

BUILDING DATA

Calif. Polytechnic State University Building 053A, Science North Annex

Original Construction 1968, Addition 1977

Occupancy Type: B Occ. with A-3 (less than 10%), non-sprinklered

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

Any Materials allowed by code –Concrete, Concrete Block, Wood Framing

Fire separation distance is greater than 30' at North, South and West, NO LIMIT on exterior openings per table 705.8

East Wall- 12' to Science North; 15% openings allowed, UP, NS

Wall area- 165 sf per floor; 15% = 24.75 sf allowed. 24 sf of openings- **OK**

Occupancy Separations- none

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

(E) Building Height- 21', 40' allowed

Actual Building Area-

First Floor: 10,149 sq. ft.

Second Floor- 1,508 sq. ft.

Total: 11,657 sq. ft.

Allowable Area

Allowable Area Calculation

$Aa = [At + [At \times If] + [At \times Is]]$ (Per 506.1)

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

$P = 538$ ft. (Total Perimeter)

$F = 339$ (greater than 30')

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

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

$If = [339/538 - 0.25] \times 1$

$If = .38$

$Is = 0$ (non sprkld)

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

Aa = {9,000 + [9,000 x .38] + [9,000 x 0]}

Aa = 9,000 + 3,420 = 12,240 sq. ft. per Floor

Total (E) Area, First floor –10,149 sq. ft. **OK**

Total allowable area, building (x2, per 506.4.1.2)- 24,480sq. ft.- **OK**

DSA Info-

No DSA number.

Fire Sprinkler Info-

No fire sprinklers.

SFM FILE #-