

BUILDING DATA

Calif. Polytechnic State University Building 155, Meat Processing Center

Original Construction 2010.

Occupancy Type: B and F-1 Occ., non-separated, sprinklered

Construction Type: V-B

Any Materials allowed by code –Metal framed structure

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

Occupancy Separations: None

No. of Stories: 1 – OK per Table 503, 1 stories Allowed (F-1)

(E) Building Height- 25' abv. avg. grd. plane, 40' allowed

Actual Building Area-

First Floor, F-1 - 12,099 sq. ft

First Floor, B - 2,306 sq. ft

Total: 14,405 sq. ft.

Allowable Area

Allowable Area Calculation

B- 9,000 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 = 590 ft. (Total Perimeter)

F = 590

W = 30: greater than 30' separation.

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

$I_f = [590/590 - 0.25] \times 1$

$I_f = .75$

$I_s = 3$ (sprkld)

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

Aa = {9,000 + [9,000 x .75] + [9,000 x 3]}

Aa = 9,000 + 6,750 + 27,000 = 42,750 sq. ft. per Floor

First Floor, B- 2,306 sq. ft. < 42,750 sq. ft. Allowable, **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 = 590 ft. (Total Perimeter)

F = 590

W = 30: greater than 30' separation.

If = [F/P - 0.25]*W/30

If = [590/590 - 0.25]* 1

If = .75

Is = 0 (non sprkld)

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

Aa = {8,500 + [8,500 x .75] + [8,500 x 3]}

Aa = 8,500 + 6,375 + 25,500 = 40,375 sq. ft. per Floor

First Floor, F-1- 12,099 sq. ft. < 40,375 sq. ft. Allowable, **OK**

NOTE: This Building was mislabeled as Type III-B Construction on the original drawings.

DSA Info-

DSA Number 01-111135.

Entire Building

Fire Sprinkler Info-

Complete Building

SFM FILE #- 18-40-03-0001-200