

SECTION 9 - PUBLIC SPA POOLS

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Public Spa Pools shall comply with design, construction and operation requirements of AS2610.1: 2007 except where they are otherwise required to comply with this Code, as itemized below:

9.1 APPLICATIONS (FOR CONSTRUCTION & FINAL APPROVAL)

9.1.1 All applications for construction of a spa must be made with a completed application form and contain the required covering letter, schematic, site and other plans with specifications as detailed on the application form cover sheet.

9.1.2 Covering letters must confirm compliance with each item within Section 9.

9.1.3 All applications for construction of and the final approval to use spas must be accompanied by written certifications from the spa supplier/ manufacturer/ installer confirming that the proposed spa will be and the finished spa has been assembled/installed using only compliant components and constructed so as to comply with the minimum design and construction requirements of AS2610.1: 2007 except where otherwise required by this Code of Practice.

9.1.4 Written certifications (where appropriate) are also required before final approval from the Electrician, Ventilation Designer/Installer and Gas Installer.

9.2 LOCATION: WHEN INSTALLED INDOORS

9.2.1 AS2610.1:2007 Section 2.1.3 -the room surfaces shall be of a moisture impervious finish. Code Section 2.15 - mechanical ventilation shall comply with minimum air change requirements.

9.3 MATERIALS

9.3.1 AS2610.1:2007 Section 2.2 - materials used to comply with

9.4 STRUCTURAL DESIGN

9.4.1 AS2610.1:2007 Section 2.3 - structural design and installation to comply with

9.5 DIMENSIONAL DESIGN

9.5.1 AS2610.1:2007 Section 2.4 - maximum floor depth from waterline 1.1m, maximum seat depth 0.6m & floor slope max 1:12.

9.5.2 AS2610.1:2007 Section 2.4.3 - handholds required if wall depth >0.6. & no coping edge within 0.3m of waterline.

9.5.3 Code Section 2.13.2 - no seats/benches to project >0.6m off wall.

9.6 ENTRY/EGRESS

9.6.1 Code Section 2.13.3 - if surface area >10m² must have steps, ladders or recessed steps per S2.5 of AS2610.1:2007

9.6.2 Code Section 2.13.3 - if < 10m² Section 2.5 of AS2610.1:1993 does not apply, but the entry must be clearly indicated by the presence of handrails per S2.19.2 of AS2610.1: 2007

9.7 SURFACE FINISHES

9.7.1 Code Section 2.5 - if surface area >10m² must have compliant color finish except when maximum depth < 0.8m & exclusively for adult use.

9.7.2 Code Section 2.5 - must have smooth, impervious, durable, easily cleanable & non-slip surface and without protrusions.

9.7.3 AS2610.1:2007 Section 2.19.3 - all parts that may be contacted by users are to be finished so as to not provide any physical injury or entanglement hazard.

9.8 CONCOURSE/WALKWAYS

9.8.1 AS2610.1:2007 Section 2.6 - walkway required for minimum 25% of spa perimeter & not be higher than top of spa or more than 0.6m below top of spa. Must have minimum of 0.6m width.

9.8.2 AS2610.1:2007 Section 2.6.3 - steps associated with walkways shall have compliant dimensions.

9.8.3 Code Section 2.17 - if walkway is above ground level then it must be fitted with balustrade, fence or other to prevent persons falling to lower levels.

9.8.4 Code Section 2.17 - walkways/concourses shall have compliant surfaces and be drained.

9.9 HEATING

9.9.1 Code Appendix 3 - all water heating appliances must comply with.

9.9.2 Code Appendix 3 - whole of the gas installation is to comply with the Gas Standards (Gasfitting and Consumer Gas Installations) Regulations 1999.

9.9.3 AS2610.1:2007 Section 2.7.2 - the temperature of spa water must be controlled by use of primary and secondary thermostats to ensure users can not be exposed to water higher than 38 °C & 45 °C respectively.

9.10 ELECTRICS/LIGHTING

9.10.1 AS2610.1:2007 Section 2.8.1 - all electrical equipment used in the installation shall comply with AS/NZS 3000 for installation and AS/NZS 60335.2.60 for equipment.

9.10.2 AS2610.1:2007 Section 2.8.2 - an emergency spa stop-switch *with audible or visual alarm must be fitted, so operators are notified when spa operation has ceased.*

9.10.3 Code Section 2.28 - all electrical works to comply with

9.10.4 Code Section 2.16 - minimum overhead lighting intensity or signage required.

9.10.5 AS2610.1:2007 Section 2.16.2 - air injection systems shall prevent any water backup that could cause electrical shock hazards.

9.11 WATER SUPPLY

9.11.1 Code Section 3.3.6 - all water must be filtered before entering the spa.

9.12 OUTLETS, INLETS & PIPING

9.12.1 AS2610.1:2007 Section 2.10 - shall comply with

9.12.2 AS2610.1:2007 Section 2.12c - where a skimmer box is used its design shall comply with AS1926.3

9.12.3 Code Section 3.2.6 - all suction outlet systems to comply with AS1926.3.

9.12.4 AS1926.3: Section 5.1 - each pump connected to minimum of 2 outlets, pipe diameter of all outlets connected to a common line are to be of equal diameter to the common line.

[Section 9.12.4 amended 7th July 2011]

9.12.5 AS2610.1:2007 Section 2.10.2 - pump suction points must be a minimum 600mm apart.

9.13 CIRCULATION, FILTRATION & CHEMICAL TREATMENT SYSTEMS

9.13.1 Code Sections 3.3, 3.4 & 3.5 - must comply with all requirements, including achieving water turnover time of <15min and incorporating an automatic chemical controller/disinfection system.

9.13.2 AS2610.1:2007 Section 2.11c - shall be designed to allow water to be drained from the spa, equipment and piping by removal of plugs, operation of drain valves or by other means.

9.13.3 AS2610.1:2007 Section 2.15 - if pumping/filter equipment lower than water level isolation valves required.

9.13.4 Code Section 5.4 - must have approved manual water test kit onsite at all times for daily water chemistry testing.

9.14 ACCESSIBILITY

9.14.1 Code Section 3.3.4 - equipment to be housed & protected from tampering by unauthorized persons, installed with sufficient access to be regularly inspected and serviced with plant room floors to be graded, non-absorbent and easily cleanable.

9.15 WASTEWATER DISPOSAL

9.15.1 AS 2610.1:2007 Section 2.18 - where filter backwash is required approval of the backwash disposal method is required from the regulating authority (eg. Local government or Water Corporation).

9.15.2 Code Section 3.34 - where cartridge filters are used a nominated onsite wash down point is required and such must be acceptable/approved of by the local government.

9.15.3 AS2610.1.2007 Section 2.18 - spas require a means for the disposal of 100% water contained within them & each week they are required to dump/dispose not less than 25% of their total water volume. Approval of the spa-dump disposal method is required from the regulating authority (e.g. Local Government if onsite or Water Corporation if to sewer).

9.16 SAFETY EQUIPMENT

9.16.1 Code Section 2.18 - isolation fencing required per Code & AS1926.1.

9.16.2 AS2610.1:2007 Section 2.19.1 - minimum of 2 depth markings required within 450mm of water edge.

9.16.3 AS2610.1:2007 Section 2.19.4 - spas to be provided with prominent signage notices including Spa Pool Safety Rules sign & Emergency Stop Switch sign.

9.16.4 Code Section 2.22-2.25 - required first aid location, equipment and signage.

9.17 OPERATING PROCEDURES

9.17.1 Code Section 7.8.1 - there is a requirement to establish an Aquatic Facility Operational Manual for the facility. Example given at Appendix 10 of Code.

9.17.2 Code - aquatic facilities (including spas) shall be operated in accordance with Sections 5, 6 & 7 of the Code. These sections detail the ongoing requirements and necessary qualifications for operation of a spa dependant on the facility Class/Grouping being either 1-4. However, in addition to those requirements of the Code, the following three additional requirements listed below also apply.

9.17.3 AS2610.1:2007 Appendix C (a) - spa equipment shall be kept operating at all times whenever a spa is open for use and shall commence operating a minimum of 1 hour before the first use and continue operating 2 hours after the last use.

9.17.4 AS2610.1:2007 Section 2.18.3 - each week dump/dispose not less than 25% of the total spa water volume; or more frequently if Total Dissolved Solids (TDS) concentration water rises 1500ppm greater than supply water or 3000ppm total.

9.17.5 Code Section 5.4 - Spas shall in addition to the prescribed aquatic facility daily testing frequency also include one additional daily test to occur before the spa is opened for use.

[Section 9 amended 16 May 2011]