

From: [DGS Website@DGS](mailto:DGS_Website@DGS)
To: CBSC@DGS
Subject: PUBLIC COMMENT on PROPOSED BUILDING STANDARDS - Gabriel J. Acero & Cairo Briceno - SEAOSC Seismology Chairs.
Date: Tuesday, November 16, 2021 7:36:40 PM

Commenter Contact Information

Name: Gabriel J. Acero & Cairo Briceno - SEAOSC Seismology Chairs.

Date: 11/16/2021 12:00:00 AM

Representing: SEAOC & SEAOSC SEISMOLOGY COMMITTEE Mailing Address Number and Street: 999 Town and Country Rd.

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Proposed Building Standard

Title 24 Part #: Part 2

Section #: 2105a.2

Proposing State Agency: OSHPD.

This comment is intended for review during: 15-Day Comment Period

Your recommendation based on the criteria of Health and Safety Code Section 18930(a):
Approve as Amended

In support of your recommendation above, provide the rationale based on the criteria of Health and Safety Code Section 18930(a). If you recommend anything other than approve, cite the criteria in your comment. If you oppose a proposed building standard, offer a solution or alternative for the state agency to consider.

Exception: Subject to the approval of the enforcement agency, ~~higher~~ Where higher values of $f'm$ greater than 2000 psi or any $f'm$ in Seismic Design Categories D, E or F (13.79 MPa) are ~~may be~~ used in the design of reinforced grouted multi-wythe masonry and reinforced hollow-unit masonry. The approval shall be they shall be based on prism test results in accordance with TMS 602 Article 1.4 B.3

JUSTIFICATION:

Numerical analysis using non-linear material and non linear geometry for Code based axial load ratios demonstrate a significant difference in the post yield response of walls with walls non-tested $f'm=1500$ psi (where the expected compression strength, $f'm_e$, may have not increased over time for non tested CMU prisms as observed in past rehabilitation projects with an $f'm_e=1500$ psi) versus the tested equivalent wall $f'm=1500$ psi with an expected compression strength of $f'm_e=2000$ psi. The response between the cases shows fast capacity drops for $f'm_e=1500$ psi higher than 20% at 1.5%

drift levels. More detailed information is available upon request at the SEAOC and SEAOSC Seismology Committee.

9 Point Criteria Info:

18930(a) 1