

AS 1838:2021



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Swimming pools — Premoulded fibre-reinforced plastics — Design and fabrication

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This Australian Standard® was prepared by PL-041, Glass Reinforced Swimming Pools. It was approved on behalf of the Council of Standards Australia on 1 March 2021.

This Standard was published on 12 March 2021.

The following are represented on Committee PL-041:

- Australian Fibreglass Manufacturers Group
- Australian Institute of Building Surveyors
- Composites Australia
- Engineers Australia
- Swimming Pool and Spa Association of Australia
- University of Southern Queensland

This Standard was issued in draft form for comment as DR AS 1838:2020.

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ISBN 978 1 76113 239 1

Swimming pools — Premoulded fibre-reinforced plastics — Design and fabrication

Originated as AS 1838—1975.
Second edition 1989.
Jointly revised and designated as AS/NZS 1838:1994.
Revised and redesignated as AS 1838:2021.

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Preface

This Standard was prepared by the Standards Australia Committee PL-041, Glass Reinforced Swimming Pools, to supersede AS/NZS 1838:1994.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to set out procedures for the design and fabrication of premoulded fibre-reinforced plastics (FRP) swimming pools.

The major changes in this edition are as follows:

- (a) Additions and amendments to scope (see [Clause 1.1](#)), normative references (see [Clause 1.2](#)) and to terms and definitions, see [Clause 1.3](#).
- (b) Additions and amendments to materials, see [Clause 2](#).
- (c) Additions and amendments to design (see [Clause 3](#)), including the addition of hydrodynamic loads.
- (d) Additions and amendments to construction requirements (see [Clause 4](#)), including the addition of clear and textured gelcoats.
- (e) Significant changes to performance requirements (see [Clause 5](#)) in conjunction with [Appendices E](#) and [F](#).
- (f) Addition of a new appendix providing external factors that affect in-service performance, see [Appendix G](#).

The terms “normative” and “informative” are used in Standards to define the application of the appendix to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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