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| --- |
| Use on projects when concrete for minor structures is required. Generally, concrete structures are considered minor when structural analysis is not required. Examples include headwalls, curb and gutter, sidewalks, waterways, or other 600 series pay items as referenced in their specification. Bridges, culverts, walls, and foundations are considered structural and are specified under Sections 552 or 553. |

## Section 601. — MINOR CONCRETE STRUCTURES

**601.07** **Acceptance.** Add the following:

The concrete mixture’s density, air content, slump, temperature, and compressive strength will be evaluated under Subsections 106.02 and 106.04.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 601-2**  **Sampling, Testing, and Acceptance Requirements** | | | | | | | | |
| **Material or**  **Product**  **(Subsection)** | **Type of**  **Acceptance**  **(Subsection)** | **Characteristic** | **Test Methods**  **Specifications** | **Sampling**  **Frequency** | **Point of**  **Sampling** | **Split**  **Sample** | **Reporting**  **Time** | **Remarks** |
| **Source** | | | | | | | | |
| Aggregate  (703.01  & 703.02) | Measured and  tested for  conformance  (106.04 & 105) | Quality | Subsection  703.01 &  703.02 | 1 per  material  type | Source of  material | Yes | Before  producing | **−** |
| **Mix Design** | | | | | | | | |
| Concrete  Composition  (601.03) | " | All | Subsection  601.03 | 1 per  mix  design | " | If  requested | " | **−** |
| **Production** | | | | | | | | |
| Concrete(1) | Measured and  tested for  conformance  (106.04) | Density | AASHTO  T 121 | 1 set per  30 yd3  (25 m3),  but not less  than 1 per  day | Discharge  stream at  point of  placing | No | Upon  completing  tests | − |
| Air content | AASHTO  T 152 or  AASHTO  T 196 | " | " | No | " | − |
| Slump | AASHTO  T 119 | " | " | No | " | − |
| Temperature | ASTM  C1064 | " | " | No | " | − |
| Compressive  strength(2)(3)  (28-day) | AASHTO  T 23 & T 22 | 1 set per  30 yd3  (25 m3),  but not less  than 1 per  day | Discharge  stream at  point of  placing | No | 28  days | Deliver  cylinders to  the CO or  designated  laboratory  for scheduled testing |
| (1) Sample according to AASHTO R 60, except composite samples are not required.  (2) Cast at least four compressive strength test cylinders for 6- by 12-inch (150- by 300‑millimeter) specimens or six compressive strength cylinders for 4‑ by 8-inch (100- by 200-millimeter) and carefully transport the cylinders to the job site curing facility.  (3) A single compressive strength test result is the average result from two 6- by 12-inch (150- by 300-millimeter) or three 4- by 8-inch (100‑ by 200-millimeter) cylinders cast from the same load.  (4) If the point of placement is different from the point of discharge, correlate the discharge tests with the placement tests to document the changes. | | | | | | | | |