

BUILDING DATA

Calif. Polytechnic State University Building 045, Davidson Music Center.
See Also Building 044, Spanos Theater

Original Construction 1959.

Occupancy Type: B Occ., with A-3 Accessory (less than 10%) and F-1, non-separated, non-sprinklered

Construction Type: III-B [(E) Condition per current code]

Primary Structural Frame, no rating reqd.

2-hour Exterior bearing walls: (E) 8" thk. Concrete Complies

Interior bearing walls, no rating reqd. – (E) concrete br'g. walls comply

Interior Walls and Partitions may be of any material allowed by the Code (Sec. 603.2); Non-

Rated (Table 601) (E) wood Stud and metal stud Interior Non-Bearing Walls Comply

Floor Construction and secondary members- no reqmnt

Roof Construction and secondary members – no reqmnt.

Non Bearing Exterior Walls (Table 602)-

> 30' : No Requirement.

Occupancy Separations: 2 hr. separation to Spanos Theater; (2) concrete walls, 10" and 8" and rated openings per the original construction documents.

No. of Stories: 2 – OK per Table 503, 3 stories Allowed

(E) Building Height- 30', 55' allowed

Actual Building Area-

First Floor - 13,925 sq. ft

Second Floor - 22,740 sq. ft.

2nd Flr Mezz.- 1,190 sq. ft.

Total: 37,855 sq. ft.

Allowable Area Calculation

$A_a = [A_t + [A_t \times I_f] + [A_t \times I_s]]$ (Per 506.1)

$L_f = [F/P - 0.25] * W/30$ (Per 506.2)

$P = 559$ ft. (Total Perimeter)

$F = 364$

$W = 30$: greater than 30' separation.

$I_f = [F/P - 0.25] * W/30$

$$I_f = [364/559 - 0.25] * 1$$

$$I_f = .40$$

$$I_s = 0 \text{ (non sprkld)}$$

$$A_t = 19,000 \text{ sq. ft. (Per Table 503)}$$

$$A_a = \{19,000 + [19,000 \times .40] + [19,000 \times 0]\}$$

$$A_a = 19,000 + 7,600 = 26,600 \text{ sq. ft. per Floor}$$

First Floor - 13,925 sq. ft. < 26,600 sq. ft. Allowable, **OK**

Second - 23,930 sq. ft. < 26,600 sq. ft. Allowable, **OK**

Total Allowable Area- 53,200 sq. ft. (506.4.1, 2 stories)

Total (E) Area – 37,855 sq. ft. **OK**

DSA Info-

No DSA number.

Fire Sprinkler Info-

Rooms 206, 207, 208, 209, 210. Service Room 101.

Grinnel Corp. Ouraspeed Pendant Spray.

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