

DESIGN LOADS:

- 1. BUILDING LOADS:
A. DEAD LOADS: (NON-BALLASTED ROOF)
- ROOF DEAD LOAD: 20 PSF
- FLOOR DEAD LOAD: (W/ LW TOPPING) 18 PSF
- PARTITION LOAD IN OFFICE AREAS: 15 PSF
B. LIVE LOADS: (UNIFORM LIVE LOAD CASES)
- ROOF LIVE LOAD: 20 PSF
- OFFICE LIVE LOAD: 50 PSF
- MECHANICAL WELL: 60 PSF
- IN ADDITION TO THE ROOF LIVE LOAD SHOWN
- CORRIDOR LOAD: 80 PSF
- SLAB ON GRADE LIVE LOAD: 100 PSF
- REDUCED AS ALLOWED BY THE BUILDING CODE
- INCLUDES LOBBY LIVE LOAD
C. LIVE LOADS: (CONCENTRATED LOAD CASES)
- CONCENTRATED LOADS ARE ASSUMED TO BE DISTRIBUTED OVER 30"x30" AREAS
- OFFICES 2000 LB
- CORRIDORS 2000 LB
- LOBBIES 2000 LB
D. SNOW LOADS:
- GROUND SNOW LOAD (pg): 5 PSF
- ROOF SNOW LOAD (prf): 8.5 PSF
- SNOW IMPORTANCE FACTOR (Is): 1.0
- SNOW THERMAL FACTOR (st): 1.0
- SNOW EXPOSURE FACTOR (ce): 0.9
E. WIND LOAD:
- ULTIMATE WIND SPEED: Vult = 115 MPH
- NOMINAL WIND SPEED: Vnsd = 90 MPH
- IMPORTANCE FACTOR: I = 1.0
- RISK CATEGORY: II
- INTERNAL PRESSURE COEFFICIENT: 0.18
- WIND EXPOSURE CATEGORY: B
F. EARTHQUAKE:
- SEISMIC IMPORTANCE FACTOR: I = 1.0
- MAPPED SPECTRAL RESPONSE ACCELERATIONS
- S1 = 0.192
- S2 = 0.086
- SITE CLASS IS ASSUMED TO BE "D"
- SPECTRAL RESPONSE COEFFICIENTS
- Sa = 0.205
- Sd = 0.137
- SEISMIC FORCE RESISTING SYSTEMS
- LIGHT FRAMED WOOD WALLS WITH WOOD PANELS
- SEISMIC RESPONSE COEFFICIENT: C = 0.04
- DESIGN BASE SHEAR
3.2 KIPS ULTIMATE
- RESPONSE MODIFICATION FACTOR: R = 6.5
- SEISMIC DESIGN CATEGORY: C
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE (IBC 1617.1, ASCE 7-05 SECTION 9.5.5)

WIND LOAD TABLE
MFWRS C&C
WALL 10 PSF (+IP) +/- 20 PSF (10 SF)
11 PSF (-IP) +/- 16 PSF (500+ SF)
ROOF -16.4 PSF (+IP) -22.7 PSF (500+ SF)
-11.9 PSF (-IP) -27.2 PSF (250+ SF)

NOTE: ALL ENGINEERED ASSEMBLIES NOT DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE DESIGNED FOR THE COMPONENTS AND CLADDING LOADS ABOVE (16 PSF, MIN.) OR AS DIRECTED ELSEWHERE IN THE PLANS. THESE DESIGNS SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER IN GEORGIA.

- G. LOAD SIGNAGE:
- THE FLOOR DESIGN LIVE LOAD FOR EACH ELEVATED FLOOR STRUCTURE OR PORTION THEREOF THAT EXCEEDS 50 POUNDS PER SQUARE FOOT (PSF) SHALL BE STATED ON DURABLE SIGNED AND CONSPICUOUSLY POSTED BY THE OWNER IN THE APPLICABLE AREA(S) OF THE BUILDING.

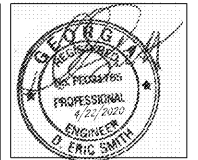
LAP SPLICE SCHEDULE CLASS B SPLICE
MASONRY & 3000 PSI CONCRETE 4000 PSI CONCRETE
REBAR #3 1'-10" 1'-7"
#4 2'-5" 2'-1"
#5 3'-0" 2'-7"
#6 3'-7" 3'-1"
#7 5'-3" 4'-6"
#8 6'-0" 5'-2"

CONCRETE MIX DESIGN SCHEDULE
MIX LOCATION CLASS WEIGHT (PCF) MIN. 28 DAY COMPRESSIVE STRENGTH (PSI) SLUMP (INCHES) PERCENT AIR FLY ASH OR SLAG PERMITTED
SHALLOW FTGS A 145 3000 3-5 0-3 YES
INTERIOR SOG B 145 3000 3-5 0-3 YES

Table 2304.9.1: Fastening Schedule

Table with 3 columns: CONNECTION, FASTENING (a, m), LOCATION. Contains detailed fastening requirements for various construction elements like joists, girders, beams, and walls.

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Revision table with columns: #, Rev. Date, Printing Designation.

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