Förhandsgranskning / Preview

General technical regulations for the manufacture and delivery of towers/storage tanks in fibreglass-reinforced plastic

Please refer to **SSG 0001E** – "Purpose, interpretation and application of the documents published by SSG". Text enclosed in square brackets ([…]) denotes references to Swedish regulations, encompassing any locally applicable amendments for the Swedish market only.

Scope

This standard sets out the minimum requirements during the design, manu-facture, installation, testing, inspection, marking and delivery of towers/storage tanks in reinforced plastic, which contain liquid or condensed gases that meet the requirements of the EU Directive PED 2014/68/EU. The standard also provides references to national regulations relating to such storage tanks.

The Pressure Equipment Directive – PED, was adopted by the European Parliament in May 2014. The Swedish Work Environment Authority imple-mented the EU Directive in Sweden on 19 July 2016 in accordance with the regulation [AFS 2023:5].

The National Board of Housing, Building and Planning regulates calculation requirements during the design and manufacture of all permanent storage tanks that are considered to be structures or part of a structure, and hence these requirements are covered by the Planning and Construction Act [*Plan och bygglagen* (2010:900), PBL]. All calculation and design requirements for storage tanks where the pressure above the surface of the liquid is less than or equal to 0.5 bar come under the National Board of Housing, Building and Planning's design and manufacturing regulations.

Specific requirements for storage tanks designed for flammable liquids can be found under [MSBFS 2018:3].

The Swedish Environmental Protection Agency's regulations [NFS 2021:9] are applicable to secondary protection in water conservation areas.

All usage and inspection requirements can be found in [AFS 2023:11 kap. 9] and [MSBFS 2018:3].

Planning permission is not required if the municipality has decided in the implementation plan or the district regulations that exemptions are to apply with regard to the planning permission requirements for storage tanks and other permanent facilities. The owner of the facility must ascertain the local criteria.

Where there are differences between the Swedish version and the English version of this standard, the Swedish version takes precedence unless otherwise stipulated.

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Changes since the previous edition

This edition differs from the previous one as follows:

- References to the relevant documents have been updated to the latest applicable editions. The information in the standard has been revised accordingly.
- The standard has been updated according to the current template for SSG standards.

Contents

1 **Related documents** 2
2 **Terminology** 2
3 **General** 3
4 **Materials** 3
5 **Construction** 3
5.1 Inner layer 4
5.2 Barrier layer 4
5.3 Load-bearing laminate 4
5.4 Outer layer 4
5.5 Fillers 4
5.6 UV protection 5
6 **Manufacture** 5
6.1 General 5
6.2 Jointing 6
6.3 Surface treatment 6
6.4 Insulation/Surface cladding 6
6.5 Material and manufacturing inspection 6
7 **Control** 7
8 **Delivery** 9
8.1 General 9
8.2 Delivery testing 9
8.3 Documentation 10
8.4 Receiving inspection 10
9 **Marking and suchlike** 10
10 **References** 11

Appendix 1: Cross/action list for pipeline procurement
Appendix 2: Shape/dimensional tolerances for towers/storage tanks in reinforced plastic

1 Related documents

The following publications are recommended for further studies in the subject:

SSG 7642E – *Design and manufacture of welded metal storage tanks.*

2 Terminology

Non-destructive testing – This includes, for example, spark testing, visual inspection, X-ray and ultrasound in this standard.

Manufacturer – Natural or legal person who manufactures or has designed or manufactured pressure equipment or an assembly and markets that pressure equipment or assembly, in his own name or trademark, or uses it or it for his own purposes ([AFS 2023:5]).

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