Fiberoptics Technology Inc. Starscape Star Ceiling Series
Specification for:
Star Ceiling Pre-Populated Acoustic Panels

PART 1 GENERAL

1.1 SYSTEM DESCRIPTION:

A. Aesthetic Requirements: Panels shall be aesthetically pleasing in appearance with specified star light points and colored fabric finish (selection). Edges of panels will be square and uniform per specified dimensions for easy interconnectivity. Custom design and color changes shall be accommodated as per the detail.

B. Performance requirements:
1. Class A fire rating.
2. Panels shall be compressed fiberglass with .8 NRC rating
3. Colored fabric, chosen from the manufacturer's standard color list template, shall cover all visible areas of panel material, as well as square edge sides, and overlapping onto the back portion.
4. Power supplies used to power panels will be UL rated, and no more than 9V
5. Component materials shall be alterable in the field to accommodate changes to detail. – Panels should be able to be cut to allow for projector mounts, can lighting etc.

6. Mounting systems will be provided by manufacturer

C. Definitions:
1. System will be a series of panels no larger than 5' x 10', created to cover the area specified in the detail.

1.2 QUALITY ASSURANCE

A. Installer Qualifications: A qualified General Contractor or Electrician whose work has resulted in a record of successful in-service performance.

B. Manufacturer Qualifications: An ISO certified manufacturer operating under an audited Quality Management System with primary experience in fiber optic systems manufacturing.

C. Source Limitations: Obtain quantity, dimensional design, color code of fabric and any other specified requests from manufacturer.

D. Product Options: Drawings indicate dimensional requirements and color of panels, and are based on the system indicated in the detail.

1.3 REFERENCES

A. Pre-Populated Acoustic Panels
1. Class A Fire Rating
2. .8 NRC classification Rating

B. Power Supply:
1. UL Standard Low Voltage Rating

1.4 SUBMITTALS

A. Product Data: Include physical characteristics such as dimensions, color, star density requested, and any accessories requested.

B. Shop Drawings: Show installation details, and any cut sheets available.

C. Maintenance Data: Include standard maintenance manual, or installation and handling manual for this product.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inspect panels and other components on delivery for carrier damage. Store panels in original undamaged packaging in an area sheltered from weather until ready for installation. Inspect panels and other components prior to installation.

1.6 WARRANTY

A. Pre-populated acoustic panels, and all other components shall carry a one year manufacturer's limited warranty against defects in materials and workmanship. The one year warranty period begins on the date the product is shipped from the manufacturer.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Fiberoptics Technology Inc. 1 Quassett Rd. Pomfret, CT, USA 06258. Ph: 860-928-0443, Fax: 860-928-7664. Contact: Zach Morin Email: zmorin@fiberoptix.com

2.2 MATERIALS

A. Panels

1. Panels will be a 1" or 2" thick compressed fiberglass base with .8 NRC rating and Class A fire rating.

B. Fabric

1. Fabric will be Guilford of Maine, or other Guilford type fabrics
2. Color as selected by architect from manufacturer's full range of standard colors.
3. Application of fabric done by manufacturer after panel is formed per the spec.

C. Hardware

1. Mounting hardware will be Rotofast Snap-On Mounting Anchors supplied with finished panels.
2. Please see http://www.rotofast.com for mount details and installations.

D. LED Boxes

1. Embedded LED light source boxes will consist of (1) 3.5V 5mm LED.
2. LED box housings will consist of a molded plastic enclosure that will be accessible by 2 small Phillips head screws.
3. A small silicone fastener will be used inside the box to couple the fiber optic bundle to the LED box.

E. Fiber Optic Bundles

1. Fiber optic bundle will consist of PMMA plastic end emitting fiber optic strands.
2. The number of strands designated will be determined by the architect or client
3. The fiber optic strands will be bonded together in a small brass eyelet and ground and polished for maximum light output and performance.

F. Options

1. Fabric finish color option per manufacturer's standard color list
2. Star Density: number of star points per square foot as specified in the detail
3. Shooting Star Effect Add On: 40 additional fibers, and similar LED light source (UL rated low voltage 9V) for shooting star effect.
4. Twinkle Effect Add On: 80 additional fibers, and similar LED light source (UL rated low voltage 9V) for twinkle effect.
5. Custom fabric colors: Per the specification

2.3 Pre-Populated Acoustic Star Ceiling Panels:

A. The panels shall be a part of the Starscape model line, Quantity of _____ units (insert quantity of Pre-populated Acoustic Star Ceiling panels) at _____ dimension (as specified by Architect and confirmed by manufacturer).

1. Manufacturer part numbers will vary, and could be created anew due to the custom nature of each project and build.

PART 3 B EXECUTION

3.1 INSTALLATION

A. Site requirements.

1. Installation of panels shall be on existing drywall, joists or other medium to local building code requirements.
2. Larger panels over 4' x 4' should be handled by 2 or more persons to insure a safe installation.
3. Heed all installation instructions and tips in installation manual required by submittals.

B. Handle and install panels in accordance with manufacturer's recommendations and installation instructions.

C. Ensure that panels, when mounted, are secure in position and securely fixed.