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**Committee: P1838/39**

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Standards New Zealand

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## **Public comment information**

### **Status**

This document is a proposed New Zealand standard under the Standards and Accreditation Act 2015. Issued as a draft in this form, it provides the required statutory opportunity for consideration and comment by the bodies and persons having an interest in the standard.

Closing date for comments **30 June 2025**.

**DRAFT**

## **Committee representation**

This standard was prepared by the P1838/39, Swimming Pools – Pre-Moulded Fibre-Reinforced Plastics Committee.

The committee consisted of representatives of the following nominating organisations:

Australian Fibreglass Manufacturers Group  
Composites Australia  
Engineering New Zealand  
Master Pool Builders Group  
Pool and Spa Association  
Pool and Spa Covers Alliance Australasia  
Swimming Pool & Spa Association Australia  
University of Southern Queensland

## **Acknowledgement**

Standards New Zealand gratefully acknowledges the contribution of time and expertise from all those involved in developing this standard.

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New Zealand Standard

**Swimming pools –  
Premoulded fibre-  
reinforced plastics –  
Installation**

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Superseding AS/NZS 1839:1994

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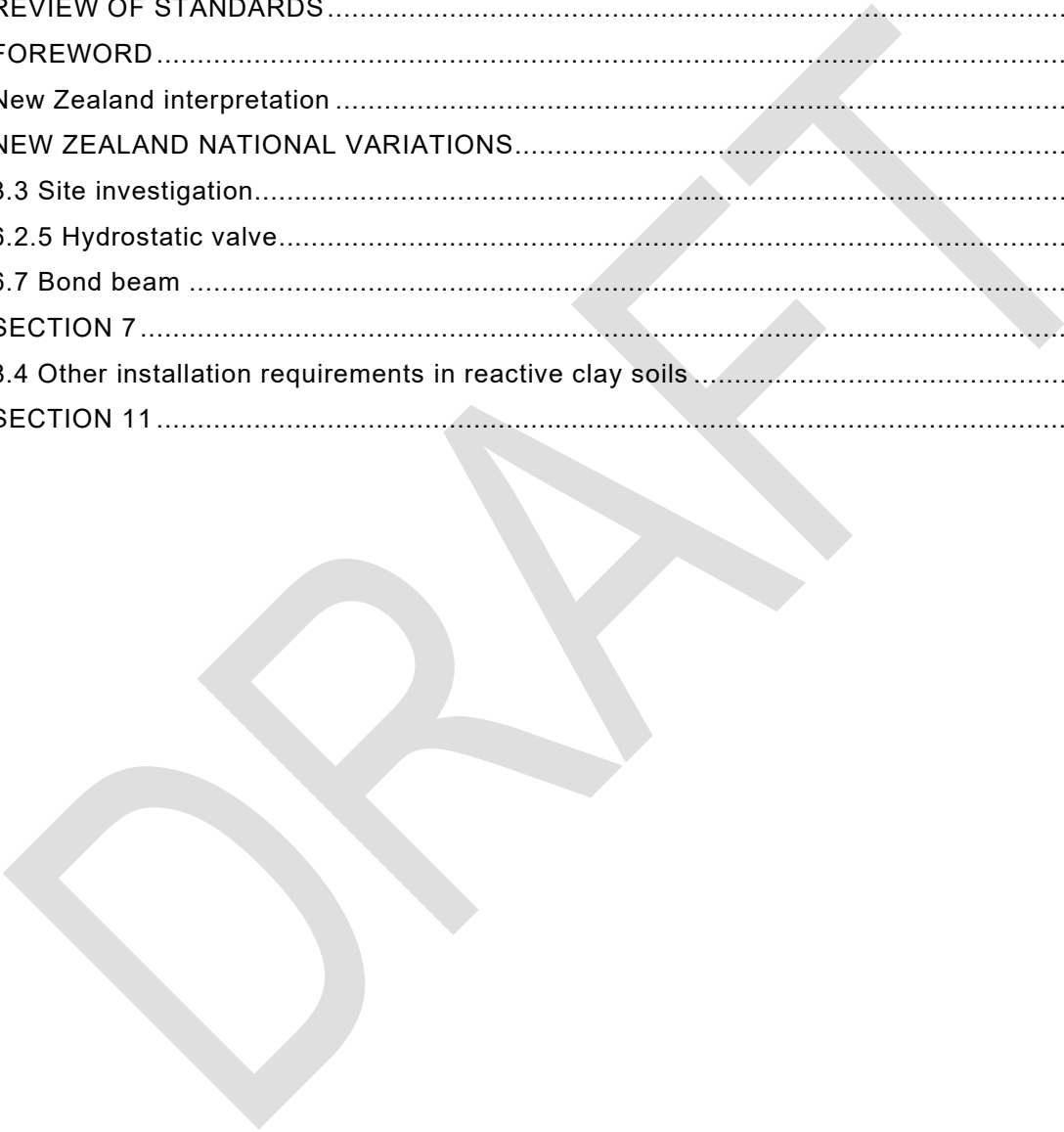
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## LATEST REVISIONS

The users of this standard should ensure that their copies of the above-mentioned New Zealand standards are the latest revisions. Amendments to referenced New Zealand and joint Australian/New Zealand standards can be found on [www.standards.govt.nz](http://www.standards.govt.nz).

## REVIEW OF STANDARDS

Suggestions for improvement of this standard will be welcomed. They should be sent to the National Manager, Standards New Zealand, PO Box 1473, Wellington 6140.

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## FOREWORD

This standard was prepared by P1838/39 Swimming Pools – Pre-Moulded Fibre-Reinforced Plastics Committee to supersede AS/NZS 1839:1994.

AS/NZS 1839:1994, *Swimming pools – Premoulded fibre-reinforced plastics – Installation* was revised as an Australian-only standard and published in 2021. Because the design and fabrication of fibreglass swimming pools and spas have increased in Aotearoa New Zealand, and many changes have taken place, since 1994, the Swimming Pool and Spa Association (SPASA) of Australia and New Zealand commissioned the work required to identify relevant national variations and adopt AS 1839:2021 as a New Zealand standard.

Manufacturers and consumers will benefit from access to this updated standard, which references up-to-date technologies and design and installation considerations.

The objective of this document is to set out procedures for the installation of premoulded fibre-reinforced plastic (FRP) swimming pools. This document is a modified adoption of AS 1839:2021.

The terms 'normative' and 'informative' are used in standards to define the application of the appendices or annexes to which they apply. A 'normative' appendix or annex is an integral part of a standard, whereas an 'informative' appendix or annex is for information and guidance only.

### New Zealand interpretation

The text of AS 1839:2021 was approved as a New Zealand standard with the agreed national variations as given below, with instructions for preparing a consolidated version. AS 1839:2021 is also reproduced here in full, with the affected clauses identified by a marginal bar.

## NEW ZEALAND NATIONAL VARIATIONS

### 3.3 Site investigation

Add the following sentence:

A site investigation shall be undertaken prior to commencement of work to ensure that the proposed installation of the pool considers the stability of installation on any site that is within the zone of influence of existing structures, and/or sites that are reactive, sloping, reclaimed, and/or filled, or subject to adverse site conditions from time to time, as identified by a 'competent person'.

### 6.2.5 Hydrostatic valve

The last sentence in this subclause should be reworded as follows:

The valve design shall incorporate a hydrostatic sump and a subsoil drainage system (see Figure 6.2.6 and 6.2.2(ii)).

### 6.7 Bond beam

Add this note:

Note – Differential movement between the installed pool structure and adjacent concrete works due to reactive clay is not considered to be an installation deviation and will vary depending on the level of reactivity but is acceptable unless it compromises the structural integrity of the pool. For post-installation works, refer to section 11.

## SECTION 7

Add this new clause as **7.5 Site investigation**:

A site investigation shall be undertaken prior to commencement of work to ensure that the proposed installation of the pool considers the stability of installation on any site that is within the zone of influence of existing structures, and/or sites that are reactive, sloping, reclaimed, and/or filled, or subject to adverse site conditions from time to time, as identified by a 'competent person'.

### 8.4 Other installation requirements in reactive clay soils

Replace Note 2 with this new Note 2:

Note 2 – If connecting to existing stormwater drainage, it may be necessary to prevent back surcharge in the event of a storm or blockage. When this is not possible, a pump and sump system approved by a 'competent person' may be considered. An example of a 'competent person' in this situation would be a pool builder or site supervisor who:

- (a) Has completed relevant training or acquired experience in stormwater drainage installation; and
- (b) Is recognised by industry associations, training bodies, or the employer as having the necessary expertise to oversee and perform stormwater drainage installations (including pump and sump systems) to the required standard.

## SECTION 11

Replace (iii) with the following:

- (iii) Concrete works, including expansion joints and dowelling requirements between the installed pool structure and the proposed adjacent concrete works to prevent differential movement.



**AS 1839:2021**

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