GORDON WinLok® ACCESSIBLE BEAM BAFFLE CASSETTE CEILING SYSTEM

Section 09 54 00

PART 1 – GENERAL

1.01 SECTION INCLUDES:

A. This section includes WinLok® Accessible Beam Baffle Cassette Ceiling System as shown on the Drawings.

1.02 RELATED DOCUMENTS/SECTIONS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions.
B. Division 1 Specification sections apply to work of this Section.
C. Finish Schedule or Finish Legend apply to work of this Section.

1.03 REFERENCES:

A. GENERAL
    1. Comply with applicable requirements of the following, except where more stringent requirements are indicated by building codes.
B. ASTM (American Society for Testing and Materials)
    1. ASTM C635, Standard Specifications for Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
    2. ASTM C636, Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-In Panels.
    3. ASTM E84, Standard test Method for Surface Burning Characteristics of Building Materials.
C. CISCA Ceiling Systems Installation Handbook.

1.04 DESIGN/PERFORMANCE REQUIREMENTS:

A. All components of the Gordon WinLok® Accessible Beam Baffle Cassette Ceiling System shall be provided by one (1) Manufacturer to ensure single source responsibility and quality control.
B. All products furnished shall have a flame spread classification of 0-25 for a Class A rating in accordance with ASTM-E84.

1.05 SUBMITTALS:

A. Submission must be made within ten (10) working days of the General Contract Award to avoid project delay.
B. Product Data: Submit Manufacturer's technical data and brochures for each type of specified system required.
C. Shop Drawings shall show dimensions, sizes, thickness, alloys, finishes, joining, attachments, and relationship of adjoining work.

D. Samples:
    1. Submit three (3) samples consisting of 6'' (minimum) pieces of each type of component and finish as specified, including perimeter molding and accessories.
E. Certification:
    1. Submit certificates from Manufacturer of WinLok® Accessible Beam Baffle Cassette Ceiling System attesting that product complies with specified requirements, including finish, as specified.
F. Qualification Data:
    1. Firms specified in "Quality Assurance" Article must demonstrate their capabilities and experience by including lists of completed projects with project names and addresses, names and addresses of Architects and owners, and other information specified.

1.06 QUALITY ASSURANCE:

A. Manufacturer: Firm with manufacturing and delivery capacity required for the project, shall have successfully completed at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.
B. Fabricator must own and operate its own manufacturing facilities for all metal components. "Stick Built" or "Kit of Parts Systems" consisting of components from a variety of Manufacturers will not be considered or accepted.
C. Manufacturer/Fabricator must own and operate its own painting and finishing facility to assure single source responsibility and quality control.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING:

A. All materials shall be protected during fabrication, shipment, site storage, and erection to prevent damage to the finished work from other trades. Store accessories inside a well-ventilated area, away from uncured concrete and masonry, and protected from the weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

1.08 SEQUENCING:

A. Substitute Products: Alternate proposals for substitute products will not be accepted unless approval is issued in addenda.
B. Contract Execution: Submittals shall be completed and approved prior to award of subcontract for system components.
C. Manufacturer's Production Schedule: Sub-contract for the work of this section shall be planned to allow sufficient time for Manufacturer's production and delivery scheduling.

1.09 WARRANTY:

A. Furnish Manufacturer's:
    1. Warranty that materials furnished will perform as specified for a period of not less than one (1) year from date of material shipment when installed in accordance with Manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

A. Acceptable System: WinLok® Accessible Beam Baffle Cassette Ceiling System shall be manufactured by Gordon, Inc. For all inquiries contact, Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (800) 747-8954.

B. The listed Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications at least ten (10) working days prior to submission of bids. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least three (3) projects similar in detail and scope.

2.02 PRODUCT CONSTRUCTION:

A. System Description:
   1. The WinLok® Accessible Beam Baffle Cassette Ceiling System shall be provided in factory assembled Cassettes up to 48” x 96”. The Brake Formed Beam Baffles that are factory attached to the assembled Cassette to be “____” wide x “____” tall and spaced “____” O.C. manufactured by Gordon, Inc. All members shall be of standard 3003-H14 aluminum alloy with a “_____” finish.
   2. Standard Brake Formed Beam Baffle Profile Sizes:
      a. Beam Baffle Widths:
         i. 1” up to 4” (manufactured in ½” increments)
         ii. 4” up to 12” (manufactured in 1” increments)
      b. Beam Baffle Heights:
         i. 4” to 20” high for 1 ½” to 4” wide beams
         ii. 4” to 5” high for 1” wide beams
         iii. 4” to 5” high for 5” to 12” wide beams
   3. Suspension System shall be extruded aluminum WinLok® Tees with continuous screw slot, manufactured by Gordon, Inc. All members shall be of standard 6063-T6 aluminum alloy with all surfaces painted standard black.
   4. Factory Assembled Brake Formed Baffle Cassettes are installed to the Suspension System using WinLok® Clips.
   5. Brake Formed Beam Baffles may be provided with or without perforation depending on Acoustical Requirements of the system.

B. Materials:
   1. WinLok® Accessible Beam Baffle Cassette Ceiling System
      a. WinLok® Accessible Beam Baffle Cassette Ceiling System as manufactured by Gordon, Inc. shall consist of brake formed aluminum beam components. The Brake Formed Beam Baffles are factory assembled to WinLok® Angle connectors to form a Cassette. Cassettes are installed to an aluminum Suspension System above that include WinLok® Main Tees having continuous screw slot and Stabilizers. All necessary Clips and Splices required for a complete System are supplied.

b. Brake Formed Beam Baffles shall be 3003-H14 aluminum alloy. Extruded aluminum Suspension Tees shall be 6063-T6 alloys (ASTM B221, ASTM B 221 M).
c. General: Provide metals free from surface blemishes, where exposed to view in finished unit. Surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations, or other imperfection on finished units are not acceptable. All metal shall be of the highest-grade commercial type.

2. WinLok® Access Tools are provided for removal of point accessible Cassettes.

2.03 FINISHES:

A. Factory finishing is to be supplied to match custom color and gloss specifications or standard colors as required. Factory finish is a 5-stage pretreatment with dried-in-place conversion coating followed by an AAMA 2604 compliant powder coating. Alternate finishes shall be chosen from the Manufacturer's standard paint finish selection (Custom Colors or other types of paint are available) including:
   1. Powder Coating – AAMA 2605 compliant
   2. Precoated Coil Paint Finishes
   3. Wood-Look Films (Series 1 only)
   4. Wood-Look Paints
   5. Proclaim™ Expressive Laminate Imagery

2.04 FABRICATION:

A. WinLok® Accessible Beam Baffle Cassette Ceiling Systems are provided to the specified Cassette size. Standard Cassette size is 30" X 96'' but can be provided to specified sizes.
B. All intersections between Main Tees and Stabilizers shall be square cut.
C. Perimeter shall be fabricated to match the System described herein.
D. All Suspension Components, including accessories, are available to meet codes such as seismic and loads from light fixtures and air diffusers.

PART 3 - EXECUTION

3.01 EXAMINATION:

A. Examine building structure scheduled to receive WinLok® Accessible Beam Baffle Cassette Ceiling System for unevenness or irregularities that would affect quality and execution of work.

3.02 PREPARATION:

A. Prepare surfaces using the methods recommended by the Manufacturer to achieving the best result for the project conditions.

3.03 INSTALLATION:

A. General: Comply with Manufacturer's printed instructions, governing regulations for Seismic Codes, and the Ceiling & Interior Systems Construction Association Standards applicable to work.

3.04 CLEANING:

A. Follow Manufacturer's cleaning instructions for specified finish.

3.05 PROTECTION:

A. Protection of WinLok® Accessible Beam Baffle Cassette Ceiling System from damage by other trades after installation to be provided by the General Contractor.

END OF SECTION