

BUILDING DATA

Calif. Polytechnic State University Building 070, Facilities.

Original Construction 1960.

Occupancy Type: B and F1 , non-sprinklered , separated occupancy (sprinklers at front portion of Carpentry Shop, F-1 occ.

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

Any materials permitted by Code.

Fire separation distance is greater than 30', NO LIMIT on exterior openings per table 705.8

Separations: 2-hr Fire Wall between occupancies: **NOTE- This Fire Wall Must be repaired as part of any new work on this building (after 2015)**

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

(E) Building Height-25', 55' allowed

Actual Building Area-

B Area -

1st Floor- 12,800 sq. ft

2nd Floor- 8,848 sq. ft.

Total Area- 21,648 sq. ft.

F-1 Area- 9,600 sq. ft.

Allowable Areas-

Allowable Area Calculation

B- 9000 sf (base allow)

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

$I_f = [F/P - 0.25] \times W/30$ (Per 506.2)

P = 480 ft. (Total Perimeter)

F = 400

W = 30: greater than 30' separation.

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

$I_f = [400/480 - 0.25] \times 1$

$I_f = .58$

Is = 0 (non sprkld)

At = 9,000 sq. ft. (Per Table 503)

Aa = {9,000 + [9,000 x .58] + [9,000 x 0]}

Aa = 9,000 + 5,280 = 14,280 sq. ft. per Floor

First Floor- 12,800 sq. ft. < 14,280 sq. ft. Allowable, **OK**

Second Floor- 8,848 sq. ft. < 14,280 sq. ft. Allowable, **OK**

Total Allowable Area- 28,440 sq. ft. (506.4.1, 2 stories)

Total (E) Area – 21,648 sq. ft. **OK**

Allowable Area Calculation

F1- 8,500 sf (base allow.)

Aa = [At+[At x If] + [At x Is]] (Per 506.1)

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

P = 400 ft. (Total Perimeter)

F = 320

W = 30: greater than 30' separation.

If = [F/P – 0.25]*W/30

If = [320/400 – 0.25]* 1

If = .55

Is = 0 (non sprkld)

At = 8,500 sq. ft. (Per Table 503)

Aa = {8,500 + [8,500 x .55] + [8,500 x 0]}

Aa = 8,500 + 4,675 = 13,175 sq. ft. per Floor

Total Allowable Area- 13,175 sq. ft. (506.4.1, 1 story)

Total (E) Area – 9,600 sq. ft. **OK**

NOTE: This Building was mislabeled as Type III-B Construction in a remodel in 2014-15.

DSA Info-

DSA Number 110610.

Parking space, path of travel, offices at Room 110, restrooms (Project not implemented)

DSA Number 01-114200

Parking Space, path of travel, ramp, second floor offices and restrooms.

Fire Sprinkler Info-

Carpenter Shop Only, Service Room 11E, *Viking Sprinkler System*

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