

WEST NAVARRE INTERMEDIATE SCHOOL
5 CLASSROOM ADDITION

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. LOUVER FACE DIFFUSERS.
2. LOUVER FACE GRILLES.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, INCLUDE THE FOLLOWING:

1. DATA SHEET: INDICATE MATERIALS OF CONSTRUCTION, FINISH, AND MOUNTING DETAILS; AND PERFORMANCE DATA INCLUDING THROW AND DROP, STATIC-PRESSURE DROP, AND NOISE RATINGS.

B. SAMPLES: FOR EACH EXPOSED PRODUCT AND FOR EACH COLOR AND TEXTURE SPECIFIED.

PART 2 - PRODUCTS

2.1 CEILING DIFFUSERS

A. LOUVER FACE DIFFUSER (INDOORS, INSTALLED IN LAY-IN CEILING):

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRICE; MODEL AND OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:

- A. METALAIRE, INC.
- B. NAILOR INDUSTRIES INC.
- C. PRICE INDUSTRIES.
- D. TITUS.

2. MATERIAL: ALUMINUM.
3. FINISH: BAKED ENAMEL, WHITE.
4. FACE SIZE: REFER TO DRAWING SCHEDULE.
5. MOUNTING: T-BAR.
6. PATTERN: FOUR-WAY CORE STYLE.
7. ACCESSORIES:

- A. SQUARE TO ROUND NECK ADAPTOR.
- B. PLASTER RING (WHERE REQUIRED).

B. LOUVER FACE DIFFUSER (INDOORS, INSTALLED IN HARD CEILING):

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1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRICE; MODEL AMD OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
 - A. METALAIRE, INC.
 - B. NAILOR INDUSTRIES INC.
 - C. PRICE INDUSTRIES.
 - D. TITUS.
2. MATERIAL: ALUMINUM.
3. FINISH: BAKED ENAMEL, WHITE.
4. MOUNTING: SURFACE.
5. MOUNTING: REFER TO ARCHITECTURAL DRAWINGS AND MATCH CEILING TYPE.
6. PATTERN: FOUR-WAY CORE STYLE.
7. ACCESSORIES:
 - A. SQUARE TO ROUND NECK ADAPTOR.
 - B. PLASTER RING (WHERE REQUIRED).

2.2 REGISTERS AND GRILLES

A. LOUVER GRILLE (INDOORS, INSTALLED IN LAY-IN CEILING):

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRICE; MODEL 635 OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
 - A. METALAIRE, INC.
 - B. NAILOR INDUSTRIES INC.
 - C. PRICE INDUSTRIES.
 - D. TITUS.
2. MATERIAL: ALUMINUM.
3. FINISH: BAKED ENAMEL, WHITE.
4. FACE BLADE ARRANGEMENT: 45 DEGREE SPACED 1/2 INCH APART.
5. FRAME: 24" BY 24" PANEL.
6. MOUNTING: LAY IN.

B. LOUVER GRILLE (INDOORS, INSTALLED IN HARD CEILING):

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRICE; MODEL 635 OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
 - A. METALAIRE, INC.
 - B. NAILOR INDUSTRIES INC.
 - C. PRICE INDUSTRIES.
 - D. TITUS.
2. MATERIAL: ALUMINUM.
3. FINISH: BAKED ENAMEL, WHITE.
4. FACE BLADE ARRANGEMENT: 45 DEGREE SPACED 1/2 INCH APART.
5. FRAME: 1-1/4 INCHES WIDE.
6. MOUNTING: COUNTERSUNK SCREW.

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C. LOUVER GRILLE (OUTDOORS):

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRICE; MODEL 635 OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
 - A. METALAIRE, INC.
 - B. NAILOR INDUSTRIES INC.
 - C. PRICE INDUSTRIES.
 - D. TITUS.
2. MATERIAL: ALUMINUM.
3. FINISH: BAKED ENAMEL, COLOR SELECTED BY ARCHITECT.
4. FACE BLADE ARRANGEMENT: 45 DEGREE SPACED 1/2 INCH APART.
5. FRAME: 1-1/4 INCHES WIDE.
6. MOUNTING: COUNTERSUNK SCREW.

2.3 SOURCE QUALITY CONTROL

- A. VERIFICATION OF PERFORMANCE: RATE DIFFUSERS, REGISTERS, AND GRILLES ACCORDING TO ASHRAE 70, "METHOD OF TESTING FOR RATING THE PERFORMANCE OF AIR OUTLETS AND INLETS."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB.
- B. CEILING-MOUNTED OUTLETS AND INLETS: DRAWINGS INDICATE GENERAL ARRANGEMENT OF DUCTS, FITTINGS, AND ACCESSORIES. AIR OUTLET AND INLET LOCATIONS HAVE BEEN INDICATED TO ACHIEVE DESIGN REQUIREMENTS FOR AIR VOLUME, NOISE CRITERIA, AIRFLOW PATTERN, THROW, AND PRESSURE DROP. MAKE FINAL LOCATIONS WHERE INDICATED, AS MUCH AS PRACTICAL. FOR UNITS INSTALLED IN LAY-IN CEILING PANELS, LOCATE UNITS IN THE CENTER OF PANEL. WHERE ARCHITECTURAL FEATURES OR OTHER ITEMS CONFLICT WITH INSTALLATION, NOTIFY ARCHITECT FOR A DETERMINATION OF FINAL LOCATION.
- C. INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS, AIR EXTRACTORS, AND FIRE DAMPERS.

3.2 ADJUSTING

- A. AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE STARTING AIR BALANCING.

END OF SECTION 15855