

Interface Shear Transfer Between Grout and AAC Masonry

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Abstract:

The AAC masonry design provisions of the 2008 edition of the Masonry Standards Joint Committee (MSJC) Code required that interface shear transfer between grout and AAC be checked against a relatively low nominal capacity of 37 psi (255 kPa), based on limited test results. This paper describes a testing program intended to verify and refine this nominal capacity, using pullout tests of grout cores in AAC masonry units. Based on the results of those tests, the 2008 MSJC Code value for nominal interface shear capacity between grout and AAC was shown to be unduly conservative, and increasing it to 50 psi (345 kPa) in a future edition of the MSJC Code is warranted. This paper presents the technical basis for that increase.

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