

BUILDING DATA

Calif. Polytechnic State University Building 024, Food Processing and Campus Market.

Original Construction 1960

Food Processing Building is B Occ. and Type III-B construction

Campus Market is M Occ. and Type V-B construction.

The two areas are separated by an 8" concrete wall, which complies as a 2 hour fire barrier;

The double doors from Food Processing are not rated. A future project in the immediate vicinity should replace the doors with 1-1/2 hour rated assembly.

Food Processing-

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

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)- None

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

Fire separation distance at North West corner, 20' to 25'- 45% openings allowed- OK

No. of Stories: 1 – OK per Table 503, 2 stories Allowed

(E) Building Height- 15'

Actual Building Area-

First Floor: 25,921 sq. ft.

Allowable Area Calculation

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

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

P = 675 ft. (Total Perimeter)

F = 468 ft.

W = 30- greater than 30' separation.

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

$$I_f = [468/675 - 0.25] * 30/30$$

$$I_f = .44$$

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

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

$$A_a = \{19,000 + [19,000 \times .44] + [19,000 \times 0]\}$$

$$A_a = 19,000 + 8423 = 27,423 \text{ sq. ft. per Floor}$$

First Floor- 25,921 sq. ft.- **OK**

Campus Market-

Occupancy Type: M & F-1 Occ. non-sprinklered

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

Any Materials allowed by code –Wood framed roof structure

No. of Stories: 1 – OK per Table 503, 1 stories Allowed

(E) Building Height- 18'

Actual Building Area-

First Floor: 6,734 sq. ft.

Allowable Area (per Table 503)-

M- 9,000 sq. ft. **OK**

F-1- 8,500 sq. ft. **OK**

DSA Info-

No DSA number.

Fire Sprinkler Info-

No Sprinklers

SFM FILE #- 18-40-03-0001-039