

# Fisher Lap E™

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## Technical Information Pack



**FISHER  
SPAS™**

FSTP070324

Available exclusively at *Spa* WORLD

# Fisher Lap E™



JETS

26



SEATING

5



DIMENSIONS 5.87 x 2.29 x 1.49m

## SPECIFICATIONS

Dry weight .....	1,414kg
Water capacity.....	9,792 litres
Filled weight .....	11,265 kg
SmartFlo™ 2-speed pump.....	2.5hp
SmartFlo™ jet pump.....	2x2.5hp
Electrical requirements .....	32 Amp*

\* Check with electrician about dedicated circuit requirements

## FEATURES

- QuadCore™ shell construction
- FisherFlex™ plumbing system
- Reflect™ perimeter insulation
- SoftTouch™ head rest
- FisherFrame™ lifetime frame
- Stainless steel jets
- FisherGlow™ in-spa floodlight
- SpaNet™ SV3 control system
- Dynamic Thermal Tuning™
- Integrated heat pump control

## OPTIONAL UPGRADES

- SpaNet™ heat pump
- UV-C Automatic water purifier
- Fisher™ WiFi & audio system

## WARRANTIES

Non Pro rata Structural.....	10yrs
Non Pro rata Acrylic Surface.....	5yrs
Plumbing, Heater & Jets .....	5yrs
Pumps & Equipment .....	2yrs
Frame .....	Lifetime



\* Conditions apply. Specifications may change without notice.  
May be pictured with some options included.



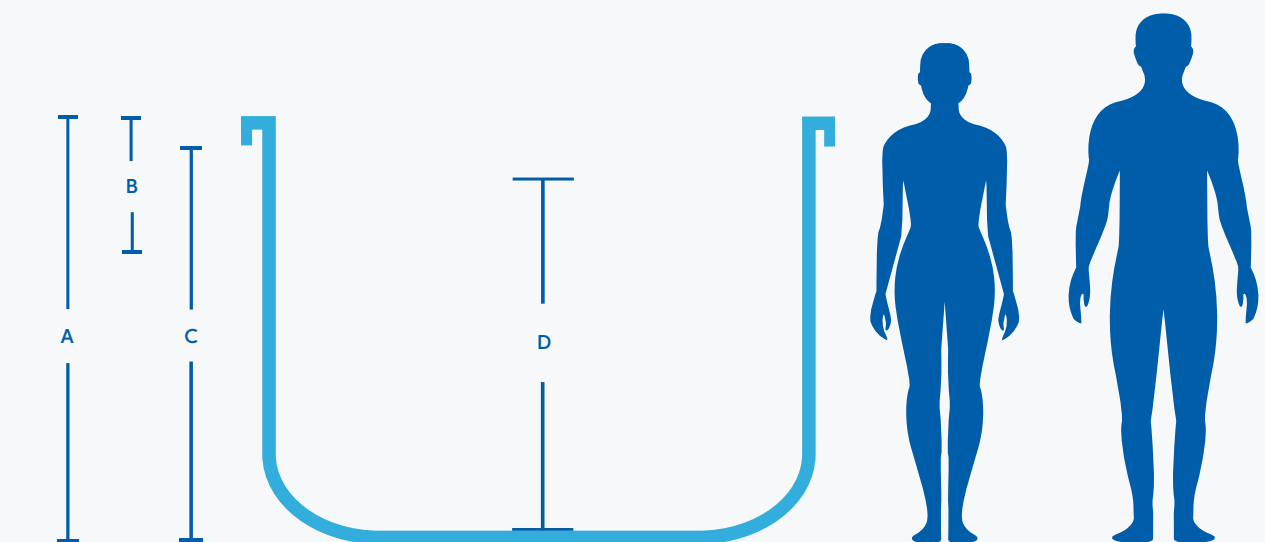
*This is living!*



**FISHER  
SPAS**

# Fisher Lap E™

## Heights



		Fisher Lap E™
Spa dimensions		5.87(L) x 2.29(W)m
A	Total height +/-20mm	1.49m
B	Recommended deck height from top of shell	400mm
C	Product height under lip +/-20mm	1,395mm
D	Water depth from floor to recommended fill level	1,280mm

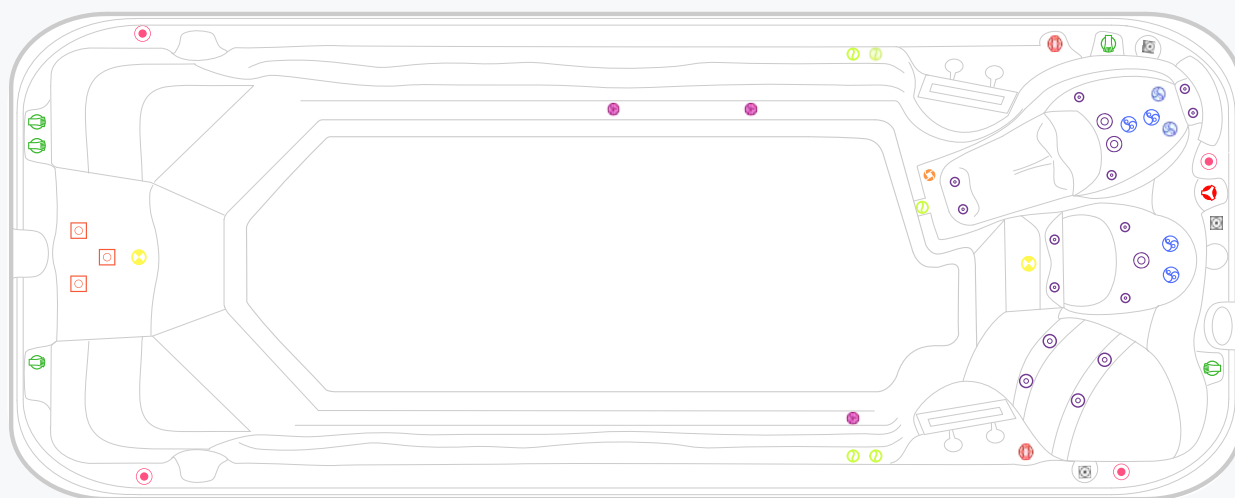


*This is living!*



# Fisher Lap E™

## Jet Specifications



5 x Air Controls



1 x Waterfall Valve



2 x Diverter Valve



4 x 88mm Directional Jets



2 x 88mm Roto Jets



10 x 50mm Directional Jets



1 x Ozone Jet



4 x Cup Holders



2 x Lights



9 x Drain



3 x 127mm Directional Jets



3 x Suction



3 x Speakers



3 x Swim Jets



4 x 127mm Roto Jets



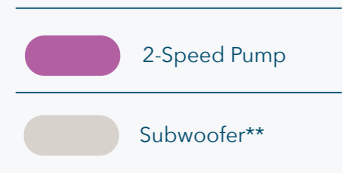
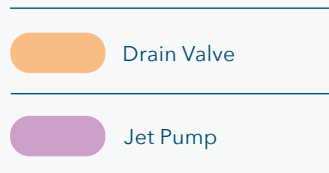
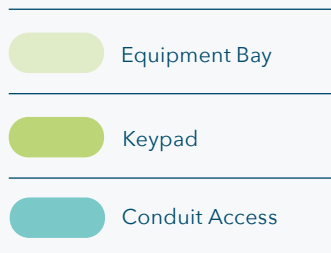
*This is living!*



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Illustration shows Fisher Lap E™ spa pool model



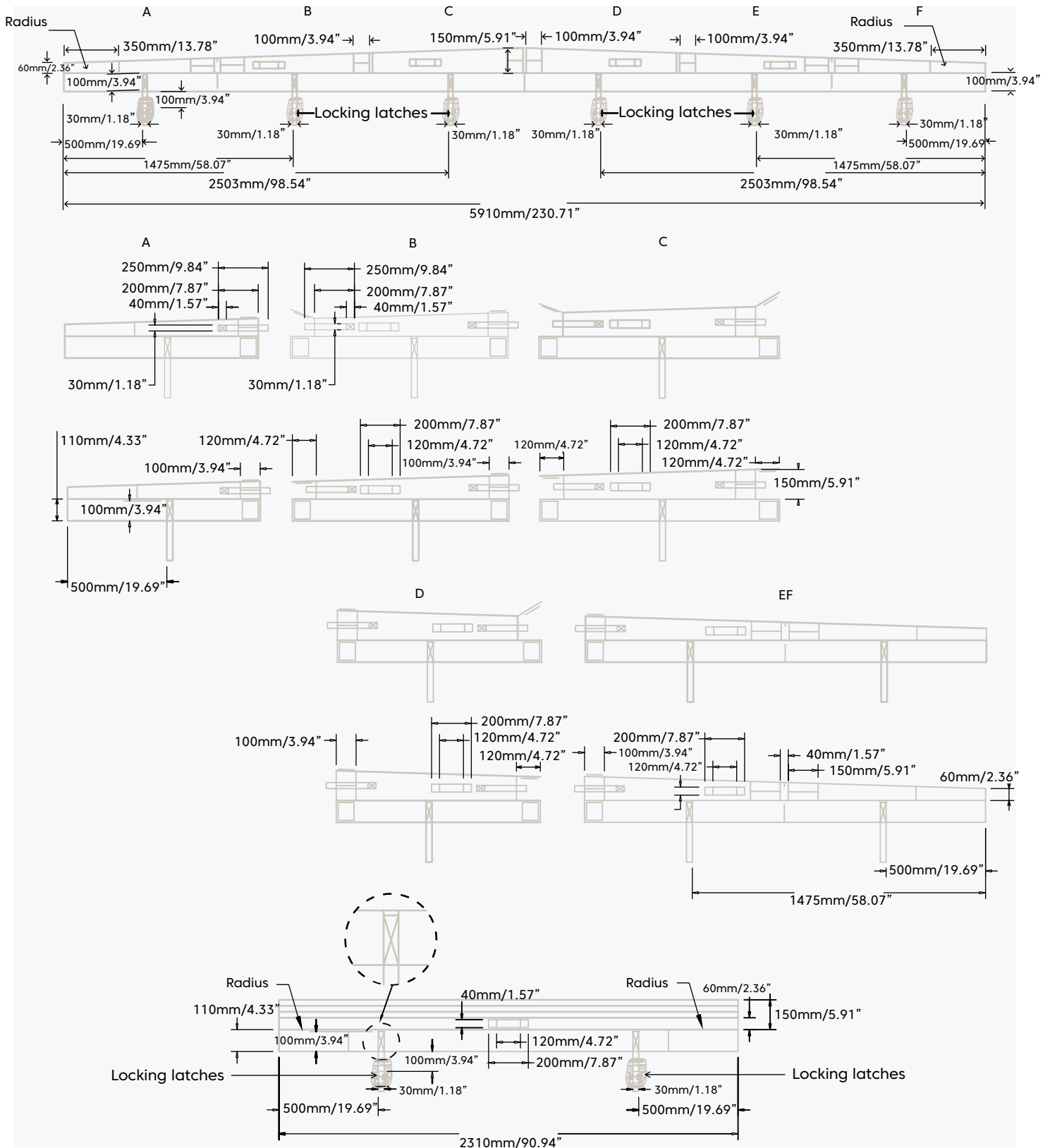
\* Conduit access should be no more than 100mm high above the concrete slab.

\*\* Optional upgrade only included with the Fisher™ WiFi and Audio Kit.

**Note:** This model has a rigid base, and if you choose to bring the piping conduit in from the bottom through the base, you will need to cut a hole into the base on-site before installation. The factory does not provide this hole. Please see the diagram above to find the location where you can drill the hole.

# Fisher Lap E™

## Standard Spa Cover



*This is living!*



Please visit the Spa World website for planning information including:

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Property access

Electrical Information

Service access

Foundations, including generic slab

Pit and deck installation

Optional heat pump installation

Use your Smartphone to scan the QR code for your country:

Australia  
[spaworld.com.au](http://spaworld.com.au)



[Click here to find out more](#)

New Zealand  
[spaworld.co.nz](http://spaworld.co.nz)



[Click here to find out more](#)



# Fisher Spas™ Limited Warranty

Vortex Leisure Pty Ltd owns the Fisher Spas™ brand

## Lifetime Warranty on Permaframe™ Frames

Vortex Leisure Pty Ltd warrants the structural integrity of the spa frame against defects in workmanship and materials for the lifetime of the spa subject to the limitations, conditions and exclusions expressed in this warranty.

## 10-year non pro rata structural warranty

Vortex Leisure Pty Ltd warrants the structure of the spa shell against defects in workmanship and materials leading to water loss from the spa for a period of 10 years from date of delivery subject to the limitations and conditions expressed in this warranty.

## 5-year acrylic warranty

Vortex Leisure Pty Ltd warrants against the loss of water through the acrylic surface of the spa shell for a period of 5 years from date of delivery, subject to limitations and conditions in this warranty.

## 5-year jet warranty

Vortex Leisure Pty Ltd warrants the removable spa jets to be free of manufacturing defects for a period of 5 years from date of delivery. This warranty excludes damage by grit, sand and improper water chemistry causing corrosion of the part and is limited to supply of replacement parts after the faulty part has been returned to Vortex Leisure Pty Ltd for warranty inspection. Leaking from jets is covered by the plumbing warranty. Laminar jets have a 1 year parts only warranty.

## 5-year heater warranty

Vortex Leisure Pty Ltd warrants the heater element against defects in materials and workmanship for a period of 5 years from date of delivery. After 1 year this warranty is limited to the supply of replacement parts and excludes labour and freight costs. This warranty does not cover damage to heaters caused by incorrect water balance resulting in the heater being subjected to abrasive/acid water.

## 5-year plumbing warranty

Vortex Leisure Pty Ltd warrants the plumbing piping and plumbing joints against defects in materials and workmanship causing leaking for a period of 5 years from date of delivery. After 1 year this warranty is limited to the supply of replacement parts and excludes all labor and freight costs.

## 2-year pump warranty

Vortex Leisure Pty Ltd warrants the water pumps against defects in materials and workmanship for a period of 2 years from date of delivery. After 1 year this warranty is limited to the supply of replacement parts and excludes all labour and freight costs. Damage to the pump motor caused by incorrect chemical balance will not be covered under this warranty. Vortex Leisure Pty Ltd reserves the right to request that the pump be returned for assessment before it is replaced under this warranty.

## 2-year electronic components warranty

Vortex Leisure Pty Ltd warrants electronic control systems against defects in materials and workmanship for a period of 2 years from date of delivery. After 1 year the warranty is limited to the supply of replacement parts after the product has been assessed by either Vortex Leisure Pty Ltd or the relevant control system manufacturer.

## 1-year air blower warranty

Vortex Leisure Pty Ltd warrants the air blower against defects in materials and workmanship for a period of 1 year. This warranty will become void if the blower damage is caused by over filling.

## 1-year thermo clad cabinet warranty

Vortex Leisure Pty Ltd warrants the thermo clad spa cabinet against defects in materials and workmanship for a period of 1 year from date of delivery. This warranty specifically covers the structural integrity of the cabinet. The thermo clad cabinet finish is warranted to be free from defects in materials and workmanship at the time of initial delivery. Fading and weathering of the surface will occur naturally over time, and are not considered defects.

## 1-year external heat pump warranty

Vortex Leisure Pty Ltd warrants the External Heat Pump to be free from defects in materials and workmanship for 1 year. Installation is to be carried out by a qualified contractor. Failure to do so will immediately VOID this warranty. Vortex Leisure Pty Ltd reserves the right to request the return of the heat pump for assessment before it is replaced or repaired.

## 1-year spa hardcover warranty

Your Spa Cover is warranted for a period of 1 Year from the date of delivery. This warranty applies only to the structural integrity of the cover and the vinyl. Damage caused to stitching, straps or locks due to improper use of the cover will not be covered under warranty. Disposal of any cover replaced under warranty will be the owners responsibility.

## ClearLift™ Standard Warranty

The ClearLift™ is an upgrade available on select Fisher™ Swim Spa models. If you have purchased the ClearLift™ upgrade the below supersedes the standard 1-year spa hardcover warranty. Your ClearLift™ components are warranted from the date of delivery for the following terms.

### ClearLift™ Electrical components:

SpaNet™ cover controller, transformer and actuators, are covered for 1-year parts and labour and a parts only for the second year.

### ClearLift™ Cover foam:

One year parts and labour and parts only for the second year.

### ClearLift™ Cover frame and mechanical components:

One year parts and labour and parts only for the second year. Damage caused to stitching, straps or locks due to improper use of the cover will not be covered under warranty. Disposal of any cover replaced under warranty will be the owners responsibility.

## Warranty coverage

Warranty coverage begins at the delivery date. Vortex Leisure Pty Ltd only extends this warranty to the original purchaser and only if the spa has been purchased through an authorized Vortex Leisure Pty Ltd reseller. Written notice of the defect and proof of purchase must be provided to Vortex Leisure Pty Ltd or its nominated representative within 14 days of the defect occurring. If the spa is required to be returned to Vortex Leisure Pty Ltd for rectification all freight costs shall be pre paid by the customer. Repair or replacement of any defective product is at the sole discretion of Vortex Leisure Pty Ltd. To action warranty service contact the authorized Vortex Leisure Pty Ltd reseller you purchased from. If you are unable to obtain satisfactory service from your reseller, written notification must be provided to Vortex Leisure Pty Ltd within 14 days of the defect occurring. Vortex Leisure Pty Ltd will pay the travel costs of the service agent for the first 40km from their base. Any further travel charges shall be the responsibility of the spa owner.

## Electrical connection

All electrical connections must be carried out by a qualified electrical contractor. Failure to do so will immediately VOID this warranty. The spa must be connected to a dedicated MAINS electrical supply circuit protected by a compliant earth leakage circuit breaker safety switch. Vortex Leisure Pty Ltd reserves the right to ask for proof that the spa has been installed by a qualified electrician.

## Warranty exclusions

1. Damage resulting from improper water maintenance.
2. Damage from operating the spa above 45°C.
3. Damage caused by clogged filters
4. Damage caused to the spa by improper use of spa cover and excessive exposure to sunlight.
5. Acts of God.
6. Damage caused by not installing spa on sufficient hard level surface.

**You must check and tighten all barrel unions regularly. Failure to do so may affect your warranty.  
See your user manual for further information.**

FSW070324



# Fisher Spas™ Limited Warranty

Vortex Leisure Pty Ltd owns the Fisher Spas™ brand

## Warranty exclusions

7. Damage caused by incorrect electrical installation, brownouts, voltage spikes or operating spa out of +/- 10% of voltage range
8. Warranty is not extended to filter cartridges, head rests, pump seals or drain hoses.
9. Commercial use reduces all warranties to maximum 6 months.
10. Damage caused by relocation of the spa from its original installed location.
11. Damage by termites, borer or other pests.
12. Damage caused by flooding
13. Damage caused by third party carriers.
14. Damage or corrosion.
15. Damage caused by the operation of ClearLift™ Cover Lifter during high wind.
16. Damage caused by the operation of ClearLift™ Cover Lifter due to excessive load such as heavy snow.
17. Damage caused by the operation of ClearLift™ Cover Lifter due to closing it on a foreign object.

## Limitations

This warranty is the only warranty offered by Vortex Leisure Pty Ltd and excludes any other implied or oral undertakings. Except as described above, this warranty does not cover defects or damage due to normal wear and tear, improper installation, alteration without Vortex Leisure Pty Ltd's prior written consent, accident, acts of God, misuse, abuse, commercial or industrial use of an accessory not approved by Vortex Leisure Pty Ltd, failure to follow Fisher Spas™ Pre-Delivery Instructions or Owner's Manual, or repairs made or attempted by anyone other than an authorized representative of Vortex Leisure Pty Ltd. Vortex Leisure Pty Ltd or its agents will not be liable for any incidental or consequential loss or injury. Vortex Leisure Pty Ltd will not be liable for costs associated with but not limited to building alterations, removal costs, delivery costs or labour costs associated with the replacement of a spa.

**You must check and tighten all barrel unions regularly. Failure to do so may affect your warranty.  
See your user manual for further information.**

FSW070324

**Fisher Lap-E™**

**Structural Certificate**

**Building Act 1993**  
*Section 238(1)(a)*  
**Building Regulations 2018**  
*Regulation 126*

**CERTIFICATE OF COMPLIANCE FOR PROPOSED BUILDING WORK**

**This certificate is issued to**

Relevant building surveyor

**This certificate is issued in relation to the proposed building work at:**

TBC

**Nature of proposed building work**

Construction of Proposed Fisher Spas – Fisher Lap / Fisher Lap E

**Building classification**

Part of building: SPA

BCA Classification: 10b

**Prescribed class of building work for which this certificate is issued:**

Design or part of the design of building work relating to Structural matter

**Documents setting out the design that is certified by this certificate**

Document no.	Document date	Type of document (e.g. drawings, computations, specifications, calculations etc.)	Prepared by
2306132	21/02/2024	<b>Structural Drawings – Rev. B</b> <i>As Nominated on the Sheet Index, Drawing Sheet S000</i>	Barrason's Group

**The design certified by this certificate complies with the following provisions of Building Act 1993, Building Regulations 2018 or National Construction Code**

Act, Regulation or NCC	Section, Regulation, Part, Performance Requirement or other provision
<b>NCC 2022</b>	Part H1 of the NCC Vol. 2-2022 including relevant Australian Standards: AS1170.0, AS/NZ1170.1-2002, AS/NZ1170.2-2011, AS1684.2 AS1684.4, AS1720.1, AS2870, AS3959, AS3600, AS3700, AS3850, AS4100, AS4055, AS4671, AS4773.1

I prepared the design, or part of the design, set out in the documents listed above.

I certify that the design set out in the documents listed above complies with the provisions set out above.

I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.



**Engineer:**

**Full Name:** Andrew Barraclough

**Registrations:** FIEAUST, CPEng, NER, RBP

**Qualifications:** BEng MEng PhD

**Address:** Lvl 2, 2 Pacific Promenade, Pakenham, VIC 3810

**Email:** [admin@barrasons.com.au](mailto:admin@barrasons.com.au)

**Endorsed building engineer area of engineering:** Structural

**Endorsed building engineer registration no.:** PE0000600, RPEQ 22822

**Building practitioner registration category and class:** C

Signed:

*Andrew Barraclough*

Date of issue of certificate: 21/02/2024

This form is the approved form that must be used in accordance with section 10 of the *Building Act 1975* and sections 73 and 77 of the *Building Regulation 2021* (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

<p><b>1. Property description</b></p> <p>This section need only be completed if details of street address and property description are applicable.</p> <p>E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.</p> <p>Where applicable, the description must identify all land the subject of the application.</p> <p>The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.</p> <p>If the plan is not registered by title, provide previous lot and plan details.</p>	<p>Street address <i>(include number, street, suburb/locality and postcode)</i></p> <p>.....</p> <p>..... State ..... Postcode .....</p> <p>Lot and plan details <i>(attach list if necessary)</i></p> <p>.....</p> <p>Local government area the land is situated in</p> <p>.....</p>
<p><b>2. Description of aspect/s certified</b></p> <p>Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.</p>	
<p><b>3. Basis of certification</b></p> <p>Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.</p>	

<p><b>4. Reference documentation</b></p> <p>Clearly identify any relevant documentation, e.g. numbered structural engineering plans.</p>	
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<p><b>5. Building certifier reference number and building development application number</b></p>	<p>Building certifier reference number</p> <p>.....</p> <p>Building development application number <i>(if available)</i></p> <p>.....</p>
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<p><b>6. Appointed competent person details</b></p> <p>Under Part 6 of the Building Regulation 2021 a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.</p>	<p>Name <i>(in full)</i></p> <p>.....</p> <p>Company name <i>(if applicable)</i> <span style="float: right;">Contact person</span></p> <p>.....</p> <p>Business phone number <span style="float: right;">Mobile number</span></p> <p>.....</p> <p>Email address</p> <p>.....</p> <p>Postal address</p> <p>.....</p> <p>..... State ..... Postcode .....</p> <p>Licence class or registration type <i>(if applicable)</i></p> <p>.....</p> <p>Licence or registration number <i>(if applicable)</i></p> <p>.....</p>
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<p><b>7. Signature of appointed competent person</b></p> <p>This certificate must be signed by the individual assessed and appointed by the building certifier as competent to give design-specification help.</p>	<p>Signature <span style="float: right;">Date</span></p> <p style="text-align: center;"><i>Andrew Barraclough</i></p> <p>.....</p>
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**LOCAL GOVERNMENT USE ONLY**

<b>Date received</b>		<b>Reference number/s</b>	
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## Appendix – explanatory information

**IMPORTANT NOTE:** it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

**Who can complete this certificate?** (section 10 of the *Building Act 1975* (Building Act) and sections 73 and 77 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design-specification) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

When completing the certificate, a competent person is required under section 77 of the BR 2021 to include the basis for giving the certificate and state the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications.

**What is the purpose of this form?** (section 10 of the Building Act and sections 73 and 77 of the BR 2021)

The information in this form informs the building certifier's decision making when they are assessing a building development application, issuing the building development approval for the building work the subject of the certificate (form) and when amending the building development approval due to the receipt of updated aspect information such as glazing or truss specifications or revised excavation drawings.

**Can a manufacturer or supplier give this Form 15?**

A building certifier can accept this form from a manufacturer or supplier who the certifier has decided is a competent person (design-specification).

A manufacturer or supplier of building materials can give this form if they have undertaken the design component for the product. For example a window manufacturer who designs, constructs and supplies the windows to industry could give this form.

**Competent person** (section 10 of the Building Act 1975 and Part 6 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can accept design-specification help.

When deciding whether a person can be a competent person, the building certifier must assess the person having regard to their experience, qualifications and skills and ensure the person holds a licence or registration if required.

The building certifier is required to keep detailed records about what was considered when appointing a competent person.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

**What is required if a manufacturer or supplier did not do the design work for the product?**

A manufacturer or supplier who is not part of the design process may give the construction contractor, builder, competent person or the building certifier evidence of suitability such as a product technical statement under Part A5 of the Building Code of Australia (BCA), for an aspect or material stating that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

**What if there is not enough space for all the supporting material/documents?**

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. Note that editing the form in the Microsoft Word version may cause the relevant boxes to expand and increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

**Appointed competent person (design or specification)** – (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

**PRIVACY NOTICE**

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.


# SPA WORLD

## SPA STRUCTURAL DRAWINGS

### FISHER SPAS - FISHER LAP / FISHER LAP E

#### Sheet Index

Layout ID	Layout Name
S000	Title Sheet
S001	General Notes-1
S002	General Notes-2
S101	Spa Framing Plan
S102	Spa Perspective

REV	STATUS	DRAWN	CHECKED	DATE	 <b>Barrason's Group</b> E: admin@barrasons.com.au T: (03) 5940 2638 W: www.barrasons.com.au	TITLE:	PROJECT ADDRESS:	JOB No: 2306132-2	DRAWN: F.N.	DWG No: S000	FOR CONSTRUCTION
A	FOR CONSTRUCTION	F.N.	B.E.	15.06.2023		TITLE SHEET	SPA STRUCTURAL DRAWINGS	CLIENT: SPA WORLD	CHECKED: B.E.		
B	FOR CONSTRUCTION	F.N.	B.E.	21.02.2024		FISHER SPAS	SCALE: NTS	APPROVED: B.E.	REVISION: B		



## STRUCTURAL STEELWORK:

- S1 ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100.
- S2 ALL STEEL SHALL BE NEW AND FREE FROM WELDS AND BLEMISHES UNLESS APPROVED BY THE ENGINEER.
- S3 FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AS 4100 AND SAA/SNZ HB62.
- S4 HOT-ROLLED AND WELDED PRODUCTS SHALL BE BHP-300PLUS AND PLATE SHALL BE GRADE 250 U.N.O.
- S5 ALL WELDING SHALL BE IN ACCORDANCE WITH AS 1554.
- S6 WELD TYPES ARE DESIGNATED AS FOLLOWS  
CFW - CONTINUOUS FILLET WELD  
FPBW - FULL PENETRATION BUTT WELD  
PPBW - PARTIAL PENETRATION BUTT WELD
- S7 ALL WELDS SHALL BE 6mm CONTINUOUS FILLET, CATEGORY GP, USING E41XX/W40X CONSUMABLES U.N.O.
- S8 WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554 INSPECTED & CERTIFIED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH AS2214
- S9 ALL HIGH-STRENGTH STRUCTURAL BOLTS SHALL BE M20 GRADE 8.8/S U.N.O. IN ACCORDANCE WITH AS 1252
- S10 HOLDING-DOWN BOLTS SHALL BE M20 GRADE 4.6/S, GALVANISED U.N.O
- S11 BOLTS MUST BE OF SUFFICIENT LENGTH TO HAVE AT LEAST ONE FULL THREAD EXPOSED AFTER TIGHTENING
- S12 BOLTS IN OVERSIZE OR SLOTTED HOLES ARE TO HAVE SUITABLE LARGER SIZE WASHERS
- S13 CONNECTIONS NOT SPECIFICALLY DETAILED SHALL BE IN ACCORDANCE WITH THE APPROPRIATE CONNECTION AS DETAILED IN THE AISC STANDARDISED STRUCTURAL CONNECTIONS MANUAL.
- S14 UNLESS NOTED OTHERWISE CONNECTIONS BETWEEN 2 STRUCTURAL STEEL MEMBERS ARE TO HAVE MINIMUM 2M20 8.8/S BOLTS IN 220mm HOLES
- S15 BOLT TYPES AND BOLTING PROCEDURE ARE DESIGNATED AS FOLLOWS  
4.6/S - COMMERCIAL BOLTS TO AS 1111, SNUG TIGHTENED  
8.8/S - HIGH STRENGTH STRUCTURAL BOLTS, NUTS AND HARDENED WASHERS TO AS 1252, SNUG TIGHTENED  
8.8/TB - HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS 1511 IN A BEARING TYPE JOINT  
8.8/TF - HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS 1511 IN A FRICTION TYPE JOINT
- S16 FULLY TENSIONED BOLTS ARE TO BE INITIALLY SNUG TIGHTENED, CONNECTING PLATES ADJUSTED TO FULL CONTACT, THEN TIGHTEN BOLTS TO AN ADDITIONAL HALF TURN IN ACCORDANCE WITH AS 4100  
ALTERNATIVELY PROVIDE LOAD INDICATING WASHERS AND INSTALL CONNECTIONS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS 4100
- S17 ALL CLEAT PLATES AND STIFFENERS SHALL BE 10mm THICK U.N.O.
- S18 THE ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH A 3mm PLATE U.N.O.
- S19 TUBULAR MEMBERS TO BE GALVANISED SHALL BE ADEQUATELY VENTED.
- S20 PURLINS AND GIRTS INCLUDING LATERAL AND BUCKLING RESTRAINING MEMBERS SUCH AS BRIDGING, STRUTS AND TIE RODS SHALL BE IN ACCORDANCE WITH AS/NZS 4600, GALVANISED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
- S21 BEFORE COMMENCING FABRICATION 3 COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THIS REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS.
- S22 CAMBER SHALL BE AS NOTED ON THE DRAWINGS.
- S23 STRUCTURAL STEEL TO BE CONCRETE ENCASED SHALL BE WRAPPED WITH F41 MESH. THE GAP BETWEEN THE STRUCTURAL STEEL AND THE MESH AND AND THE THE EXTERNAL COVER TO THE MESH SHALL BE 25mm AND 50mm RESPECTIVELY.

- S24 ALL BOLTS AND STRUCTURAL STEEL EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANISED U.N.O. PAINT SYSTEMS TO GALVANISED STEEL TO BE AS SPECIFIED BY THE ARCHITECT
- S25 ALL STEEL LINTELS SUPPORTING MASONRY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANISED.
- S26 PROVIDE ALL NECESSARY CLEATS AND HOLES REQUIRED TO FIX TIMBER AND OTHER MATERIALS AND FINISHES TO THE STEELWORK.
- S27 LINTELS SHALL NOT BE PROPPED DURING LOAD APPLICATION U.N.O.
- S28 THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO ADEQUATELY STABILIZE THE STRUCTURE DURING ERECTION.
- S29 PROVIDE 150mm MINIMUM END BEARING WITH 20mm NOM. LEVELLING GROUT U.N.O. TO STEELWORK SEATED ON MASONRY. CHARACTERISTIC COMPRESSIVE STRENGTH OF GROUT IS 30MPa
- S30 PROTECTIVE COATINGS TO INTERNAL STEELWORK (U.N.O.):  
PREPARATION: CLASS 2A ABRASIVE BLAST COATING:  
FIRST COAT INORGANIC ZINC SILICATE  
75 DRY FILM THICKNESS  
SECOND COAT ACRYLIC PAINT  
50 DRY FILM THICKNESS  
THIRD COAT ACRYLIC PAINT  
50 DRY FILM THICKNESS  
CONCRETE ENCASED AND FIRE-SPRAYED MEMBERS, AND FRICTION-GRIP BOLTED CONNECTIONS MUST NOT BE PAINTED. U.N.O.
- S31 COATINGS DAMAGED DURING TRANSPORT AND ERECTION OR BY WELDING SHALL BE MADE GOOD AFTER BEING WIRE-BRUSHED CLEAN, AND RECOATED AS ABOVE.
- S32 REFER TO ARCHITECTURAL DRAWINGS FOR ALL ADDITIONAL PLATES, ANGLES ETC. AS REQUIRED FOR FIXINGS TO INTERNAL PARTITIONS, BLOCKING, WINDOW FRAMES, ARCHITECTURAL FEATURES ETC
- S33 PROVIDE ALL NECESSARY TRIMMING ANGLES AND FIXINGS TO SUPPORT CLADDING AND FLASHINGS AT ROOF OR WALL INTERSECTIONS
- S34 PROVIDE ALL NECESSARY SUBFRAMES AND TRIMMERS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AND ARCHITECTURAL FEATURES
- S35 SUPPORT ROOF BRACING FROM EVERY SECOND PURLIN WITH HOOK BOLTS

## SPA MANUFACTURE :

### CONSTRUCTION SEQUENCE :

- STEP 1. VACUUM FORM USING 4.75, ARISTECH ACRYLIC SHEET
- STEP 2. FIRST COATING 1.5MM - 2MM USING APPROX. 40:60 RATIO ( GLASS TO .... RESIN )  
FIBERGLASS PRAY UP ROVING : 110P VINYL ESTER RESIN CATALYST M50 (1.8% - 2%)
- STEP 3. OVER CURE AT 35-40 DEGREES CELSIUS
- STEP 4. SECOND COATING 4MM - 8MM USING APPROX. 40:60 RATIO (GLASS TO RESIN)  
FIBERGLASS PRAY UP ROVING : 290P POLYESTER RESIN CATALYST 388 (1.8% - 2%)  
CALCIUM CARBONATE FILLER ON SECOND LAYER

### NOTES :

SWIMMING POOL AND SPA SAFETY TO FOLLOW THE GUIDELINES OF PN-05-2018 PUBLISHED BY VBA.

BARRIERS AND LOCATION OF BARRIERS TO BE DESIGNED TO REQUIREMENTS OF AS 1926.1-2012 AND AS 1926.2-2007, SWIMMING POOL SAFETY - SAFETY BARRIERS FOR SWIMMING POOLS.

DESIGN AND INSTALL POOLS AND SPAS MANUFACTURED FROM FIBRE-REINFORCED PLASTIC MATERIALS, WITH VOLUMES EXCEEDING 7500 AND DEPTHS GREATER THAN 750MM, TO REQUIREMENTS OF AS/NZS 1838:1994, SWIMMING POOLS - PREMOULDED FIBRE-REINFORCED DESIGN AND FABRICATION.

REV	STATUS	DRAWN	CHECKED	DATE
A	FOR CONSTRUCTION	F.N.	B.E.	15.06.2023
B	FOR CONSTRUCTION	F.N.	B.E.	21.02.2024



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TITLE:  
GENERAL NOTES-2

PROJECT ADDRESS:  
SPA STRUCTURAL DRAWINGS  
FISHER SPAS

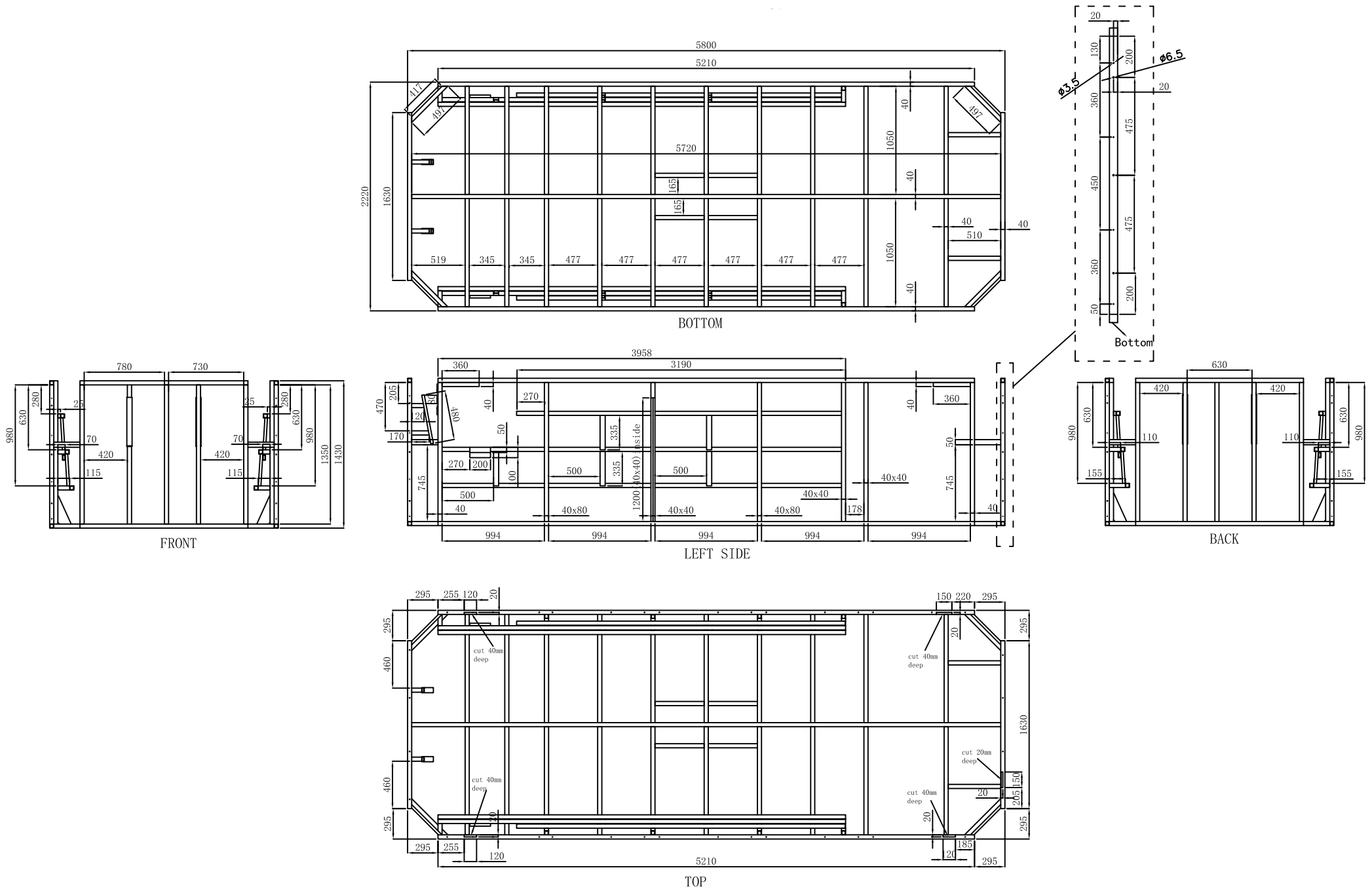
JOB No: 2306132-2  
CLIENT: SPA WORLD  
SCALE: NTS

DRAWN: F.N.  
CHECKED: B.E.  
APPROVED: B.E.

DWG No:  
REVISION:

S002  
B

FOR  
CONSTRUCTION



REV	STATUS	DRAWN	CHECKED	DATE
A	FOR CONSTRUCTION	F.N.	B.E.	15.06.2023
B	FOR CONSTRUCTION	F.N.	B.E.	21.02.2024

**Barrason's Group**  
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**TITLE:**  
SPA FRAMING PLAN

**PROJECT ADDRESS:**  
 SPA STRUCTURAL DRAWINGS  
 FISHER SPAS

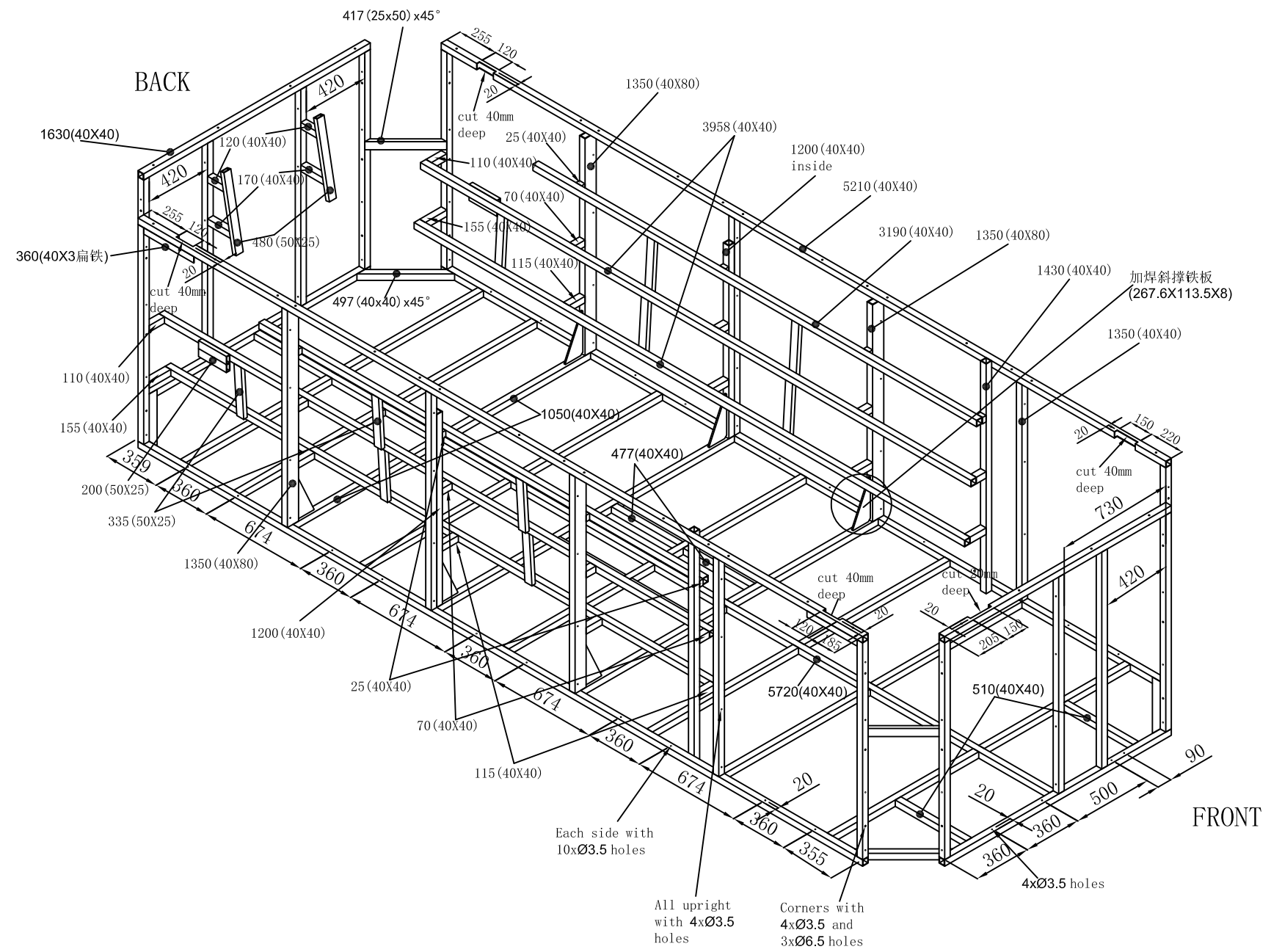
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 CLIENT: SPA WORLD  
 SCALE: 1:100 @A3

**DRAWN:** F.N.  
**CHECKED:** B.E.  
**APPROVED:** B.E.

DWG No: **S101**  
 REVISION: **B**

**FOR CONSTRUCTION**





REV	STATUS	DRAWN	CHECKED	DATE
A	FOR CONSTRUCTION	F.N.	B.E.	15.06.2023
B	FOR CONSTRUCTION	F.N.	B.E.	21.02.2024

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TITLE:  
SPA PERSPECTIVE

PROJECT ADDRESS:  
SPA STRUCTURAL DRAWINGS  
FISHER SPAS

JOB No: 2306132-2  
CLIENT: SPA WORLD  
SCALE: 1:100 @A3

DRAWN: F.N.  
CHECKED: B.E.  
APPROVED: B.E.

DWG No: S102  
REVISION: B

FOR CONSTRUCTION



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