

MIDWESTERN WOOD PRODUCTS CO.

ARCHITECTURAL SPECIFICATIONS

WoodGrid® Suspended Coffered Ceiling System

PART 1 General

1.1 SCOPE

A. Midwestern Wood Products shall furnish all WoodGrid suspension system, drop-in coffers and specified matching trims.

1.2 RELATED WORK NOT INCLUDED UNDER THIS SECTION

A. Suspension systems and components for ceilings other than manufacturer's WoodGrid Suspended Coffered Ceiling Systems shall not be included.

1.3 PROJECT CONDITIONS

- A. Installation shall be done only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. The heating and cooling systems shall be operating before, during and after installation, with the humidity of the interior spaces maintained between 30% and 50%, temperature between 60 to 90 degrees F.
- B. There shall be no excessive buildup of heat in the ceiling areas.
- C. Prior to start of installation, all exterior windows and doors are to be in place, glazed and weather-stripped. The roof is to be watertight, and all wet trades' work is to be completed and thoroughly dry.
- D. Mechanical, electrical and other utility service installations above the ceiling plane shall have been completed. No materials should rest against, or wrap around, the ceiling suspension components or connection hangers.

1.4 COORDINATION OF WORK

A. The layout and installation of the WoodGrid Ceiling System components shall be coordinated with other work penetrating the ceiling. This includes light fixtures, HVAC equipment, and fire suppression system components.

1.5 SUBMITTALS

- A. Midwestern Wood Products shall provide technical product specifications and installation guidelines for all ceiling materials supplied.
- B. Shop Drawings: For every project, Midwestern shall provide ceiling layouts showing placement of mainrunners and coffers and all other details pertinent to proper installation.
- C. Samples shall be available upon request.

1.6 DELIVERY/STORAGE/HANDLING

- A. Prior to installation, materials for a WOODGRID Coffered Ceiling should not be stored in damp areas or freshly plastered buildings. Wood materials should be stored on a flat, level surface in a dry, well-ventilated building. Cover to keep clean but allow circulation. Relative humidity should not be less than 30% or greater than 50%. WoodGrid materials should not be subject to abnormal heat, extreme dryness, humid conditions or sudden changes therein.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall be a carpenter or ceiling installer with wood trim experience. No special certification is required. The installer shall be acceptable to the architect, manufacturer and owner's representative.
- B. Fire Performance Characteristics: When specified as "Fire Resistant", WoodGrid Coffered Ceiling materials can be finished with a fire-retardant coating on the backside only. The fire marshal or building inspector must determine if this treatment is acceptable to meet fire resistant requirements.
- C. Seismic Requirements: In areas requiring Seismic Design Criteria "D", all loose coffers shall be suspended as are mainrunners, subject to approval of building inspector.

1.8 WARRANTY

- A. All materials supplied by the ceiling manufacturer shall be guaranteed against manufacturing defects for one (1) year for repair or replacement, excluding installation. Natural variations in color or texture of wood are not to be considered as defects. Wood stains and colorings can vary with age depending on differing site conditions, and shall be excluded from this warranty.

PART 2 PRODUCT

2.1 WoodGrid® COFFERS

- A. The WoodGrid coffers shall be manufactured by Midwestern Wood Products Co., Morton, Illinois, Ph: 309-266-9771, woodgrid@aol.com. The WoodGrid® coffers will be made with solid wood crown frames and ¼" wood veneer (veneer cut/veneer match) plywood. Dimension tolerances shall be ± 1/8".

2.2 SUSPENSION SYSTEM

- A. The WoodGrid® suspended grid system shall be custom designed to fit the customer's specific needs. Typically the 3" wide grid will lay out 32" on center to accept 30" x 30" Deep Coffers. (30" on center for 28" x 28" Medium Coffers)
- B. The hardware to suspend the mainrunners is supplied by the manufacturer and includes suspension brackets (and screws) to attach to the back of the mainrunners, lag screws for attaching to wood joists, and 18 gauge wires. Typical weight for a coffered ceiling is 2.5 lbs. per square foot.

2.3 PERIMETER TRIM

- A. The standard perimeter treatment consists of wall angle, cove band and custom fit coffers.

2.4 FINISHES AND COLORS

- A. All WoodGrid components shall be factory finished with a custom, cabinet-grade stain and conversion varnish finish as selected by the customer or architect. A color sample will be supplied for customer approval. Specialty finishes are available. The finish is applied only to the face unless specified. A fire-retardant finish is available applied only to the backside of all materials.

PART 3 EXECUTION

3.1 PREPARATION

- A. Ceiling Layout: The contractor shall measure the ceiling area and submit dimensions to Midwestern Wood Products who will provide a recommended layout based on all information provided. Customer must sign off on layout.
- B. The contractor shall furnish concrete inserts, steel deck, hanger clips, or similar devices for installation if required in addition to hanging hardware supplied by the manufacturer. The contractor shall coordinate with other trades the location of devices, which will penetrate the coffers or gridwork or interfere with the installation. Recessed or surface devices, such as can lights, located within the ceiling panels are to be located and cut in the field. Certain cuts can be supplied by the manufacturer.

3.2 INSTALLATION

- A. General: The contractor shall install materials to comply with applicable regulations and industry standards.
- B. Perimeter: Using a laser leveling device, the contractor shall lay out and install the wall angle as specified.
- C. Suspension: The mainrunners shall be suspended every 32" or less and leveled according to the approved layout. The cross tees shall be inserted as determined by same layout. Nail per standard installation guide.
- D. Perimeter Cross Tees: The perimeter grid, or cove band, shall be fit according to the layout. Grid shall be nailed according to the standard installation guide.
- E. Coffers: The WoodGrid Coffers shall be inserted up into the gridwork and laid on the channel edge of the mainrunners, cross tees and cove band. There shall be approximately 1/8" clearance on each side of the coffer.

3.3 ADJUSTMENT, CLEANING AND REPAIR

- A. The contractor shall make final adjustments to ensure the grid is level.
- B. Upon completion of installation, all components shall be cleaned free of dirt, dust, grease, oils and fingerprints. A damp cloth is best for this.
- C. It is recommended that suspension hardware be checked every 5 years to be sure that all connections are secure.