

Structures

Master Specification

ST-SC-S1 Normal Class Concrete

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2	Formatting for publishing	19/09/19
3	Added recycled crushed glass as fine aggregate in accordance with ATS-3050-22	July 2022

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ST-SC-S1 Normal Class Concrete

1 General

- 1.1 This Part specifies the requirements for the supply and placement of normal class concrete N20, N25 and N32. Refer to ST-SC-S7 "Supply of Concrete" and ST-SC-C7 "Placement of Concrete" for other grades of normal class concrete and for special class concrete.
- 1.2 Any Reinforcing shall comply with ST-SC-S6 "Steel Reinforcement".
- 1.3 Documents referenced in this Part are listed below:
 - a) AS 1379 The Specification and Supply of Concrete
 - b) AS 3600 Concrete Structures
 - c) AS 9001 Quality management systems – Requirements
 - d) HB 64 Guide to Concrete Construction (joint publication of the Cement and Concrete Association of Australia and Standards Australia.
 - e) ATS-3050-22 Austroads Technical Specification: Supply of Recycled Crushed Glass Sand

2 Concrete Production

- 2.1 Concrete and its constituent materials shall be supplied and tested in accordance with AS 1379. The concrete plant shall operate under a quality system in accordance with AS 9001.
- 2.2 Unless specified otherwise:
 - a) the concrete shall be subject to production assessment in accordance with Clause 6.3 "Production Assessment" of AS 1379;
 - b) the maximum slump at the point of acceptance is 100 mm;
 - c) the maximum aggregate size is 20 mm; and
 - d) air entrainment is not required.
- 2.3 For each load of concrete supplied, the Contractor shall supply an identification certificate in accordance with Clause 1.7.3 "Identification Certificate" of AS 1379.
- 2.4 The Contractor shall ensure that production assessment reports are available in accordance with Clause 6.4.2 "Reports for Production Assessment" of AS 1379.
- 2.5 Recycled Crushed Glass may be used as a fine aggregate in concrete in accordance with ATS-3050-22.

3 Concrete Placement

- 3.1 Concrete shall be transported, handled, placed, compacted and cured in accordance with Section 17 "Material and Construction Requirements of AS 3600, using the recommended processes described in HB 64. Hand mixing is not permitted
- 3.2 Concrete at the acceptance point shall have a temperature not less than 5°C nor greater than 35°C (refer AS 1379, Clause 4.4.2). Concreting in the open shall not be carried out during adverse conditions, such as rain, wind, dust or bushfires.

4 Records

4.1 The Contractor shall supply the following records

Table ST-SC-S1 4-1 Records

Document Name	Document Ref
Concrete Delivery Information – Identification certificates in accordance with AS 1379, Clause 1.7.3 “Identification Certificate”	2 Concrete Production

5 Hold Points

5.1 There are no Hold Points referenced in this Part.
