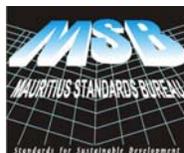

**Specification for glass fibre reinforced
cisterns of one-piece and sectional
construction, for the storage, above
ground, of cold water**

ICS 23.020.10, 91.140.60



**Mauritius Standards Bureau
Moka**

Gr 15

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*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

Telephone + (230) 433 3648
Fax + (230) 433 5051/ 433 5150
E-mail msb@intnet.mu
Website <http://msb.intnet.mu>

National foreword

This Mauritian Standard is identical with the European Standard **EN 13280:2001**, *Specification for glass fibre reinforced cisterns of one-piece and sectional construction, for the storage, above ground, of cold water*. It was adopted by the Mauritius Standards Bureau in 2011 on the recommendation of the **Building and Construction Standards Committee** and approval of the **Standards Council** on 25 November.2011. It was notified in the Government Gazette on **24 December 2011***.

For the purposes of this standard the following changes should be made:

- (i) the words 'European Standard' should be read as 'Mauritian Standard'.
- (ii) **Clause 2: Normative references** – replace “ISO 472, *Polyester resin systems – Designation*” by
 “ISO 3672-1, *Plastics – Unsaturated-polyester resins (UP-R) – Part 1: Designation System*”.
- (iii) **Clause 6.6: Manholes or access hatches** – Add the following paragraph
 Tanks of depths less than 1.5 m shall be provided with an access hatch of at least 300 mm x 300 mm or 300 mm diameter.
- (iv) **Clause 8.1: Effect on water quality**
The water shall comply with “the Mauritius Environment Protection (Drinking Water Standards) Regulations 1996, at a surface area to volume ratio of 15 000 mm²/L, when tested in accordance with AS/NZS 4020.
- (v) To add the following requirement in clause 9
9.5 Provision for washout
The tanks shall have provision for washout.
NOTE: The diameter of the drain should be big enough to allow the tank to be emptied in a reasonable time.

* **General Notice No 3033 of 2011.**

English version

Specification for glass fibre reinforced cisterns of one-piece and sectional construction, for the storage, above ground, of cold water

Spécification pour citernes monoblocs et réservoirs compartimentés en PRV pour le stockage hors sol d'eau froide

Spezifikation für textilglasverstärkte Einkammer- oder Mehrkammertanks für die oberirdische Lagerung von Kaltwasser

This European Standard was approved by CEN on 9 June 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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COMITÉ EUROPÉEN DE NORMALISATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 210, GRP tanks and vessels, the Secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2002, and conflicting national standards shall be withdrawn at the latest by February 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the requirements for rectangular and vertical cylindrical glass reinforced plastics (GRP) one-piece cisterns and rectangular sectional tanks for the storage of water above ground for both domestic and industrial use within the following capacity ranges;

- a) one-piece cistern 500 l to 100 000 l;
- b) sectional tank 500 l and larger.

Particular requirements for additional components for cisterns for domestic use are also included.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 59, *Glass reinforced plastics — Measurement of hardness by means of a Barcol impresser.*

EN 578, *Plastics piping systems — Plastics pipes and fittings — Determination of the opacity.*

EN 10025:1993, *Hot rolled products of non-alloy structural steels — Technical delivery conditions.*

EN 10088-3:1995, *Stainless steels — Part 3: Technical delivery for semi finished products, bar, rod and sections for general purposes.*

prEN 13121-1:1998, *GRP tanks and vessels for use above ground — Part 1: Raw materials — Acceptance conditions and usage conditions.*

EN ISO 2078, *Textile glass — Yarns — Designation.*

ISO 75-3:1993, *Plastics — Determination of temperature of deflection under load — Part 3: High strength thermosetting laminates and long-fibre-reinforced plastics.*

ISO 472, *Polyester resin systems — Designation.*

ISO 1461, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements.*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C.*

ISO 8605, *Textile glass reinforced plastics; sheet moulding compound (SMC); basis for a specification.*