

Summary of Key Changes to the 2023 Editions of TMS 404/504/604

In 2020, the Cast Stone Committee within The Masonry Society embarked on updating and revising the three standards that govern the design, fabrication, and installation of cast stone. These standards include:

- TMS 404, Standard for Design of Architectural Cast Stone
- TMS 504, Standard for Fabrication of Architectural Cast Stone
- TMS 604, Standard Specification for Installation of Architectural Cast Stone

Key updates and revisions incorporated by the Committee include:

- Updates for coordination with other reference standards including updates to reflect changes in ASTM standards and reference to the 2022 edition of ASCE/SEI 7.
- General cleanup and clarification of provisions and expanded commentary.
- Introduced new deflection limits of $l/600$ for cast stone subjected to out-of-plane loads.
- Removed limit of the historical drying shrinkage limit of 0.000325, replaced by a requirement that drying shrinkage be tested and reported.
- Minimum thickness requirement of 2 inches (50 mm) for all cast stone units.
- Permitting the use of glass fiber reinforced polymer bars meeting ASTM D7957/C7957M.
- Minimum qualifications for testing labs and inspection agencies are required to be defined.