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

Aa = [At+[At x If] + [At x Is]]  (Per 506.1)
Lf = [F/P-0.25]*W/30  (Per 506.2)

P = 559 ft. (Total Perimeter)
F = 364
W = 30: greater than 30’ separation.
If = [F/P – 0.25]*W/30
If = \([364/559 - 0.25]*1\)

If = .40

Is = 0 (non sprkld)

At = 19,000 sq. ft. (Per Table 503)

Aa = \((19,000 + [19,000 \times .40] + [19,000 \times 0])\)

Aa = 19,000 + 7,600 = 26,600 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-**
Grinnel Corp. Ouraspeed Pendant Spray.

**SFM FILE #- 18-40-03-0001-019**