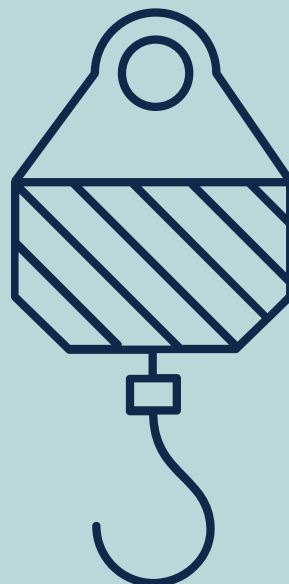


INSTALLATION GUIDE
ARENA | QUAD | STUDIO | ORIGINAL | MAX

Step 04

Crane Hire



Our 8 step process to installing your Plungie

[Click here](#) to access the complete Plungie Install Guide.

Alternatively, you can click on any of the 8 icons below, each representing a specific step in the installation process.

Clicking on an icon will take you directly to the corresponding guide, allowing you to access the information you need quickly and easily.

1



Choose Plungie

2



Building Approval

3



Site Preparation

4



Crane Hire

5



Electrical + Backfill

6



Plumb Up

7



Finishings + Surrounds

8



Fill + Start Up

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.



Step 04 Crane Hire

- ☐ ORGANISE CRANE HIRE
- ☐ PROVIDE LIFTING DIAGRAMMS TO CRANE HIRE COMPANY
 - + [Arena Lifting Diagram](#)
 - + [Studio Lifting Diagram](#)
 - + [Original Lifting Diagram](#)
 - + [Max Lifting Diagram](#)
 - + [Quad Lifting Diagram](#)
- ☐ CONFIRM DELIVERY DATE AND TIME WITH PLUNGIE
- ☐ ENSURE CRANE IS ON SITE AT TIME OF DELIVERY
- ☐ CLEAR ACCESS TO SITE
- ☐ INSTALL LIFTING LUGS ON LIFTING POINTS
- ☐ CRANE INTO PLACE
- ☐ MARK POOL PLACEMENT ONTO BASE

The content provided in this guide is part of an 8 step process extracted from the [Plungie Install Guide](#)

This guide is intended to provide you with a brief overview of this step, within our 8 step process. However, it's important to note that this excerpt should be read in conjunction with our more detailed guide and engineering set.

The more detailed guide and engineering set contain critical information that will help ensure a successful installation, and we highly recommend that you refer to them throughout the process.

By doing so, you'll have access to all the necessary information, including installation diagrams, specifications, and step-by-step instructions.

So, let's get started!



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

Step 4

Crane Hire + Delivery

Crane Hire	25
Crane Access	25
Delivery	26
Customer Collection	26
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Lifting Diagrams	32

GET READY TO...

- ☐ Book crane hire
- ☐ Confirm delivery date
- ☐ Mark placement of pool
- ☐ 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 pre-prepared pad.

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 customers 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](#)
- + [Quad 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

Crane hire can range from \$1,000 for easy access, to upwards of \$15,000, when there is a larger reach distance (more than 30 metres) over a house, structure, or terrain. 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 BLOCK / CLEAR ACCESS

A vacant block provides the easiest and most straightforward point of access, as a franna crane can drive the pool straight onto the site and put it in place. A vacant neighbouring 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 franna 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 minimises the required reach distance. Any protruding objects, such as eaves, guttering, gas and water infrastructure, overhanging trees and powerlines, may affect your access and should also be considered. A neighbouring 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 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 Australia and our pools are dispatched out of the following locations:

- Plungie
1445 Ipswich road,
Rocklea QLD 4106

DELIVERY TIME

Plungie will contact you 7–10 days prior to dispatch with a confirmed delivery time.

DELIVERY TRUCK SIZE

Plungie’s standard freight quotes are based on delivery from their facility to the address specified on the quote using the following:

SEMI-TRAILER

- Dimensions:**
2.4m wide x 19m long x 4.2m high

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)

- Dimensions:**
2.4m wide x 12m long x 3.8m high
- 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 organise 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:

- Plungie Factory**
1445 Ipswich road,
Rocklea QLD 4106
- Plungie Storage Yard**
20 Lavarack Ave
Eagle Farm QLD 4009



Things to note:

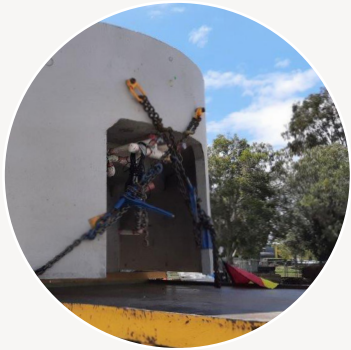
- You will be contacted 14 days prior to expected dispatch date of the pool to confirm you are ready to be booked for freight or collection.
- If you require any changes to your delivery date, this must be communicated prior to 14 days to prevent storage fees.
- Standard delivery includes an unload time allocation of one hour. Additional charges may apply if truck is on site for longer.
- Futile charges for freight cancellations may apply within 48 hours of dispatch.
- All Plungies must be loaded in accordance with Plungie’s Engineering and the National Transport Commissioner’s Load-Restraint-Guide-2018 as provided by the National Transport Commission.

DIMENSIONS

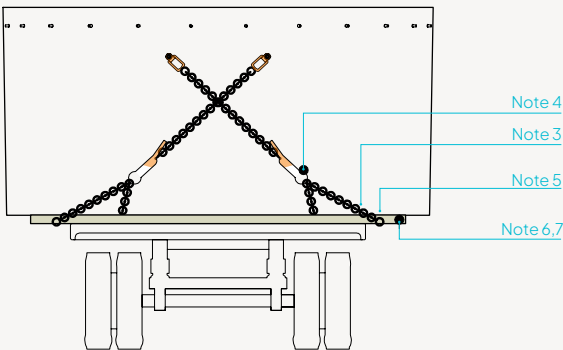
Diameter	3500mm
Height	1690mm
Weight	7,000kg
Lashing points	4 x M24 swivels (Lifting Lugs)
Tools required	30mm spanner or 12mm allen key

Please note:

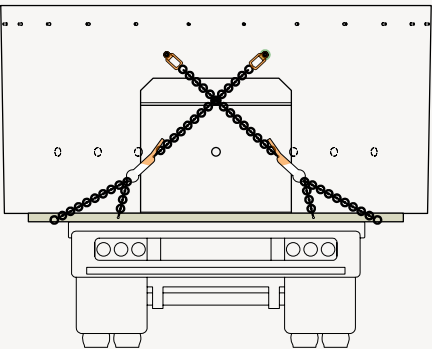
- Pool must be picked up within 5° of level
- Straps/chains lengths must match to ensure straight lifting
- Lifters are cast in for perfect balance of product



LASHING ARRANGEMENT – DEEP END



LASHING ARRANGEMENT – STEP END



NOTES:

- Lash load as shown with min. 8mm chains to AS 4344.
- Min 4.0t SWL capacity tensioners. 1.0 tonne pretension.
- Tie down to min. 4.0 tonne SWL rated anchorage on vehicle platform.
- Min 70 x 70 timber supports placed under pool base (not wingwalls) and within 300mm of site lifting ferrules.
- Inspect all timber to ensure it is in good condition and does not protrude beyond the trailer except as may be allowed by State regulations.

Arena Lashing Diagram

Quad Lashing Diagram

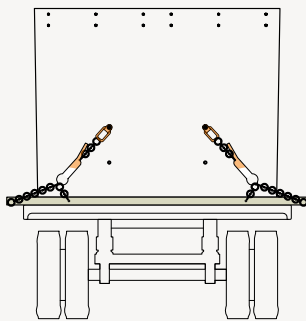
DIMENSIONS

Length	2200mm
Width	2200mm
Base Width	2150mm
Height	1690mm
Weight	4,570kg
Lashing points	4 x M24 swivels (Lifting Lugs)
Tools required	Dog & Chain (Ratchet Chain or Load Binder)

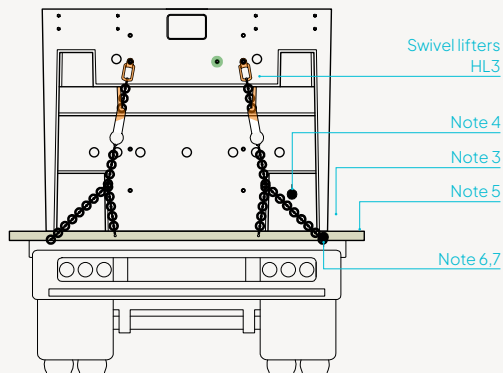
Please note:

- Pool must be picked up within 5° of level
- Straps/chains lengths must match to ensure straight lifting
- Lifters are cast in for perfect balance of product

LASHING ARRANGEMENT - DEEP END



LASHING ARRANGEMENT - STEP END



NOTES:

1. Refer to general notes on drawing S1.
2. Refer to risk assessment on drawing S2.
3. Lash load as shown with min. 8mm chains to AS 4344.
4. Min 4.0t SWL capacity tensioners. 1.0 tonne pretension.
5. Tie down to min. 4.0 tonne SWL rated anchorage on vehicle platform.
6. Min 70 x 70 timber supports placed under pool base (not wingwalls) and within 300mm of site lifting ferrules.
7. Inspect all timber to ensure it is in good condition and does not protrude beyond the trailer except as may be allowed by State regulations.
8. Plate steel or chequer plate trailers that are not fitted with a vehicle specific rubber mat require at least 85% of the surface between timber supports and the trailer bed to be on min 6mm thick Shore A 60-70 natural rubber.

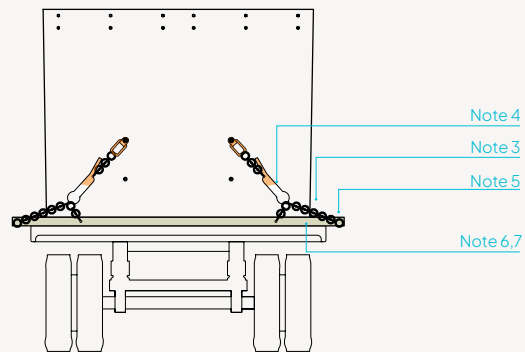
DIMENSIONS

Length	3600mm
Width	2200mm
Base Width	2150mm
Height	1690mm
Weight	6,800kg
Lashing points	4 x M24 swivels (Lifting Lugs)
Tools required	Dog & Chain (Ratchet Chain or Load Binder)

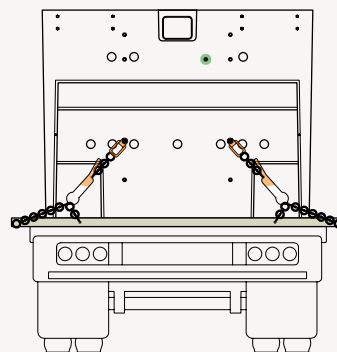
Please note:

- Pool must be picked up within 5° of level
- Straps/chains lengths must match to ensure straight lifting
- Lifters are cast in for perfect balance of product

LASHING ARRANGEMENT - DEEP END



LASHING ARRANGEMENT - STEP END



NOTES:

3. Lash load as shown with min. 8mm chains to AS 4344.
4. Min 4.0t SWL capacity tensioners. 1.0 tonne pretension.
5. Tie down to min. 4.0 tonne SWL rated anchorage on vehicle platform.
6. Min 70 x 70 timber supports placed under pool base (not wingwalls) and within 300mm of site lifting ferrules.
7. Inspect all timber to ensure it is in good condition and does not protrude beyond the trailer except as may be allowed by State regulations.

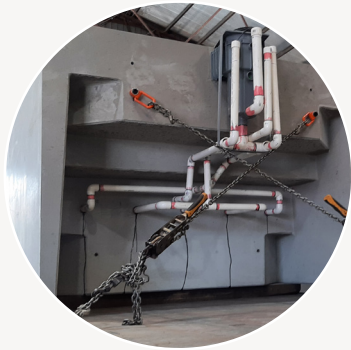
Studio Lashing Diagram

DIMENSIONS

Length	4600mm
Width	2500mm
Base Width	2450mm
Height	1690mm
Weight	8,600kg
Lashing points	4 x M20 swivels (Lifting Lugs)
Tools required	30mm spanner or 12mm allen key

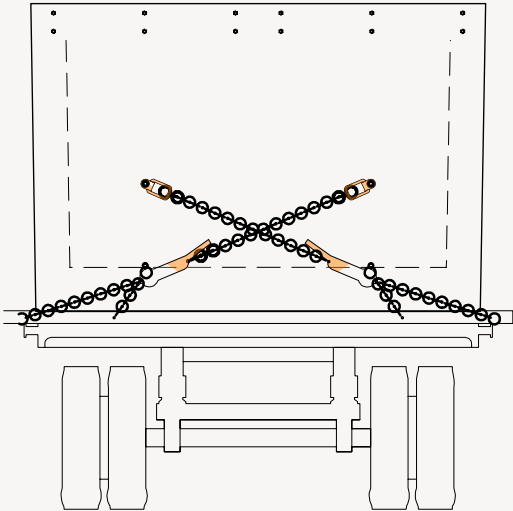
Please note:

- Pool must be picked up within 5° of level
- Straps/chains lengths must match to ensure straight lifting
- Lifters are cast in for perfect balance of product

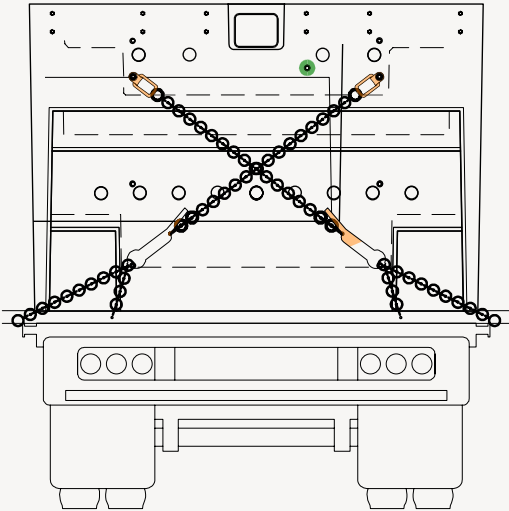


- NOTES: (Please reference Plungie Preliminary Engineering Set)
3. Lash load as shown with min. 8mm chains to AS 4344.
 4. Min 4.0t SWL capacity tensioners. 1.0 tonne pretension.
 5. Tie down to min. 4.0 tonne SWL rated anchorage on vehicle platform.
 6. Min 70 x 70 timber supports placed under pool base (not wingwalls) and within 300mm of site lifting ferrules.
 7. Inspect all timber to ensure it is in good condition and does not protrude beyond the trailer except as may be allowed by State regulations.

LASHING ARRANGEMENT - DEEP END



LASHING ARRANGEMENT - STEP END



DIMENSIONS

Length	6000mm
Width	3000mm
Base Width	2950mm
Height	1690mm
Weight	11,800kg
Lashing points	4 x M24 swivels (Lifting Lugs)
Tools required	36mm spanner or 14mm allen key

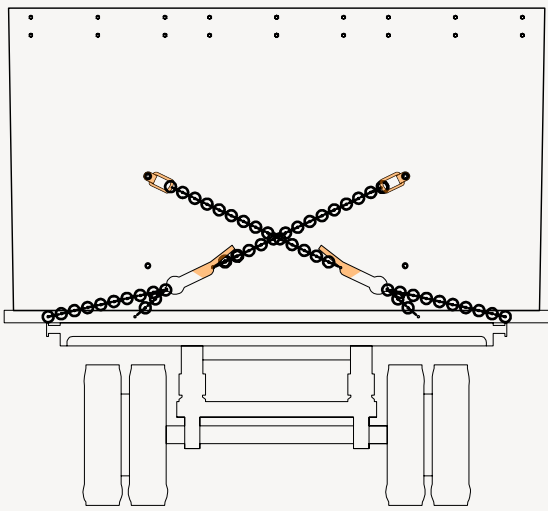
Please note:

- Pool must be picked up within 5° of level
- Straps/chains lengths must match to ensure straight lifting
- Lifters are cast in for perfect balance of product

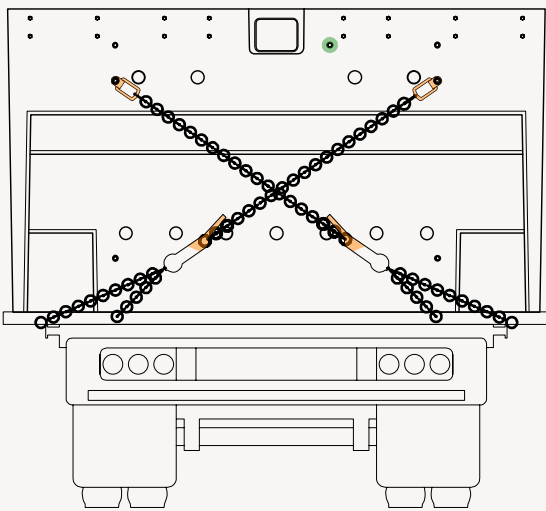


- NOTES: (Please reference Plungie Preliminary Engineering Set)
3. Lash load as shown with min. 8mm chains to AS 4344.
 4. Min 4.0t SWL capacity tensioners. 1.0 tonne pretension.
 5. Tie down to min. 4.0 tonne SWL rated anchorage on vehicle platform.
 6. Min 70 x 70 timber supports placed under pool base (not wingwalls) and within 300mm of site lifting ferrules.
 7. Inspect all timber to ensure it is in good condition and does not protrude beyond the trailer except as may be allowed by State regulations.

LASHING ARRANGEMENT - DEEP END



LASHING ARRANGEMENT - STEP END



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 pad.

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.

Correct lifting and difficult access

Only lift via the allocated lifting points detailed within our lifting diagrams. Ensure sufficient access to remove lifting lugs once installed.

Call Plungie immediately if any issues or occur or there are difficulties regarding lifting and access as incorrect lifting may void your warranty.

FRANNA CRANE

A franna crane is a mobile, lift and carry crane. They're convenient in residential spaces because they can pick up a Plungie and manoeuvre it into a tight space. Franna cranes don't have stabiliser legs or outriggers, because they're designed to move their load from one point to the next, within a short radius.

However, what they gain in being nimble, they lose in their ability to reach under load, which is why they are used only when dealing with vacant, side access and drive-in access projects.

Below are the minimum clearance requirements for franna crane side access:

- Arena 3.75m
- Quad 3m
- Studio 3m
- Original 3m
- Max 3.25m

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 stabiliser 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.

PLUNGIE WILL SUPPLY YOU WITH:

- Standardised lifting diagrams containing key information required for all crane hire engagement
- The required M24 or M20 lifting swivels
- Ongoing support to ensure accurate and easy engagement of crane hire
- Crane hire companies also offer free site visits and project assessment services, which we recommend using for the most accurate practice of crane engagement.

You will be required to:

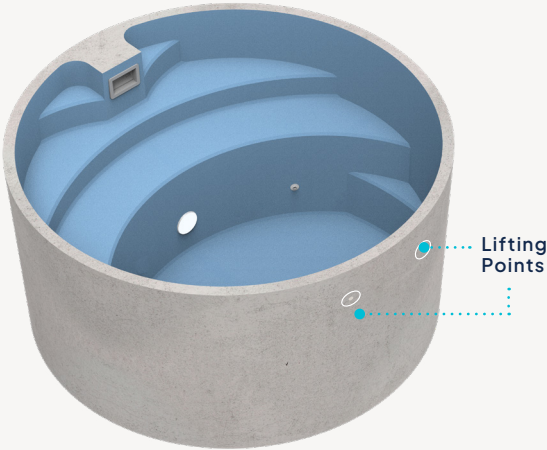
Arrange for crane hire to be on-site at point of delivery to lift the pool from the delivery truck to its prepared footing on your site.

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.

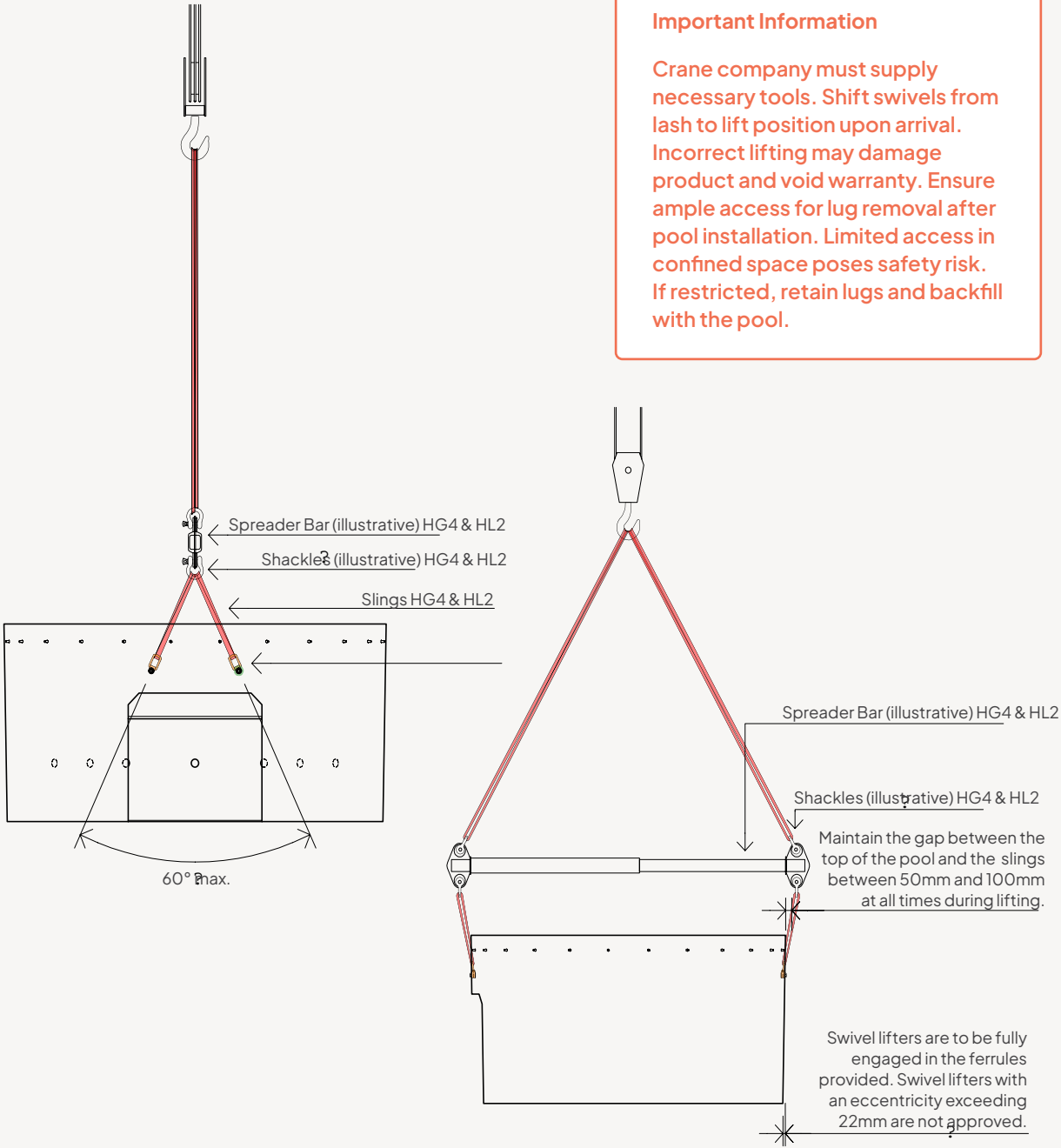
Arena Lifting Specifications

Diameter	3500 mm
Height	1690 mm
Weight	7,000 Kg
Lift Type	3.7m spreader bar with chains
Lifting Points	4 x M24 swivels provided (4.5 SWLL)
Tool Required	30mm spanner or 12mm allen key



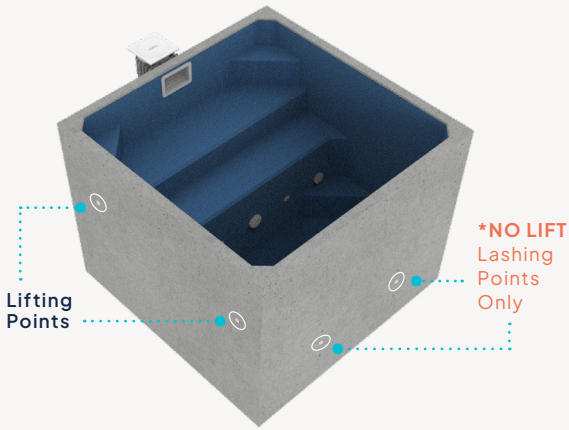
Important Information

Crane company must supply necessary tools. Shift swivels from lash to lift position upon arrival. Incorrect lifting may damage product and void warranty. Ensure ample access for lug removal after pool installation. Limited access in confined space poses safety risk. If restricted, retain lugs and backfill with the pool.



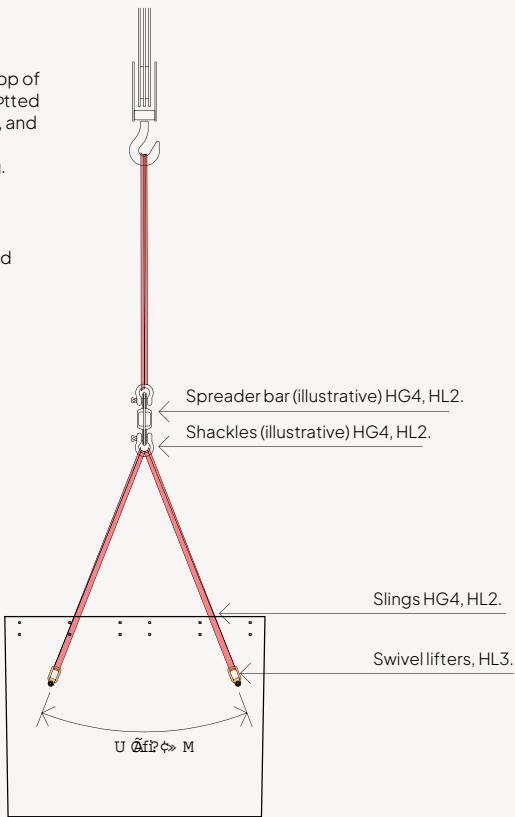
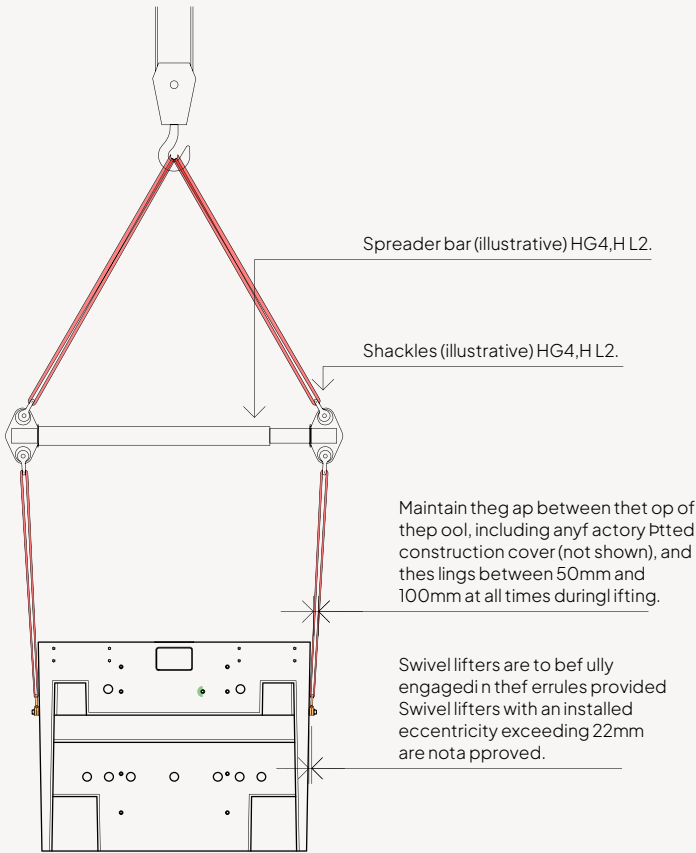
Quad Lifting Specifications

Length	2200 mm
Width	2200 mm
Height	1690 mm
Weight	4,570 Kg
Lift Type	2.4m spreader bar with chains
Lifting Points	4 x M20 swivels provided (4.5 SWLL)
Tool Required	30mm spanner or 12mm allen key



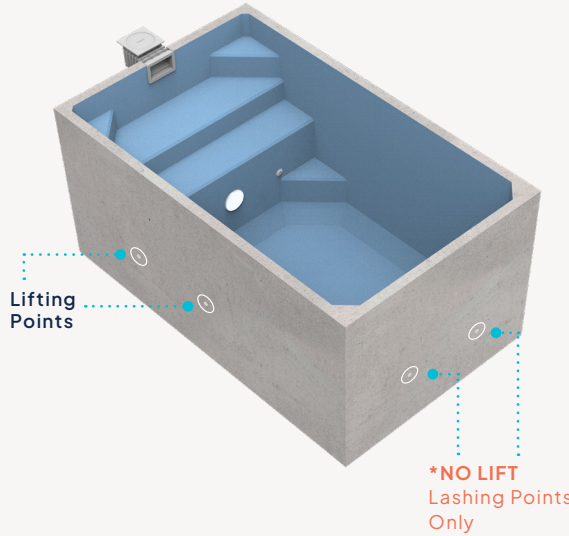
Important Information

Crane company must supply necessary tools. Shift swivels from lash to lift position upon arrival. Incorrect lifting may damage product and void warranty. Ensure ample access for lug removal after pool installation. Limited access in confined space poses safety risk. If restricted, retain lugs and backfill with the pool.



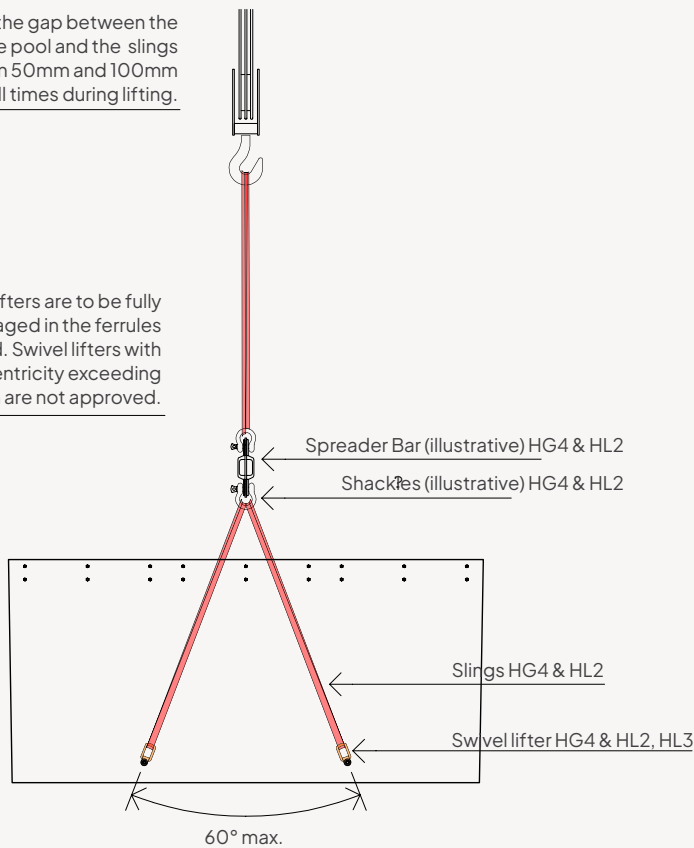
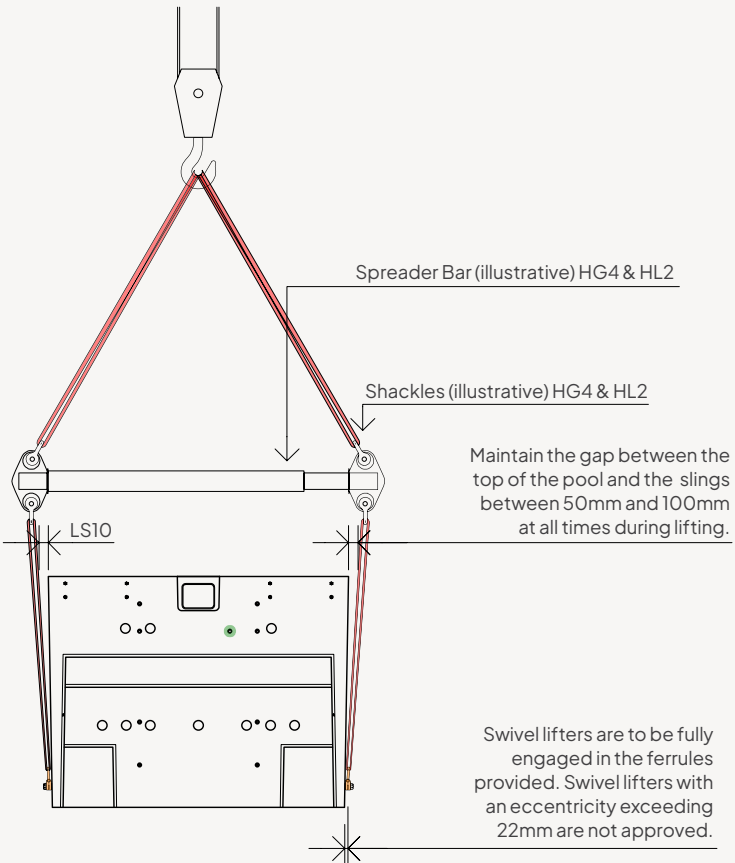
Studio Lifting Specifications

Length	3600 mm
Width	2200 mm
Height	1690 mm
Weight	6,800 Kg
Lift Type	2.4m spreader bar with chains
Lifting Points	4 x M20 swivels provided (4.5 SWLL)
Tool Required	30mm spanner or 12mm allen key



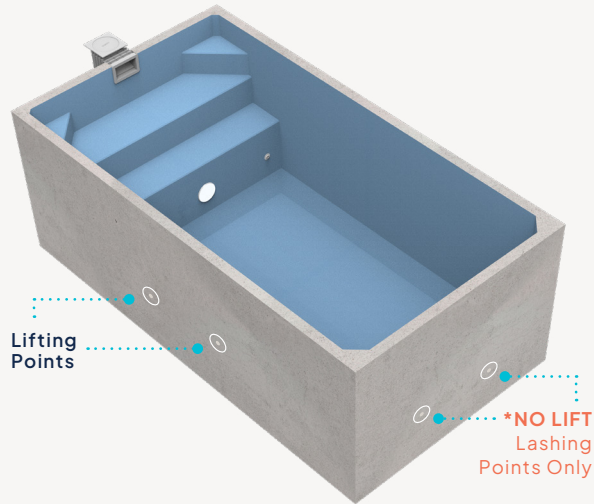
Important Information

Crane company must supply necessary tools. Shift swivels from lash to lift position upon arrival. Incorrect lifting may damage product and void warranty. Ensure ample access for lug removal after pool installation. Limited access in confined space poses safety risk. If restricted, retain lugs and backfill with the pool.



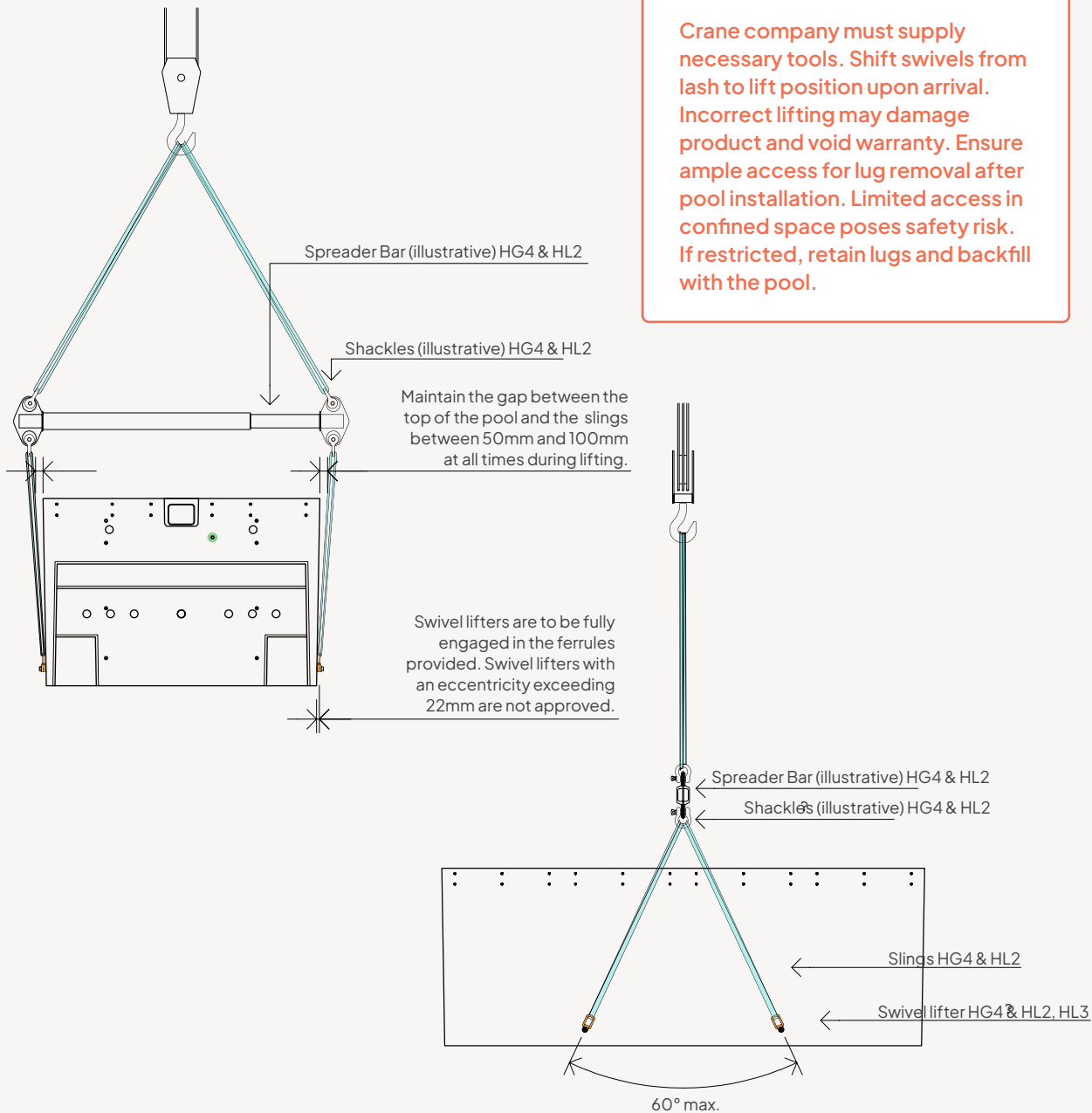
Original Lifting Specifications

Length	4600 mm
Width	2500 mm
Height	1690 mm
Weight	8,600 Kg
Lift Type	2.7m spreader bar with chains
Lifting Points	4 x M20 swivels provided (4.5 SWLL)
Tool Required	30mm spanner or 12mm allen key



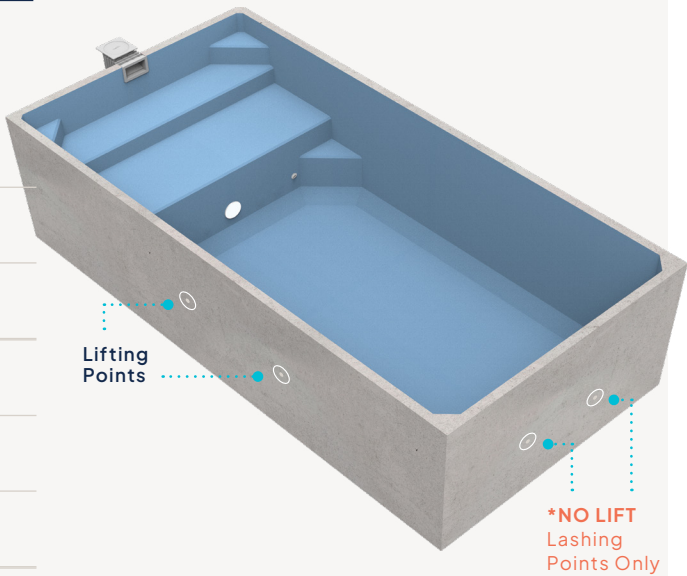
Important Information

Crane company must supply necessary tools. Shift swivels from lash to lift position upon arrival. Incorrect lifting may damage product and void warranty. Ensure ample access for lug removal after pool installation. Limited access in confined space poses safety risk. If restricted, retain lugs and backfill with the pool.



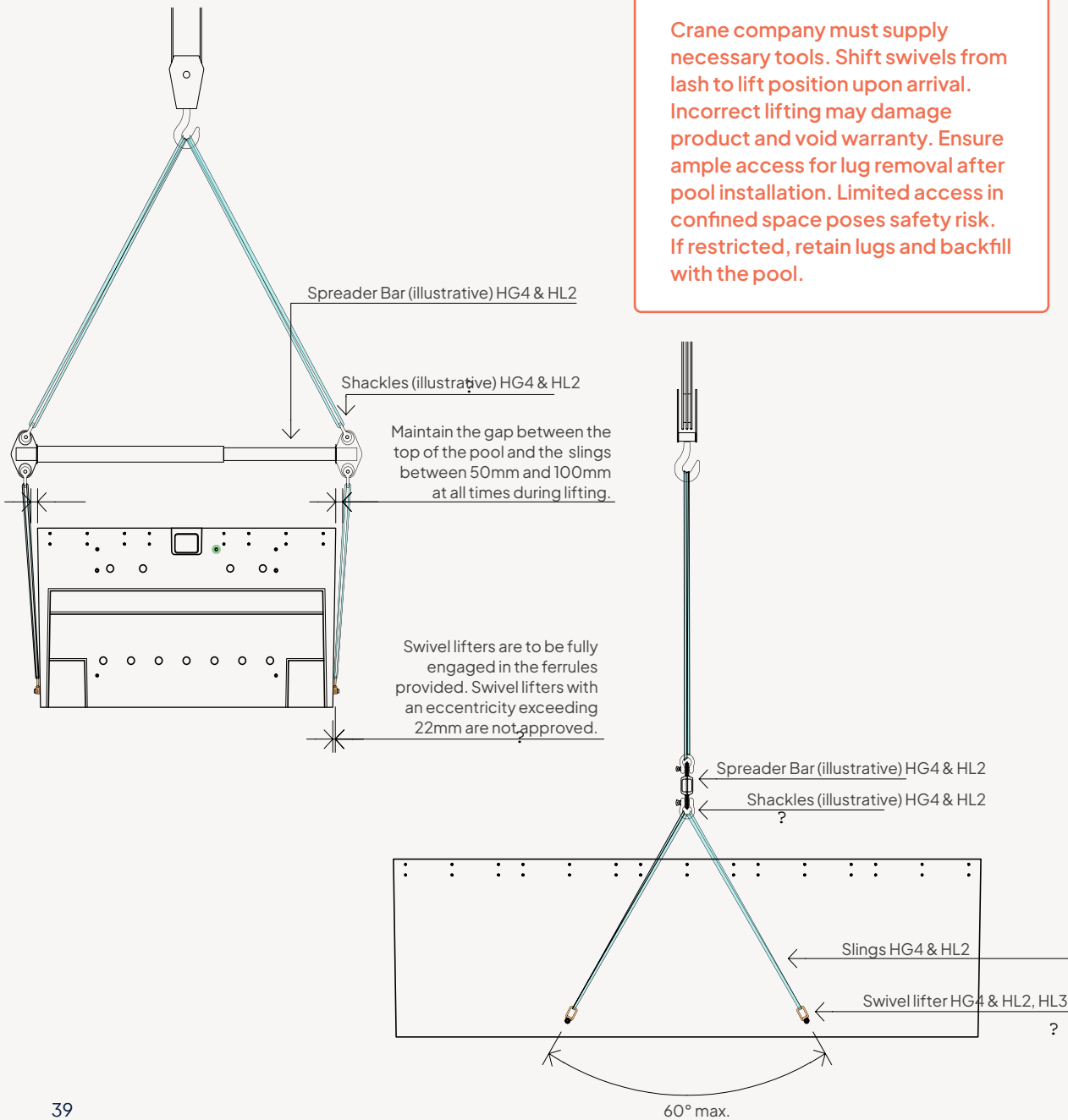
Max Lifting Specifications

Length	6000 mm
Width	3000 mm
Height	1690 mm
Weight	11,800 Kg
Lift Type	3.2m spreader bar with chains
Lifting Points	4 x M24 swivels provided (4.5 SWLL)
Tool Required	36mm spanner or 14mm allen key



Important Information

Crane company must supply necessary tools. Shift swivels from lash to lift position upon arrival. Incorrect lifting may damage product and void warranty. Ensure ample access for lug removal after pool installation. Limited access in confined space poses safety risk. If restricted, retain lugs and backfill with the pool.





www.plungie.com
1300 PLUNGIE (758 644)