

INTERNATIONAL BUILDING CODE 2009 SUMMARY

OCCUPANCY CLASSIFICATION:

BUSINESS, GROUP B (SEC 304.1)
WAREHOUSE STORAGE; GROUP S-1 (SEC 311.2)

OCCUPANT LOAD: (TBL 1004.1.1)

BUSINESS AREAS = 100 GROSS SQ.FT. / OCCUPANT
WAREHOUSE AREAS = 500 GROSS SQ. FT. / OCCUPANT

600 S.F. OFFICE = 6 OCCUPANTS

1,200 S.F. WAREHOUSE = 2.4 OCCUPANTS

1,800 S.F. GROSS BUILDING

TOTAL 8.4 OCCUPANTS

EXIT ACCESS REQUIREMENTS: (SEC 1015)

1 EXIT REQUIRED FOR < 49 OCCUPANTS IN BUSINESS OCCUPANCY (2 EXITS PROVIDED)

1 EXIT REQUIRED FOR < 29 OCCUPANTS IN STORAGE OCCUPANCY (1 EXIT PROVIDED)

EXIT TRAVEL DISTANCE REQUIREMENTS: (SEC 1016)

BUSINESS EXIT ACCESS TRAVEL DISTANCE = 200' UNSPRINKLED

WAREHOUSE EXIT ACCESS TRAVEL DISTANCE = 200' UNSPRINKLED

ALLOWABLE HEIGHT AND BLDG. AREA: (TBL 503)

B=23,000 SQ.FT. / 3 STORY ALLOWED, THIS PROJECT 1 STORY / 1,800 SQ.FT.

CONSTRUCTION CLASSIFICATION: (SEC 602.2)

TYPE II B

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS: (TBL 601)

STRUCTURAL FRAME = 0 HRS.

BEARING WALLS (INTERIOR AND EXTERIOR) = 0 HRS.

NON-BEARING WALLS = 0 HRS.

FLOOR CONSTRUCTION = 0 HRS.

ROOF CONSTRUCTION = 0 HRS.

FIRE ALARM SYSTEM REQUIREMENTS: (SEC 907)

THIS BLDG. DOES NOT REQUIRE A FIRE ALARM SYSTEM

FIRE PROTECTION SYSTEM REQUIREMENTS: (SEC 903)

THIS BLDG. DOES NOT REQUIRE A FIRE PROTECTION SYSTEM IN ACCORDANCE WITH SEC 903.2.8

CONSTRUCTION DOCUMENTS: (SEC 1603)

THIS BLDG. SHALL BE DESIGNED IN ACCORDANCE WITH IBC SECTION 1609 AS A FULLY ENCLOSED

BLDG. USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA:

DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.4

BASIC WIND SPEED (3 SECOND GUSTS) = 115 MPH (FIG 1609)

IMPORTANCE FACTOR: CATEGORY II BLDG., IE = 1.00, IS = 1.0, IW = 1.00 (TBL 1604.5)

EXPOSURE B

DESIGN WIND PRESSURE (ASCE 7-05 FIG. 6-2): 33.6 PSF

INTERNAL PRESSURE COEFFICIENT (ASCE 7-05 FIG. 6-5): ± 0.18

LIVE LOADS: (SEC 1607)

LOBBIES AND 1st FLR. CORRIDOR (TBL. 1607.1): 100 PSF

OFFICE (TBL. 1607.1): 50 PSF

ROOF LIVE LOAD (TBL. 1607.1) = 20 PSF UNIFORM, 300 LB. CONCENTRATED

GROUND SNOW LOAD (FIG. 1608.2) = 5 PSF

NATIONAL FIRE PROTECTION ASSOCIATION 2009 SUMMARY

BUILDING AREA:

TOTAL BUILDING AREA = 3,900 SQ.FT.

OCCUPANCY CLASSIFICATION:

BUSINESS, GROUP B

WAREHOUSE STORAGE, LOW HAZARD

OCCUPANT LOAD: (TBL 7.3.1.2)

BUSINESS = 100 GROSS SQ.FT. / OCCUPANT = 600/100 = 6.00 OCCUPANTS

STORAGE = 500 GROSS SQ.FT./ OCCUPANT = 1200/500 = 2.4 OCCUPANTS

TOTAL 27 OCCUPANTS

SPRINKLER SYSTEM: (SEC 38.2.5)

THIS BUILDING SHALL NOT BE REQUIRED TO HAVE AN AUTOMATIC SPRINKLER SYSTEM AT THIS TIME.

FIRE ALARM SYSTEM: (SEC 38.3.4.1)

A FIRE ALARM SYSTEM IS NOT REQUIRED.

EXIT ACCESS:

1 EXITS REQUIRED (SEC 38.2.4.3)

2 EXITS PROVIDED

ALLOWABLE EXIT ACCESS TRAVEL DISTANCE = 200' (SEC 38.2.6.2)

LONGEST EGRESS PATH IN AREA OF WORK = 50'

DETAILED BUILDING REQUIREMENTS

(MAIN WIND FORCE RESISTING COMPONENTS)

- THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND STRUCTURES SHALL BE IN ACCORDANCE WITH EITHER THE AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC-LRFD), AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN (AISC-ASD) OR AISC SPECIFICATION FOR THE DESIGN OF STEEL HOLLOW STRUCTURAL SECTIONS (AISC-HSS). WIND LOAD DESIGN OF 130 MPH.

- ROOF COVERING HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN IBC SECTION 1507

- 7/16" THICK STRUCTURAL WOOD PANELS AND ATTACHMENT HARDWARE SHALL BE PROVIDED FOR BUILDING OCCUPANCY THE PANELS SHALL BE NUMBERED FOR EACH GLAZED OPENING AND SHALL BE STORED ON SITE PERMANENTLY (IBC 1609.1.4, EXCEPTION)

CONTRACTOR NOTE:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-FORCE-RESISTING COMPONENT OF THIS BUILDING SHALL SUBMIT A WRITTEN CONTRACTORS STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF THE WORK ON THAT COMPONENT. (IBC 1706.3)