

Splice Provisions for Deformed Reinforcement Surrounded by Grout in AAC Masonry

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Abstract:

The AAC masonry design provisions of the 2008 edition of the Masonry Standards Joint Committee (MSJC) Code require that splices of deformed reinforcement be designed consistent with those in concrete or clay masonry. Deformed reinforcement is required to be surrounded by grout, and the tensile capacity of the AAC masonry is conservatively neglected. This paper describes a testing program intended to verify those MSJC equations, using tests of grouted splices in AAC masonry. Tested splice lengths were reduced to ensure that behavior would be governed by splice failure, and permitted placement tolerances for splices were considered. Based on the results of those tests, current MSJC splice provisions for deformed reinforcement surrounded by grout in AAC masonry are shown to be appropriate.

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