

CLIPPER POOL 160KG
STRUCTURAL CAPACITY DESIGN ASSESSMENT

ASSET ID: _____

SERIAL NUMBER: _____

CLIENT: Polyworld, 14-20 Robson St, Clontarf QLD 4019

Notes:

| Rev | Date | Notes |
|-----|------------|--------------------|
| O | 19/07/2023 | APPROVED FOR ISSUE |
| | | |



Austica Pty Ltd

LEADERSHIP IN ENGINEERING

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Woolloongabba

Qld 4102

CLIENT: Polyworld, 14-20 Robson St, Clontarf QLD 4019.

PROJECT: Various as determined by Polyworld.

LOCATION: Various as determined by Polyworld.

ITEM: Clipper Pool 160kg Structure Design Capacity assessments.

ASSET ID: _____. **SERIAL NUMBER:** _____

DATE: 19/07/2023.

COMMENTS:

Polyworld requested a Structural Capacity Design Assessment for a Clipper Pool 160kg Structure. The main fabrication materials consisted of Alkatuff LL711UV Linear Low Density Polyethylene Materials. Nominal wall thickness was 9 to 12mm. Polyworld provided the associated Fabrication Drawings as per the attached PDF.

Austica Pty Ltd then carried out Structural Modelling and Analysis to check Structural Capacity compliance with AS 1170, AS 1170.1, AS 1838, AS 1664.1, AS 4100 and AS 1554.1

The Analysis indicates that the Clipper Pool 160kg Structure design meets the requirements of the above noted Australian Standards, where installed as per the manufacturer recommendations.

Pool installation to be as per AS 1839 specifications. Where the structure is partially or wholly installed into the ground, relevant Engineers including Geotechnical, Structural and Hydraulic Engineers to be consulted to offer specific site pool installation and operation specifications. Site specific Engineering specifications to also consider pool emptying procedures including any necessary internal bracing. Periodic inspections to be undertaken to the Structure and identify any damage. The Structure to be only used when in structurally sound state.

Polyworld to ensure the pool fabrication has been carried out to ISO 9000 QA procedures and that the materials indicated in the fabrication drawings have been utilised.

Sign:

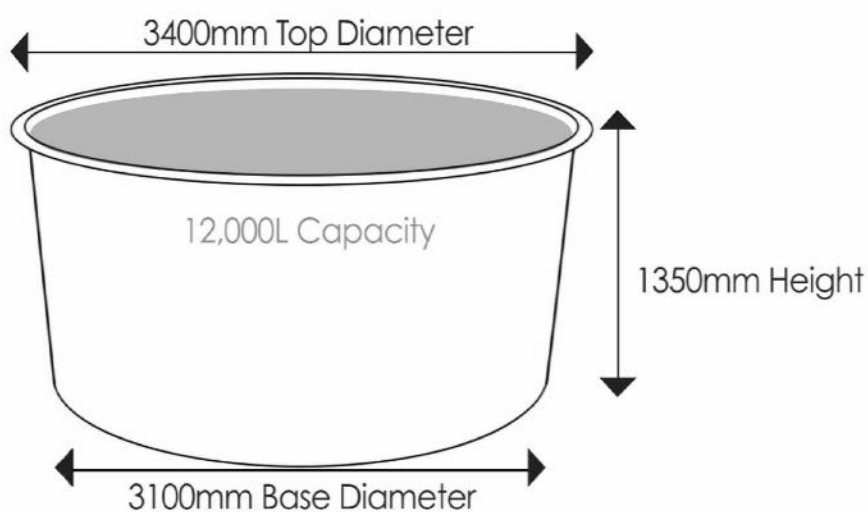


Name: Peter Kairu RPEQ 10198 MIEAust CPEng Chartered Professional Engineer 3473760 NER

Att: Fabrication Drgs PDF

Base Reference: AS 1170, AS 1170.1, AS 1838, AS 1839, AS 1664.1, AS 4100, AS 1554.1

Clipper Pool Drawing



| | Capacity | | Height | | Diameter/Width | |
|---------|----------|---------|--------|----------|----------------|----------|
| | LITRES | GALLONS | METRIC | IMPERIAL | METRIC | IMPERIAL |
| Clipper | 12000 | 3170 | 1350 | 4'4" | 3400 | 11'2" |

Benchmark Certificate

This is to certify that:

Polymer Link Sdn. Bhd
Lot 99045, Jalan Tun Perak 1/KU16
Perdana Industrial Park
Port Klang
Selangor
42000
Malaysia

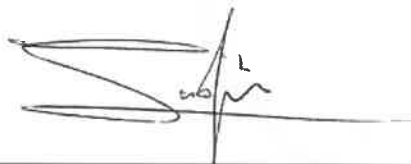
Holds Certificate Number:

BMP 694797

In respect of:

AS/NZS 4766:2020 Rotationally moulded buried, partially buried and non-buried storage tanks for water and chemicals.

Is authorised to use the BSI registered Benchmark Product Certification Trademark, on products identified in the Product Certification Schedule that is attached to this Product Certification certificate. Such products have been Type Tested and are manufactured under the Product Certification Requirements monitored by BSI to ensure that the manufacturing process has the capability to consistently produce products in compliance with and are certified to the above standard(s).



For and on behalf of BSI:

Charlene Loo, Managing Director, BSI Group Australia & New Zealand

First Issued: 2019-05-09

Latest Issue: 2024-06-12

Expiry Date: 2029-05-08

JAS-ANZ



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Benchmark Certificate

No. BMP 694797

Schedule

This schedule supports the Product Certification Certificate for

ABN

Head Office Address

Holds Certificate Number

Standard

Polymer Link Sdn. Bhd

Not Applicable

Lot 99045, Jalan Tun Perak 1/KU16
Perdana Industrial Park
Port Klang
Selangor
42000
Malaysia

BMP 694797

AS/NZS 4766:2006 Polyethylene storage tanks for water and chemicals.
AS/NZS 4766:2020 Rotationally moulded buried, partially buried and non-buried storage tanks for water and chemicals.

The products certified to version 2006 of the standard comply to all the material test requirements of Clause 5 of the standard 4766:2006
The products certified to version 2020 of the standard comply to all the material test requirements of Clause 2 of the standard 4766:2020

| Model | BSI Review Date | Description: AS/NZS 4766:2006 |
|----------------------------|-----------------|--|
| Rotational Moulding Powder | 18/04/2019 | PL6338 Rotational Moulding Powder in colours: Basalt Beige – 1 Black BM Beige BM Storm Blue UV BM Wheat CB Heritage Red CB Merino CB Rivergum Classic Cream Cove Desert Haze Earthtone Gully Jasper Light Grey Loft |

First Issued: 2019-05-09

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Benchmark Certificate

No. BMP 694797

Schedule

| Model | BSI Review Date | Description: AS/NZS 4766:2006 |
|----------------------------|-----------------|---|
| Rotational Moulding Powder | 18/04/2019 | PL6338 Rotational Moulding Powder in colours: Mangrove Metal Grey P TK Slate Grey Rivergum Shale Grey Smooth Cream Tank White Terrain Tuscan Red Wallaby Wheat UV Slip |

First Issued: 2019-05-09

Latest Issue: 2024-06-12

Expiry Date: 2029-05-08

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The use of this certificate and of the Benchmark Product Certification mark trademark is subject to the Client complying with the BSI Mark Requirements, and Terms and Conditions. BSI Group ANZ Pty Ltd, Suite 1, Level 1, 54 Waterloo Road, Macquarie Park, NSW 2113
The validity of this certificate can be checked at website: www.bsi-global.com/clientdirectory and the JASANZ website: www.jas-anz.org/register. This certificate remains the property of BSI and must be returned upon its request

Benchmark Certificate

No. BMP 694797

Schedule

| Model | BSI Review Date | Description: AS/NZS 4766:2020 |
|----------------------------|-----------------|---|
| Rotational Moulding Powder | 14/12/2023 | PL6338 Rotational Moulding Powder in colours: Tank Slate Grey Merino Beige CB Rivergum CB Slate Grey Mist Green Heritage Red Tank Beige Dark Grey Smooth Cream |

First Issued: 2019-05-09

Latest Issue: 2024-06-12

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Benchmark Certificate

No. BMP 694797

Certification Administration Details

Technical File Reference:

Certificate Amendment Record

| Issue date | Comments | BSI Review No. |
|------------|-----------------------------|----------------|
| May 2019 | First Issue | SMO 8992034 |
| Dec 2023 | Second Issue | SMO 30076677 |
| June 2024 | Recertification and renewal | SMO 3782023 |

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