
GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF TRADE AND INDUSTRY

NO. R. 913

12 AUGUST 2016

**NATIONAL REGULATOR FOR COMPULSORY SPECIFICATIONS ACT
(Act No.5 of 2008), AS AMENDED THROUGH THE LEGAL METROLOGY ACT
(Act No.9 of 2014)****AMENDMENTS TO THE COMPULSORY SPECIFICATION FOR HOT WATER
STORAGE TANKS FOR DOMESTIC USE (VC 9006)**

I Dr Rob Davies, Minister of Trade and Industry, hereby under Section 13(1) of the National Regulator for Compulsory Specifications Act (Act 5 of 2008), declare the amendments of the Compulsory Specification for hot water storage tanks for domestic use (VC 9006) as set out in the attached schedule, effective 12 months after the publication of this notice for requirements 3.2 and immediately after the publication of this notice for other requirements.



Dr Rob Davies, MP
Minister of Trade and Industry

SCHEDULE**VC 9006****COMPULSORY SPECIFICATION FOR HOT WATER STORAGE TANKS FOR
DOMESTIC USE****1. SCOPE**

This compulsory specification covers the requirements for hot water storage tanks for domestic use. It includes

- fixed electrical storage water heaters;
- stand-alone water heaters and water containers, with or without heat exchangers or heating jackets, intended for use in solar heating and heat pump applications; and
- tanks used for storage of hot water only.

2. DEFINITIONS

For the purposes of this compulsory specification the definitions in SANS 151, *fixed electrical storage water heaters* and the following shall apply:

2.1 Applicant:

A manufacturer or importer applying for approval of hot water storage tanks. The manufacturer or importer shall be an existing legal entity within the Republic of South Africa.

2.2 Approval:

Confirmation by the NRCS that hot water storage tanks satisfy the requirements of this Compulsory Specification;

2.3 Manufacturer:

Entity that manufactures hot water storage tanks;

2.4 Minister:

The Minister of Trade and Industry.

2.5 NRCS:

The National Regulator for Compulsory Specifications, established by the National Regulator for Compulsory Specifications Act, 2008 (Act No. 5 of 2008).

2.6 Product Certificate:

A document (a certificate or a permit or a license) issued by a body operating a product certification systems described in 5.2 of this compulsory specification and accredited to SANS ISO/IEC 17065 standard.

2.7 Conformity of Production:

Proof (issued less than 12 months before the date of submission to the NRCS for approval) that hot water storage tanks offered for sale have been manufactured to the approved design and continue to comply with the requirements of this compulsory specification. The proof shall comprise of the manufacturer's quality management system certificate or report, and a control plan.

2.8 Proof of conformity: documented evidence of conformity with the requirements of this compulsory specification.

3. SPECIFIC REQUIREMENTS

- 3.1 Fixed electrical storage water heaters shall comply with the requirements of SANS 151 *Fixed electrical storage water heaters*.
- 3.2 Fixed storage water heaters shall have a minimum energy efficiency rating of **Class B** when tested in accordance with SANS 151.
- 3.3 Hot water storage tanks that do not incorporate means of electrical resistance heating shall comply with the requirements of SANS 151 except for the following:
 - For electrical safety: Clause 4.5- Safety Requirements;
 - Clause 5.5 - Mounting of heating units and thermostats where applicable;
 - Clause 5.10 - Electrical connections;

- Clause 5.11 - Immersion heaters and thermostats (where provision is made for the fitment thereof)
- Clause 6.7 - Hot water output (standard, solar, and heat pump water heaters);

Clause 6.8 - Reheating time (where provision is made for heating units);

- The markings in clause 8.1.1.d) and 8.1.3 - *Whether the water heater is a standard water heater or a solar (or dual) water heater, and Additional marking, respectively.*
- 3.4 The applicant shall ensure that every type of hot water storage tank has been approved by the NRCS in accordance with the requirements of Annex A of this compulsory specification before manufacture, import, sale or supply.
- 3.5 The applicant shall inform the NRCS of any change in the material used, method of manufacture, design or components affecting any mandatory requirement of this compulsory specification. In the event of such change(s) the NRCS may, at its discretion, demand the submission of fresh evidence of conformity or a new application for approval.

4. CONFORMITY TO REFERENCED STANDARDS

For the purposes of this compulsory specification, a new edition of a referenced standard shall become effective 12 months from the date of publication as a South African National Standard. When a new edition of a referenced standard is published, products originally approved in accordance with the previous edition of that standard may on application have their approval extended by the NRCS.

5. EVIDENCE OF CONFORMITY

The following forms of evidence shall be submitted to the NRCS as proof of conformity with the requirements of this compulsory specification

5.1 For hot water storage tanks without a product certification:

5.1.1 **A full test report** issued less than 36 months before the date of submission to the NRCS for approval. The full test report shall be issued by accredited and internationally recognized body being a member of an IAF/ILAC/IECEE mutual recognition scheme in accordance with the NRCS's conformity assessment policy.

5.2 For hot water storage tanks with a product certificate:

5.2.1 A **product certificate** and a **test report** issued less than 36 months before the date of submission to the NRCS for approval. The product certificate and test report shall be issued by an accredited and internationally recognized body being a member of an IAF/ILAC/IECEE mutual recognition scheme in accordance with the NRCS's conformity assessment policy.

5.2.2 The certification system administered by the product certification body in 5.2.1 shall include testing of the products and assessment of the quality system of the manufacturer, as evidenced by a report. The assessment report shall indicate the periodic surveillance of the quality system accompanied by a sampling plan of each type or representative of the family or generically the same design in respect of components wiring methods of a hot water storage tanks. The sampling plan shall indicate that samples are taken from the point of production and assessed through inspection and/or testing for on-going conformity. The certification system shall include the following:

- samples from the point of production requested by the certification body;
- determination of the characteristics of the samples by testing;
- initial assessment of the production process and quality system;
- evaluation of the test reports;
- decision on certification of the manufacturer;
- granting certification to the manufacturer;

- surveillance of the production process and quality system, and
- surveillance by testing of samples from the factory or the market.

A system 5 certification contemplated in ISO/IEC 17067 (Conformity assessment – fundamentals of product certification and guidelines for product certification schemes) which covers the requirements of this clause shall be deemed to comply with these requirements.

ANNEX A - APPROVAL OF HOT WATER STORAGE TANKS

A.1 APPLICATION FOR APPROVAL

The applicant shall apply to the NRCS for approval of every type of hot water storage tank. The application shall be accompanied by the following:

A.1.1 Technical specifications and drawings compiled in sufficient detail to identify the type and model of the hot water storage tank, method of assembly, and materials of construction.

A.1.2 Details of the manufacturing plant/s where the hot water storage tank is produced;

A.1.3 Evidence of conformity as described in section 5 of this compulsory specification.

A.1.4 For hot water storage tanks without a product certificate:

On expiry of the approval (LOA), an application for an extension may be granted, provided that all the conditions of the previous approval were met. In this case, proof of compliance, with all the requirements of the relevant compulsory specification, issued less than 60 months before the date of submission to the NRCS, shall be required;

A.1.5 For hot water storage tanks with a product certificate:

On expiry of the approval (LOA), an application for an extension may be granted, provided that all the conditions of the previous approval were met. In this case, a valid (as determined by the conformity assessment body) product certification and conformity of production are required.

A.1.6 The markings to be applied to each type and model of hot water storage tank;

A.1.7 Information for users including instructions for use;

A.1.8 Information to the satisfaction of the NRCS regarding the measures taken by the applicant to ensure ongoing conformity with the mandatory requirements of this compulsory specification; and

A.1.9 Any reasonable additional information in order to clarify the above that may be requested by the NRCS.

A.2 APPROVAL

A.2.1 The NRCS shall assess the evidence of conformity supplied by the applicant and shall grant approval when the mandatory requirements have been met.

A.2.2 The NRCS shall assign a unique approval number to each approved type and model of hot water storage tank.

A.2.3 The NRCS shall issue a letter of authority certificate (LOA) for each successful application, to the applicant, when all the requirements have been met.

A.2.4 The approval granted with respect to hot water storage tanks pursuant to this compulsory specification may be withdrawn by the NRCS at any time, by giving written notice to the applicant, if the requirements have not been met or maintained.