

GFY® Standards for Plotting Z-Chill™ Fans

- 1) Retain a dwg or high quality pdf of customer building where fans are to be installed.
- 2) Designate the area of the building as too which the fans will be needed
- 3) Gather building dimension and information:
 - a. Ceiling heights
 - b. Ceiling type
 - i. Truss/I-Beam
 - ii. Wood/Concrete Beam
 1. requires structural engineer approval
 - c. Area square footage
 - d. List any ceiling obstructions
 - e. Locate any roof exhaust fans
 - f. Locate any heaters
 - g. Locate lighting grid
 - h. Locate sprinkler locations if possible

Z-Chill™ Plotting Standards

- 1) Clearance from solid roof surface
 - a. 16'-24' Fan Diameter - All Z-Chill™ fans must have a minimum of 5ft above the fan blades to a solid surface.
- 2) Minimum blade height:
 - a. GFY recommends the blade height from the floor never be smaller than the fan's nominal diameter
 - i. Never allow blade height to be less than 10'
- 3) Typical mounting distance between Fans
 - a. 24' Fan @ 160'
 - b. 22' Fan @ 155'
 - c. 20' Fan @ 150'
 - d. 18' Fan @ 145'
 - e. 16' Fan @ 140'
- 4) Maintain a minimum 2' clearance from tip of blade from any obstruction
- 5) Maintain a minimum 2' clearance from the tip of the blade on a sloped roof
- 6) Maintain a minimum 2' below truss with any fan diameter
- 7) Maintain a minimum of 1 fan diameter away from any heat source or exhaust fan
- 8) Should center fans between sprinkler heads and maintain 2' clearance from tip of blade
- 9) Lights should be spaced 2' or greater away from the tip of the fan blade to prevent shadowing and strobe effect
- 10) Please review specification sheets for Motor Mount dimension and down tube specifications