## MINIMUM PLAN REVIEW FOR COMMERCIAL BUILDINGS

(More information may be required)

### ELECTRICAL

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<td>Threshold Building</td>
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- 1. Electrical
  - Wiring
  - Services
  - Feeders and branch circuits
  - Overcurrent protection
  - Grounding
  - Wiring methods and materials
  - GFCIs

- 2. Equipment

- 3. Special occupancies

- 4. Emergency systems

- 5. Communication systems

- 6. Low-voltage

- 7. Load calculations
# MINIMUM REVIEW CRITERIA FOR COMMERCIAL BUILDINGS

(More information may be required)

## MECHANICAL

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<td>1. Energy calculations</td>
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| 2. Exhaust systems  
  Clothes dryer  
  Kitchen equipment exhaust  
  Specialty exhaust system | | |
| 3. Equipment | | |
| 4. Equipment location | | |
| 5. Make-up air | | |
| 6. Roof-mounted equipment | | |
| 7. Duct systems | | |
| 8. Ventilation | | |
| 9. Combustion air | | |
| 10. Chimneys, fireplaces and vents | | |
| 11. Appliances | | |
| 12. Boilers | | |
| 13. Refrigeration | | |
| 14. Bathroom ventilation | | |
| 15. Laboratory | | |
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- Threshold Building

- 1. Site requirements
  - Parking
    - Fire Access
    - Vehicle loading
    - Driving/turning radius
  - Fire hydrant/water supply/post indicator valve (PIV)
  - Set back/separation (assumed property lines)
  - Location of specific tanks, water lines and sewer lines

- 2. Occupancy group and special occupancy requirements shall be determined.

- 3. Minimum type of construction shall be determined (table 500)

- 4. Fire resistant construction requirements shall include the following components:
  - Fire resistant separations
  - Fire resistant protection for type of construction
  - Protection of openings and penetrations of rated walls
  - Fire blocking and draft-stopping
  - Calculated fire resistance

- 5. Fire suppression systems shall include:
  - Early warning
  - Smoke evacuation systems schematic
  - Fire sprinklers
  - Standpipes
    - Pre-engineered systems
    - Riser diagram

- 6. Life safety systems shall be determined and shall include the following requirements:
  - Occupant load and egress capacities
  - Early warning
  - Smoke control
  - Stair pressurization
  - Systems schematic
7. Occupancy load/Egress requirements shall include:
   - Occupancy load
     - Gross
     - Net
   - Means of egress
     - Exit access
     - Exit
     - Exit discharge
   - Stairs construction/geometry and protection
   - Doors
   - Emergency lighting and exit signs
   - Specific occupancy requirements
     - Construction requirements
   - Horizontal exits/exit passageways

8. Structural requirements shall include:
   - Soil conditions/analysis
   - Termite protection
   - Design loads
   - Wind requirements
   - Building envelope
   - Structural calculations (if required)
   - Foundations
   - Wall systems
   - Floor systems
   - Roof systems
   - Threshold inspection plan
   - Stair systems

9. Materials shall be reviewed and shall at a minimum include the following:
   - Wood
   - Steel
   - Aluminum
   - Concrete
   - Plastic
   - Glass
   - Masonry
   - Gypsum board and plaster
   - Insulating (mechanical)
   - Roofing
   - Insulation
10. Accessibility requirements shall include the following:
   Site requirements
   Accessible route
   Vertical accessibility
   Toilet and bathing facilities
   Drinking fountains
   Equipment
   Special occupancy requirements
   Fair housing requirements

11. Interior requirements shall include the following:
   Interior finishes (flame spread/smoke develop)
   Light and ventilation
   Sanitation

12. Special systems
   Elevators
   Escalators
   Lifts

13. Swimming pools
   Barrier requirements
   Spas
   Wading pools
MINIMUM REVIEW CRITERIA FOR COMMERCIAL BUILDINGS

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PLUMBING

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- 1. Minimum plumbing facilities
- 2. Fixture requirements
- 3. Water supply piping (type)
- 4. Sanitary drainage (type)
- 5. Water heaters (size)
- 6. Vents
- 7. Roof drainage
- 8. Back flow prevention – RESIDENTIAL (type)
- 10. Irrigation
- 11. Rain gauges are required on automatic systems
- 12. Location of water supply lines
- 13. Grease traps (size, if required)
- 14. Environmental requirements
- 15. Plumbing riser
- 16. Location of sewer/tap
- 17. Location of water meter