

1 **PROPOSAL 5-25R (2009)**

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4 **SCOPE: ASCE 7-05 Table 12.2-1**

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8 **PROPOSAL FOR CHANGE:**

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10 **Add to Table 12.2-1 of ASCE 7-05 the following:**

11 Add the following to Table 12.2-1 of ASCE 7-05 (Design Coefficients and Factors for Basic Seismic-Force-Resisting Systems)

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Seismic Force-Resisting System	ASCE 7 Section Where Detailing Requirements are Specified	Response Modification Coefficient, R^a	System Overstrength Factor, Ω_0^g	Deflection Amplification Factor, C_d^b	Structural System Limitations and Building Height (ft) Limit ^c				
					Seismic Design Category				
					B	C	D ^d	E ^d	F ^e
A. BEARING WALL SYSTEMS									
1. Ordinary Reinforced AAC Masonry Shear Walls	14.4.5.4	2	2 ½	2	NL	35	NP	NP	NP
2. Plain AAC Masonry Shear Walls	14.4.5.3	1 ½	2 ½	1 ½	NL	NP	NP	NP	NP

15 Note: New system coefficients are not underlined for clarity.

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17 These system response factors and limitations shall apply to bearing wall systems and building frame systems.

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20 Add the following to ASCE 7-05:

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2 14.4.5.3 Plain (unreinforced) AAC masonry shear walls shall satisfy the requirements of Section 1.14.2.2.6 of ACI530/ASCE 5/TMS 402.

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4 14.4.5.4 Ordinary reinforced AAC masonry shear walls shall satisfy the requirements of Section 1.14.2.2.8 of ACI530/ASCE 5/TMS 402.

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7 **Note:** Since this proposal is introducing a new system that is not presently in ASCE 7-05, it will have to be determined by the PUC if it will be included in
8 Part 1 of the 2009 NEHRP *Provisions* as an Exception/Add or to be included in Part 3 for new material requirements.

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10 **REASON FOR PROPOSAL:**

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12 Resistance-side provisions for AAC masonry, incorporated in Appendix A of the 2005 MSJC Code, have been discussed and supported by TS-5. The
13 general procedure used to propose the R and C_d factors in the above table has been discussed and generally supported by TS-5. Specific values of R and C_d
14 for AAC masonry were discussed by PUC and approved as a “straw man” proposal by them on August 28, 2006. The proposed values are based on
15 bearing wall systems, and are conservatively proposed for building frame systems as well. This Change Proposal is submitted by TS-5 to formally request
16 reaffirmation of those values by PUC and the BSSC process.

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20 **TS 5 VOTE:**

21 YES Yes with Reservations No Not Voting

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23 The Technical Subcommittee approved this proposal by a vote of 8 - 0 - 0 (no response from Chittenden)