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BS EN 13121-3:2008 GRP tanks and vessels for use above ground. Design and workmanship

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Abbreviation

BS EN 13121-3:2008

Amendment

Amendment 1 (2010)

Valid from

01/01/2008

Information provider

Standards New Zealand

Author

British Standards Institution

Information type

British Standard

Format

PDF

Cited By

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Description

BS EN 13121-3 is a European Standard which gives requirements for the design, fabrication, inspection, testing and verification of glass reinforced plastic (GRP) tanks and vessels. It applies to GRP vessels with or without thermoplastics lining, for storage or processing of fluids, factory made or site built, non pressurised or pressurised up to 10 bar, for use above ground.

BS EN 13121 Part 3 covers those tanks with a working pressure up to 10 bar for above ground use only. The Standard was prepared under the European Commission Mandate 83/139/EEC the [Pressure Equipment Directive](#) (PED). In Europe this has been in force since May 2002 and all organizations in the European Union are obliged to comply with it.

The design and manufacture of GRP (glass-reinforced plastic) tanks and vessels involve a number of different [materials](#) in a lamina design. As a result there are many possible combinations of reinforcement type that will meet the structural requirement for the application of the tank. This allows the designer to select the laminate construction best suited to the available manufacturing facilities and hence be most cost effective

Scope

BS EN 13121-3 covers above ground vessels and tanks subject to temperatures between – 40 °C and + 120 °C.

The terms vessels and tanks as used in this part of EN 13121 include branches up to the point of connection to pipe work or other equipment by bolting and supports, brackets or other attachments bonded directly to the shell.

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- [BS EN 13121-2:2003](#)

BS EN 13121-3:2008 cites BS EN 13121-2:2003 GRP tanks and vessels for use above ground. Composite materials. Chemical resistance

- [BS EN 13121-4:2005](#)

BS EN 13121-3:2008 cites BS EN 13121-4:2005 GRP tanks and vessels for use above ground. - Part 4: Delivery, Installation And Maintenance

- [BS EN 13923:2005](#)

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- [BS EN 1993-1-1:2005](#)

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BS EN 13121-3:2008 cites BS EN 1993-1-2:2005 Eurocode 3: Design Of Steel Structures - Part 1-2: General Rules - Structural Fire Design

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- [BS EN 59:1977, BS 2782-10:Method 1001:1977](#)

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- [BS EN ISO 291:2005](#)

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- [BS EN ISO 527-4:1997](#)

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- [BS EN ISO 527-5:1997](#)

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- [BS EN ISO 75-2:2004](#)

BS EN 13121-3:2008 cites BS EN ISO 75-2:2004 Plastics - Determination Of Temperature Of Deflection Under Load - Part 2: Plastics and ebonite

- [BS EN ISO 7500-1:2004](#)

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- [BS EN ISO 899-1:2003](#)

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- [ISO 1172:1996](#)

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- [ISO 48:2007](#)

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- [ISO 4901:1985](#)

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- [ISO 9513:1999](#)

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