

### **GFY® Standards for Plotting Z-Tech™ 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 for each fan location:
  - a. Ceiling height
  - b. Ceiling type: Truss/I-Beam, Z-Purlin, Wood/Concrete Beam
  - 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-Tech™ Plotting Standards**

- 1) Clearance from solid roof surface
  - a. 16'-24' Fan Diameter - 5'
  - b. 8'-14' Fan Diameter - 4'
- 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'
  - f. 14' Fan @ 125'
  - g. 12' Fan @ 120'
  - h. 10' Fan @ 105'
  - i. 8' Fan @ 90'
- 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 20ft from the blade tip to 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