 1 Qt. Touch-Up Texture White Covers 50 Sq Ft |

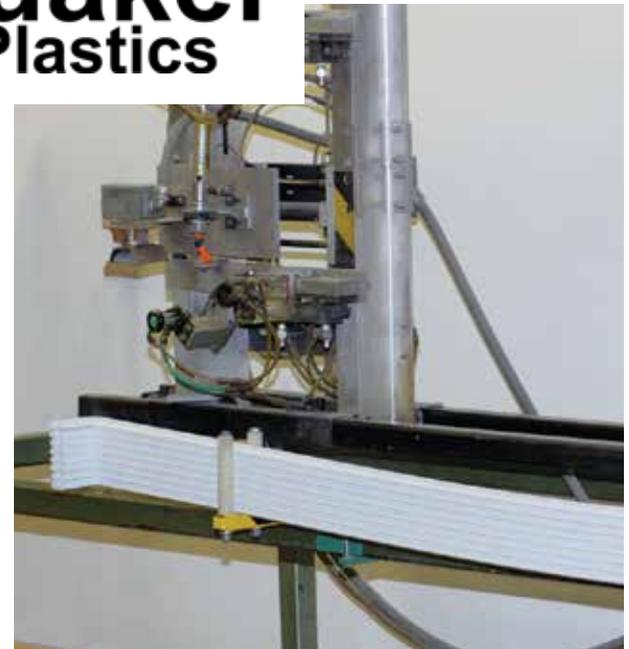
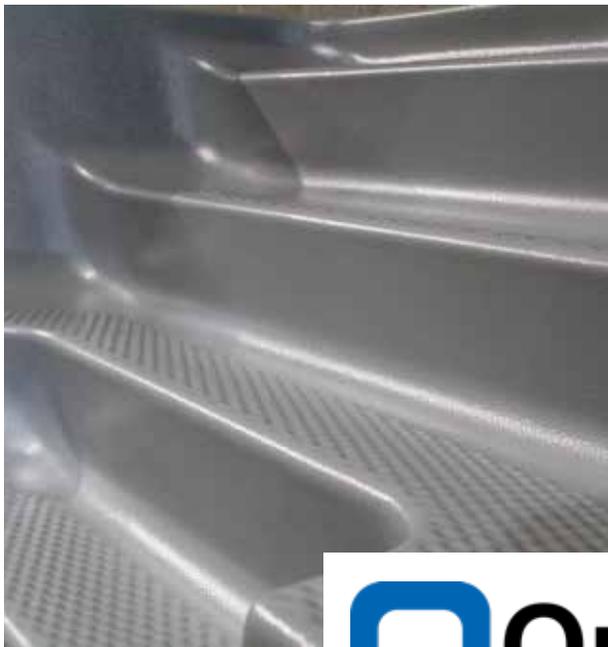




THERMOPLASTIC STEPS

Our thermoplastic stairs are flexible, strong, and built to withstand the elements. Not only is the strength built into the stair itself, every stair has a support system which is also set in concrete. The stairs are vacuum-formed from a single piece of ABS. Many shapes and styles are available in our Quaker Step Line, including contour, cantilever, in-wall ladder, leisure bench and corner.

All steps are white with select models available in solid gray.



TLC – TOTAL LINER CARE

Our patented radius corner stair mount face plate is rounded at each bottom corner, attaching with the side face plates for a truly professional look. Smooth corners mean no sharp edges inside the pool, eliminating a possible hazard during liner installation and providing added protection for pool users. When a liner replacement is necessary, face plate screws are easily removed.

PRECISION GROOVED FACEPLATE

The back of the smooth, radius corner Stair Mount Face has been designed with ridges and grooves to ensure a leak-tight seal between the stair gasket and liner. This engineered, leak-tight system has been proven in over 250,000 installations.

COLOR MATCHED PRE-PUNCHED GASKET

Our gasket blends with the stair and liner edge for a beautiful, color matched installation. The pre-punched gasket means an easier, quicker installation and assures that no gasket material will be wedged into the screw hole and cause leakage for a beautiful, color matched installation.

IMPROVED TRIM STRIP

The trim strip, used to conceal the screws, is made from color matched, flexible plastic material. It can be easily pressed into the holding track and easily removed.

PERMANENT DEADEND BLOCK

Both the Quaker Step and Cardinal Step easily adapts to all swimming pools. Our unique Deadend Block design helps ensure watertight installation. A permanent, solid plastic Deadend Block is securely bonded at the factory. This block totally encapsulates all screws, assuring a non-leak installation.

IN-POOL STAIRS

White



QP-0004S
4' 3-tread Straight



QP-0064S
6' 4-tread Straight



QP-0064SC
6' 4-tread Straight Cantilever



QP-0064R
6' 4-tread Radius



QP-0084TS
8' 4-tread Twin Seat/Step Straight

ALSO AVAILABLE:

QP-0064RC
6 ft. 4-tread Radius Cantilever

QP-0085TR
8 ft. 5-tread Twin Seat/Step
Radius 48" High

QP-0085TRC
8 ft. 5-tread Twin Seat/Step
Radius Cantilever 48" High

QP-0085TSC
8 ft. 5-tread Twin Seat/Step
Straight Cantilever 48" High

QP-4063C48
90 Degree 3-tread Corner Twin
Seat/Step Cantilever 48" High



QP-0084TSR
8' 4-tread Twin Seat/Step Radius



QP-0084TSC
8' 4-tread Twin Seat/Step Straight Cantilever



QP-4063C42
6' 3-tread 90° Corner
Twin Seat/Step Cantilever



QP-0084TRC
8' 4-tread Twin Seat/Step Radius Cantilever



QP-1000NR
In-pool Ladder, Without Rails



QP-0006IWS
6' In-wall Seat



QP-0085TS
8' 5-tread Twin Seat/Step
Straight, 48" Wall Height

The color representations have been printed as closely as possible to actual colors, however, actual stair color may vary from photograph.

Please call Customer Service for additional information.

CONTROLLED FLEXIBILITY

All-plastic channels are permanently bonded to the underside of each tread, providing controlled flexibility. These patented, heavy-duty, extra-wide channels mean optimum strength while still allowing the stairs enough flexibility to withstand freezing and thawing.



LOCK DOWN BLEACHER SYSTEM

FAST • EASY • SIMPLE

The entire Lock Down Bleacher System™ is preassembled at the factory so there are no lost nuts or bolts. Stair support posts simply snap down and lock into place.

The molded bottom shoes easily flip to the horizontal position and the stair is ready for installation. Precision-engineered leveling support posts and bottom shoes are permanently hinged at the factory to the Ridg-A-Dized support channel, strategically located under each tread.

Leveling and support posts, along with the support shoes, are pre-drill for rebar. Install rebar through holes, cover with concrete, and stair is ready for final leveling before concrete hardens. No blocks, no nuts or bolts, no make-shift leveling/support methods, no costly labor or materials.

Result: Level stairs with bleacher-type stability, strength, and support.



IN-POOL STAIRS

Solid Gray



QP-0084TSCG

8' 4-tread Twin Seat/Step Straight Cantilever



QP-4063C42G

6' 3-tread 90° Corner Twin Seat/Step Cantilever



QP-0064SCG

6' 4-tread Straight Cantilever



QP-0084TRCG

8' 4-tread Twin Seat/Step Radius Cantilever



QP-1000NRG

In-pool Ladder, Without Rails

Photographs may not be representative of color. Actual stair color may vary from photograph.

NEUTRAL POOL TRENDS

Trending nationwide, the use of muted grays and neutral colors as an additional option to the classic white Thermoplastic Steps seems to be a growing desire aesthetically for Homeowners.

Our Solid Gray color option will match well with our solid gray coping, liner bead, darker liner patterns, and additional features offered by Cardinal to complete a pool with a sleek design.

THE BENEFITS

- *Resistance to fading*
(better UV protection in the mold makeup to hold up against years of sun exposure.)
- *Simple maintenance/repair*
(steps are repaired quickly without losing appearance or color.)
- *Material used can be recycled and reused in new models for a more environmentally friendly product*
- *Stronger bonds during forming*
- *TLC Corners*
(hole prevention during liner installation.)



THERMOPLASTIC STAIR PARTS KIT

THERMOPLASTIC STAIR PARTS KIT

| STAIR PARTS KIT | |
|-----------------|--|
| ITEM NO. | DESCRIPTION |
| H3-6037 | Stair Mount Caps (White) |
| H3-6072 | Stair Mount Caps (Gray) |
| QG-6623-18 | 18 ft. Trim Cover w/ 2 Corner Pieces (White) |
| QG-6623G18 | 18 ft. Trim Cover w/ 2 Corner Pieces (Gray) |
| Part # Varies | Side Gaskets |
| Part # Varies | Bottom Gasket |
| Part # Varies | Bottom Faceplate |
| Part # Varies | Side Faceplates |

Example below is our 8ft. 4-tread Twin Seat/ Step Straight (QP-0084TS). Other step kits are available.*



TLC® TOTAL LINER CARE

Our patented radius corner stair mount face plate is rounded at each bottom corner, connecting with the side face plates for a truly professional look. Smooth corners mean no sharp edges inside the pool, eliminating a possible hazard during liner installation and providing added protection for pool users. When a liner replacement is necessary, face plate screws are easily removed.



PRECISION GROOVED FACEPLATE

The back of the smooth, radius corner Stair Mount Face has been designed with ridges and grooves to ensure a leak-tight seal between the stair gasket and liner. This engineered, leak-tight system has been proven in over 250,000 installations.



COLOR MATCHED PRE-PUNCHED GASKET

Our gasket blends with the stair and liner edge for a beautiful, color matched installation. The pre-punched gasket means an easier, quicker installation and assures that no gasket material will be wedged into the screw hole and cause leakage for a beautiful, color matched installation.



IMPROVED TRIM STRIP

The trim strip, used to conceal the screws, is made from color matched, flexible plastic material. It can be easily pressed into the holding track and easily removed.



PERMANENT DEADEND BLOCK

The Quaker Stair easily adapts to all swimming pools. Our unique Deadend Block design helps assure watertight installation. A permanent, solid plastic Deadend Block is securely bonded at the factory. This block totally encapsulates all screws, assuring a non-leak installation.



NEW FOR 2026!



NEW UNIVERSAL FACEPLATE

Our Universal Faceplate seals the liner to the face of the Thermoplastic Step.

The universal kit can be cut and mounted to a variety of shapes of steps. The kit includes the faceplate track, gasket and seal.

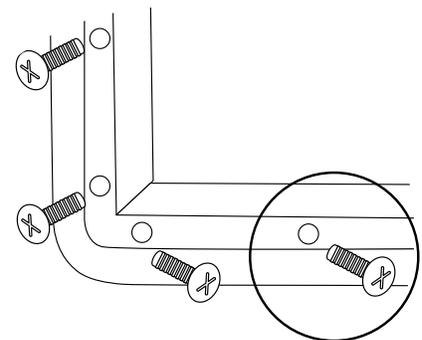
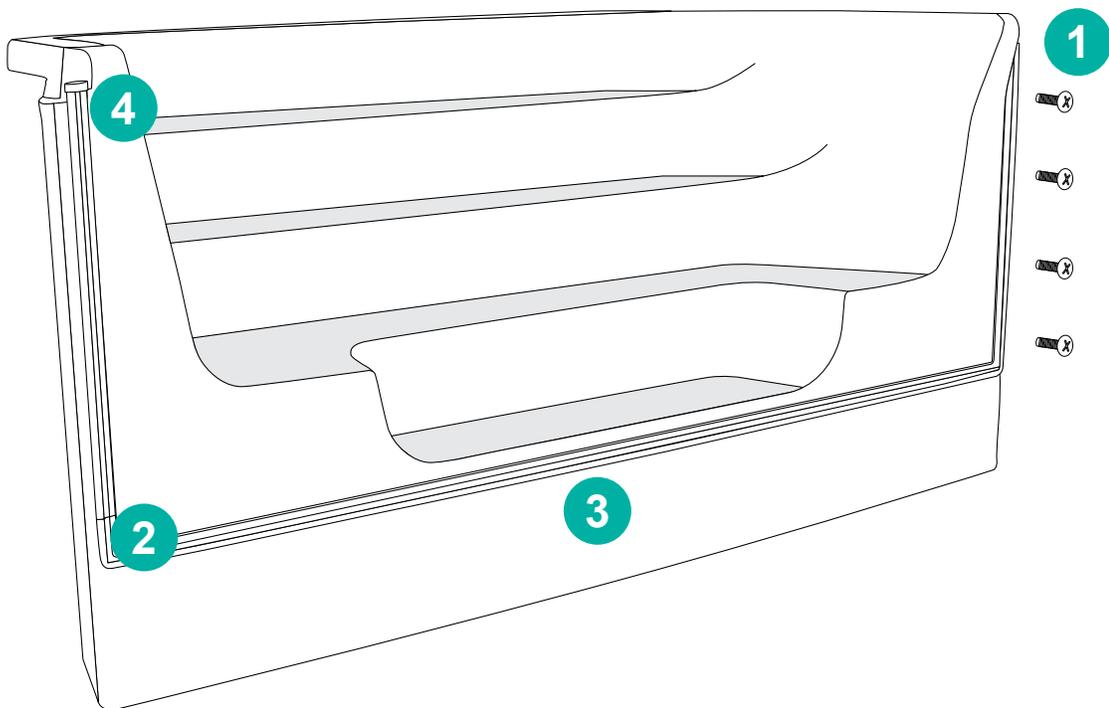
PK-UNIV

Universal Faceplate

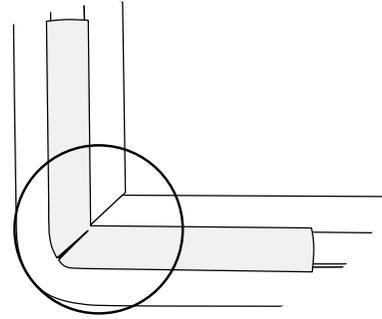
GOODIE BAG

GOODIE BAG

| GOODIE BAG | |
|------------|---|
| ITEM NO. | DESCRIPTION |
| QG-60194 | 15/16" #10 Stainless Steel Screws - Qty. 50 w/ Stair Mount Caps (W,H3-6037) or (G,H3-6072) - Qty. 2 |
| QG-6623-18 | 18 ft. Trim Cover, 2 Corner Pieces (White) |
| QG-6623G18 | 18 ft. Trim Cover, 2 Corner Pieces (Gray) |

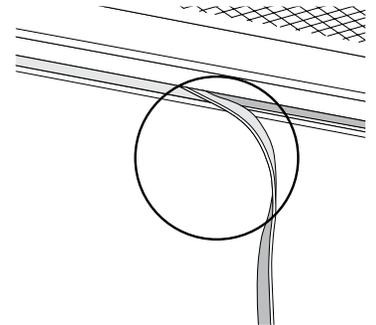


1. STAINLESS STEEL SCREWS
Used to attach faceplates to the steps.



2. TRIM COVER CORNER PIECES

Fits into corners of the holding track on the faceplate. One for each corner.



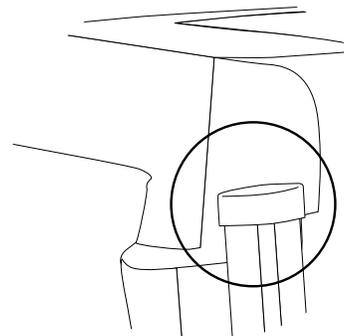
3. TRIM COVER

Fits into holding track of the faceplate to conceal screws.



4. STAIR MOUNT CAPS

Fits on top of the faceplate. One for each side of the step.





CARDINAL *Luxury Spas*

ESCAPE AWAY TO YOUR BACKYARD

for a truly relaxing experience in a Cardinal Luxury Spa. Made with precision and the highest quality product coupled with state-of-the-art features, a spa addition can provide endless rejuvenation all year long. Our Standard and Spill-Over options allow you to choose the function and movement of your outdoor living space. Available in two sleek color variations, a Cardinal Spa is simply an extension of elegance to any pool.

SIT & *stay* awhile

A Cardinal Spa provides a space to relax and unwind all year long. With features like stainless steel jets, built-in filtration system, adjustable air control, easy-entry steps and more, your spa will not only function properly, but guarantee a truly tranquil and calming experience for any occasion.

For a true staycation destination, allow Cardinal Spas to elevate the luxury and elegance of your backyard. With different jet count options, 2 sophisticated and enticing colors to choose from, and options for Standard or Spill-Over style, you can customize your Spa to tailor to your needs and the layout of your landscape.



LUXURY SPAS

STANDARD (NON-SPILLOVER):

- W17-PMR12SS**
Spa Round 12 Jet, Sterling Silver
- W17-PMS12SS**
Spa Square 12 Jet, Sterling Silver
- W17-PMS25SS**
Spa Square 25 Jet, Sterling Silver
- W17-PMR12SC**
Spa Round 12 Jet, Storm Cloud
- W17-PMR25SC**
Spa Round 25 Jet, Storm Cloud
- W17-PMS25SC**
Spa Square 25 Jet, Storm Cloud

SPILLOVER:

- W17-WFR12SS**
Spa Spillover Round 12 Jet, Sterling Silver
- W17-WFS12SS**
Spa Spillover Square 12 Jet, Sterling Silver
- W17-WFS25SS**
Spa Spillover Square 25 Jet, Sterling Silver
- W17-WFR12SC**
Spa Spillover Round 12 Jet, Storm Cloud
- W17-WFR25SC**
Spa Spillover Round 25 Jet, Storm Cloud
- W17-WFS25SC**
Spa Spillover Square 25 Jet, Storm Cloud



W17-PMR25SS
Spa Round
25 Jet, Sterling Silver



W17-WFR25SS
Spa Spillover Round
25 Jet, Sterling Silver



W17-PMS12SC
Spa Square
12 Jet, Storm Cloud



W17-WFS12SC
Spa Spillover Square
12 Jet, Storm Cloud



The color representations have been printed as closely as possible to actual colors, however, actual spa shell colors may vary from photograph.

SPA FEATURES

Cardinal Luxury Spas are manufactured to the highest quality standards, while state-of-the-art features give you the ultimate experience in relaxation. All Spas are pre-plumbed and water tested to ensure a leak-free installation.

| | ROUND 12 JET | ROUND 25 JET | SQUARE 12 JET | SQUARE 25 JET |
|---|--------------------------------|-----------------------|------------------------|------------------------|
| Easy Entry Steps | • | • | • | • |
| Hydrotherapy Stainless Steel Jets | • | • | • | • |
| Colors | STERLING SILVER OR STORM CLOUD | | | |
| Interior Embossed Wave Detail | • | • | • | • |
| Adjustable Air Control | • | • | • | • |
| 360-Degree Vortex Skimmer | • | • | • | • |
| Built-in Filtration | • | • | • | • |
| Reusable 50 sq.ft. Cartridge Filter | • | • | • | • |
| Diverter Valve for Whirlpool Action | | • | | |
| Dimensions | 85" Round 34" Deep | 85" Round 34" Deep | 84" Square 34" Deep | 84" Square 34" Deep |
| Optional Covers <i>(please speak with your Cardinal Representative for more details)</i> | • | • | • | • |

BUILT-IN FILTRATION

Cardinal Luxury Spas feature a built in 360-degree vortex skimmer with reusable cartridge filter.



HYDROTHERAPY

Cardinal Luxury Spas offer a special grouping of high-powered hydrotherapy jets. These fully adjustable stainless-steel jets offer the finest relaxation and revitalization experience by targeting the entire back and shoulder region.



DECORATIVE BORDER

Cardinal offers Luxury Spas in sterling silver or storm cloud with optional 12 or 25 jet systems. Each color option comes with a decorative border that adds an extra touch of elegance to each spa.

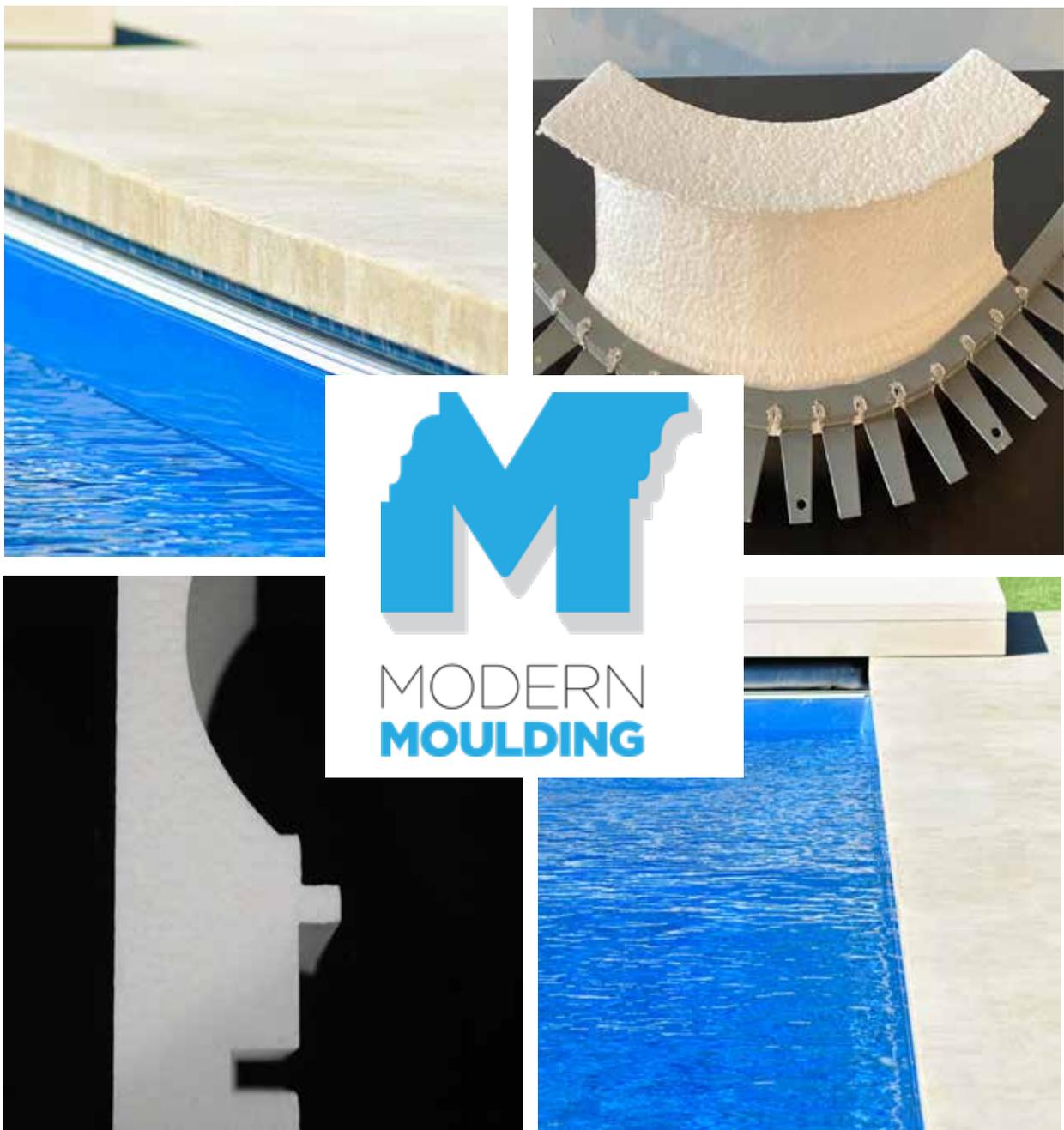


Cardinal Luxury Spas do not meet commercial installation code.

A photograph of a swimming pool with a lounge chair and a stone wall in the background. The pool water is a vibrant blue, and the lounge chair has white cushions and a grey and white striped pillow. The stone wall is made of large, light-colored blocks. The background features a well-manicured green hedge and a black metal fence.

MODERN MOULDING

Modern Moulding is a leading manufacturer of cantilever coping styrofoam forms. The innovative system designed by Modern Moulding can cut hours off installation and cleanup time. With one of our offered coping kits, a standard pool can be set up and ready to pour in as little as one hour. Versatility is provided with a variety of profile designs, as well as installation capabilities for vinyl, fiberglass, and concrete/gunite pools.



BENEFITS:

- Can combine forms onto existing Cardinal & Quaker shipments at no additional cost.
- No two-way tape required
- Easy to install

VINYL LINERS ONLY

- Forms wedge directly into liner track, leaving track clean of debris.
- Modern Moulding's Vinyl Liner system uses reusable lock-in clips to hold the forms in place. These clips have an extended support to keep the forms from tilting when concrete is poured.

COPING PROFILES

COPING PROFILES FOR VINYL LINER POOLS

| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|---|
| CAR-NC | 8' STYRO CAPSTONE VINYL LINER- 14/BX |
| CAR-NC-32 | 8' STYRO CAPSTONE VINYL LINER- 4/BX |
| CAR-SQP | 8' STYRO SQUARE VINYL LINER- 14/BX |
| CAR-SQP-32 | 8' STYRO SQUARE VINYL LINER- 4/BX |
| CAR-BN | 8' STYRO BULLNOSE VINYL LINER- 14/BX |
| CAR-BN-32 | 8' STYRO BULLNOSE VINYL LINER- 4/BX |
| CAR-CRC | 8' STYROFOAM VINYL LINER- 14/BX |
| CAR-CRC-32 | 8' STYROFOAM VINYL LINER- 4/BX |
| CAR-ICC | 8' STYRO VINYL LINER- 14/BX |
| CAR-ICC-32 | 8' STYRO VINYL LINER- 4/BX |
| CAR-NC-6RAD | 6' CAPSTONE VINYL LINER RADIUS CORNER -4/BX |
| CAR-BN-6RAD | 6' BULLNOSE VINYL LINER RADIUS CORNER -4/BX |
| CAR-SQP-6RAD | 6' SQUARE VINYL LINER RADIUS CORNER -4/BX |
| CAR-ICC-6RAD | 6' ICC VINYL LINER RADIUS CORNER -4/BX |



CAR-NC



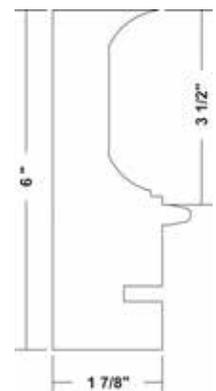
CAR-SQP



CAR-BN



CAR-CRC



CAR-ICC-SC



CAR-NC-6RAD



CAR-BN-6RAD



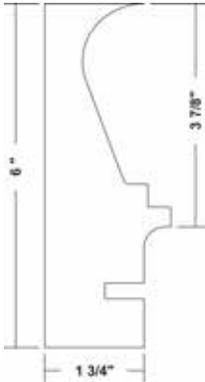
CAR-SQP-6RAD



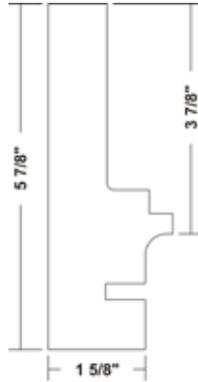
CAR-ICC-6RAD

COPING PROFILES FOR FIBERGLASS POOLS

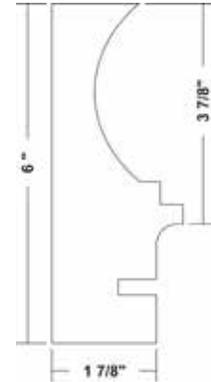
| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|--------------------------------------|
| CAR-NC-FG | 8' STYRO CAPSTONE FIBERGLASS - 14/BX |
| CAR-NC-FG-32 | 8' STYRO CAPSTONE FIBERGLASS - 4/BX |
| CAR-SQP-FG | 8' STYRO SQUARE FIBERGLASS - 14/BX |
| CAR-SQP-FG-32 | 8' STYRO SQUARE FIBERGLASS - 4/BX |
| CAR-BN-FG | 8' STYRO BULLNOSE FIBERGLASS - 14/BX |
| CAR-BN-FG-32 | 8' STYRO BULLNOSE FIBERGLASS - 4/BX |
| CAR-CRC-FG | 8' STYRO COPING FIBERGLASS- 14/BX |
| CAR-CRC-FG-32 | 8' STYRO COPING FIBERGLASS- 4/BX |
| CAR-ICC-FG | 8' STYRO FIBERGLASS - 14/BX |
| CAR-ICC-FG-32 | 8' STYRO FIBERGLASS - 4/BX |



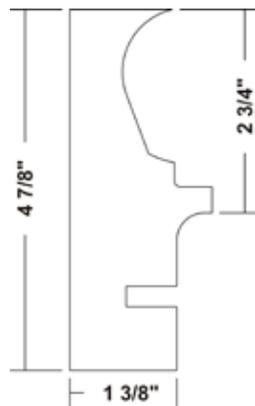
CAR-NC-FG



CAR-SQP-FG



CAR-BN-FG



CAR-CRC-FG



CAR-ICC-FG-FG

COPING PROFILES

COPING PROFILES FOR CONCRETE/GUNITE POOLS

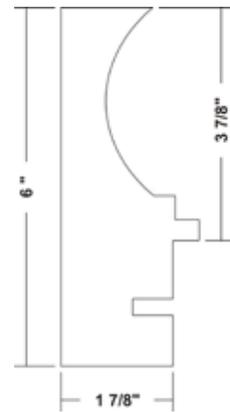
| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|--|
| CAR-NC-FGWT | 8' STYRO CAPSTONE CONCRETE W/TILE- 14/BX |
| CAR-NC-FGWT-32 | 8' STYRO CAPSTONE CONCRETE W/TILE- 4/BX |
| CAR-SQP-FGWT | 8' STYRO SQUARE CONCRETE W/TILE- 14/BX |
| CAR-SQP-FGWT-32 | 8' STYRO SQUARE CONCRETE W/TILE- 4/BX |
| CAR-BN-FGWT | 8' STYRO BULLNOSE CONCRETE W/TILE- 4/BX |
| CAR-BN-FGWT-32 | 8' STYRO BULLNOSE CONCRETE W/TILE- 4/BX |
| CAR-CRC-FGWT | 8' STYRO COPING CONCRETE W/ TILE - 14/BX |
| CAR-CRC-FGWT-32 | 8' STYRO COPING CONCRETE W/ TILE - 4/BX |
| CAR-ICC-FGWT | 8' OF STYRO CONCRETE W/ TILE |
| CAR-ICC-FGWT-32 | 8' OF STYRO CONCRETE W/ TILE |
| CAR-TI-FGWT | 8' REGULAR GUNITE W/ TILE 14/BX |
| CAR-TI-FGWT-32 | 8' REGULAR GUNITE W/ TILE 4/BX |



CAR-NC-FGWT



CAR-SQP-FGWT



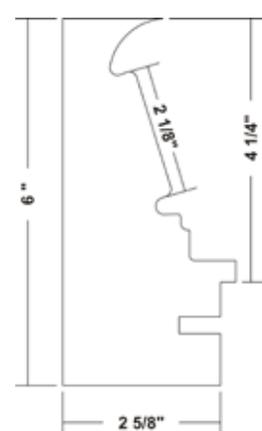
CAR-BN-FGWT



CAR-CRC-FGWT



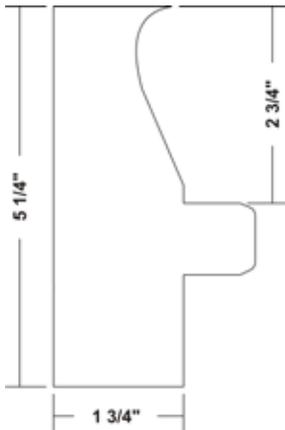
CAR-ICC-FGWT



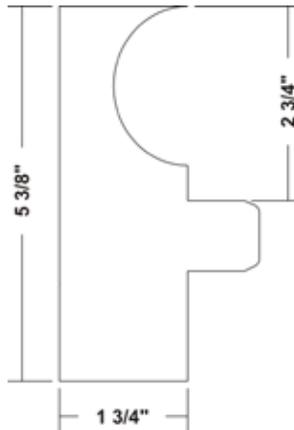
CAR-TI-FGWT

COPING PROFILES FOR A COVERSTAR AUTOMATIC COVER FOR VINYL LINER POOLS FOR A FLUSH LID **TO BE USED WITH THE CAR-CC-RC CLIPS

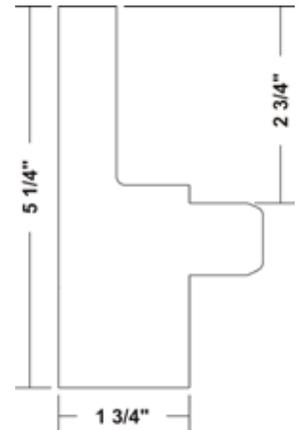
| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|---|
| CAR-NC-RC-CS-FL | 8' STYRO CAPSTONE COVERSTAR VINYL - 12/BX |
| CAR-NC-RC-CSFL24 | 8' STYRO CAPSTONE COVERSTAR VINYL- 3/BX |
| CAR-SQP-RC-CS-FL | 8' STYRO SQUARE COVERSTAR VINYL- 12/BX |
| CAR-SQP-RC-CSFL24 | 8' STYRO SQUARE COVERSTAR VINYL- 3/BX |
| CAR-BN-RC-CS-FL | 8' STYRO BULLNOSE COVERSTAR VINYL- 12/BX |
| CAR-BN-RC-CSFL24 | 8' STYRO BULLNOSE COVERSTAR VINYL- 3/BX |



CAR-NC-RC-CS-FL



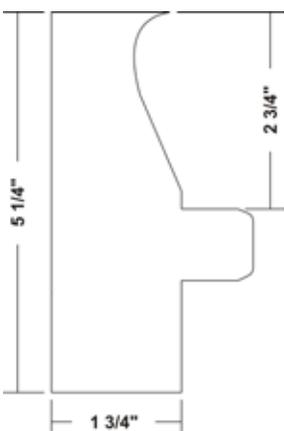
CAR-SQP-RC-CS-FL



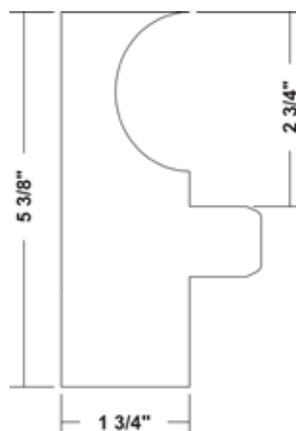
CAR-BN-RC-CS-FL

COPING PROFILES FOR COVERSTAR AUTOMATIC COVER FOR FIBERGLASS/GUNITE POOLS **TO BE USED WITH THE UNIVERSAL CLIP SYSTEM

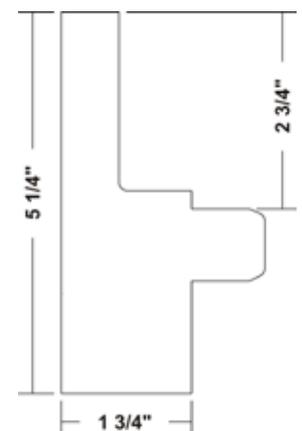
| CARDINAL PART NUMBER | DESCRIPTION |
|-----------------------|--|
| CAR-NC-RC-FG-CS-FL | 8' STYRO CAPSTONE COVERSTAR FIBERGLASS - 12/BX |
| CAR-NC-RC-FG-CS-FL-24 | 8' STYRO CAPSTONE COVERSTAR FIBERGLASS - 12/BX |
| CAR-BN-RC-FG-CS-FL | 8' STYRO BULLNOSE COVERSTAR FIBERGLASS - 12/BX |
| CAR-BN-RC-FG-CSFL-24 | 8' STYRO BULLNOSE COVERSTAR FIBERGLASS - 12/BX |
| CAR-SQPRCFG-CS-FL | 8' STYRO SQUARE COVERSTAR FIBERGLASS -12/BX |
| CAR-SQP-RC-FG-CSFL-24 | 8' STYRO SQUARE COVERSTAR FIBERGLASS - 12/BX |



CAR-NC-RC-FG-CS-FL



CAR-SQP-RC-FG-CS-FL

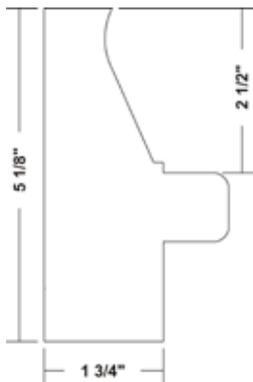


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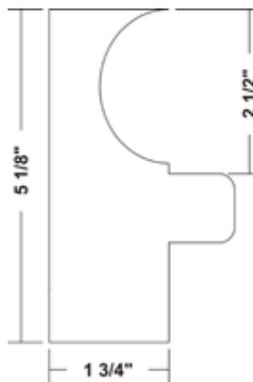
COPING PROFILES

COPING PROFILES FOR AUTOMATIC COVER FOR VINYL LINER POOL

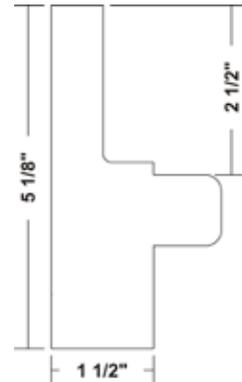
| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|-----------------------------------|
| CAR-NC-RC-CPT4 | 8' CAPSTONE COVER-POOL VL - 12/BX |
| CAR-NC-RC-CPT4-24 | 8' CAPSTONE COVER-POOL VL - 3/BX |
| CAR-BN-RC-CPT4 | 8' BULLNOSE COVER-POOL VL - 12/BX |
| CAR-BN-RC-CPT4-24 | 8' BULLNOSE COVER-POOL VL - 3/BX |
| CAR-SQP-RC-CPT4 | 8' SQUARE COVER-POOL VL - 12/BX |
| CAR-SQP-RC-CPT4-24 | 8' SQUARE COVER-POOL VL - 3/BX |



CAR-NC-RC-CPT4



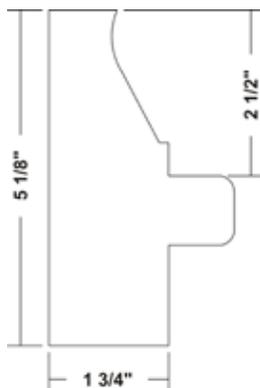
CAR-BN-RC-CPT4



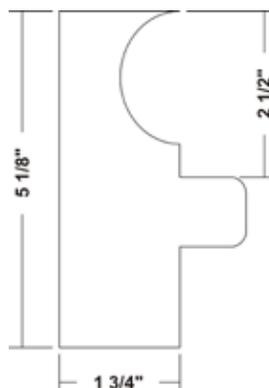
CAR-SQP-RC-CPT4

COPING PROFILES FOR AUTOMATIC COVER FOR FIBERGLASS/GUNITE POOLS

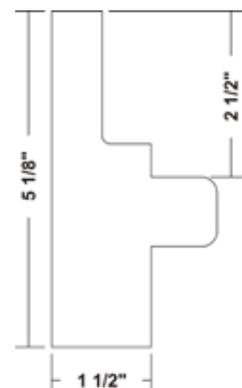
| CARDINAL PART NUMBER | DESCRIPTION |
|-----------------------|-----------------------------------|
| CAR-NC-RC-FG-CPT4 | 8' CAPSTONE COVER-POOL VL - 12/BX |
| CAR-NC-RC-FG-CPT4-24 | 8' CAPSTONE COVER-POOL VL - 3/BX |
| CAR-BN-RC-FG-CPT4 | 8' BULLNOSE COVER-POOL VL - 12/BX |
| CAR-BN-RC-FG-CPT4-24 | 8' BULLNOSE COVER-POOL VL - 12/BX |
| CAR-SQP-RC-FG-CPT4 | 8' SQUARE COVER-POOL VL - 12/BX |
| CAR-SQP-RC-FG-CPT4-24 | 8' SQUARE COVER-POOL VL - 3/BX |



CAR-NC-RC-FG-CPT4



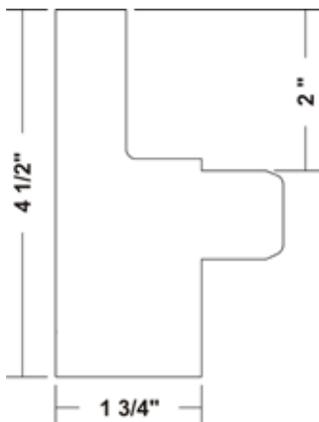
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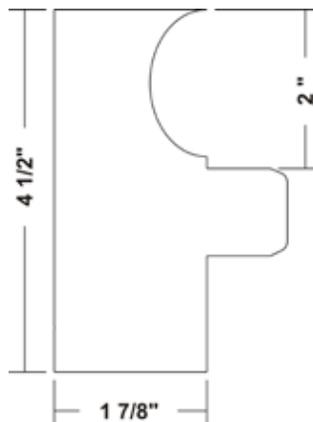
CAR-SQP-RC-FG-CPT4

COPING PROFILES FOR APC AUTOMATIC COVER FOR VINYL LINER POOLS WITH FLUSH LID

| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|---------------------------------|
| CAR-SQP-RC-APC | 8' SQUARE APC FLUSH LID - 12/BX |
| CAR-SQP-RC-APC-24 | 8' SQUARE APC FLUSH LID - 3/BX |
| CAR-BN-RC-APC | 8' SQUARE APC FLUSH LID - 12/BX |
| CAR-BN-RC-APC-24 | 8' SQUARE APC FLUSH LID - 3/BX |



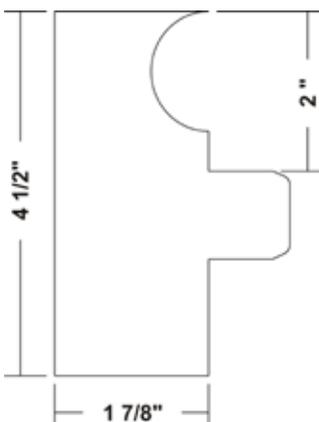
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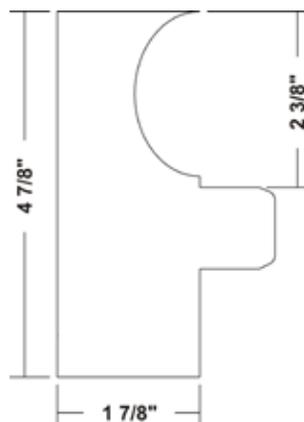
CAR-BN-RC-APC

COPING PROFILES FOR APC AUTOMATIC COVER FOR FIBERGLASS/GUNITE POOLS

| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|---------------------------------|
| CAR-SQP-RC-FG-APC | 8' SQUARE APC FLUSH LID - 12/BX |
| CAR-SQP-RC-FG-APC-24 | 8' SQUARE APC FLUSH LID - 3/BX |
| CAR-BN-RC-FG-APC | 8' SQUARE APC FLUSH LID - 12/BX |
| CAR-BN-RC-FG-APC-24 | 8' SQUARE APC FLUSH LID - 3/BX |



CAR-SQP-RC-FG-APC



CAR-BN-RC-FG-APC



CLIPS

| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|---|
| CAR-CC-FG25 | CANT CLIPS FIBERGLASS STAIRS - 25/BOX |
| CAR-CC-FG100 | CANT CLIP FIBERGLASS STAIRS - 100/BOX |
| CAR-CC-FG150 | CANT CLIPS FIBERGLASS STAIRS - 150/BOX |
| CAR-CC | CANT CLIP VINYL LINER 100/BOX |
| CAR-CC-RC | CANT CLIPS AUTOCOVERS VINYL LINER 100/BOX |
| CAR-CC-RC-125 | CANT CLIPS AUTOCOVERS VINYL LINER 125/BOX |
| CAR-CC-UB | REUSABLE UNIVERSAL CLIP-BODY 100/BX |
| CAR-CC-UD | DISPOSABLE UNIVERSAL CLIP- 100/BX |



* CAR-CC-UB



CAR-CC



CAR-CC-FG100
CAR-CC-FG150



CAR-CC-RC



* CAR-CC-UD

* Universal 2 pc. System

ACCESSORIES

| CARDINAL PART NUMBER | DESCRIPTION |
|----------------------|-------------------------------------|
| CAR-RG286 | FILAMENT TAPE 3"X 180' 16 ROLLS/BOX |
| CAR-S002 | SLIDE HAMMER TOOL - CLIP REMOVER |



CAR-RG286



CAR-S002

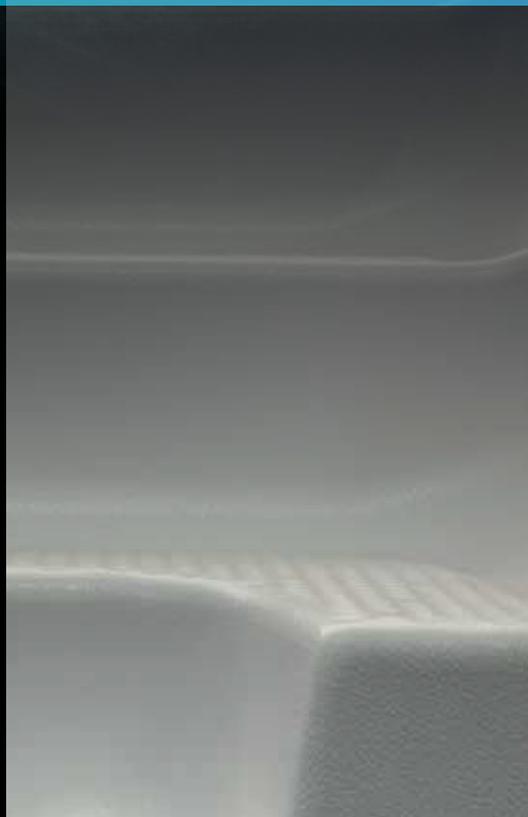


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