

Addendum

No. FOUR Date: 8.21.19

Project:

**A NEW BASEBALL AND SOFTBALL COMPLEX FOR
RUSSELL COUNTY HIGH SCHOOL FOR THE
RUSSELL COUNTY BOARD OF EDUCATION
SEALE, ALABAMA**

**MCKEE PROJECT NO. 19.102
ALABAMA BUILDING COMMISSION NO. 2019313**

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A4.1 GENERAL MODIFICATIONS:

- A. None

A4.2 SPECIFICATION MODIFICATIONS:

- A. Refer to specification **Section 08330, Coiling Doors (Revised 8.21.19)**, herein.
- B. Refer to specification **Section 07200, Insulation (Revised 8.21.19)**, herein.

A4.3 DRAWING MODIFICATIONS:

- A. None

B4.1 CLARIFICATIONS

- A. None

END OF ADDENDUM

SECTION 07200 – INSULATION (Revised 8.21.19)

PART 1 – GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections shall apply to work of this section.

DESCRIPTION OF WORK:

Extent of insulation work is shown on drawings and indicated by provisions of this section.

Applications of insulation specified in this section include the following:

1. Blanket type building above new ceiling or blown insulation in attic area - Contractors Option.
2. Cavity Wall Insulation.
3. Foam Insulation at CMU Cells
4. Metal Building Roof and Wall Insulation

SUBMITTALS

Product Data: Submit manufacturer's product specifications and installation instructions for each type of insulation and vapor barrier material required.

PRODUCT HANDLING;

General Protection: Protect insulations from physical damage and from becoming wet, soiled, or covered with ice or snow. Comply with manufacturer's recommendations for handling, storage and protection during installation.

PART 2 – PRODUCTS

BATT INSULATION

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. Certain-Teed Products Corp.; Valley Forge, PA
2. Manville Bldg. Materials Corp.; Denver, CO.
3. Owens-Corning Fiberglass Corp.; Toledo, OH.

Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid

opening.

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INSULATION
07200-1

(Revised 8.21.19)

1. Mineral/Glass Fiber Blanket/Batt Insulation (M/GFB-Ins): Inorganic (nonasbestos) fibers formed into resilient flexible blankets or semi-rigid batts; FS HH-1-521. Manufacturer's standard lengths and widths as required to coordinate with spaces to be insulated.

- a. **Above Ceilings**: Thickness: **R-Factor: 30 minimum** as follows:

Contractors Option:

- i. Provide un-faced batts at exposed wood framed roof areas between the trusses at the bottom cord or joists that will receive interior coverings at the bottom of the system (ie: sheetrock, plywood, concrete, etc.)
or
- ii. Granulated Loose fill insulation conforming to Federal Spec. Hh-1-1030, Type I, Class B, in attic area above the air barrier. Labeling shall include the data above as well as the recommended installation density.
 - 1) Provide and install Insulation Baffles equal to Owens Corning Raft-R-Mate Attic Rafter Vents with Air Stop/Insulation Block. Extruded Polystyrene; Air Channel Depth, 1.5"; Net Free Air Flow, 22.3 sq.in.; Dimension to fit between rafters. Install per manufacturers instructions.

CAVITY WALL INSULATION

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

- a. Styrofoam SM/SB; Dow Chemical USA.
- b. Foamular 250; UC Industries.
- c. Certifoam, Minnesota Diversified Products, Inc.

Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

1. Extruded Polystyrene Board Insulation:
Rigid cellular polystyrene thermal insulation with closed cells and integral high density skin, formed by the exposition of polystyrene base resin in an extrusion process to comply with ASTM C 578, Type IV; 5-year aged
 - a. **R-value of 5.0 Btu/ (hr x sf x degree F) at 75 degree F in manufacturer's standard lengths and widths**
 - b. **1" thick, unless otherwise indicated.**
 - c. **Install at the cavity space.**
2. Adhesive:
Type recommended by insulation board manufacturer for application indicated.

CMU FILLED CELL WALL INSULATION:

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Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

- a. Core-Fill 500, as manufactured by Tailored Chemical Products, Inc., Hickory, NC. Phone: (800) 627-1687: www.core-fill500.com.
- b. R501, as manufactured by PolyMaster, Inc.", Knoxville, TN. Phone: (800) 580-3626.
- c. Core Foam Masonry Foam Insulaton by cfiFOAM, Inc., Knoxville, TN. Phone: (800) 656-3626.

Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

Filling **masonry cells** with foam insulation from exterior face of Building as follows:

1. **Foam Insulation** at exterior concrete block wall **cells**: Filling **cells** of concrete masonry with amino-plast foam insulation. Holes for filling cells of masonry shall be drilled at horizontal masonry joint on the exterior side of exposed masonry walls and re-grouted. Installed insulation shall have a **R-6.69 minimum** value.
2. **Reference Standards**:
 - a. ASTM C 177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2004.
 - b. ASTM C518 - 01 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus; 2001.
 - c. ASTM D 1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics; 2004a.
 - d. ASTM D 1622 - Standard Test Method for Apparent Density of Rigid Cellular Plastics; 2008.
 - e. ASTM D 2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics; 2006.
 - f. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2008.
 - g. ASTM E 96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2005.
 - h. NFPA 259 - Standard Test Method for Potential Heat of Building Materials
3. **Materials**:
 - a. **Insulation**: Aminoplast foam for injection application.
 - i. **Thermal Resistivity**: **R/inch equal to R-4.4/inch @ 75 degrees F** mean when tested per either ASTM C-177 or ASTM C518.
 - ii. **Water Vapor Transmission**: Average ≤ 15 perms when tested per ASTM E 96/E96M.
 - iii. **Potential Heat**: ≤ 7700 Btu/lb. when tested per NFPA 259.
 - iv. **Cured Density**: ≤ 1.0 lb/ft³ (dry) when tested per ASTM D 1622.
 - v. **Surface Burning Characteristics**: Class A - Flame Spread ≤ 25 , Smoke Developed ≤ 450 per ASTM E 84.

NOTE: Both Cavity Wall Insulation and CMU Filled Cell Wall Insulation is required at all exterior CMU walls.

METAL BUILDING ROOF AND WALL INSULATION

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. Thermal Design, Inc., Simple Saver System, Madison, NE

Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

References:

1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM E 96 - Standard Test Method for Water Vapor Transmission of Materials in Sheet Form (Procedure B).
3. ASTM C 665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
4. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
5. UL 723 - Tests for Surface Burning Characteristics of Building Materials.
6. ASTM C 1136 - Standard Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation.

Design Requirements:

1. Insulating system shall have a continuous vapor barrier inside of building purlins, girts, and insulation to provide complete isolation from inside conditioned air.

Materials:

1. Simple Saver System consists of Batt Insulation, Roof Insulation, Wall Insulation, Vapor Barrier Liner Fabric, Thermal Breaks, Straps, and other devices and components in a insulation system as follows:
 - a. Batt Insulation: ASTM C 991 Type 1; preformed formaldehyde-free glass fiber batt conforming to the following:
 - i. Equal to purlin/girt spacing by manufacturer's standard lengths.
 - ii. Unfaced.
2. Roof Insulation:
 - a. Formaldehyde-free fiberglass batt or fiberglass blanket complying with ASTM C 991 Type 1 and ASTM E 84 with a thermal resistance and thickness as follows:
 - i. **Semi-Heated Area: Total Installed Minimum R-16, U Factor 0.060**
3. Wall Insulation:
 - a. Formaldehyde-free fiberglass blanket or batt complying with ASTM C 991 Type 1, ASTM E 136 and ASTM E 84 with a thermal resistance and thickness as follows:

i. Semi Heated Area: Total Installed Minimum R-13, U Factor 0.071

Vapor Barrier Liner Fabric:

- a. Syseal® type woven, reinforced, high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene coatings, as follows:
 - i. Product complies with ASTM C 1136, Types I through Type VI.
 - ii. Perm rating: 0.02 for fabric and for seams in accordance with ASTM E 96.
 - iii. Flame/Smoke Properties: 1) 25/50 in accordance with ASTM E 84. 2) Self-extinguishes with field test using matches or butane lighter.
 - iv. Ultra violet radiation inhibitor to minimum UVMAX® rating of 8.
 - v. Size and seaming: Manufactured in large custom pieces by extrusion welding from roll goods and fabricated to substantially fit defined building area with minimum practicable job site sealing.
 - vi. Provide with factory double, extrusion welded seams. Stapled seams or heat-melted seams are not acceptable due to degradation of fabric.
 - vii. Factory-folded to allow for rapid installation.
 - viii. Color: As selected from manufactures standards

4. Vapor Barrier Lap Sealant:

- a. Solvent-based, Simple Saver polyethylene fabric adhesive.

5. Vapor Barrier Tape:

- a. Double-sided sealant tape 3/4 inch (19 mm) wide by 1/32 inch (.79 mm) thick.

6. Vapor Barrier Patch Tape:

- a. Single-sided, adhesive backed sealant tape 3 inches (76 mm) wide made from same material as Syseal® type liner fabric.

7. Thermal Breaks:

- a. 1/8 inch (3 mm) thick by 3 inch (76 mm) wide white, closed-cell polyethylene
- b. foam with pre-applied adhesive film and peel-off backing.
- c. Polystyrene Snap-R snap-on thermal blocks.

8. Straps:

- a. 100 KSI minimum yield tempered, high-tensile-strength steel.
- b. Size: Not less than 0.020 inch (0.50 mm) thick by 1 inch (25 mm) by continuous length.
- c. Galvanized, primed, and painted to match specified finish color on the exposed side.
- d. Color: As selected from manufactures standards

9. Primed and painted to match specified finish color on the exposed side.

10. High-tensile-strength stainless steel.

11. Woven polyester plastic. As selected from manufactures standards

12. Fasteners:

- a. For light gage steel: #12 by 3/4 (19 mm) inch plated Tek 2 type screws with sealing washer, painted to match specified color.
- b. For heavy gage steel: #12 by 1-1/2 inch (38 mm) plated Tek 4 type screws with sealing washer, painted to match specified color.
- c. For wood, concrete, other materials: As recommended by manufacturer.

13. Wall Insulation Hangers:

- a. Fast-R preformed rigid hangers, 32 inch (813 mm) long galvanized steel strips with barbed arrows every 8 inches (203 mm) along its length.

14. Installation:

- a. Install pre-engineered building insulation system in accordance with manufacturer's installation instructions and the approved shop drawings.
- b. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- c. Install in exterior spaces without gaps or voids. Do not compress insulation.
- d. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- e. Fit insulation tight in spaces and tight to exterior side of the sealed liner fabric and around mechanical and electrical services within plane of insulation.

15. Roof Insulation Installation:

- a. Straps:
 - i. Cut straps to length and install in the pattern and spacings indicated on shop drawings.
 - ii. Tension straps to required value.
- b. Vapor Barrier Fabric:
 - i. Install vapor barrier fabric in large one-piece custom fabricated pieces to substantially fit defined building areas with minimum practicable job site sealing.
 - ii. Position pre-folded fabric on the strap platform along one eave purlin.
 - iii. Clamp the two bottom corners at the eave and also centered on the bay.
 - iv. Pull the other end of the pleat-folded fabric across the building width on the strap platform, pausing only at the ridge to fasten the straps and fabric in position where plane of roof changes and to release temporary fasteners on the opposite ridge purlins.
 - v. Once positioned, install fasteners from the bottom side at each strap/purlins intersection.
 - vi. Trim edges and seal along the rafters.
 - vii. All seams must be completely sealed and stapled seams not acceptable.
- c. Insulation:
 - i. Unpack, and shake to a thickness exceeding the specified thickness.
 - ii. Ensure that cavities are filled completely with insulation.
 - iii. Place on the vapor barrier liner fabric without voids or gaps.
 - iv. Place top layer of insulation over and perpendicular to the purlins without voids or gaps, as roof sheathing is applied.
 - v. Place thermal block on top of purlins or bottom of purlins for retrofit work, if no other thermal break exists.
 - vi. Place new insulation between purlins at the required thickness for the R-value specified.

- d. Seal vapor barrier fabric to the wall fabric and elsewhere as required to provide a continuous vapor barrier.

16. Wall Insulation Installation:

- a. Insulation:
 - i. Install thermal break to exterior surface of girts as wall sheathing is applied.
 - ii. Install self-sticking foam thermal break to interior surface of girts prior to installation of insulation.
 - iii. Position and secure Fast-R hangers to girts on the inside face of the wall sheathing.
 - iv. Cut insulation to required lengths to fit vertically between girts.
 - v. Fluff the insulation to the full-specified thickness.
 - vi. Neatly position in place and secure to Fast-R hangers.
 - vii. Ensure that cavities are filled completely with insulation.

17. Vapor Barrier Fabric:

- a. Install vapor barrier fabric in large one-piece custom fabricated pieces to substantially fit defined building areas with minimum practicable job site sealing.
- b. Apply the vapor barrier fabric by clamping it in position over eave strap and installing fasteners through the eave strap into each roof strap, permanently clamping the wall fabric between them.
- c. Once in position, draw the vapor barrier fabric down over the column flanges to the base angle and install vertical straps along each column and 5 feet 0 inches on center, maximum, fastening to each girt to retain system permanently in place.
- d. All seams must be completely sealed and stapled seams not acceptable.

- 18. Seal wall fabric to the roof fabric, to the base angle and up the columns to provide a continuous vapor barrier.

PART 3 – EXECUTION

INSPECTION AND PREPARATION:

Installer must examine substrates and conditions under which insulation work is to be performed and must notify Contractor in writing of unsatisfactory conditions. Do not proceed with insulation work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

Clean substrates of substances harmful to insulations or vapor barriers, including removal of projections which might puncture vapor barriers.

Close off openings in cavities to receive poured-in-place and insulation, sufficiently to prevent escape of insulation. Provide bronze or stainless steel screen (inside) where openings must be maintained for drainage or ventilation.

INSTALLATION:

General:

Comply with manufacturer's instructions for particular conditions of installation in each case. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with work.

Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement.

PROTECTION:

General: Protect installed insulation and vapor barriers from harmful weather exposures and from possible physical abuses, where possible by non-delayed installation of concealing work or, where that is not possible, by temporary covering or enclosure. Installer shall advise Contractor of exposure hazards, including possible sources of deterioration and fire hazards.

END OF SECTION

SECTION 08330 - COILING DOORS (Revised 8.21.19)

GENERAL

1.1 SECTION INCLUDES

- A. Insulated Coiling Overhead Doors.
- B. Insulated Coiling Counter Doors.

1.2 RELATED SECTIONS

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 08700 - Door Hardware: Product Requirements for cylinder core and keys.

1.3 REFERENCES

- A. ANSI/DASMA 108 - American National Standards Institute Standard Method For Testing Sectional Garage Doors And Rolling Doors: Determination Of Structural Performance Under Uniform Static Air Pressure Difference.
- B. NFRC 102 - Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
- C. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Element.
- D. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- E. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- F. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- G. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- H. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Overhead coiling service doors:
 - 1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components in conformance with ASTM E 330.

2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- B. Overhead coiling insulated doors:
1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components in conformance with ASTM E 330.
 2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- C. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01600.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Details of construction and fabrication.
 4. Installation instructions.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.6 QUALITY ASSURANCE

- A. Furnish each coiling door as a complete unit produced by one manufacturer, including hardware, accessories, mounting and installation components
- B. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

- C. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.
- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.
 - 4. E. Anchorages: Furnish all anchoring devices and provide setting drawings, templates, instructions and directions for installation of anchoring devices. Coordinate delivery with other work to avoid delay.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 COORDINATION

- A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

1.10 WARRANTY

- A. Warranty: Manufacturer's limited door and operator system, except the counterbalance spring and finish, to be free from defects in materials and workmanship for 3 years or 20,000 cycles, whichever occurs first.
- B. Warranty: Manufacturer's limited door system warranty for 2 years for all parts and components.
- C. PowderGuard Finish
 - 1. PowderGuard Max: Applied to curtain, guides, bottom bar, headplates: Manufacturer's limited Max Finish warranty for 5 years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.
- B. Raynor; 1101 East River Road, Dixon, IL 61021-0448; www.raynor.com; PH: 815.285.7144.
- C. Cookson; 1901 South Litchfield Road, Goodyear, AZ 85338; www.cooksondoor.com; PH: 800.294.4358
- D. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 INSULATED COILING OVERHEAD DOORS

- A. Overhead Coiling Stormtite Insulated Service Doors: Overhead Door Corporation Model 625.
 - 1. **Door 124C**
 - 2. **Door 201**
 - 3. **Door 202**
 - 4. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
 - a. Flat profile type F-265i for doors up to 40 feet (12.19 m) wide.
 - b. Front slat fabricated of:
 - 1) 24 gauge galvanized steel.
 - c. Back slat fabricated of:
 - 1) 24 gauge galvanized steel.
 - d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.
 - 1) R-Value: 7.7, U-Value: 0.13.
 - 2) Sound Rating: STC-21.
 - 5. Performance:
 - a. Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with HZ noise generator) as per ASTM E 90.
 - b. Installed System Sound Rating: STC-21 as per ASTM E 90.
 - c. U-factor: 0.91 NFRC test report, maximum U-factor of no higher than 1.00.

- d. Air Infiltration: Meets ASHRAE 90.1 & IECC 2012/2015 C402.4.3 Air leakage <1.00 cfm/ft².
6. Slats and Hood Finish:
- a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.
 - 1) Powder Coat:
 - (a) PowderGuard Max powder coat, color as selected by Architect.
 - 2) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
7. Weatherseals:
- a. Vinyl bottom seal, exterior guide and internal hood seals.
 - b. Interior guide weatherseal.
 - c. Lintel weatherseal.
 - d. Air Infiltration Package, IECC 2012/2015 listed; product to meet C402.4.3 2012 Air leakage <1.00 cfm/ft².
 - 1) Air infiltration perimeter seal package includes: guide cover, guide cap, dual brush exterior guide seal, 4 inch finned lintel brush seal and vinyl bottom seal.
8. Bottom Bar:
- a. Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
9. Guides: Three structural steel angles.
10. Brackets:
- a. Galvanized steel to support counterbalance, curtain and hood.
11. Finish; Bottom Bar, Guides, Headplate and Brackets:
- a. Finish: PowderGuard Max powder color as selected by the Architect.
12. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
13. Hood: Provide with internal hood baffle weatherseal.
- a. 24 gauge galvanized steel with intermediate supports as required.

14. Manual Operation:
 - a. Chain hoist.
15. Windload Design:
 - a. Standard windload shall be 20 PSF.
16. Locking:
 - a. Chain keeper locks for chain hoist operation.
 - b. Cylinder lock.
17. Wall Mounting Condition:
 - a. As indicated on drawings.

2.3 INSULATED COILING COUNTER DOORS WITH INTEGRAL FRAME

- A. Stainless Steel Counter Doors with Integral Frame: Overhead Door Corporation, 657 Series.
 1. **Door No. A101A – This door is to be insulated.** U-factor: 0.91minimum.
 2. **Door No. A101B – This door is to be insulated.** U-factor: 0.91minimum.
 3. Curtain: Interlocking roll-formed stainless steel slats with a #4 finish and with endlock for curtain alignment. Slats, 22 gauge stainless steel with stainless steel tubular bottom bar with neoprene astragal.
 4. Integral Frame and Sill: Integral stainless steel frame with a #4 finish and a stainless steel sill. Frame consists of 16 gauge jambs and header, with 14 gauge sill.
 5. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch (0.8 mm) per foot of span. Counterbalance shall be adjustable by means of an adjusting tension wheel.
 6. Hood: Stainless steel with a #4 finish and provided with intermediate support brackets as required.
 7. Operation:
 - a. Manual push up.
 8. Locking:
 - a. Cylinder lock.
 9. Wall Mounting Condition:
 - a. As indicated on Drawings.

PART 3 EXECUTION

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RUSSELL COUNTY BOARD OF EDUCATION
SEALE, ALABAMA

COILING DOORS
008330-6

Revised 8.21.19

3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.
- H. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.4 ADJUSTING

- A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION