

Evaluation of the Compressive Strength of Masonry by Prism Sampling

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Abstract:

Compliance with the specified compressive strength of masonry, f'_m , is achieved by the *unit strength method*, the *masonry prism test method*, or the *masonry prism test record method*. These methods provide assurance that the specified compressive strength of the masonry, f'_m , has been met. In certain instances, the masonry may fail to comply with these methods and an alternative means of assessing the compressive strength of constructed masonry may be required. The purpose of this research was to establish a correlation factor which relates the compressive strength of sampled masonry prisms to the compressive strength of quality control prisms constructed with the same masonry units, mortar and grout. With such a correlation factor, masonry prisms can be sampled from constructed masonry and test in compression to establish compliance with f'_m .

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