

INSTALLATION GUIDE
ARENA | STUDIO | ORIGINAL | MAX

Plungie Install Guide

V 01.1



Installation Guide

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This information is offered as a general guide only, and specific advice should always be sought by engaging with an engineer before undertaking any installations specific to your site.

Whilst Plungie Pty Ltd has made every effort to ensure the accuracy and effectiveness of this information, we make no representation as to the accuracy or effectiveness of the information and take no responsibility for any loss, damage or injury which may be caused as a direct or indirect result of the use of this information.

Installing a Plungie



This guide is continually updated, please ensure you are accessing it via the link provided to ensure you are viewing the latest copy.

Welcome to our Plungie Install Guide!

As USA's leading manufacturer and supplier of pre-cast concrete swimming pools, we understand the importance of proper certification for pool installation in USA. That's why we work directly with qualified tradespeople, builders, pool builders, and landscapers across the country to ensure our customers achieve the best possible outcome with their Plungie installation.

At Plungie, we recognize that every project and installation is unique. To help ensure your success, we provide comprehensive and straightforward pre-engineered specifications that cover most applications and soil types.

In addition, we offer how-to documentation and a range of diagrams to help guide you through the installation process with ease.

To make things even more straightforward, we've included 8 icons below that represent each step in the installation process. Simply click on an icon to be taken directly to the corresponding section in the guide, allowing you to access the information you need quickly and efficiently.

We've designed this installation guide to be as user-friendly as possible, so you can install your Plungie with confidence and ease.

OUR 8 STEP PROCESS TO INSTALLING YOUR PLUNGIE

1



Choose Plungie

2



Building Approval

3



Site Preparation

4



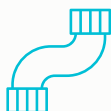
Crane Hire

5



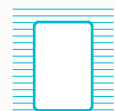
Electrical + Back Fill

6



Plumb Up

7



Finishings + Surrounds

8



Fill + Start Up

Our process

Step 1

Choose Plungie



- REQUEST QUOTE**
 - + Plungie Model
 - + ecoFinish color
 - + Equipment
 - + Heating
 - + Spa Jets
 - + Construction Cover
 - + Waterline Tile Provision
 - + Delivery
- CONFIRM SALES ORDER**
- DEPOSIT PAYMENT**

A 30% deposit payment is required to secure your order.
- BALANCE PAYMENT**

The balance is due 30 days prior to your dispatch date. We cannot dispatch your pool prior to receiving payment.

Step 2

Standard Building Approval



- SUBMIT COMPLIANCE CERTIFICATION**

Refer to local municipality guidelines for pool safety requirements.

Step 3

Basic Site Preparation



- CONDUCT SOIL ANALYSIS**
- EXCAVATE SITE LOCATION**

Refer to [+Engineering Set](#) regarding site excavation.

If in-ground, allow for skimmer box and primary plumbing.
- BOX OUT VOID FOR HYDROSTATIC VALVE**

Ensure a provision is made within the concrete footing aligned with location of the Hydrostatic Valve in the base of the pool shell.

[+Slab Penetration Detail](#)
- POUR CONCRETE SLAB**

Refer to [+Engineering Set](#) regarding soil classification and slab requirements.
- MARK OUT PLACEMENT OF ADDITIONAL PLUMBING FROM POOL TO EQUIPMENT PAD**

Step 4

Crane Hire



- ORGANIZE CRANE HIRE**
- PROVIDE LIFTING DIAGRAMS TO CRANE HIRE COMPANY**
 - + [Arena Lifting Diagram](#)
 - + [Studio Lifting Diagram](#)
 - + [Original Lifting Diagram](#)
 - + [Max Lifting Diagram](#)
- CONFIRM DELIVERY DATE AND TIME WITH PLUNGIE**
- ENSURE CRANE IS ON SITE AT TIME OF DELIVERY**



Day of Delivery

- SITE ACCESS IS CLEAR**
- SLAB MARKED WITH PLACEMENT OF POOL**

Note: Plungie Studio, Original and Max have an inwards taper of 1 inch on each side.
- CLEAN SLAB**
- INSTALL LIFTING LUGS ON LIFTING POINTS**
- CRANE INTO PLACE**

Step 5

Electrical + Back Fill

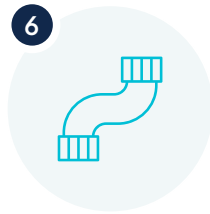


- GROUNDING YOUR PLUNGIE**
Refer to SO6 - Grounding Details within the +Engineering Set for detailed grounding notes.
- BACK FILL**
Ensure to back fill evenly around the pool as you go.

Backfill around pool is to be lightly compacted, granular, non-expansive, nominal AASHTO #57 stone.

Step 6

Plumb Up

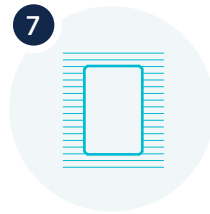


- ALLOW PROVISIONS FOR EQUIPMENT**
Ensure required power provisions are made available for the equipment package.
- EQUIPMENT PAD**
(Pump, Filter, Chlorinator)
- PLUMB UP**
Engage your plumber for the secondary plumbing and to connect your equipment.
[+ Plumbing Guide](#)
- CONNECT EQUIPMENT**
Refer to our Plumbing Guide above which outlines the provisions in your Plungie and how your equipment needs to be setup.

Download the equipment spec sheets from our website for detailed information:
[+ Equipment Spec Sheets](#)

Step 7

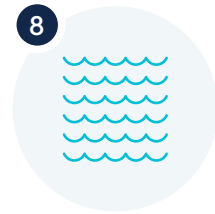
Finishing + Surrounds



- WATERLINE TILES (OPTIONAL)**
[+ Tiling Guide](#)
- COPING TILE**
- DECKING / PAVING / SURROUNDS**
- LANDSCAPING**
- POOL SAFETY REQUIREMENTS**
Refer to local municipality guidelines for pool safety requirements.

Step 8

Fill + Start Up



- INITIAL CLEAN**
- ENSURE THE HYDROSTATIC VALVE IS INSTALLED**
[+ Hydrostatic Valve Installation Guide](#)
- FILL POOL**
- BALANCE WATER**
- SWIM**
[+ Plungie Care Guide](#)

Step 1

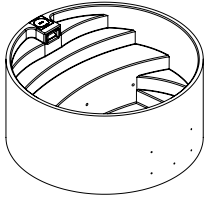
Choose Plungie

Plungie Models	7
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Add-ons & Modifications	9
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Optional Extras	9

GET READY TO...

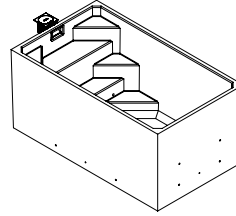
- Request quote
- Confirm sales order
- Deposit payment
- Balance payment

Plungie Arena



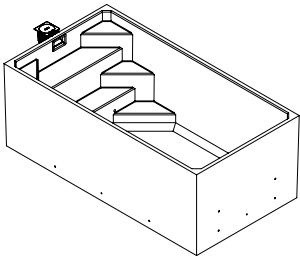
Diameter	External 11' 5"	Internal 10' 10"
Height	External 5' 6½"	Internal 5' 3"
Volume	2,370 gal	
Dry Weight	16,000 lbs	
Bench Space	27 sqft	

Plungie Studio



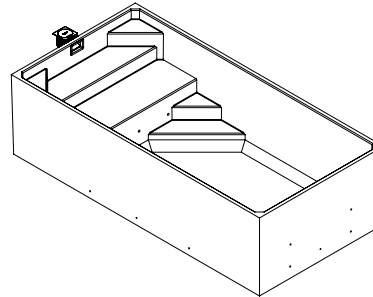
Length	External 12'	Internal 11' 5"
Width	External 7'	Internal 6' 5"
Height	External 5' 6½"	Internal 5' 3"
Volume	2,140 gal	
Dry Weight	15,000 lbs	
Bench Space	9 sqft	

Plungie Original



Length	External 15'	Internal 14' 5"
Width	External 8'	Internal 7' 5"
Height	External 5' 6½"	Internal 5' 3"
Volume	3,275 gal	
Dry Weight	18,000 lbs	
Bench Space	16 sqft	

Plungie Max



Length	External 20'	Internal 19' 5"
Width	External 10'	Internal 9' 5"
Height	External 5' 6½"	Internal 5' 3"
Volume	5,340 gal	
Dry Weight	26,000 lbs	
Bench Space	40 sqft	

Things to consider

Once you know which Plungie is right for you, provide you with a quote for the supply and delivery of your Plungie

At this point, you'll also need to have considered:

DO YOU ALSO NEED AN EQUIPMENT PACKAGE, HEATING, OR A SPA JET SOLUTION?

If so, we can provide an additional quote.

WHERE DO YOU WANT YOUR PLUNGIE?

The location of your Plungie, whether it will be in your front yard, back yard, side yard, or even rooftop, will play a leading role in the overall ease and cost of your installation.

DO YOU WANT THE POOL IN-GROUND, ABOVE-GROUND OR SEMI-RECESSED?

The depth of your install also plays a significant role in the overall ease and cost of your site preparation and includes considerations such as excavation, soil removal and backfill.

HOW DO YOU WANT TO FINISH YOUR PROJECT?

This can include coping tiles or fencing, as well finishing touches to your surrounds, such as paving, decking or landscaping.

HAVE YOU CONSIDERED A HIDE SKIM?

Our skimmer box lids come in gray or white but there is the option to purchase a Hide Skim. This solution allows you to replace your factory finish lid with a stainless steel lid that has an inlay allowing you to drop in your surrounding tile or decking board for a seamless finish.

Interior Coating

ECOFINISH

Every Plungie comes with an internal high-performance thermo polymer coating — which is the fancy way of describing ecoFinish.

ecoFinish is a highly engineered form of powder coating that's heat-blasted onto the internal shell of the pool, forming a completely sealed, flexible, waterproof membrane that's both luxurious to the touch, and highly durable.

The finished feel of each pool varies slightly and ranges between a slightly coarse, sandstone like finish and smooth porcelain tiles. In any instance the surface has fantastic non-slip capabilities without feeling abrasive on skin.

We recommend using a coping tile for the top edge of all models to integrate your pool with your surrounds. These can be purchased from any tile retailer and installed by a trade professional. More detail on this is provided within our Tiling Guide.

ECOFINISH COLOR SAMPLES



Kona Coast

Blue Lagoon

Grey Reef



Sahara Sand

Mediterranean Blue

French Grey

RAW CONCRETE INTERNAL

We offer an alternative raw concrete internal finish, this is a great option if you are looking to tile your entire pool.

Refer to our Tiling Guide within Step 7 of this guide for further details including measurements and guidance on tile application.

Inclusions

- Highly engineered concrete pool shell
- High performance ecoFinish interior or raw concrete for tiling the interior
- Multi-colored LED light
- Poolrite innoSkim skimmer box
- Technical designs and pre-engineered specifications for ease of building approvals
- Pre-plumbed and fitted filtration line provisions
- Hydrostatic Valve

Add-ons & modifications

Our range of add ons and extras are designed to take your Plungie to the next level.

Please note, the below add-ons including spa jet packages must be specified at time of order and cannot be retrofitted to the pool.

SPA JET ADD-ON PACKAGE

- Shell provision modifications
- Spa Jet Fit-Out (4 Venturi Jets at pre-determined locations)
- TriStar 950 VSP & 2HP Blower
- Omni-Hub Smart Pool Control System
- Valve Actuator (Motorized)
- 3-Way Valve

ECOFINISH WATERLINE TILE PROVISION

When selecting ecoFinish, a provision can be made for the ecoFinish to stop at the bottom of the skimmer entry. This will allow you to apply a waterline tile to your pool once installed. This is approximately 8 in from the top of the pool to just above the first corner step.

Equipment

We have a range of equipment packages designed to suit your individual requirements. Each package includes a pump, chlorine tab feeder and filter.

BASE EQUIPMENT PACKAGE

Our base equipment package is all you need to get your Plungie running and your family swimming!

SMART ECO EQUIPMENT PACKAGE

Our Smart Eco equipment package adds a variable speed pump and wifi enabled smart pool system to our base equipment package for total control over your pool, from anywhere.

SALT POOL EQUIPMENT PACKAGE

Takes everything our Smart Eco equipment package offers, and adds a pinch of salt for the salt water pool of your dreams.

AOP+UV EQUIPMENT PACKAGE

The AOP+UV Package offers the ability to keep your pool sanitized with significantly less chemicals. Utilizing Hayward Pool's HydraPure system that uses UV light and Ozone to do the majority of the work of sanitizing your pool water, this works in conjunction with a traditional chlorine system.

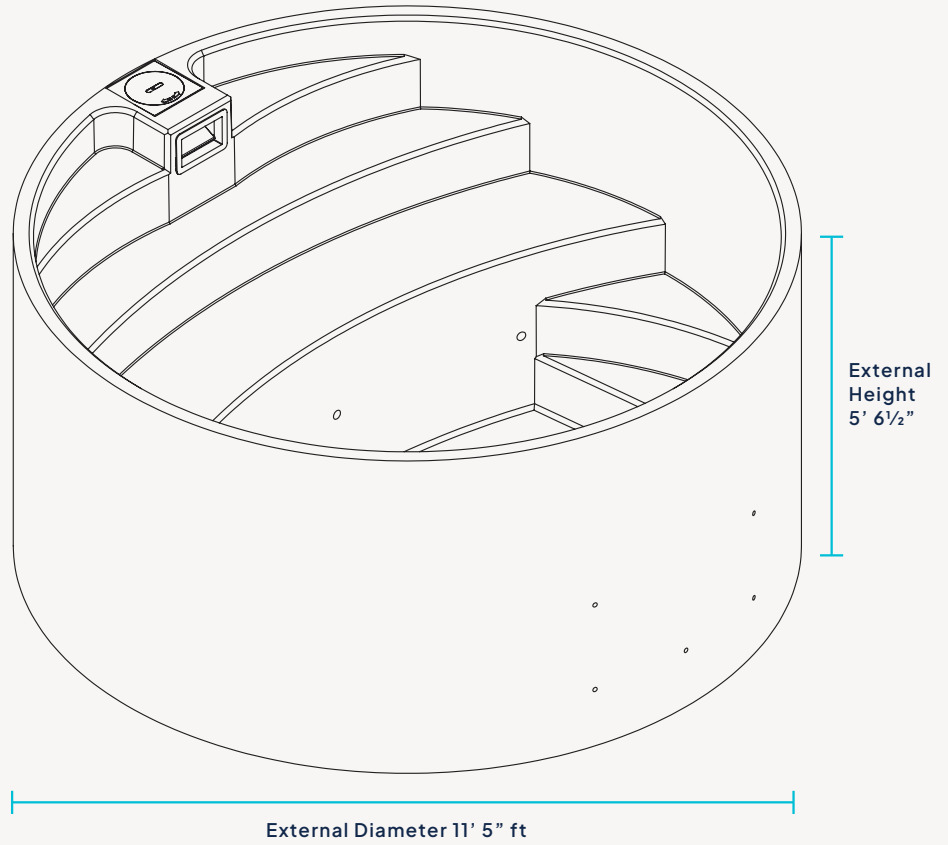
AOP+UV WITH SALT EQUIPMENT PACKAGE

The best of both worlds. This package combines the reduced chemical usage of the AOP+UV Package, combined with the replacement of a chlorine system with a salt pool system.

Optional Extras

- Construction Cover

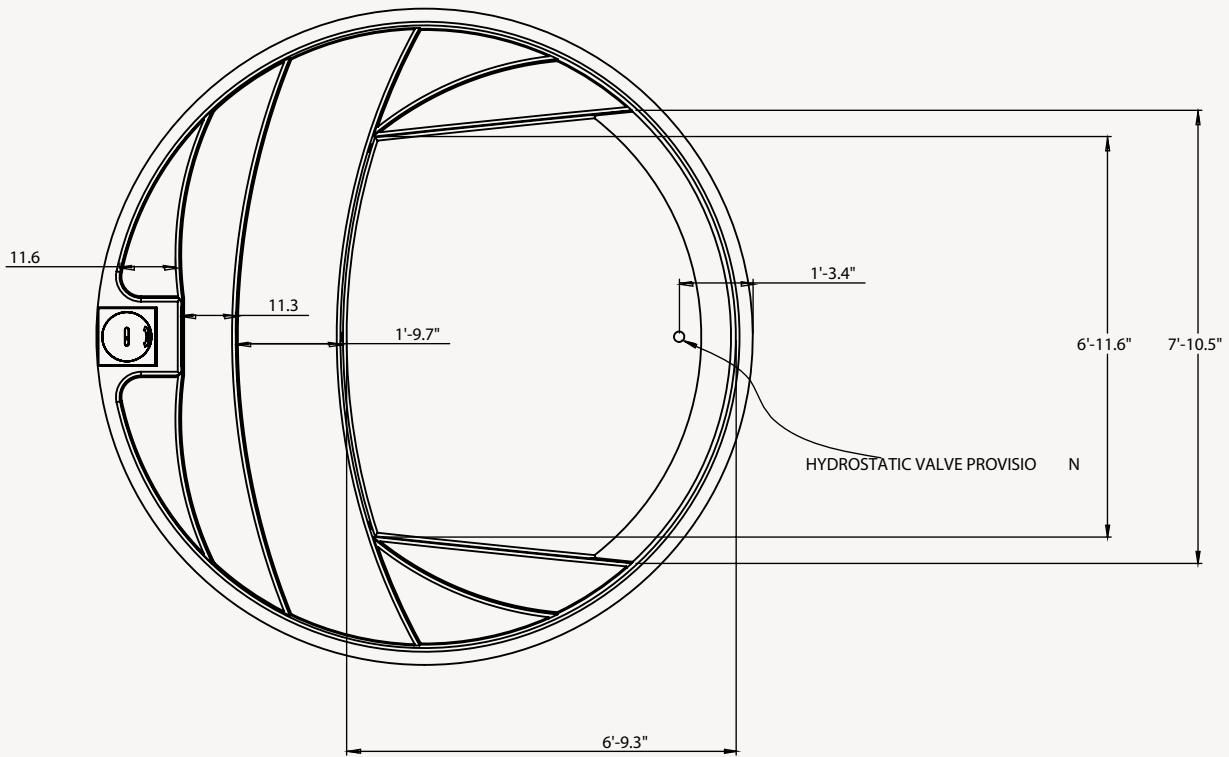
Specifications Sheet **Arena**



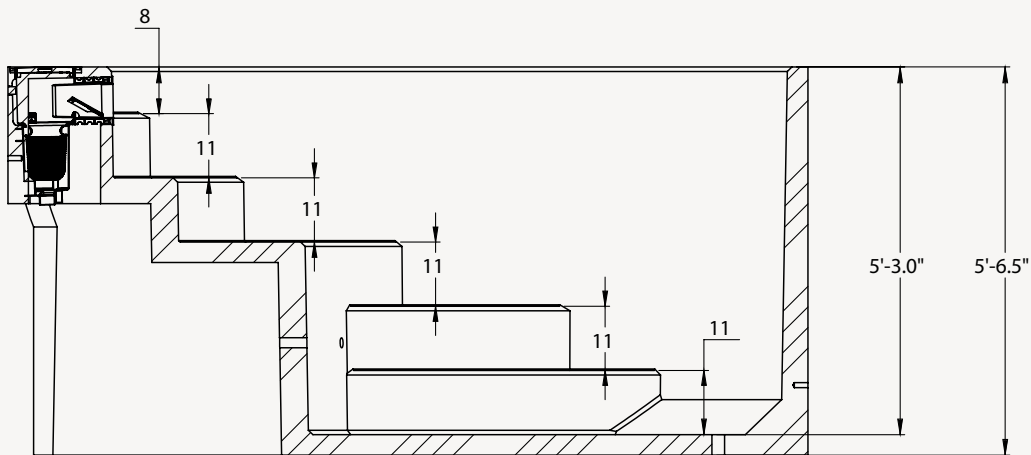
Diameter	External 11' 5"	Internal 10' 10"
Height	External 5' 6½"	Internal 5' 3"
Volume	2,370 gal	
Dry Weight	16,000 lbs	

Specifications Sheet Arena

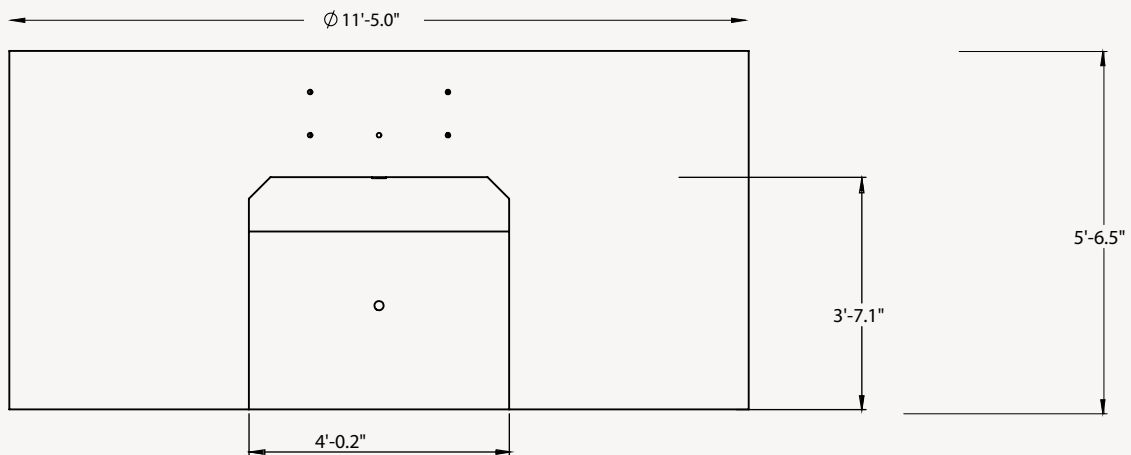
AERIAL DIMENSIONS



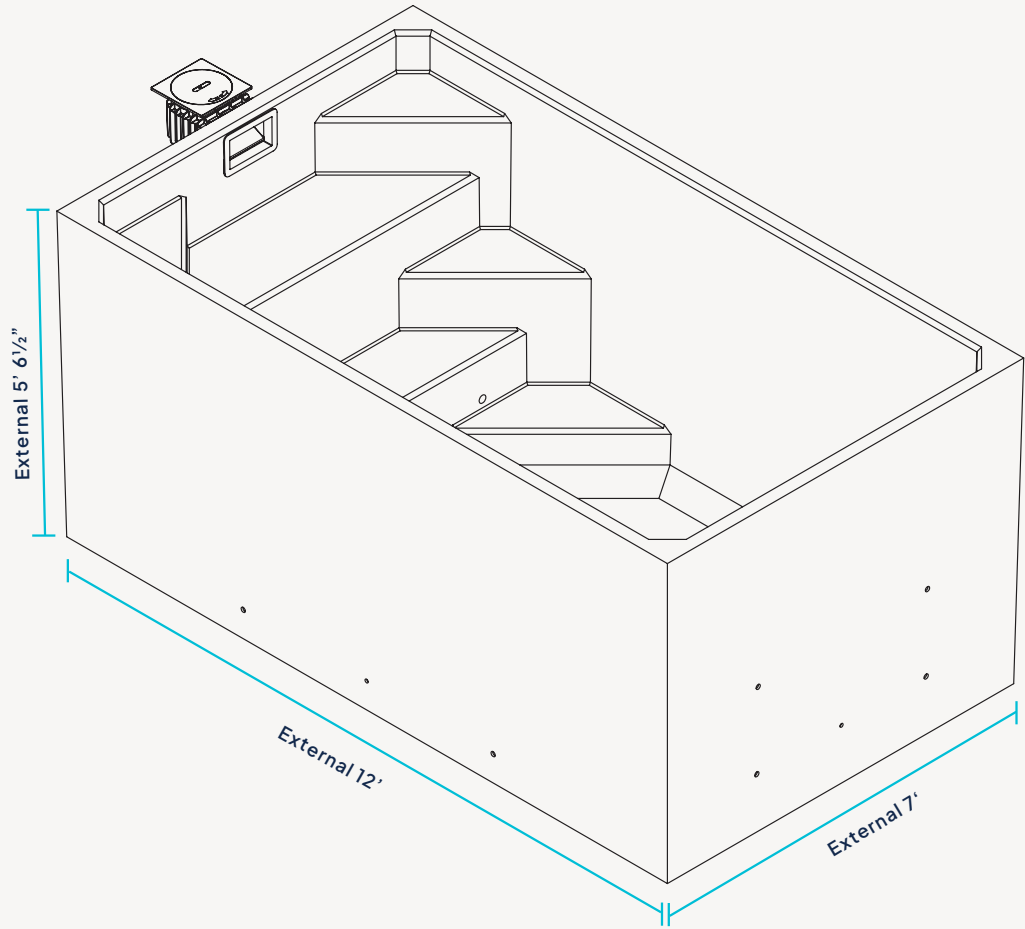
SIDE ELEVATION



SKIMMER / STEP END ELEVATION



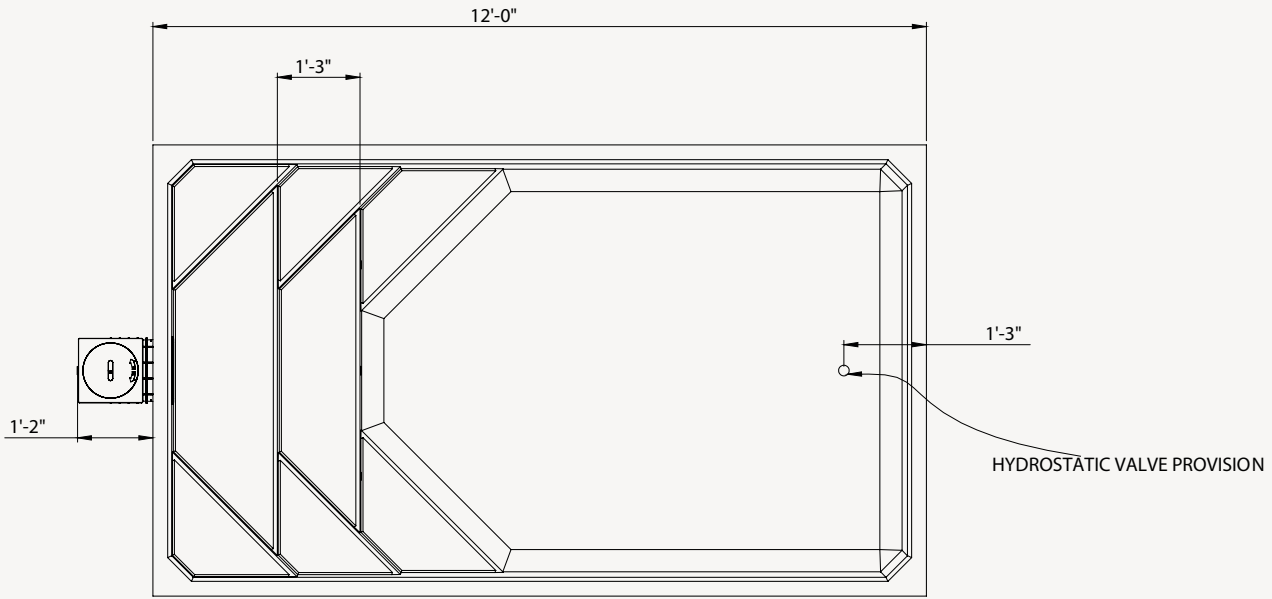
Specifications Sheet **Studio**



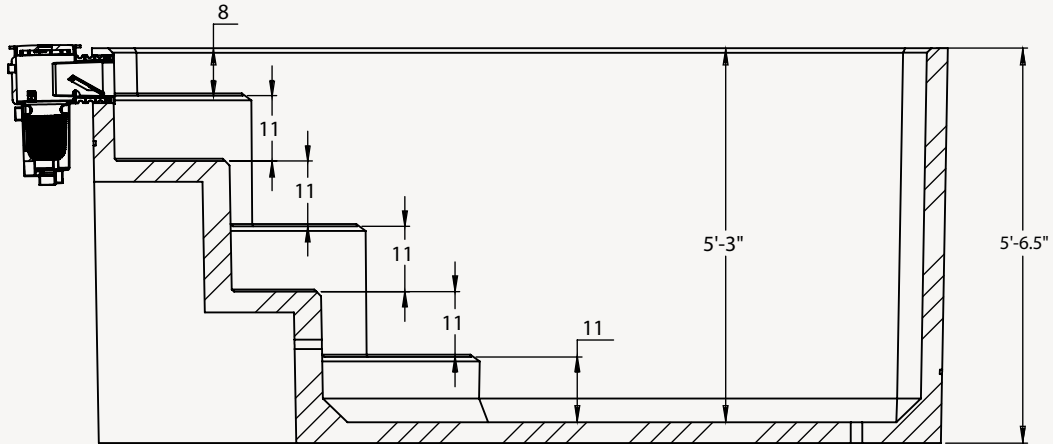
Length	External 12'	Internal 11' 5"
Width	External 7'	Internal 6' 5"
Height	External 5' 6 1/2"	Internal 5' 3"
Volume	2,140 gal	
Dry Weight	15,000 lbs	

Specifications Sheet Studio

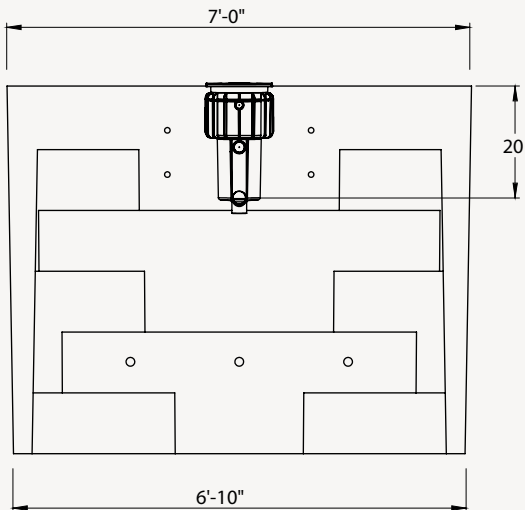
AERIAL DIMENSIONS



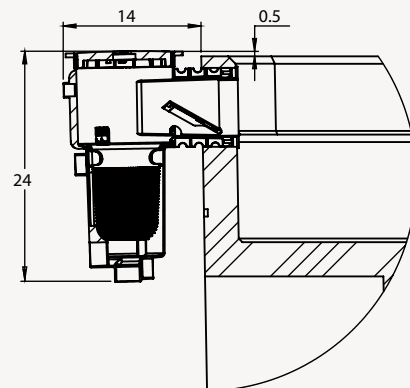
SIDE VIEW



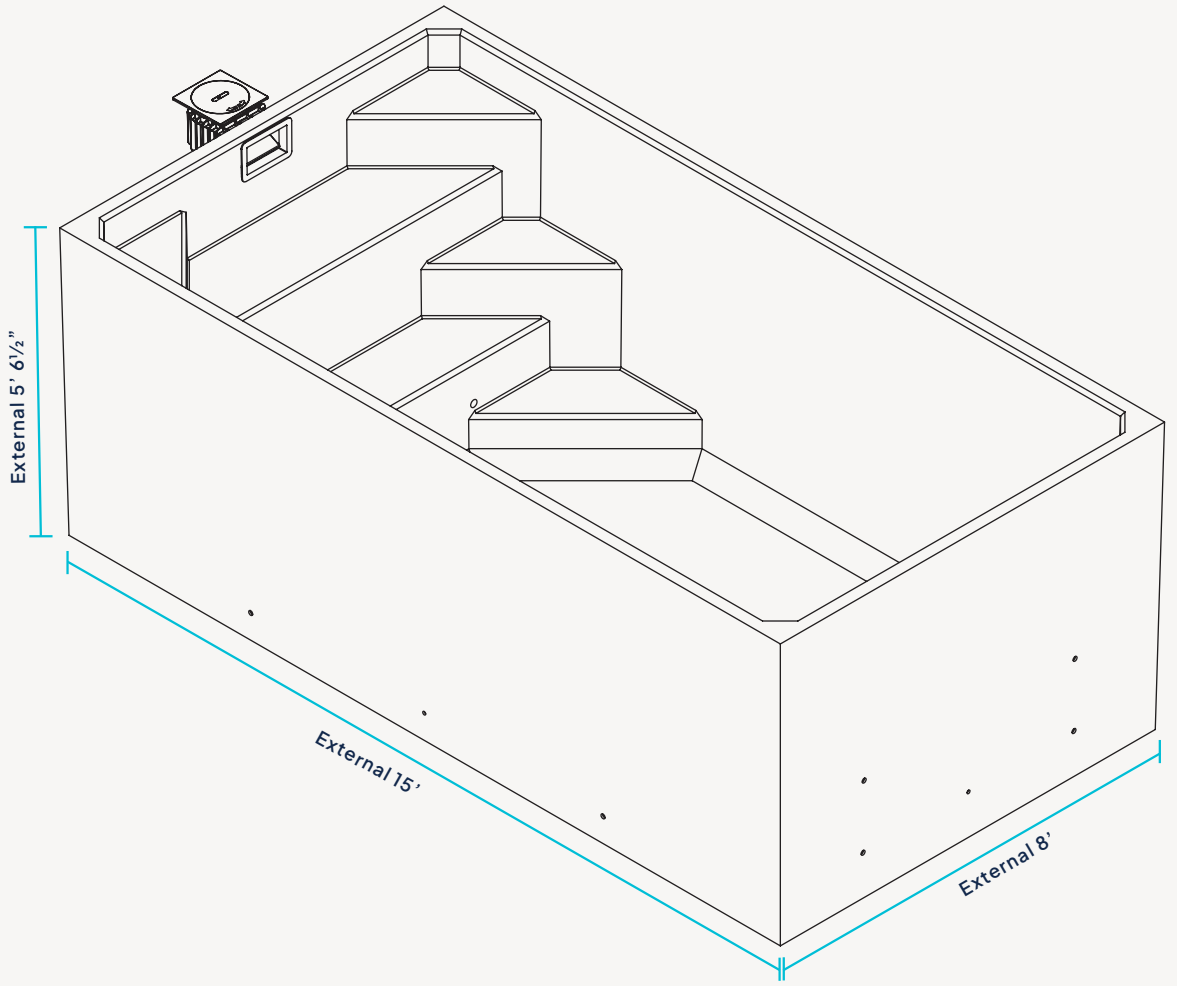
SKIMMER / STEP END VIEW



SKIMMER BOX



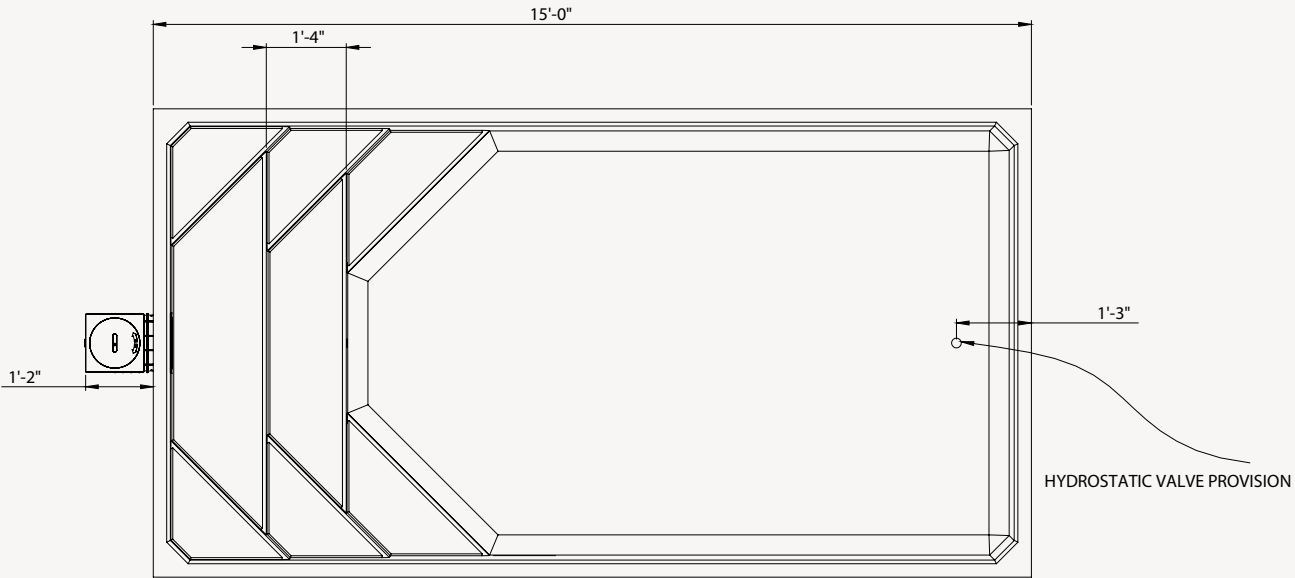
Specifications Sheet Original



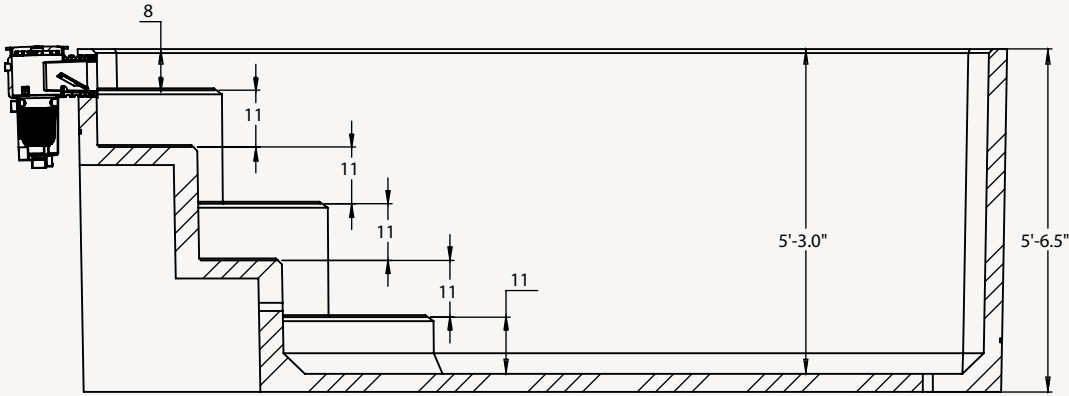
Length	External 15'	Internal 14' 5"
Width	External 8'	Internal 7' 5"
Height	External 5' 6 1/2"	Internal 5' 3"
Volume	3,275 gal	
Dry Weight	18,000 lbs	

Specifications Sheet Original

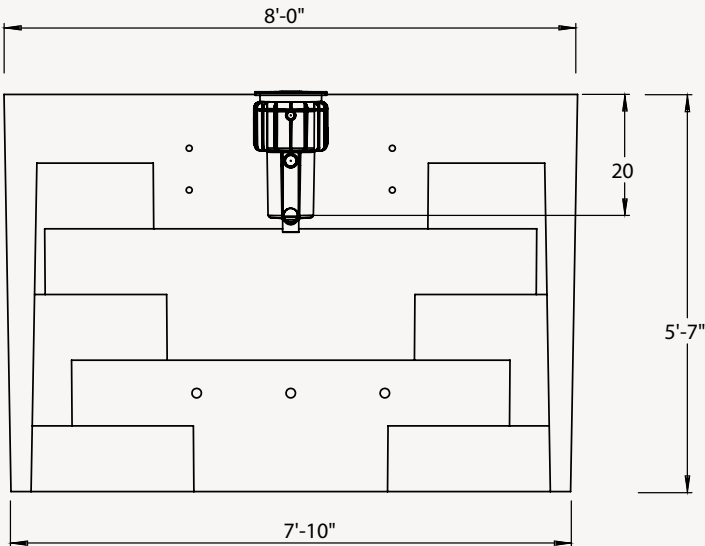
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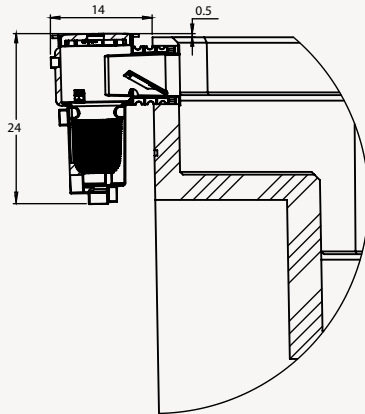
SIDE VIEW



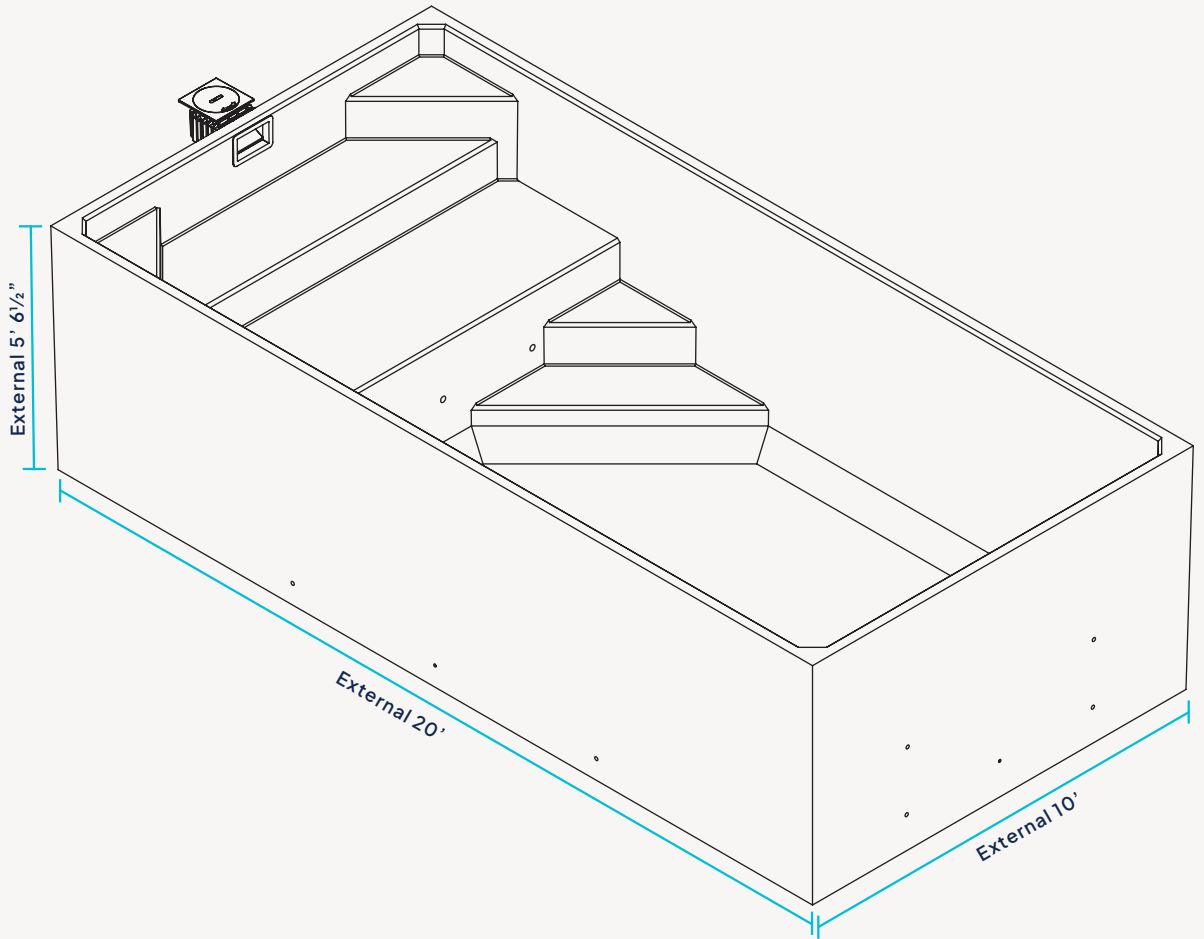
SKIMMER / STEP END VIEW



SKIMMER BOX



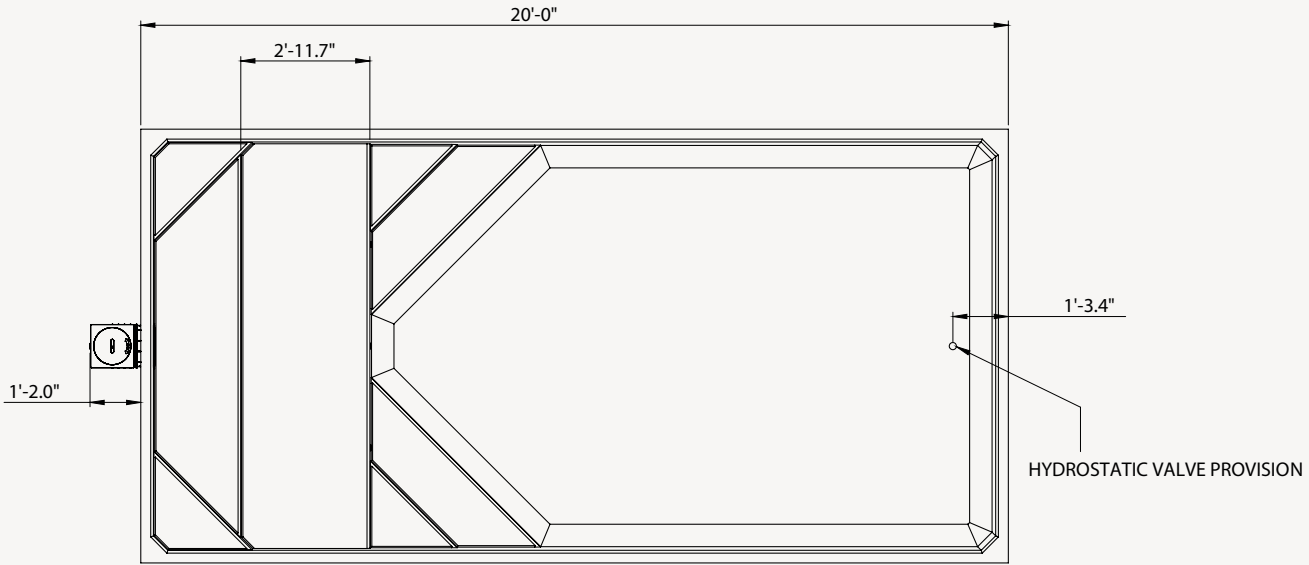
Specifications Sheet Max



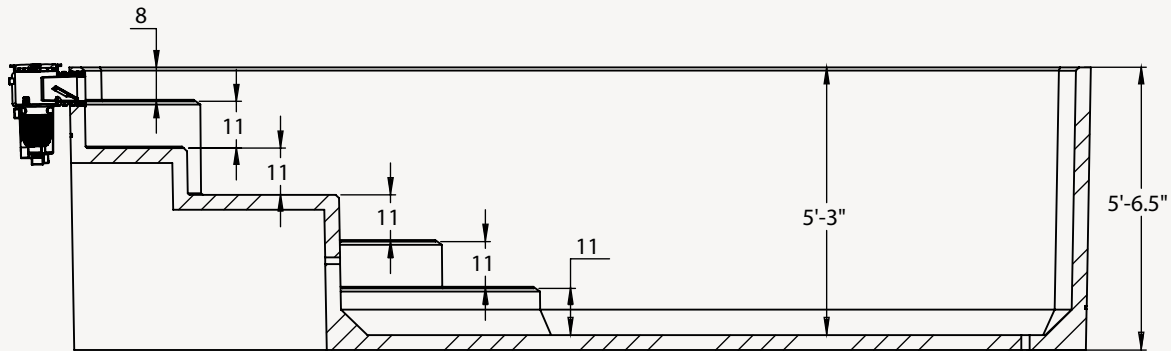
Length	External 20'	Internal 19' 5"
Width	External 10'	Internal 9' 5"
Height	External 5' 6 1/2"	Internal 5' 3"
Volume	5,340 gal	
Dry Weight	26,000 lbs	

Specifications Sheet Max

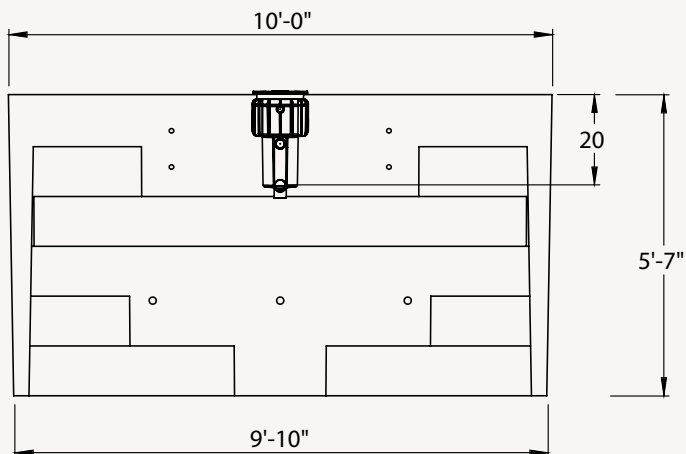
AERIAL DIMENSIONS



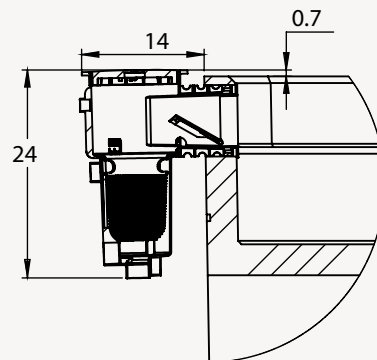
SIDE VIEW



SKIMMER / STEP END VIEW



SKIMMER BOX



Step 2

Building Approval + Certification

Council Certification

19

GET READY TO...

- Confirm state regulations and requirements
- Submit certification to local permit office

Submit certification to your local council

Certification must be submitted to your local permit office. Check with your local permit office for your state regulations and requirements.



Local Permit Approval

The customer is responsible for providing the appropriate certification documentation for the precast shell ensuring that the installation complies with the requirements detailed on the structural drawings.

PLUNGIE WILL SUPPLY YOU WITH:

- Pre-engineered specifications package that covers the pool shell, standard footing design schedule, impervious surround design schedule and grounding details.
- It is required that you obtain a soil geotechnical report to determine the site classification for certification.

POOL SAFETY REGULATIONS

Each USA state has its own rules concerning residential pools. It's important that you or your builder determines the requirements that will apply to your specific situation and complies with them.

CALL BEFORE YOU DIG

811 is the national call-before-you-dig phone number. Anyone who plans to dig should call 811 or go to their state 811 center's website before digging to request that the approximate location of buried utilities be marked with paint or flags so that you don't unintentionally dig into an underground utility line.

Step 3

Basic Site Preparation

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Slab Requirements	21
Hydrostatic valve provision	22
Concrete Slab Example	23
Typical Slab Penetration – Rectangular	24
Typical Slab Penetration – Circular	25

GET READY TO...

- Conduct soil analysis
- Excavate site location
- Pour concrete slab
- Mark plumbing and equipment slab locations

Basic Site Preparation

Ensure you refer to our Engineered Set before undergoing any site preparation, [click here](#) to request a copy.

The basic site preparation for installation of a Plungie will include:

- Geotechnical Report / Soil Analysis
- Excavation
- Concrete Footing (slab)

SOIL ANALYSIS

It is important to conduct soil analysis on your site as a Plungie must be installed on a concrete slab founded on undisturbed natural ground.

Soil types are to be determined from conducting a geotechnical report.

Refer to the Standard Footing Design Schedule within your engineering. Note that CL, ML and CH sites require piling option which is shown within the [+Engineering Set](#).

Please be aware of any surrounding trees that may cause root damage to your footing in the future and be sure to take steps to stop this from happening.

EXCAVATION

Once you have received your soil report and understand your site classification you can now plan your excavation.

Excavation should not be performed under the line of influence extending from existing footings. Base of existing footings/foundation may need to be confirmed by a local certified engineer dependent on your local building code.

When excavating, note that the concrete slab will be slightly larger than the pool and you will also need to allow for the skimmer box extrusion and primary plumbing at the step end.

SLAB REQUIREMENTS

Plungie's must be placed on a perfectly flat concrete slab with a void / rebate for the hydrostatic valve.

Refer to our [+Engineering Set](#) for:

- **Standard Footing Design Schedule** which details the base slab requirements, including size and thickness, which will vary depending on your site classification.
- **Slab Penetration Detail** which provides the required measurements for the void required in both rectangular and circular Plungie's.

Note: the edge of the concrete slab will need to be an additional 4 inches larger on each side and an additional 8 inches at the skimmer box end. This edge detail is provided within the schedule mentioned above.



Concrete Slab / Hydrostatic Valve Requirements

The concrete slab must have a void / cut out through to the ground aligned to the location of the hydrostatic valve within the pool shell.

This is to allow the hydrostatic valve to release ground water pressure into the pool to prevent "floating / popping" and damaging the pool shell and surrounds.

HYDROSTATIC VALVE VOID

The design requires that buoyant forces from ground water pressure to the pool walls and floor slab be relieved by installation of a hydrostatic valve. Refer to drawings for details.

You will require a void/cut out in the slab at the time of pouring aligned with the placement of the hydrostatic valve within the pool shell.

Typical slab penetration diagrams have been provided on the following pages for a clearer understanding and reference. Specific measurements aren't detailed within these diagrams as they must be read in conjunction with the Engineering Set which has a Hydrostatic Valve Location Slab Details sheet.

WHERE IS THE HYDROSTATIC VALVE LOCATED?

The hydrostatic valve provision is located at the base of the pool shell, opposite end to the skimmer box and stairs). The valve provision is cast in the shell and finishes flush with the bottom of the pool.

HOW LARGE DOES THE REBATE NEED TO BE?

There will need to be a rebate left in the slab at the time of pouring, refer to the Engineering Set for details.

WHERE SHOULD THE PLUNGIE BE PLACED ON THE SLAB IN RELATION TO THE REBATE?

Approximately 2 inches of the void should be past the outside edge of the pool. This allows water to escape from the rebate in the event that it fills with water, preventing added pressure being applied to the underside of the pool shell.

WHAT IS A HYDROSTATIC VALVE?

During heavy rainfall or flooding ground water pressure builds up underneath the pool shell. If this pressure isn't relieved, your pool may float off of its footing.

The hydrostatic valve is a one way valve that releases this ground water pressure into the pool, thus preventing floating which is commonly referred to as 'popping' causing damage to the pool and surrounds.

PLUNGIE WILL SUPPLY YOU WITH:

- Standardized base preparation requirements for each model of pool covering the slab requirements, excavation plan and footings preparation for slab options based on soil compression type.



You will be required to:

- **Complete site preparation** in accordance with standardized engineering requirements, as per your specific site classification.
- **Photograph each stage** of your installation is required. Capturing this information allows us to assist with warranty support more easily, should you require any assistance after installation.
- **Request certification from your concrete contractor** that the slab has been prepared in accordance with the supplied pre-engineered specifications.



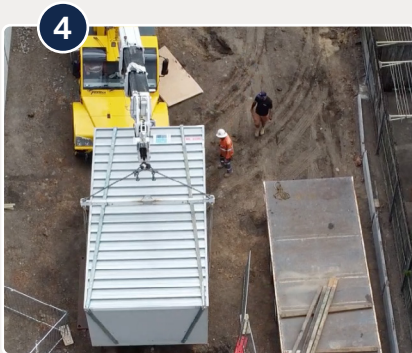
Slab layout



Hydrostatic valve void/cut out



Placement markings on slab, ensure slab is perfectly level



Crane in



Placement of Plungie in relation to the hydrostatic valve void



Plungie on perfectly levelled slab



Back fill



Plungie in place with back fill



Requirements of a level slab

Our pools are manufactured in a factory environment with the base of our pools poured perfectly flat.

Installation of a Plungie requires a base slab that has a perfectly flat top surface, or a surface that does not deviate more than $\frac{1}{8}$ " from flat.

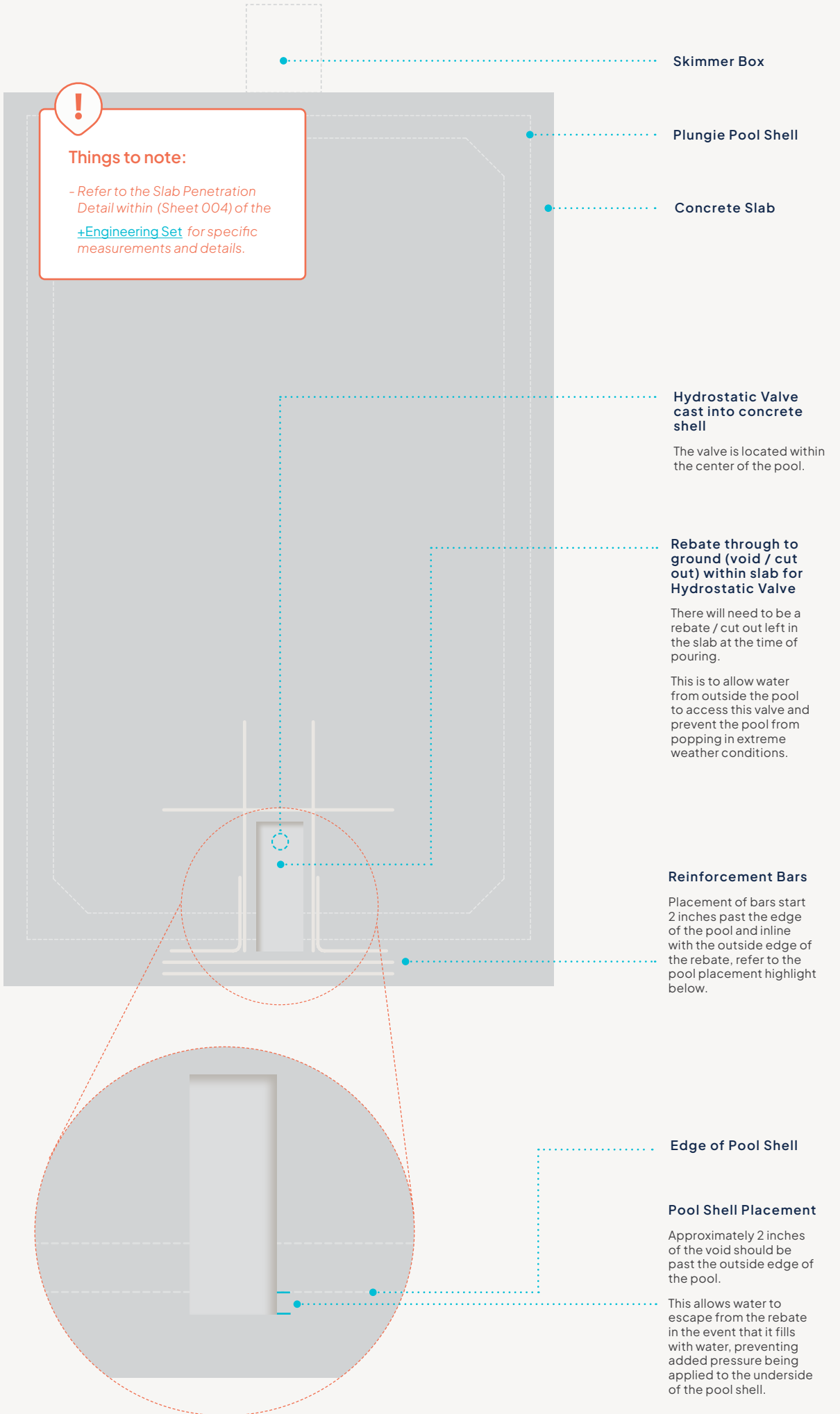
It is also recommended that the base slab is as level as possible. In no case should any opposite edges have a level difference greater than $\frac{1}{4}$ ".

Concrete Slab Layout Example Plungie Max (In-Ground)

The above images must be read in conjunction with our Engineering Set, [click here](#) to request a copy.

The images are for representation purposes only as each site will vary depending on the Plungie model, soil type, location and placement of the pool.

Typical Slab Penetration Rectangular

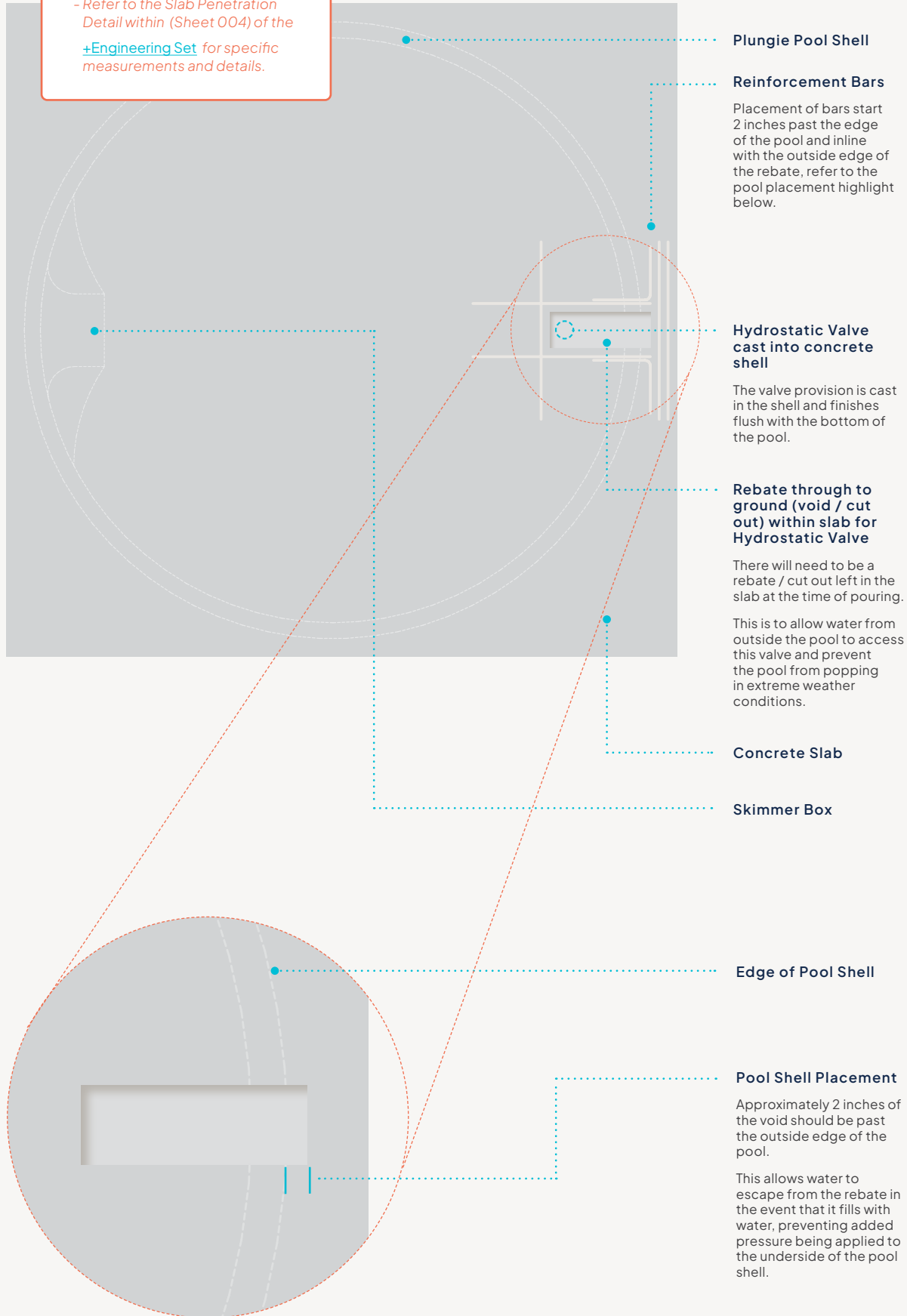


Typical Slab Penetration Circular



Things to note:

- Refer to the Slab Penetration Detail within (Sheet 004) of the [+Engineering Set](#) for specific measurements and details.



Step 4

Crane Hire + Delivery

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GET READY TO...

- Book crane hire
- Confirm delivery date and time
- Mark placement of pool on slab
- Order back fill ready for day of install
- Crane into place

Crane Hire

At the point of delivery, a crane is required to lift the pool from our delivery truck and place it onto the concrete base slab footing.

Crane hire is one of the most variable factors in an installation, as they are always site-specific and significantly affected by the degree of property access. Crane booking and cost is at the customer's expense.

Most reputable crane hire companies offer a free site assessment and quote. We provide you with a detailed lifting diagram, which has all the information your crane hire company will need.



Provide the detailed lifting diagram to your crane hire company prior to your site assessment.

[+ Arena Lifting Diagram](#)

[+ Studio Lifting Diagram](#)

[+ Original Lifting Diagram](#)

[+ Max Lifting Diagram](#)

CRANE ACCESS

Understanding accessibility plays a crucial role in determining the overall ease, speed and cost of your installation. This is because no two sites are exactly alike, which means no two installations are exactly alike.

In order to get a Plungie into your yard, a crane is required to lift the pool from the delivery truck and place onto the footing on your property. Crane hire is one of the most variable factors when installing a Plungie and is influenced by a number of elements, such as:

- Road access
- The desired Plungie location
- Crane set up position
- Reach distance
- Whether road closure is required
- Site conditions including open excavations and overhead power lines

Any lift is possible, but the more complicated the lift or restricted the access, the higher the crane cost may be.

We encourage you to take the time to fully comprehend and understand the accessibility of your property for the Plungie installation process.

Take a walk around your property, or use satellite imagery to gauge the type of access you have. Google Maps is often sufficient, but there are online alternatives, such as Near Maps available should Google Maps not have the most up-to-date imagery.

VACANT LOT / CLEAR ACCESS

A vacant lot provides the easiest and most straightforward point of access, as a crane can drive the pool straight onto the site and put it in place. A vacant neighboring property may also provide easy and straightforward access, depending on the desired pool placement location.

SIDE ACCESS

Access down the side of a property can also allow for a crane to drive the pool straight onto the site and put it in place. Slew cranes may also be used in properties with side access. This allows for a closer vantage point and minimizes the required reach distance. Any protruding objects, such as eaves, guttering, gas and water infrastructure, overhanging trees and power lines, may affect your access and should also be considered. A neighboring property may also provide side access, depending on the desired pool placement location.

OVER THE STRUCTURE/HOUSE

Where access is restricted by a structure or a house, the Plungie can be lifted over these using a slew crane. The slewing crane would need to be set up in a clear space, large enough to allow for its setup footprint and to be able to lift over the structure or home. This is where reach distance plays a significant part in your crane cost. The further the reach, the larger the crane, and the larger the crane, the higher the cost.

Delivery

We deliver everywhere in America and our pools are dispatched out of the following location:

- **Locke Solutions**
8328 E Highway 67, Building C&D
Alvarado, TX 76009

DELIVERY TRUCK SIZE

Plungies standard freight quotes are based on delivery from their facility to the address specified on the quote using either a semi-trailer or body truck. This can be confirmed at time of order.

SEMI-TRAILER

Streets not suitable for semi-trailer:

- If the street has a dead end or cul-de-sac as it will require room to turn around and get out.
- If the street has a weight limit.
- Low powerlines.
- On-route to site streets that have overhanging trees, are narrow and winding, including single lane roundabouts, concrete traffic islands or speed bumps.
- Plungie Dispatch Department can provide a map search on request.

BODY TRUCK (12T FLAT BED)

- Recommended if the street has a dead end or a cul-de-sac.
- Body trucks require more turning circle room than cranes.

SITE ACCESS

The confirmation of access is the responsibility of the builder or home owner placing the order.

If your site poses challenges for our standard transport solutions, we can often liaise with your chosen crane hire company to arrange delivery of your Plungie to their depot. They will then arrange delivery on a more suitable truck to your site at their rates.

Customer collection from our sites

Customers can choose to organize their own freight collection from one of our sites. This will incur a handling fee per pool which can be supplied at time of quoting.

Collection Locations:

- **Locke Solutions**
8328 E Highway 67, Building C&D
Alvarado, TX 76009



Things to note:

- You will be contacted 14 days prior to expected dispatch date of the pool to confirm you are ready to be booked for freight or collection.
- If you require any changes to your delivery date, this must be communicated prior to 14 days to prevent storage fees.
- Standard delivery includes an unload time allocation of one hour. Additional charges may apply if truck is onsite for longer.
- Futile charges for freight cancellations may apply within 48 hours of dispatch.

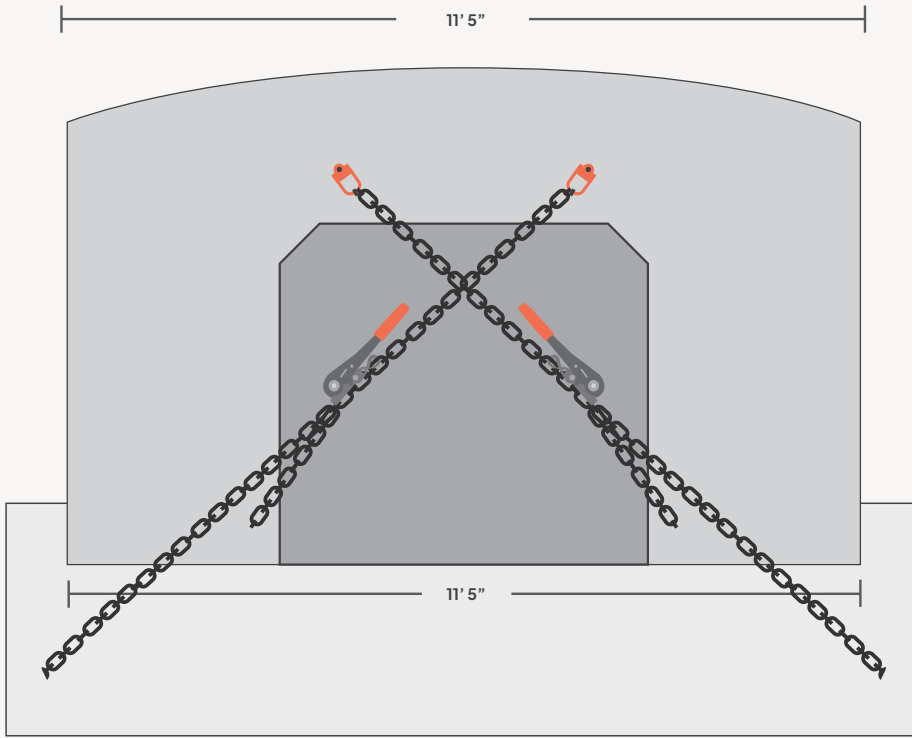
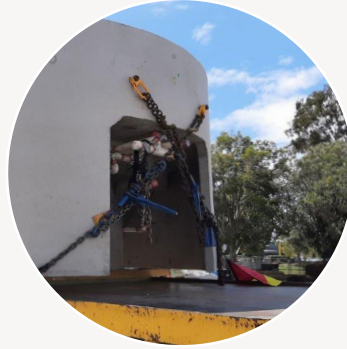
Lashing Diagram Arena

DIMENSIONS

Diameter	11' 5"
Height	5' 6½"
Weight	16,000 lbs
Lashing points	4 x Conac Swivel Lift Plate (SWLP10)
Tools required	1½" socket



Note
Cross lashing required on both front and back of the Plungie Arena.



Lashing Diagram Studio

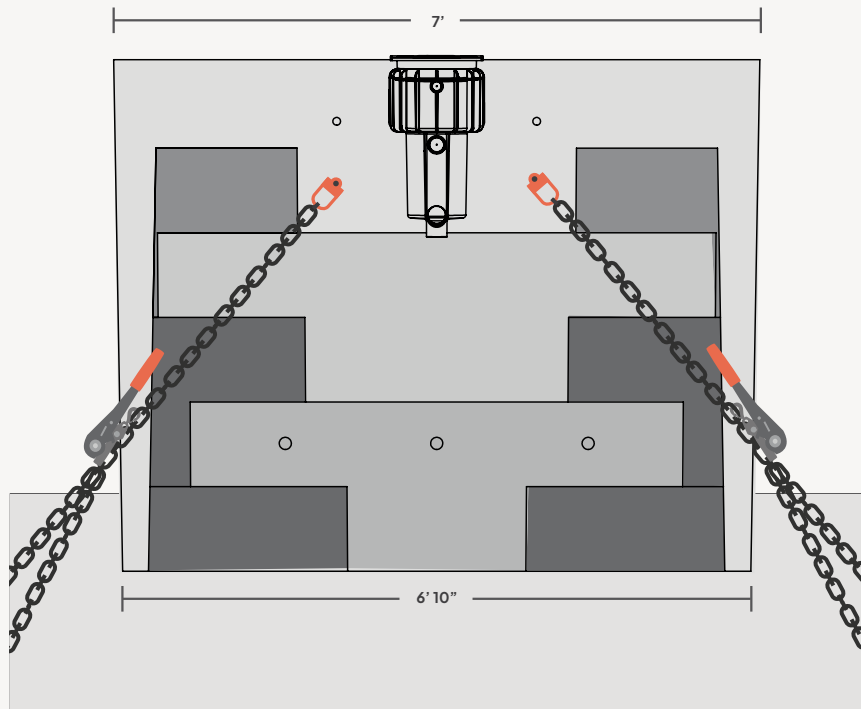
DIMENSIONS

Length	12'
Width	7'
Base Width	6' 10"
Height	5' 6½"
Weight	15,000 lbs
Lashing points	4 x Conac Swivel Lift Plate (SWLP10)
Tools required	1½" socket



Note

Cross lashing only required on opposite end to the skimmer and plumbing.

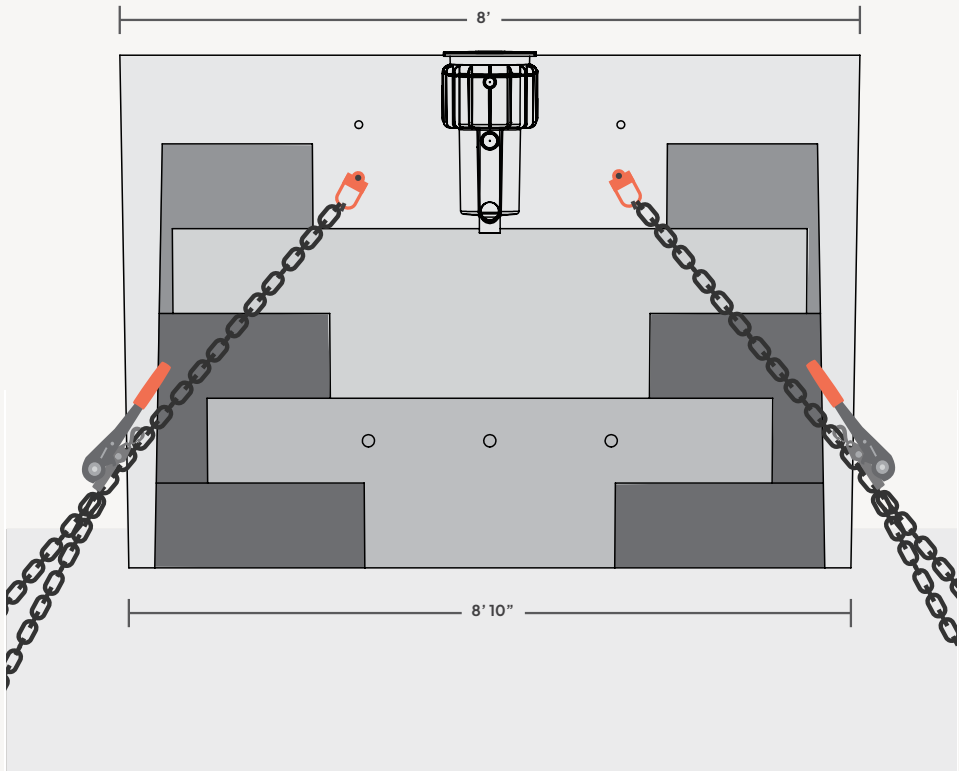


Lashing Diagram Original

DIMENSIONS

Length	15'
Width	8'
Base Width	7'10"
Height	5' 6½"
Weight	18,000 lbs
Lashing points	4 x Conac Swivel Lift Plate (SWLP10)
Tools required	1½" socket

!
Note
Cross lashing only required on opposite end to the skimmer and plumbing.



Lashing Diagram Max

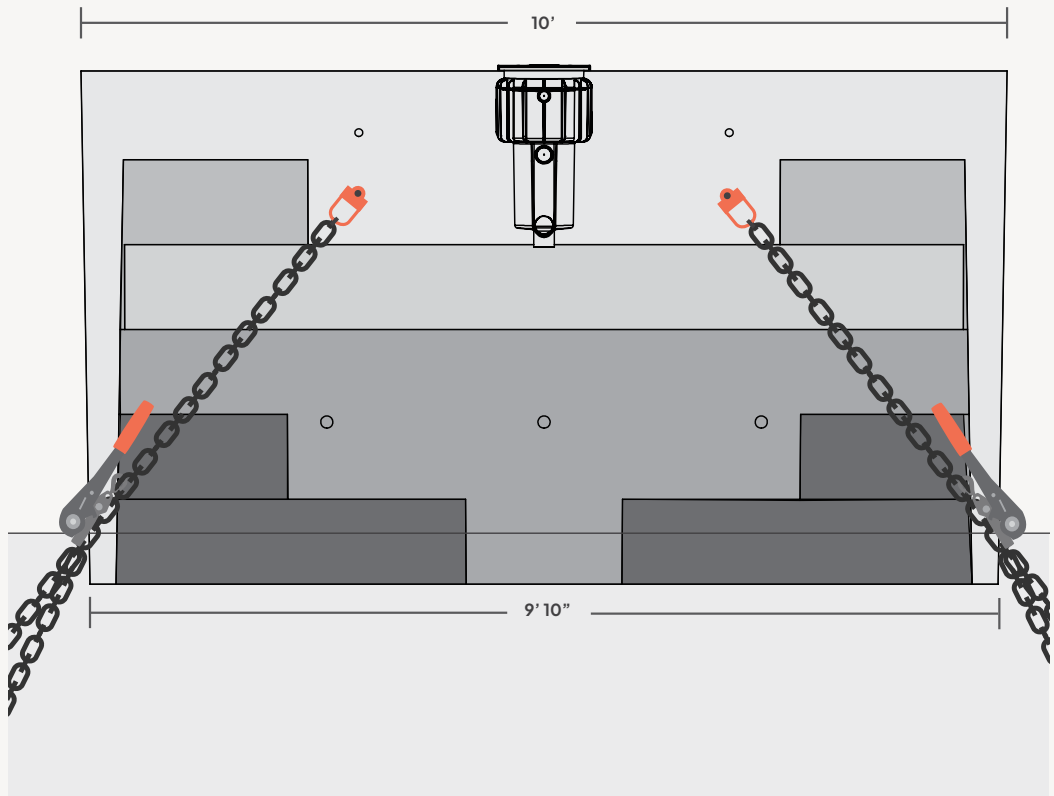
DIMENSIONS

Length	20'
Width	10'
Base Width	9' 10"
Height	5' 6½"
Weight	26,000 lbs
Lashing points	4 x Conac Swivel Lift Plate (SWLP10)
Tools required	1½" socket



Note

Cross lashing only required on opposite end to the skimmer and plumbing.



Crane Lifting

Ensure your crane operator has the correct lifting documents provided by Plungie to allow for a safe, gentle placement of your Plungie onto your prepared slab.

Once the transport restraints have been removed, your Plungie is now in the care and responsibility of your trusted and skilled crane providers.

Your Plungie will be sent with the lifting lugs attached, either at the end or in a transport lashing position. Please ensure your crane provider unscrews these lugs and places them in the lifting position. Correct setting of the crane spreader bar is critical for a safe lift, that doesn't 'choke' your new Plungie. We are experienced at lifting heavy things, so please at any point if you, or your crane provider need any assistance, reach out to us.

SLEW CRANE

A slew crane is a stationary revolving crane. In a residential setting, they're often used to lift a Plungie over a home, or any other structure such as fencing, trees and garages. They have stabilizer legs and outriggers and therefore require a larger setup footprint for operation, having the capacity to lift greater distances of up to 40m or more. Once under load, a slew crane will pick up a Plungie, reach, and rotate it to a specific point, before placing it in position.



You will be required to:

Arrange for crane hire to be on-site at point of delivery to lift the pool from the delivery truck to its prepared footing on your site.

Order back fill to arrive day of delivery for in-ground installations. It is recommended that back fill is completed once the pool is installed to prevent any movement. Refer to [Step 5](#) for additional information on back fill requirements.

PLUNGIE WILL SUPPLY YOU WITH:

- Standardized lifting diagrams containing key information required for all crane hire engagement

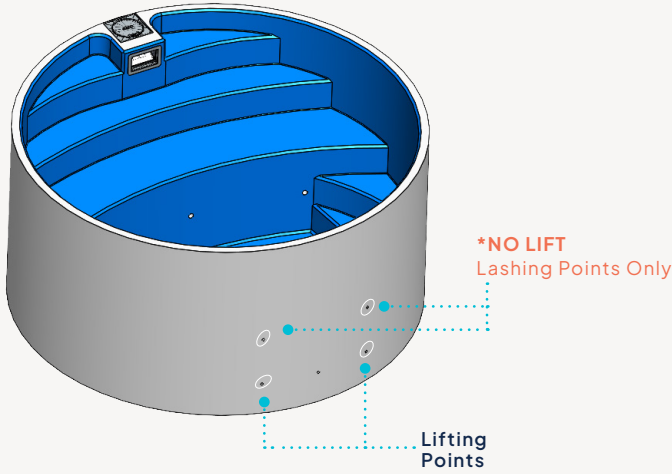
12" x12" Box delivered with your Plungie containing the following:

- Skimmer key
- Light tool
- 4 x grounding clamps, washers and nuts
- 4 x 4 inch coil bolts for lifters
- Threaded Hydrostatic valve
- Hydrostatic valve cover and screw



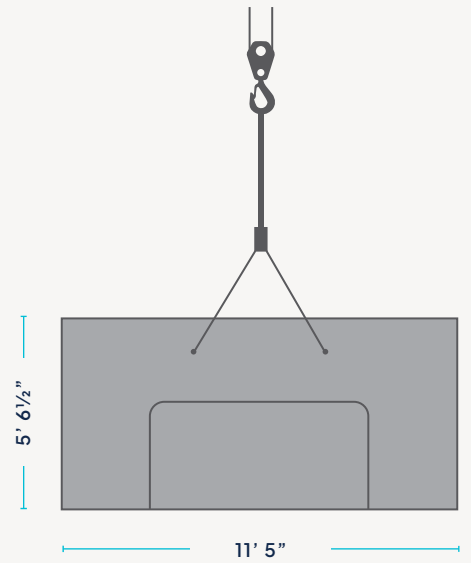
Note: Your Plungie may come with the hydrostatic valve installed, if not the cover and tools to install this is located within this box.

Lifting Diagram Arena



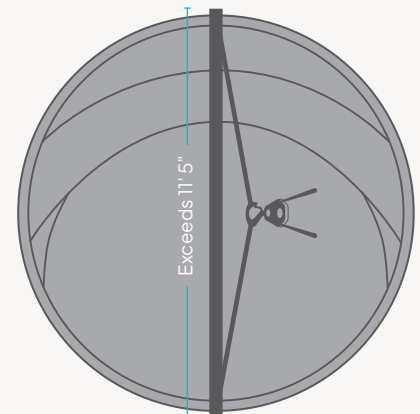
Plungie Arena Lifting Specifications

Diameter	11' 5"
Height	5' 6½"
Weight	16,000 lbs
Lift Type	Spreader bar with straps / chains
Lifting Points	1" x 4" Coil Bolts (provided)
Tool Required	1½" Deep Socket and Extended Socket Ratchet

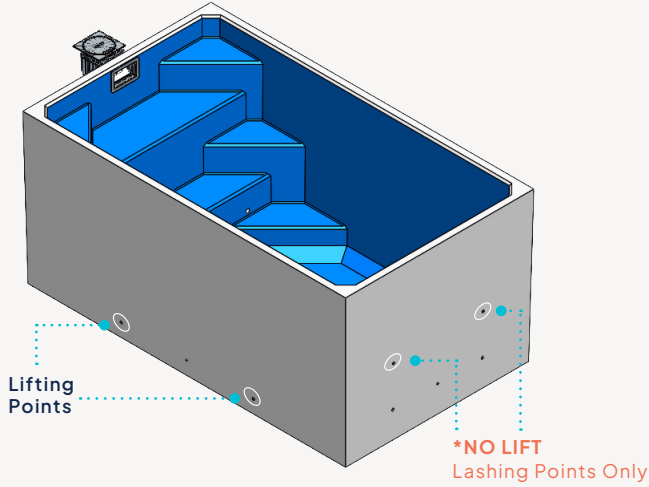


Important Information

The tools required must be provided by the crane company. Damage to the product may occur and void the warranty if not lifted correctly. Padding or a guard may be needed in cases to prevent physical damage.

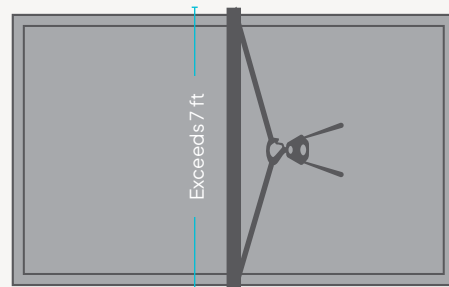
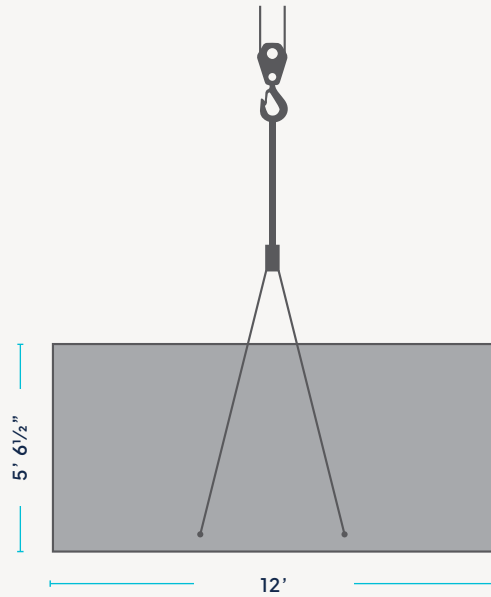


Lifting Diagram Studio



Plungie Studio Lifting Specifications

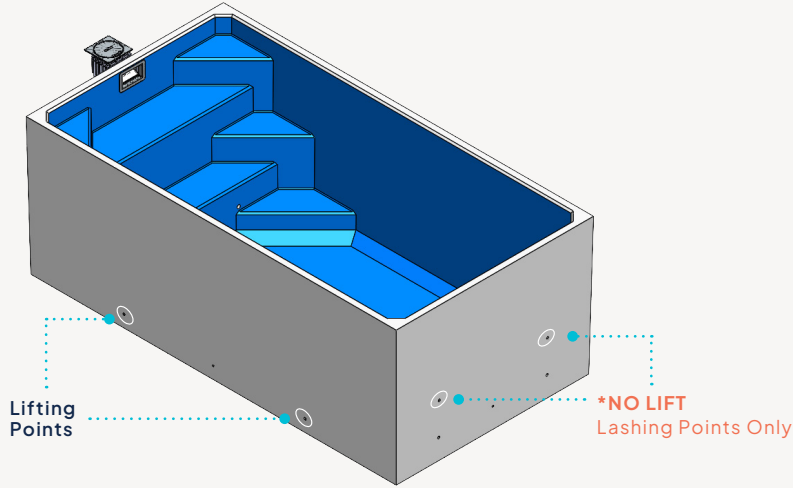
Length	12'
Width	7'
Height	5' 6½"
Weight	15,000 lbs
Lift Type	Spreader bar with straps / chains
Lifting Points	1" x 4" Coil Bolts (provided)
Tool Required	1½" Deep Socket and Extended Socket Ratchet



Please note:

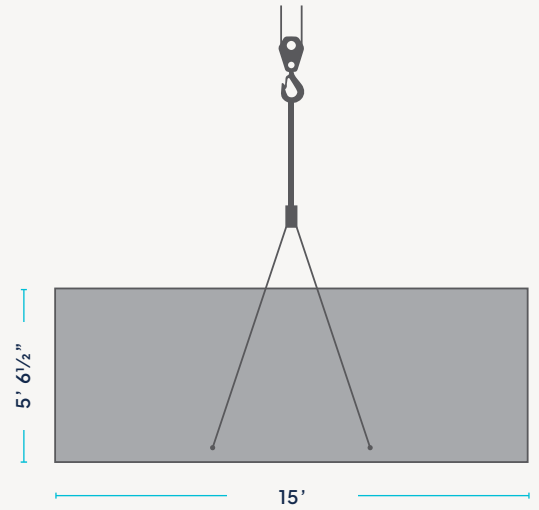
The tools required must be provided by the crane company. Upon arrival, move the swivels from the lashing position to the lifting position. Damage to the product may occur if not lifted correctly. Padding or a guard may be needed in cases to prevent physical damage.

Lifting Diagram Original



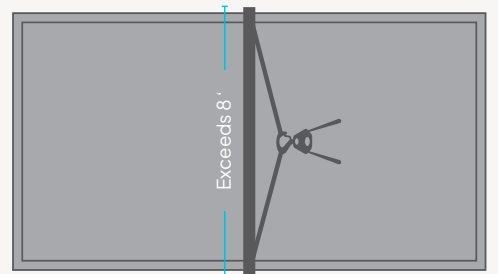
Plungie Original Lifting Specifications

Length	15'
Width	8'
Height	5' 6½"
Weight	18,000 lbs
Lift Type	Spreader bar with straps / chains
Lifting Points	1" x 4" Coil Bolts (provided)
Tool Required	1½" Deep Socket and Extended Socket Ratchet

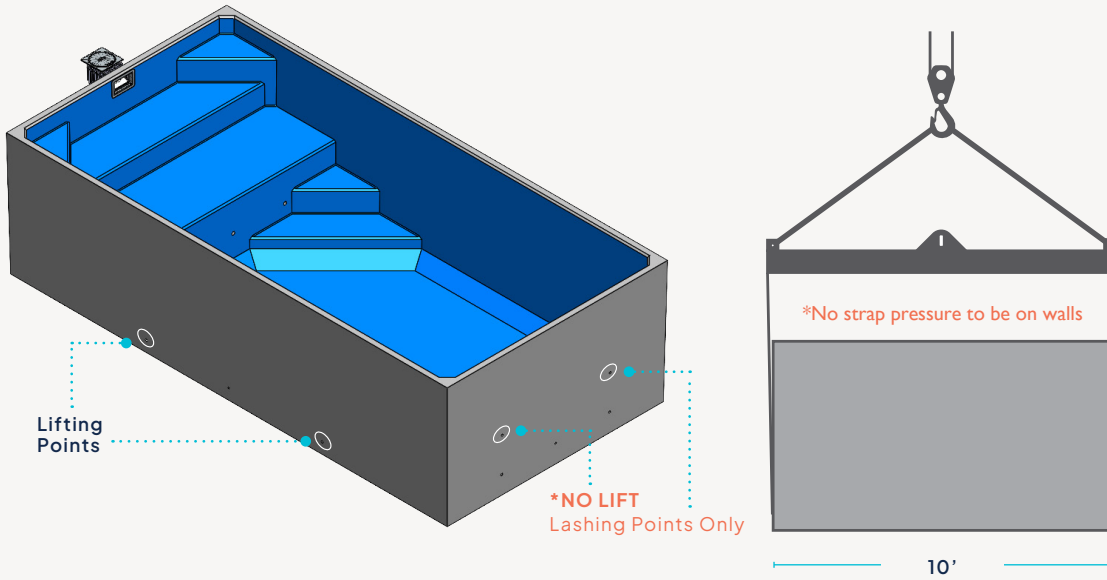


Please note:

The tools required must be provided by the crane company. Upon arrival, move the swivels from the lashing position to the lifting position. Damage to the product may occur if not lifted correctly. Padding or a guard may be needed in cases to prevent physical damage.

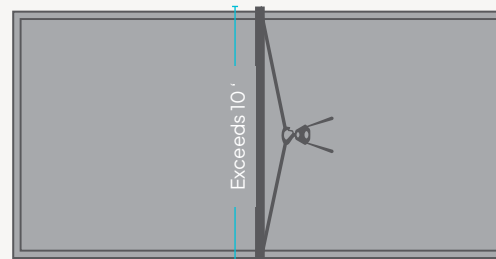
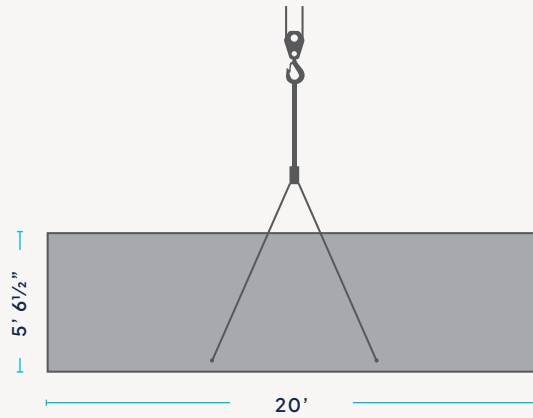


Lifting Diagram Max



Plungie Max Lifting Specifications

Length	20'
Width	10'
Height	5' 6½"
Weight	26,000 lbs
Lift Type	Spreader bar with straps / chains
Lifting Points	1" x 4" Coil Bolts (provided)
Tool Required	1½" Deep Socket and Extended Socket Ratchet



Please note:

The tools required must be provided by the crane company. Upon arrival, move the swivels from the lashing position to the lifting position. Damage to the product may occur if not lifted correctly. Padding or a guard may be needed in cases to prevent physical damage.

Step 5

Electrical + Backfill

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Backfill	39
Grounding Locations	40

GET READY TO...

- Ground your Plungie
- Back fill

Electrical

Every Plungie requires grounding, which must be completed by a trade-qualified electrician.

Grounding, or earthing/bonding as it's also known, is a process where the bonded pool components are connected to the earth, to direct and dissipate any electrical current to the ground and away from the pool.

The grounding location is connected to the welded steel framework inside your Plungie.

Plungie Certification:

- ICC-ES Certified (PMG-1629)
- UL Listed (E532606)

GROUNDING LOCATIONS

Refer to grounding details sheet within your [+Engineering Set](#) for grounding point locations.

GROUNDING LOCATION DIAGRAMS

- [+ Arena](#)
- [+ Studio](#)
- [+ Original](#)
- [+ Max](#)

ELECTRICAL REQUIREMENTS

ELECTRICAL REQUIREMENTS FOR FILTRATION

The filtration equipment requires access to power, ensure you have reviewed the manufacturers' guidelines detailing the electrical requirements.

If you purchase add on equipment, such as a heater, additional electrical provisioning is required.

ELECTRICAL REQUIREMENTS FOR LIGHT

Step Down Transformer is provided by Plungie and will be delivered within the 12" x 12" box.

To program the light [refer to this guide](#). Installation and further technical information available at www.hayward-pools.com

Backfill

If the Plungie is being installed in-ground or partially in-ground, you will need to backfill the over-excavated area of the Plungie footing.

Backfill around in-ground pools is to be lightly compacted, granular, non-expansive, nominal AASHTO #57 stone. The minimum width of the granular backfill zone is 8".

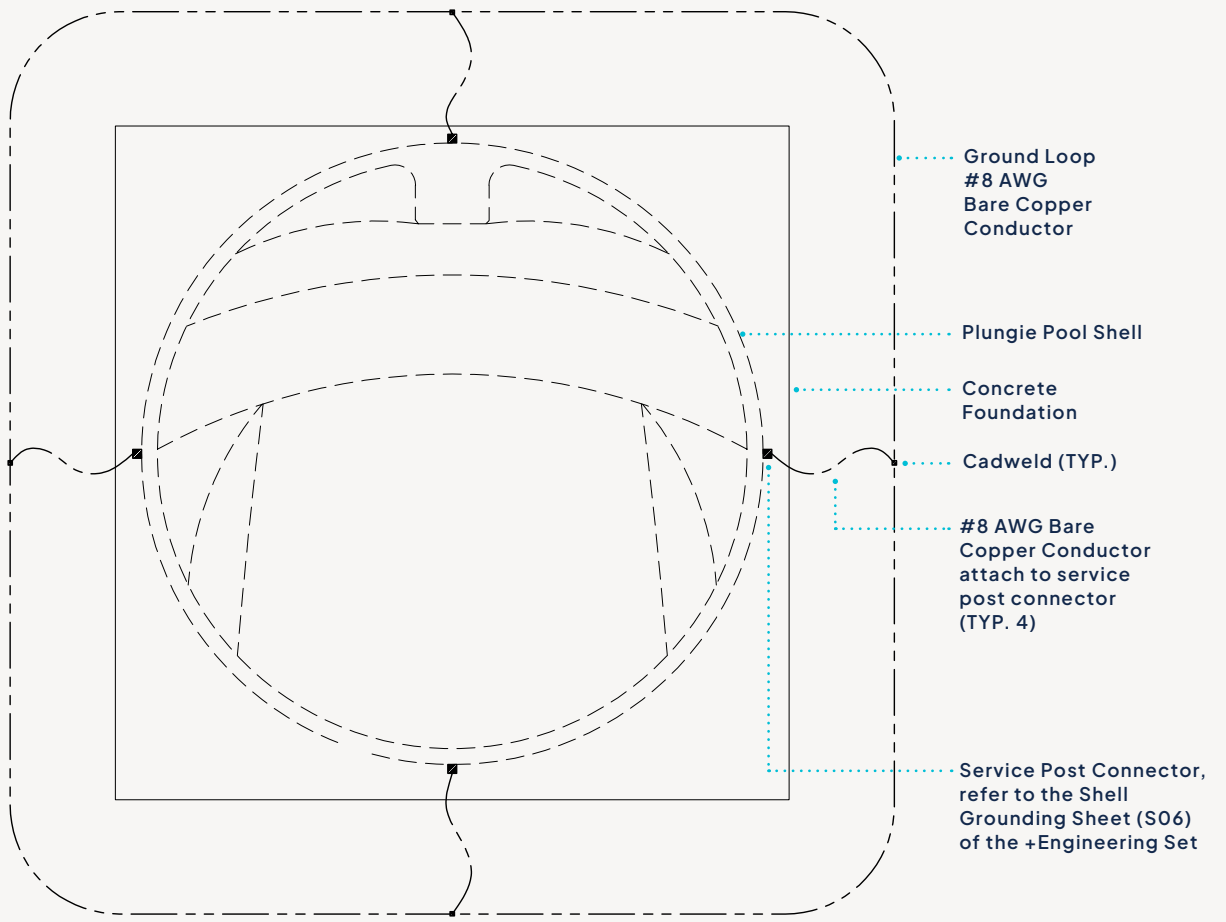
Do not over compact as this will induce excessive lateral earth pressures on the walls of the pool shell. Refer to the backfill schedule within your [+ Engineering Set](#) for maximum allowable batter angles.

Grounding Locations Arena

ARENA

GROUNDING LOCATIONS

- Refer to the detailed Grounding Plan included within Sheet 6 of the +Engineering Set.

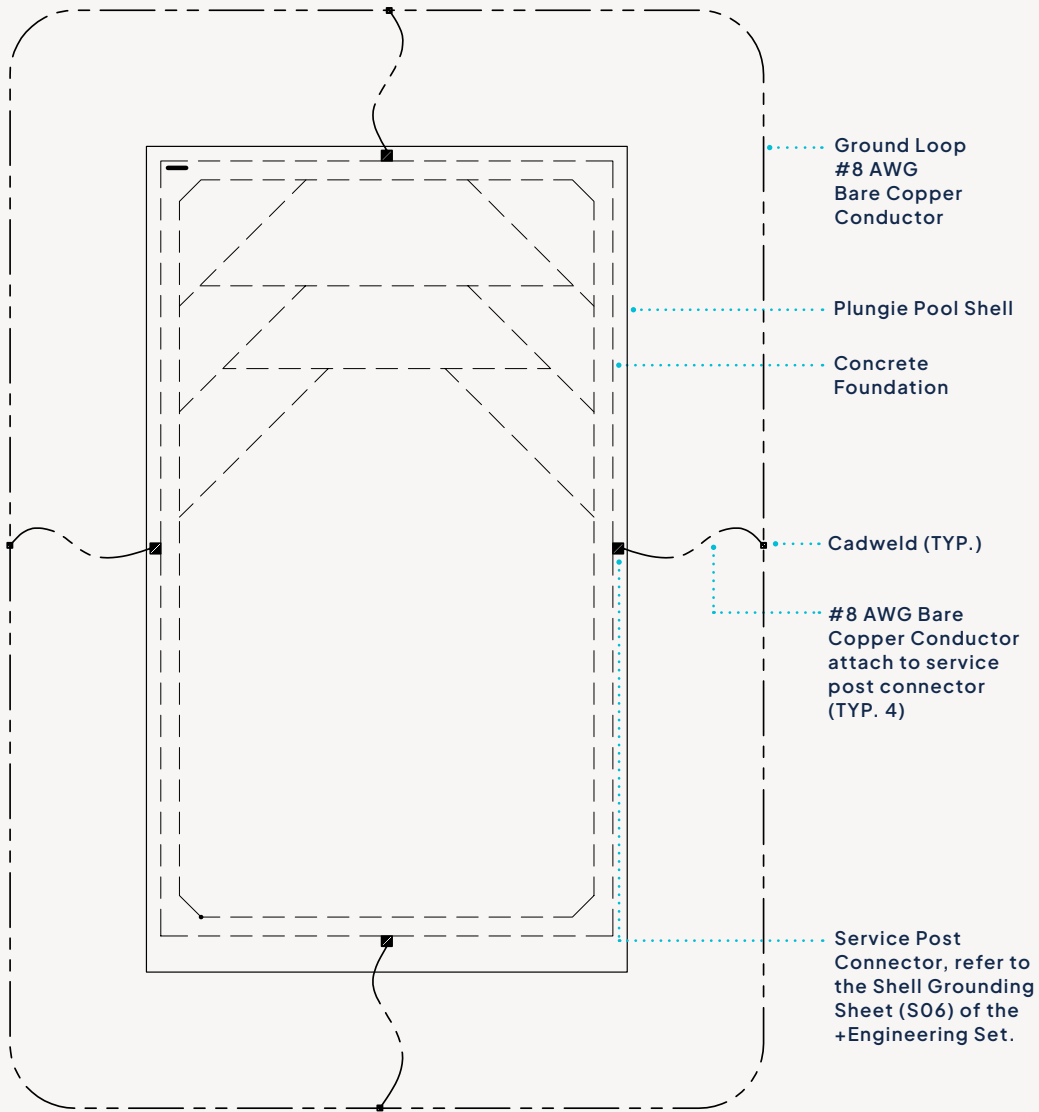


Grounding Locations Studio

STUDIO

GROUNDING LOCATIONS

- Refer to the detailed Grounding Plan included within Sheet 6 of the +Engineering Set.

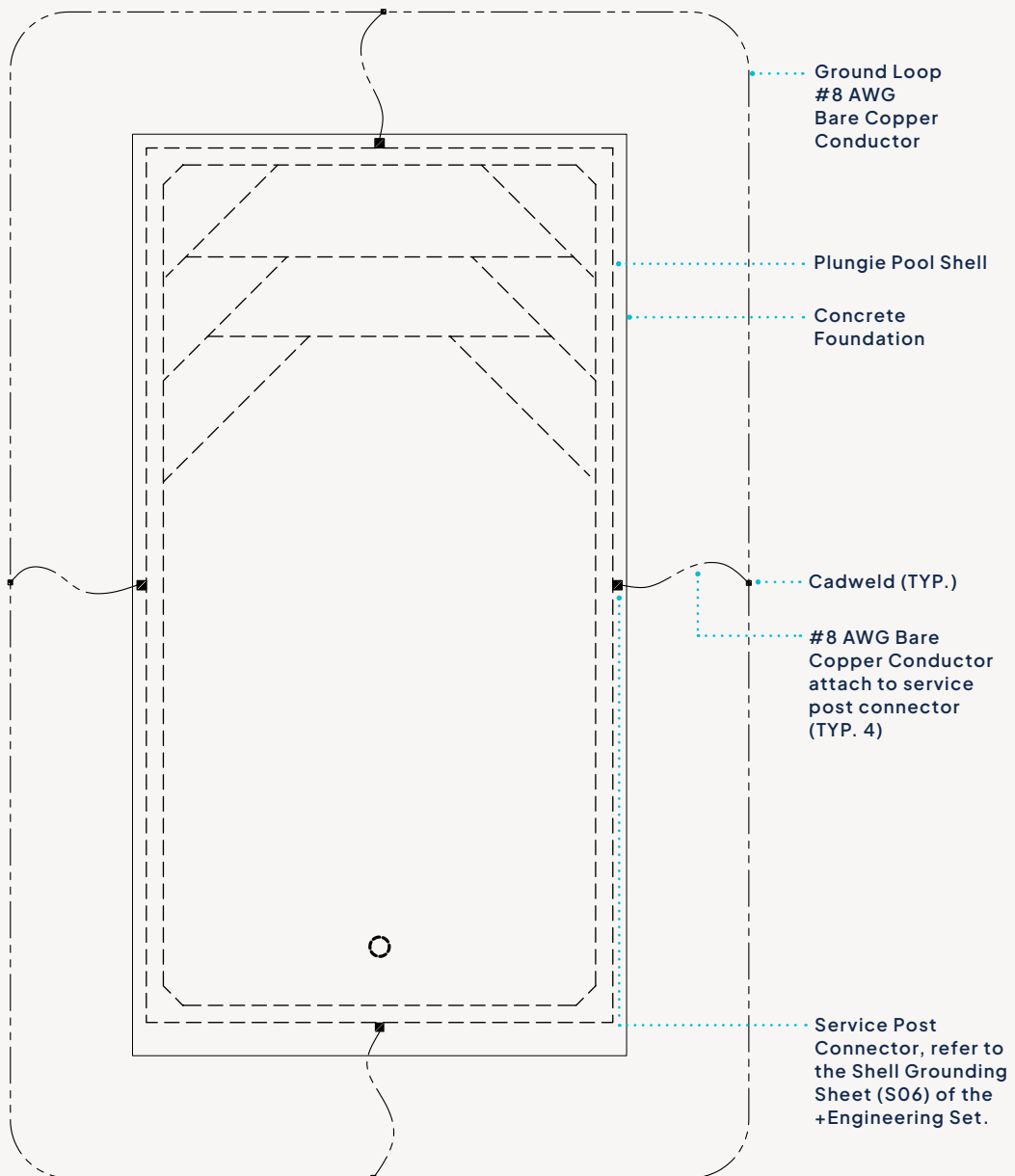


Grounding Locations Original

ORIGINAL

GROUNDING LOCATIONS

- Refer to the detailed Grounding Plan included within Sheet 6 of the +Engineering Set.

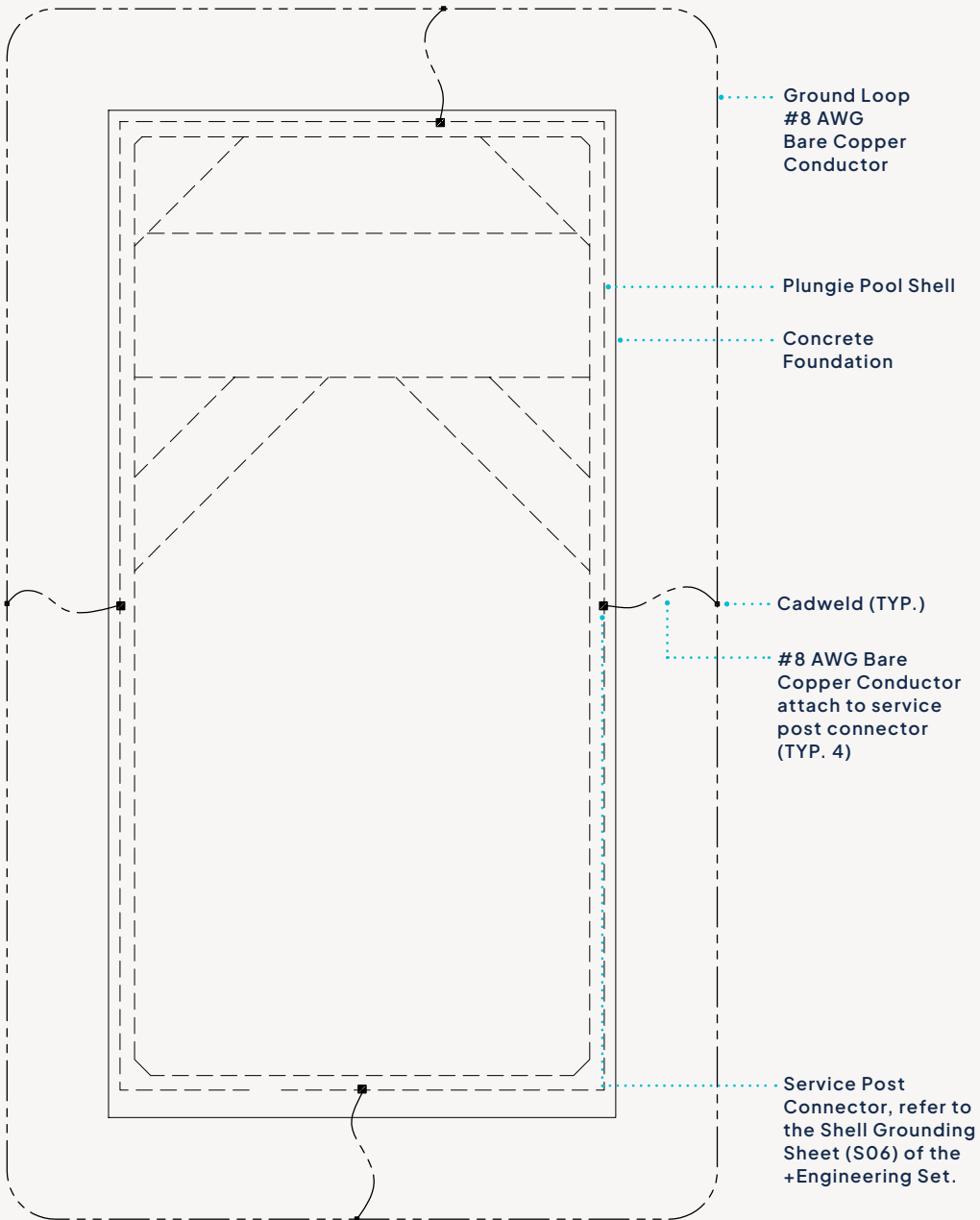


Grounding Locations Max

MAX

GROUNDING LOCATIONS

- Refer to the detailed Grounding Plan included within Sheet 6 of the +Engineering Set.



Step 6

Plumb Up

Plumb Up	45
Provision and specifications	46
Five internal provision configuration	49
(Arena) Five internal provision configuration	53
Standard Equipment Configuration	57
Standard Equipment and Heater Configurations	58
Spa Jets + Venturi Jet Configuration	59
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Water Overflow	61

GET READY TO...

- Ensure required power provisions are made available
- Plumb Up
- Connect Equipment

Plumb Up

Every Plungie is supplied with its primary plumbing fixtures prefitted. This includes the skimmer box and provisions for general filtration.

This plumbing configuration means that you no longer need your nominated plumbing service on site at time of delivery.

The pool will then require a plumb-up service to connect the general filtration equipment to these prefitted provisions. Depending on the chosen equipment, this can be completed by a pool service professional, builder, pool builder, or a plumber.

A standard equipment package can also be included when purchasing your Plungie including pump, chlorinator and filter.

PUMP LOCATION

Refer to your pump manufacturers product guide for the recommended maximum distance the pump can be placed away from the pool. If it exceeds this distance you may require a more powerful pump or to run the pump for a longer duration to achieve the same results.

PLUNGIE WILL SUPPLY YOU WITH:

- All primary plumbing (skimmer box, hydrostatic valve and filtration returns)
- A plumbing installation guide, which outlines the provisions in your Plungie and how your equipment needs to be set up. Packages range from your Base equipment, through to Eco and Smart options, depending on your specific requirements.







You will be required to:


- Ensure that the required power provisions are made available for the equipment package to run
- A concrete pad is recommended to house your equipment. If your pool is out of the ground, the stair void is the perfect location.
- Equipment pad distance from pool may impact the hydraulic performance of your pump

Plumbing Guide

Provision Labels + Usage

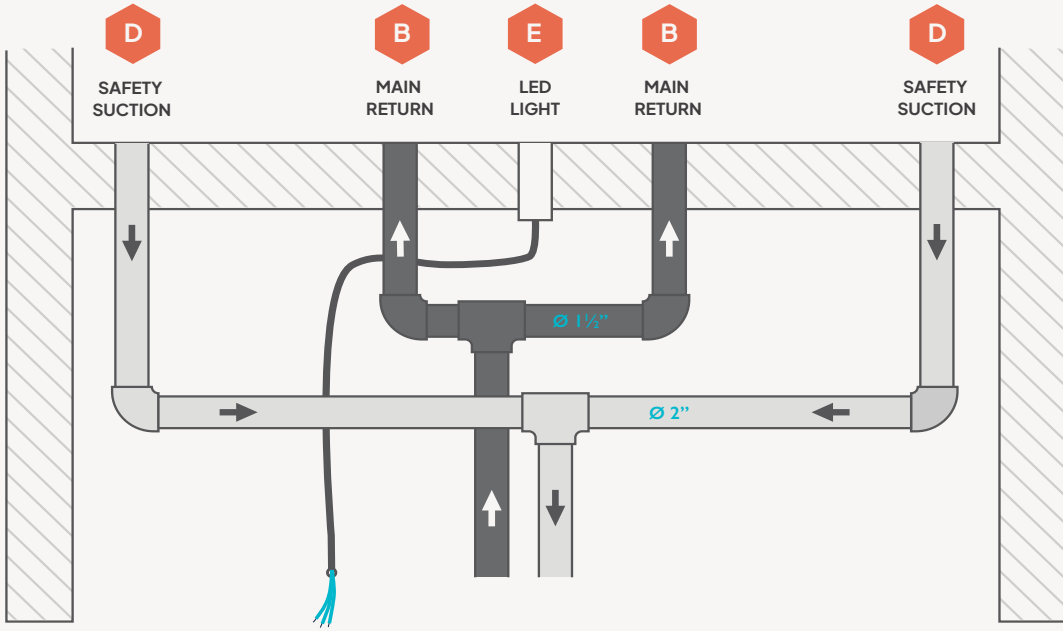
REGULAR PROVISIONS	DIAMETER	FUNCTION
 SKIMMER SUCTION	2 inch	Main pipe from the skimmer box to pool equipment providing chlorination and filtration.
 RETURNS	1.5 inch	Primary return plumbing returning water from chlorination and filtration through eyeball outlets.
 SAFETY SUCTION	2 inch	Safety suction provision for use when second pump requirements are needed (additional to skimmer).
 LED LIGHT	1 inch	Wiring for pre-fitted LED light. Requires connection to supplied transformer and electricity supply. Conduit from the pool, light cable.

OPTIONAL PROVISIONS

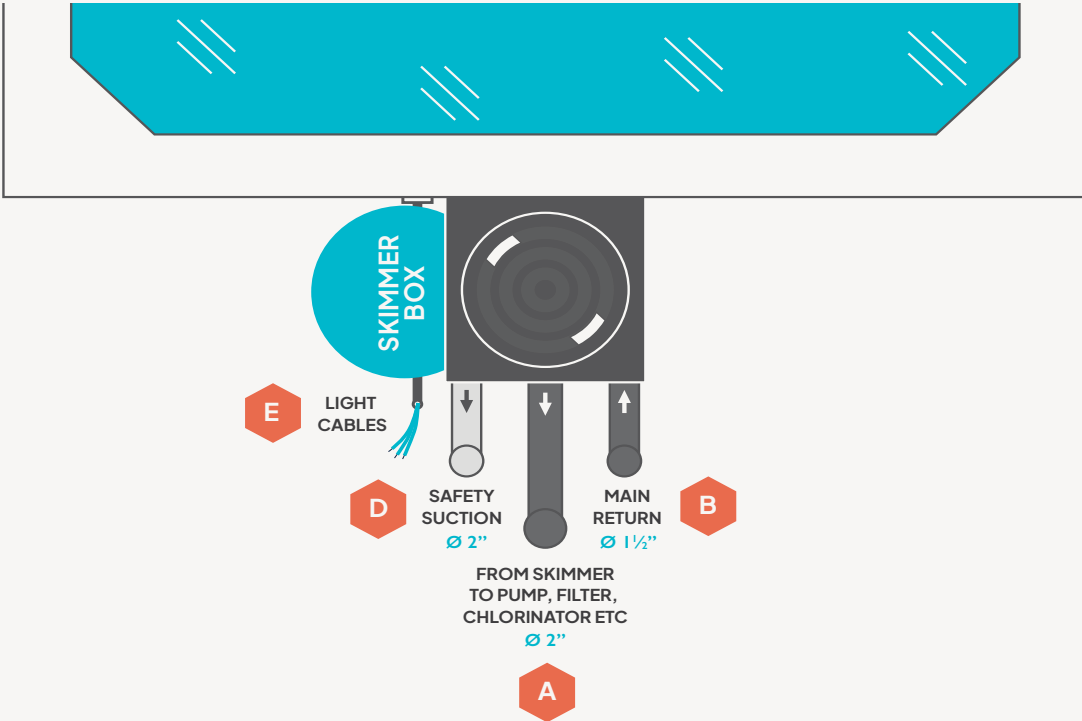
 SWIM JET		Provisions can be core drilled into the end of the pool to allow for the addition of swim jets.
--	--	---

5 Internal Provisions

LOWER SECTION

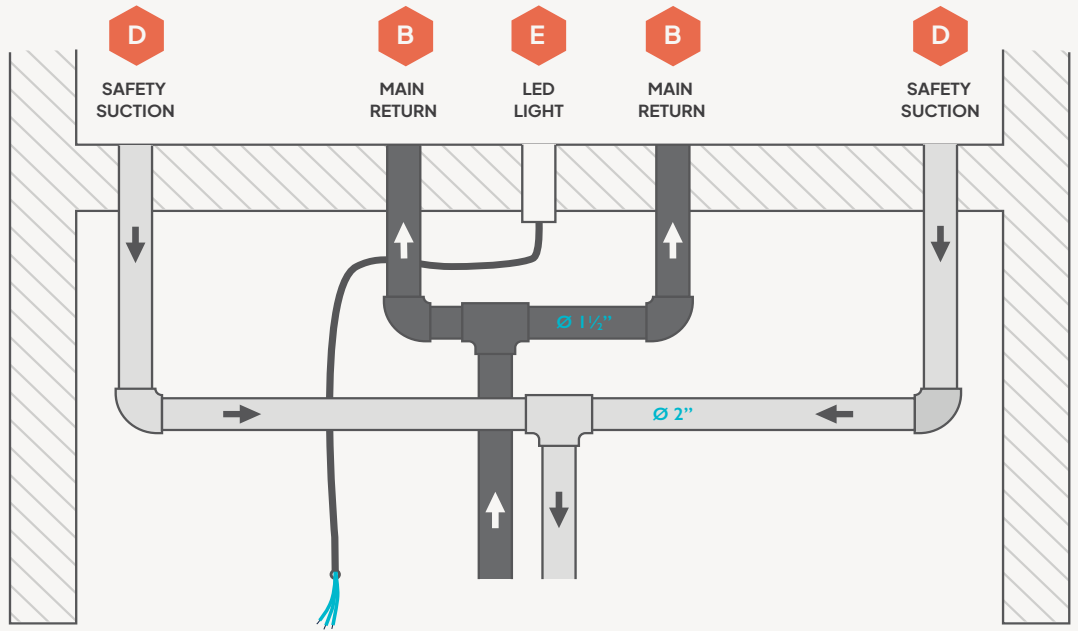


UPPER SECTION

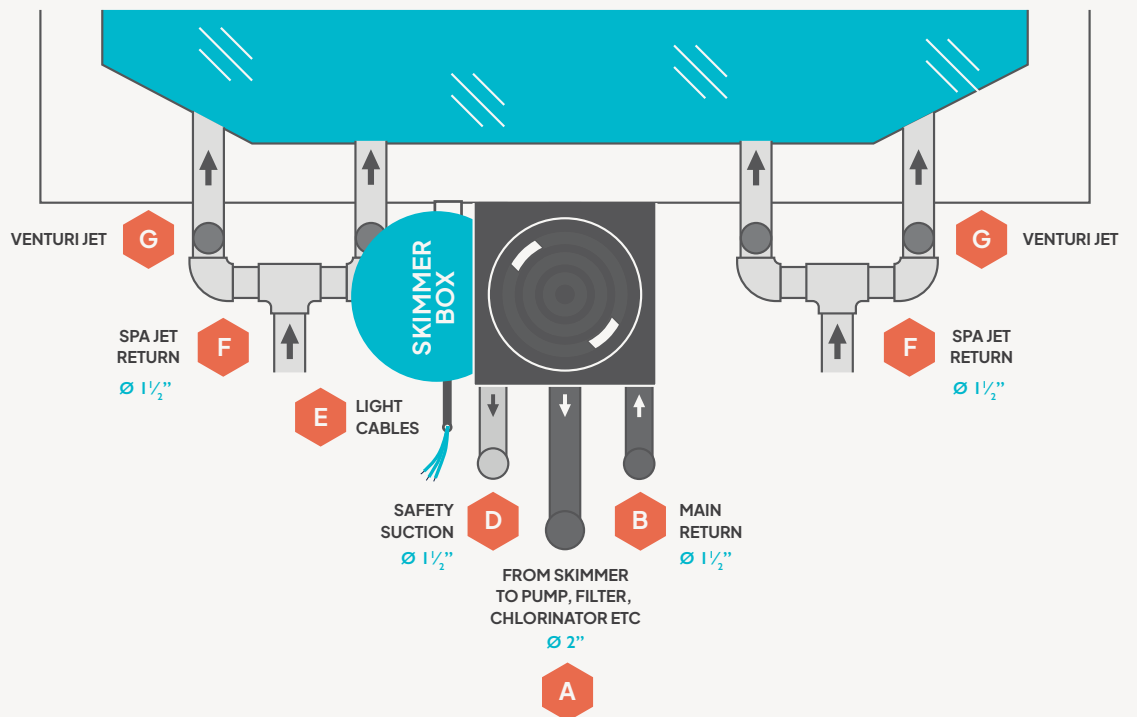


5 Internal Provisions + Spa Jets

LOWER SECTION

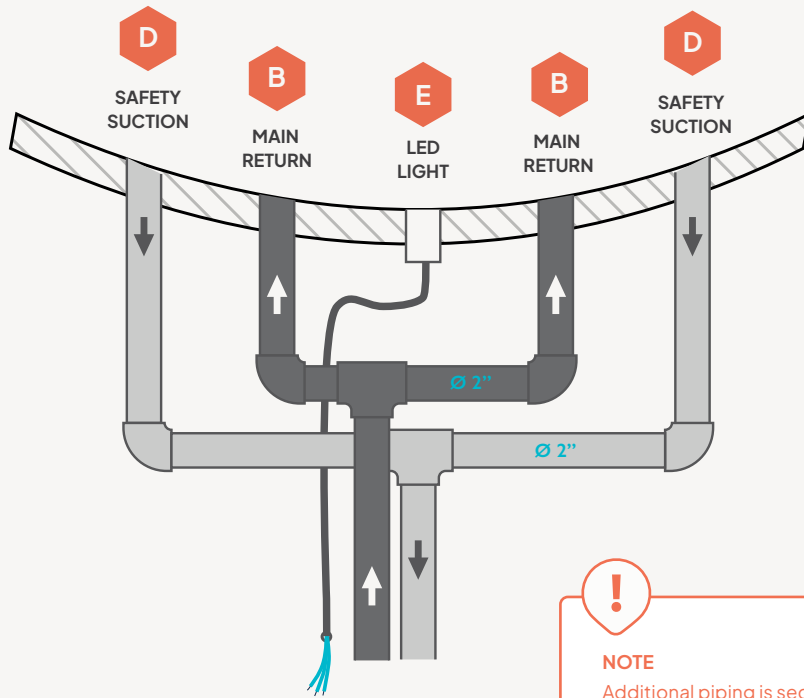


UPPER SECTION



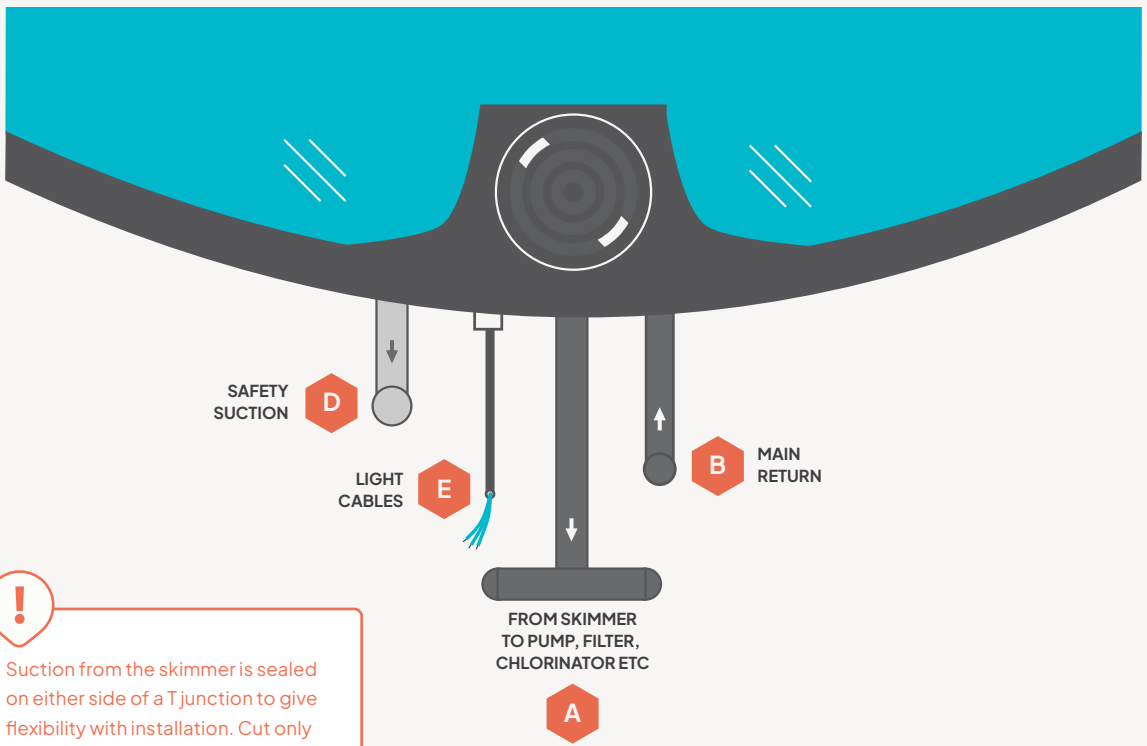
5 Internal Provisions

LOWER SECTION



NOTE
Additional piping is secured under the Arena for transport.

UPPER SECTION

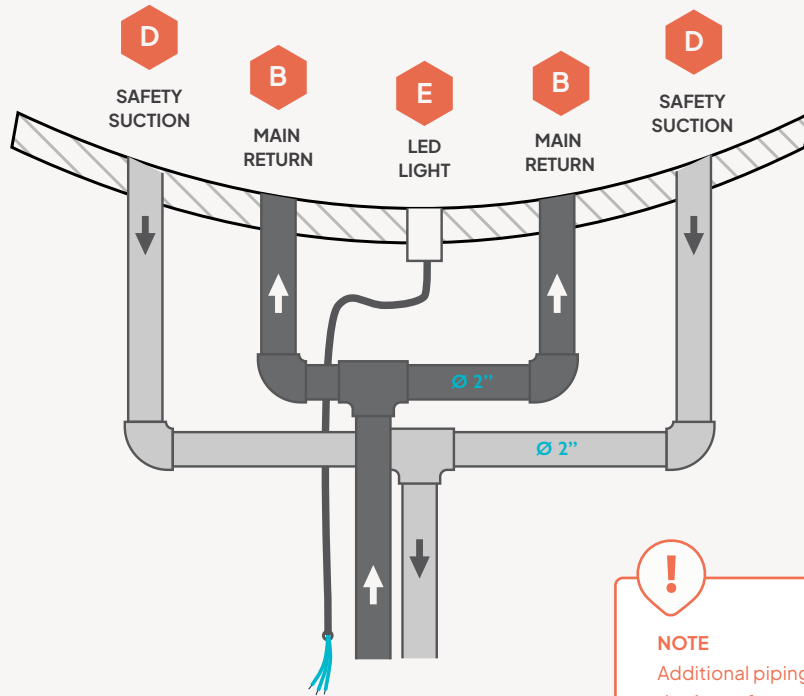


!
Suction from the skimmer is sealed on either side of a T junction to give flexibility with installation. Cut only one end of the junction for access.

5 Internal Provisions + Spa Jets

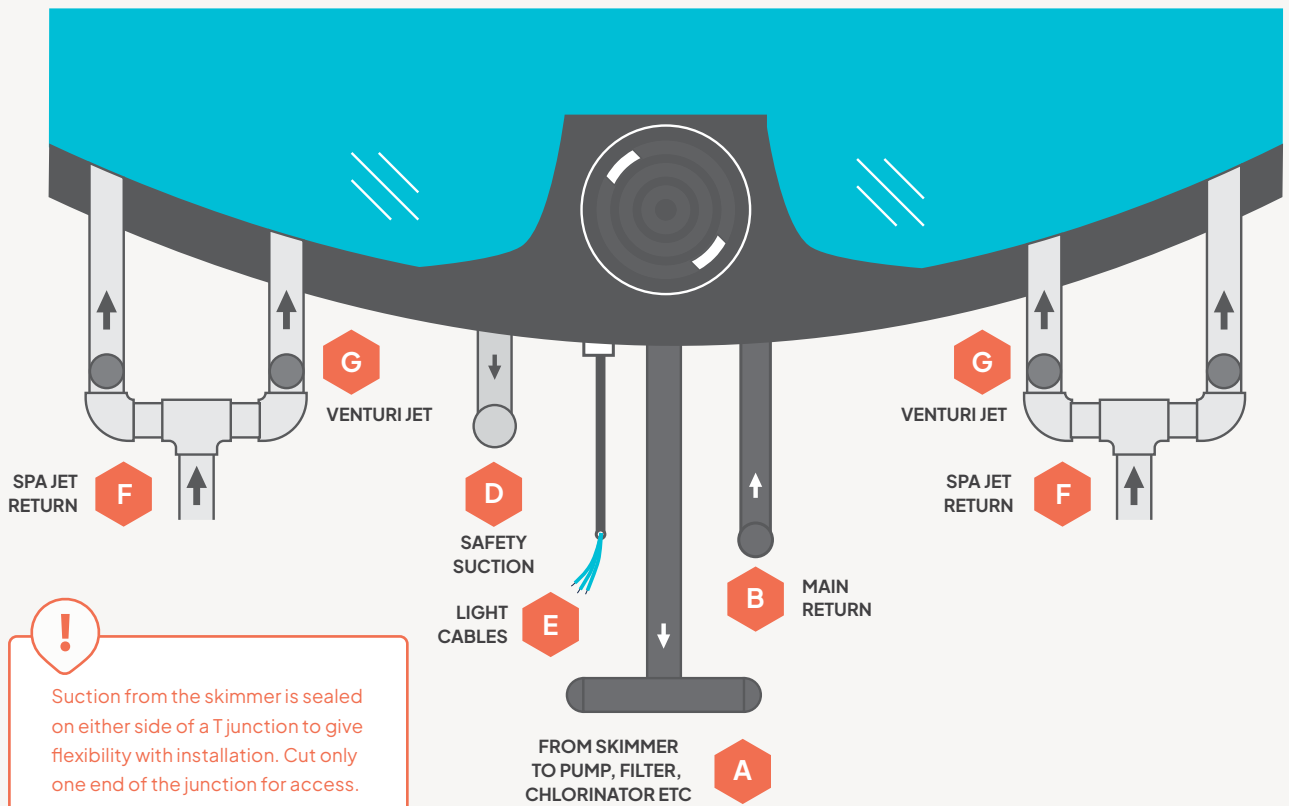
ARENA

LOWER SECTION



NOTE
Additional piping is secured under the Arena for transport.

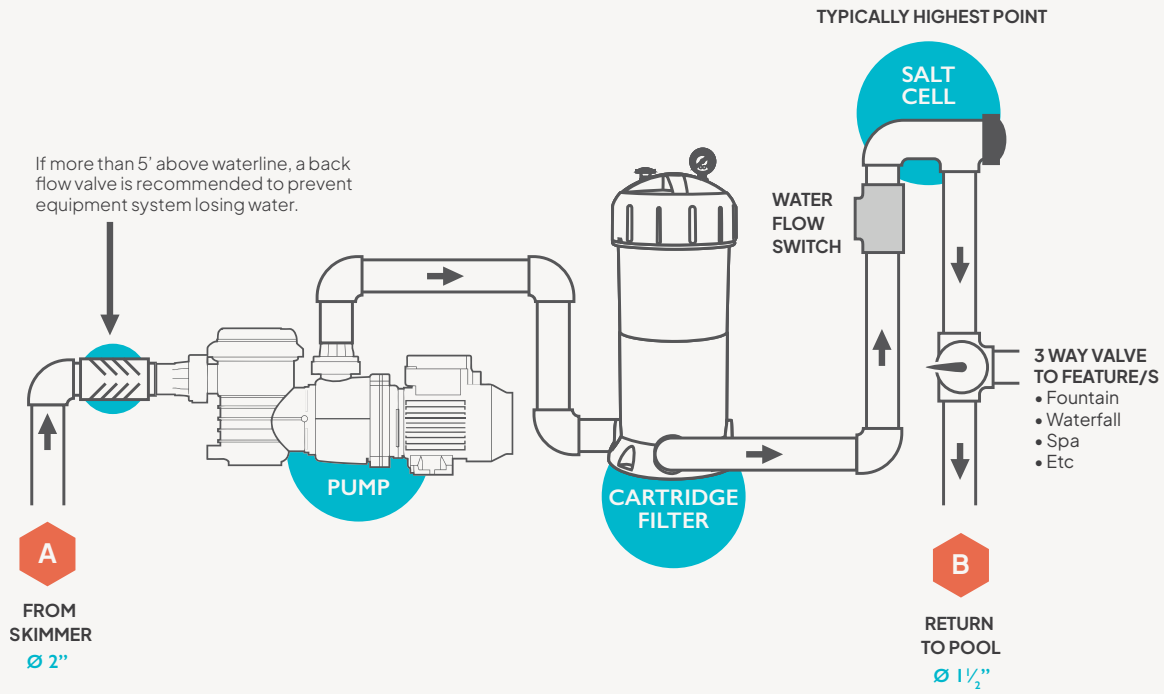
UPPER SECTION



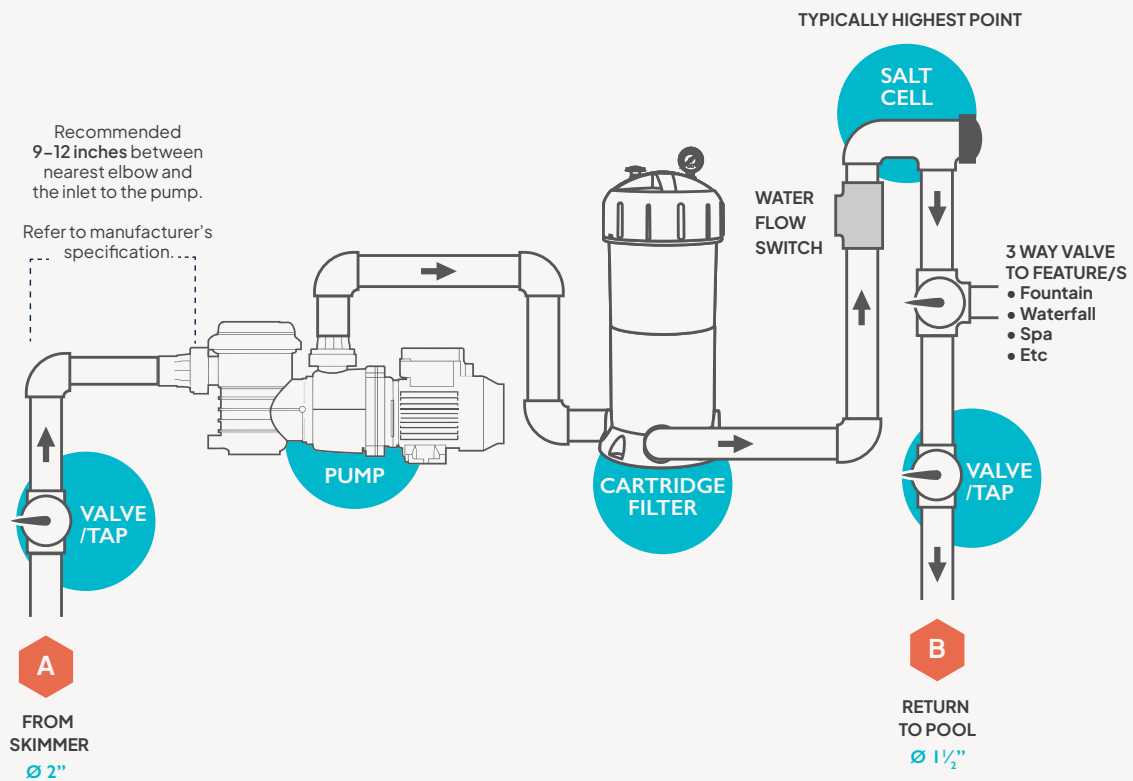
NOTE
Suction from the skimmer is sealed on either side of a T junction to give flexibility with installation. Cut only one end of the junction for access.

Standard Equipment Configuration

WHEN INSTALLED ABOVE WATER



WHEN INSTALLED BELOW WATER



Standard Equipment and Heater Configuration

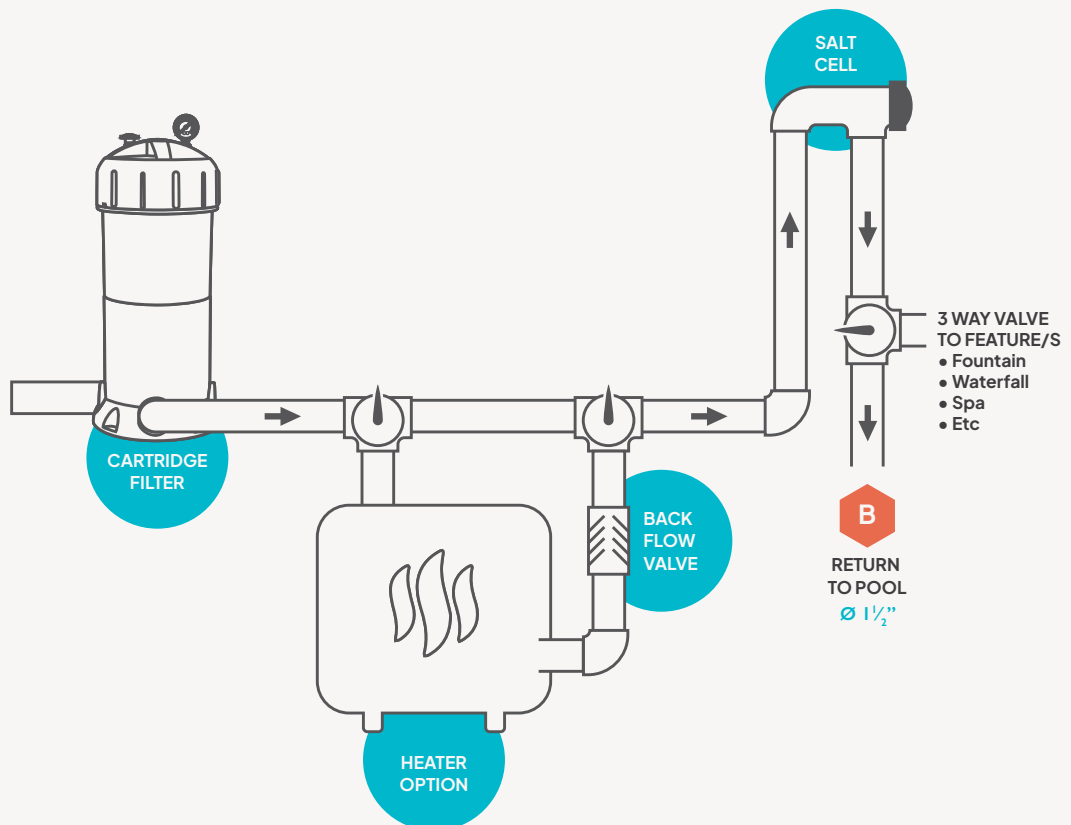
Things to note

- Salt cell is to be the highest point in the plumbing loop.
- A valve at the start and end of the plumbing loop is recommended when equipment is installed below pool water level.
- Pump size and settings (variable speed etc) do not alter equipment configuration.
- Cartridge filter can be substituted for media filter.
- The use of three-way valves and back flow devices can be added at the discretion of the plumber depending on owner usage requirements. Eg. Creating the ability to isolate heating and increase efficiencies

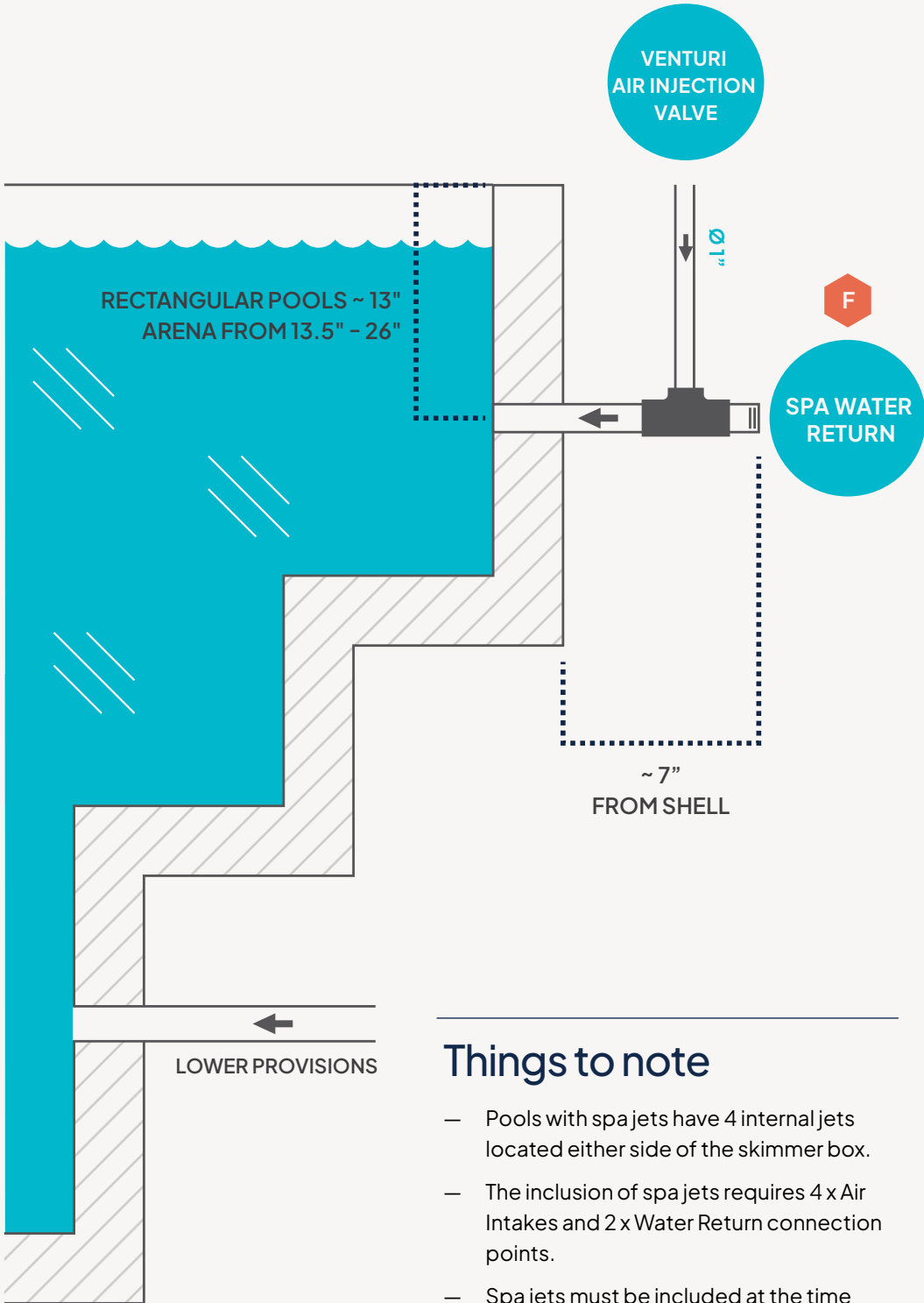


Refer to manufacturer instructions for specific installation requirements on equipment.

WHEN INSTALLED IN-LINE WITH EQUIPMENT



Spa Configuration



Things to note

- Pools with spa jets have 4 internal jets located either side of the skimmer box.
- The inclusion of spa jets requires 4 x Air Intakes and 2 x Water Return connection points.
- Spa jets must be included at the time of order and cannot be retrofitted to finished pool shells.

LED Light Connection

Things to note

- Transformer for LED Light supplied inside the skimmer box. Check skimmer box for contents before filling pool for use.
- Conduit cable protection is required from pool to transformer installation point.
- The supplied transformer is suitable only for a single LED light.
- Electrical outlet is advised for lighting only. Refer to manufacturer's guidelines for all other electrical requirements, eg. heaters.
- Electrical work should be carried out by a licensed, trade qualified electrician.



Electrical work should be carried out by a licensed, trade qualified electrician.

TRANSFORMER:

Hayward 70W Junction box

LED LIGHT:

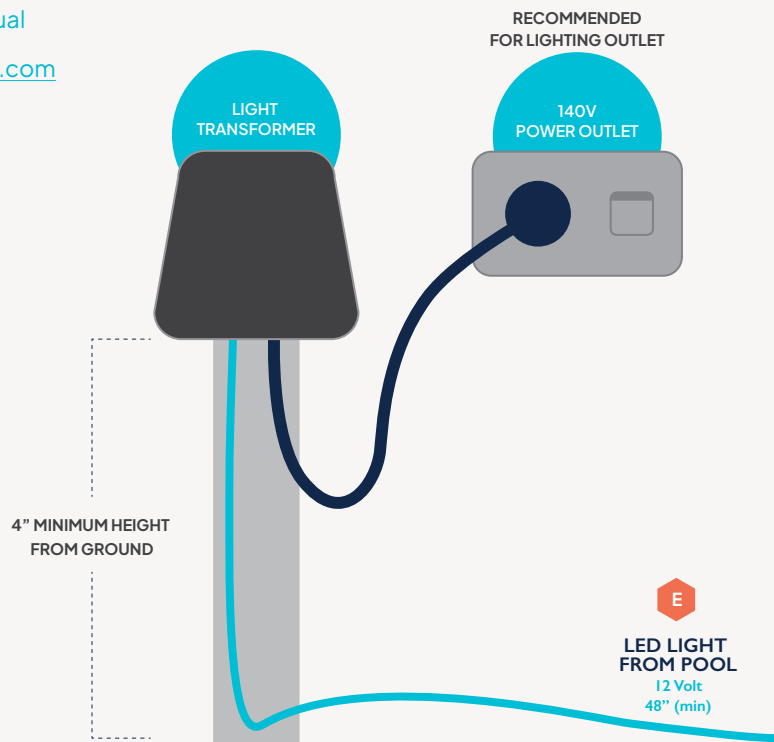
Hayward 320 CrystaLogic LED Light

INSTALLATION:

Installation and further technical information available:

+ [Product Manual](#)

www.hayward.com



Things to note

The water overflow provision allows for the pool to be plumbed and prevent spill over during rain etc. Work to do so should be undertaken by a licensed plumber.

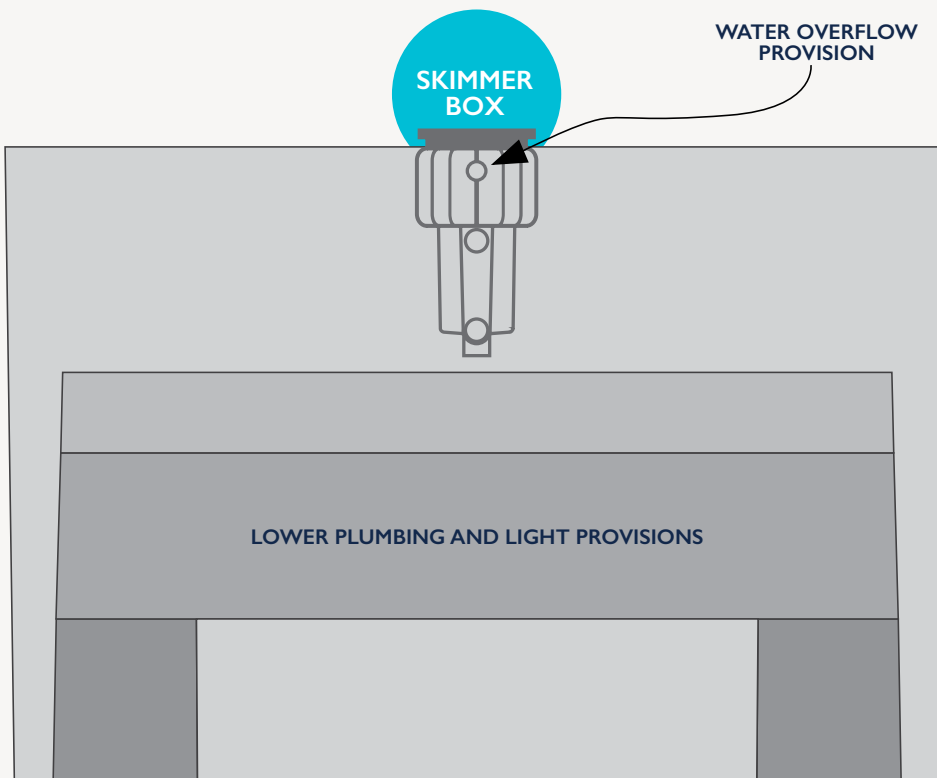
- Drill a hole through the back edge of the skimmer box in the location shown
- Connect 1" PVC piping and secure with a water tight bond (eg PVC Cement)
- Run plumbing to appropriate discharge location



Rules relating to the discharging of pool water varies by local regulations (eg storm water, sewer, etc). Please check with your local requirements before undertaking work.

ARENA:

Access to the overflow provision is via a conduit provision in the outer concrete shell.



Step 7

Finishing + Surrounds

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Landscaping and tiling	57
Tiling Guide	58

GET READY TO...

- Tile (Optional)
- Coping tiles
- Pool surrounds - decking / paving
- Landscaping

Finishing and surrounds

If your Plungie is being installed in-ground or semi-recessed, the over-excavated area of the footing will need to be backfilled with a granular material that allows for drainage away from the footings.



Fencing may or may not be required in your area, check your local pool code for pool safety barrier requirements.

When purchasing a Plungie without our standard ecoFinish internal coating as a 'blank shell' or with a waterline tile provision, the Plungie will require waterproofing on-site before the internal tile finish can be carried out.

We recommend engaging a trade qualified tiler, who has experience waterproofing and tiling concrete pools, as this is a critical step in finishing the internal of the Plungie.

LANDSCAPING AND TILING

There is a high risk of damage to your pool during the construction phase, whilst tiling, fencing, landscaping and plumbing. Any damage caused may impact or void your pool warranty, so ensure all trades are aware of the associated risks and that considerations are in place before works begin.

HIDE SKIM LID

Our skimmer box lids come in gray or white but there is the option to purchase a 'hide skim' lid from various suppliers. This solution allows you to replace your factory finish lid with a stainless steel lid that has an inlay allowing you to drop in your surrounding tile or decking board for a seamless finish.

Tiling requirements

When purchasing a Plungie as a blank shell, meaning without our standard ecoFinish internal coating, the Plungie will require waterproofing in-field before the internal tile finish can be carried out.

We recommend engaging a trade qualified tiler who has experience waterproofing and tiling concrete pools as this is a critical step in finishing the internal of the Plungie.

WATERPROOFING THE SHELL

Product Laticrete Hydro Ban

Coats Two

Application As per product direction

Further information on Laticrete [can be found here.](#)

GLUING + GROUTING LARGE FORMAT TILES

Glue Laticrete 335

Further information on [can be found here.](#)

Grout Mapei Keracolor FF

Further information on Mapei Keracolor FF [can be found here.](#)

GLUING + GROUTING SMALL MOSAIC TILES

Glue Mapei Keracolor FF in selected grout color mixed with Mapei Liquid additive (mix turns grout to glue).

Grout Mapei Keracolor FF in selected grout color mixed with water, as per product description.

Further information on Mapei Keracolor FF [can be found here.](#)

Waterline Tile Provision

When selecting ecoFinish, a provision can be made for the ecoFinish to stop just above the bottom of the first step. This will allow you to apply a waterline tile to your pool once installed.

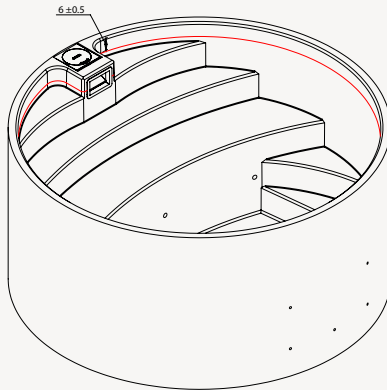
The location for the waterline is approximately $6" \pm 0.5"$ from the top of the pool, with our ecoFinish stopping slightly above the first corner step.



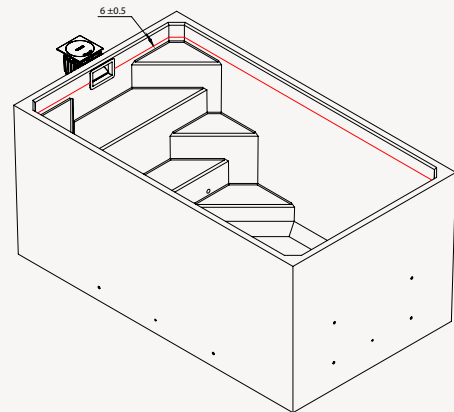
Important:

The provision for the waterline tile needs to be confirmed prior to production of the pool.

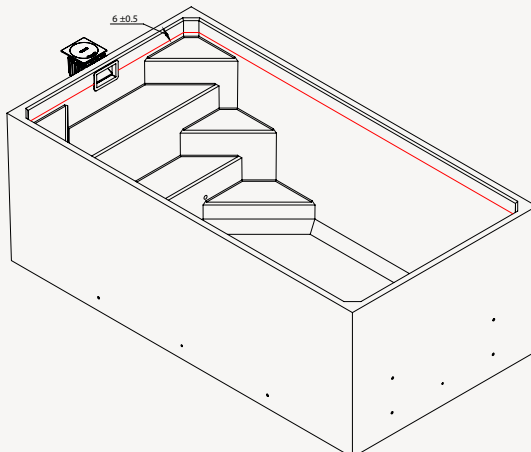
PLUNGIE ARENA



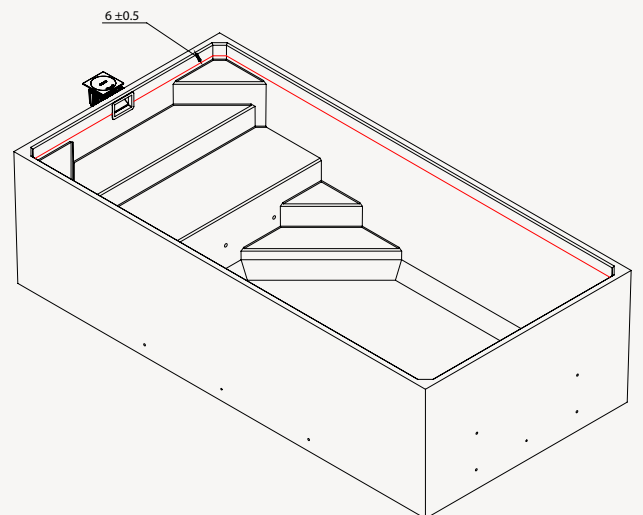
PLUNGIE STUDIO



PLUNGIE ORIGINAL



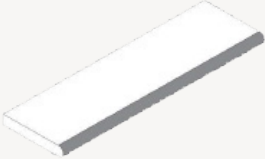
PLUNGIE MAX



Coping Tiles

There are a range of different coping tiles available to suit your aesthetic requirements, we do however recommend a mosaic edge for the Arena due to the curve for ease of tiling.

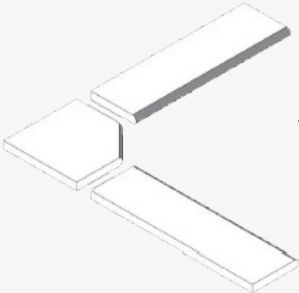
COPING DETAILS



Coping Tiles
Shaded edge is Profile Edge



Diagonal Internal Corners
Shaded edge is Profile Edge



Tiling Guide for Corners
Shaded edge is Profile Edge

PROFILE EDGE OPTIONS



Machine Bullnose



Machine Square



Tumbled



Natural Travertine

Step 8

Fill + Start Up

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Balancing	62

GET READY TO...

- Initial clean prior to start up
- Install hydrostatic valve
- Fill pool
- Balance water
- Swim

Before filling your Plungie

CLEANING YOUR PLUNGIE

A thorough clean of the interior surface is required before filling the pool as it may be filled with debris from construction.

To clean the EcoFinish interior of your pool, you can use a power washer up to 2300psi on fan head setting. It is important that no higher setting is used as it may cause damage to the ecoFinish interior coating.

If the pool is not fully clean after using this method, then a 30:70 hydrochloric acid / water solution can be applied to remove any difficult silt or debris that has formed during construction. Apply the mixture to the ecoFinish surface and gently remove using a soft bristle brush until clean. Immediately wash clean using fresh water supply such as your garden hose.

To pump out any excess water, use a hand pump which can be purchased from stores such as Bunnings.

Safety Warning: Before commencing acid washing your pool, ensure you have all the correct PPE and equipment required to do the job and in the right conditions. Acid is a caustic substance that requires specific precautions to ensure safety.

BEFORE YOU FILL

- Remove all equipment and items from skimmer box.
- Empty the skimmer filter basket of debris.
- Ensure the hydrostatic valve is installed.

POOL SAFETY

Refer to your local municipality pool code for safety regulations regarding fencing and CPR signage.

What is a Hydrostatic Valve?

During heavy rainfall or flooding ground water pressure builds up underneath the pool shell. If this pressure isn't relieved, your pool may float off of its footing. The hydrostatic valve is a one way valve that releases this ground water pressure into the pool, thus preventing floating. In periods of heavy rain an empty pool is at higher risk of this occurring so our Plungies are delivered with the valve provision in the shell of the pool left open.

HYDROSTATIC VALVE INSTALLATION

Your hydrostatic valve must be fitted before you fill your pool. The hydrostatic valve may be fitted prior to dispatch, if it is not the cover and tools to install are located within the box of equipment delivered with your Plungie.

Refer to Step 04 - Crane Hire and Delivery for more details including the contents of this box.



Important:

Ensure the area around the hydrostatic valve is completely clear of debris before installation. The smallest amount of debris can cause leaks and issues with your pool.

Initial start-up

FILL

Fill your pool in accordance with Council requirements, ensuring the pool is filled until the water level is $\frac{1}{2}$ - $\frac{3}{4}$ way up the skimmer opening to ensure debris is collected effectively. This may take up to 24 hours depending on the size of your pool.

While the pool is being filled, add McGrayel EasyCare StartUp-Tec dosage as per the [ecoFinish Startup Guide](#). Speak with your local pool shop for an alternative suitable product.

INITIAL BALANCING

It is important to ensure your pool water is balanced at all times, any issues or damage to your pool surface as a result of poor water chemistry are not covered under warranty.

ANALYZE YOUR WATER AFTER FILLING

Take a sample of water to your local pool shop. They will analyze your pool water and recommend the appropriate products and quantities to be added to your pool. Make sure you advise the pool technician of the size or volume of your pool, type of operating equipment installed and the interior finish.

Balancing

Refer to the [ecoFinish Startup Guide](#) for measurements and recommendations on balancing your pool.

EQUIPMENT INSTALLATION

Refer to relevant pump and equipment product manuals for general guidance of equipment start-up.



Things to note:

- Never start the pump without water as this may cause damage to the pump.
- Ensure that all plumbing line valves are installed.
- Refer to your pump and chlorinator specification for the running time, it may need to be run continuously during first use.
- Your pool filtration system should run for a number of hours as per the product specifications to ensure the chemicals work effectively and the water is filtered.



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