

California Education Code Section 17280.5

- (a) The Seismic Safety Commission shall convene an advisory committee that shall include, but not be limited to, the State Architect, the State Fire Marshall, representatives from the major professional associations representing architects, engineers, and school facilities designers, and other interested parties.
- (b) The advisory committee shall convene by August 19, 2002, and shall study and report on whether a regulatory process may be developed that will allow the State Architect to determine whether a building not originally constructed in compliance with the Field Act, as defined in Section 17281, and its implementing regulations either meets, or can be retrofitted to meet, the equivalent pupil safety performance standard as a building constructed according to the Field Act and its implementing regulations. If the advisory committee finds that the regulatory process may be developed, the advisory committee, shall include within its report the facts and rationale supporting the finding and the essential steps required in that regulatory process. The advisory committee shall report its findings to the Seismic Safety Commission by December 31, 2002.
- (c) By January 8, 2003, and after reviewing the advisory committee's findings, the Seismic Safety Commission shall make a determination as to whether the regulatory process described in subdivision (b) may be developed, and shall report that determination to the Governor and the Legislature.
- (d) If the Seismic Safety Commission determines that the regulatory process may be developed, the State Architect shall draft regulations to establish that regulatory process and to delineate the required retrofitting, deconstructive testing, continuous inspection procedures, and other necessary certifications and requirements that must be completed for a building to ensure it meets the equivalent pupil safety performance standard as a building constructed according to the Field Act and its implementing regulations. The State Architect shall promulgate the regulations on or before April 1, 2003, as emergency regulations in accordance with the rulemaking provisions of the Administrative Procedure Act (Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code).
- (e) Notwithstanding any law, a leased or purchased building that is determined to have the equivalent pupil safety performance standard as a building constructed according to the Field Act and implementing regulations is hereby deemed to be in full compliance with the safety requirements of a school building as set forth in Section 17280, and is hereby deemed to be in full compliance with the Field Act.

<http://codes.findlaw.com/ca/education-code/edc-sect-17280-5.html>

Field Act

From Wikipedia, the free encyclopedia

The **Field Act** was one of the first pieces of legislation that mandated earthquake resistant construction (specifically for schools in [California](#)) in the [United States](#). The Field Act had its genesis in the 6.3 magnitude [1933 Long Beach earthquake](#) which occurred on March 10 of that year and destroyed or rendered unsafe 230 school buildings in Southern California.^[1]

Many school buildings had completely collapsed due to unreinforced masonry construction and/or shoddy workmanship. Fortunately, the earthquake occurred at 5:55PM on a Friday, just a few hours after school had let out. Had the earthquake occurred while school was in session earlier that afternoon thousands of casualties, mainly children, would have likely occurred. Public awareness of this narrowly averted tragedy led to [passage of the Act within 30 days of the quake by the California State Legislature](#). The Act was named after California Assemblyman Charles Field, the key sponsor of the legislation. The act was based on the research done by [San Diego](#) architect [Louis John Gill](#), then president of the California State Board of Architectural Examiners, who traveled to the stricken area within hours of the quake and analyzed the structural failures which had caused buildings to collapse.^[2]

Provisions of the Act

The Field Act was introduced with other laws that banned the construction of unreinforced masonry buildings, and required that earthquake forces be taken into account in structural design (specifically, a new requirement for a base shear calculation, and that school buildings must be able to withstand lateral forces equal to at least 3% of the building total mass).^[3]

The Act also established the Office of the State Architect (now [Division of the State Architect](#) or DSA) which developed design standards, quality control procedures, and required that schools be designed by registered architects and engineers. These professionals must submit their plans and specifications to the State Architect for review and approval prior to construction. The same professionals were also required by the Act to periodically inspect the construction while underway and verify that the actual work completed is in compliance with the approved drawings. Peer review was also introduced as another quality control procedure.

The Garrison Act

In 1939 the Garrison Act applied Field Act Standards to existing school buildings. The first real world test of the Field Act took place in the [1940 Imperial Valley earthquake](#). This earthquake was magnitude 7.1 (larger than the Long Beach Earthquake) but the 16 post Field Act school buildings subjected to intense shaking suffered damage that was less than 1% of their valuation. Older pre Field Act structures in contrast suffered damaged equal to 29% of their valuation.

The Greene Acts

Although the benefits of the Field Act were clearly demonstrated by this event, many districts still delayed inspecting or renovating older pre-Field Act structures. As a result, the first and second Greene Acts (named for their author, State Senator [Leroy F. Greene](#)), were passed in 1967 and 1968 respectively to set inspection deadline for school districts. The [1971 San Fernando earthquake](#) spurred the State Legislature to provide additional funding to retrofit older buildings.

Current application

[As of 2010, the Field Act currently applies to the design, construction and renovation of all K–12 school buildings and community college buildings in California.](#) Although there have been attempts to make private schools comply with the provision of the Field Act, they are currently exempt. The DSA remains the primary enforcement body, and also provides limited review of university buildings, primarily for disabled access issues. [Since 1940, no building constructed under the Field Act has either partially or completely collapsed, and no students have been killed or injured in a Field Act compliant building.](#)

References

CSSC (February 2007), *The Field Act and Public School: Construction. A 2007 Perspective* (PDF), Publication #CSSC 2007:03, California Seismic Safety Commission

1. Kroll, C. Douglas (Summer 1984). "Louis John Gill". *Journal of San Diego History*. **30** (3).
2. CSSC (October 2009), *The Field Act and its relative effectiveness in reducing earthquake damage in California public schools appendices* (PDF), California Seismic Safety Commission

Sources

- Tobriner, Stephen (2006). *Bracing for Disaster: Earthquake Resistant Architecture and Engineering in San Francisco, 1838–1933*. Heyday Books. ISBN 978-1597140256.
- Assessing Seismic Safety Policy: Daniel Barclay: MURJ Volume 10, 2004

https://en.wikipedia.org/wiki/Field_Act

SEISMIC SAFETY INVENTORY OF CALIFORNIA PUBLIC SCHOOLS (A Report to the Governor of California and the California State Legislature) Prepared by the Department of General Services (November 15, 2002) page 5.

"Public school buildings in California are the safest in the nation. They exceed the seismic standards required for most other buildings and have proven to provide a level of protection that assures the safety of California's public school children. Since the passage of the Field Act in 1933, no school has collapsed due to a seismic event, and there has been no loss of life."

<https://www.documents.dgs.ca.gov/dsa/pubs/finalab300report.pdf>

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OF THE
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*The Division of Architecture declines to
give its approval for fire or panic safety.*

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Samuel E. Lunden
ARCHITECT

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