

Section 07200
Interior Partition
Acoustical Insulation

Part 1 General

1.01 Summary

- A. Provide glass fiber acoustical insulation for interior partitions as indicated in building plans.

1.02 Materials Provided in Other Sections

- A. Section 09250-Gypsum Board
- B. Section 09260-Gypsum Board Systems
- C. Section 09100-Metal Support Systems

1.03 References

- A. American Society for Testing and Materials (ASTM).
 1. C 665 Specification for Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
 2. E 84 Test Method for Surface Burning Characteristics of Building Materials.
 3. E 136 Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.
 4. C 518 Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter.
 5. C423 Test Method for Sound Absorption Coefficient by the Reverberation Room Method

1.04 Submittals

- A. Product Data: Submit Owens-Corning product literature, samples and installation instructions for specified insulation.

1.05 Delivery, Storage and Handling

- A. Protect insulation 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.
- B. Label insulation packages to include material name, production date and/or product code.
- C. Deliver and store materials under provision of Section (01600) (01620).

1.06 Limitations

- A. Do not use unfaced insulation in exposed applications where there is potential for skin contact and irritation.
- B. Kraft and standard foil facings will burn and must not be left

exposed. The facing must be installed in substantial contact with the unexposed surface of the ceiling, wall or floor finish. Protect facing from any open flame or heat source.

Part 2 Products

2.01 Manufacturer

A. Owens-Corning.

2.02 Sound Attenuation Batts

A. Type: Unfaced glass fiber acoustical insulation complying with ASTM C 665, Type I.

B. Size:

Thickness___ Width___ Length___

C. Surface Burning Characteristics:

1. Maximum flame spread: 10
2. Maximum smoke developed: 10

When tested in accordance with ASTM E 84.

D. Combustion Characteristics:

Passes ASTM E 136.

E. Fire Resistance Ratings:

Passes ASTM E 119 as part of a complete fire tested wall assembly.

F. Sound Transmission Class: STC___

G. Dimensional Stability:

Linear Shrinkage less than 0.1%

2.03 Quiet Zone Acoustic Batts

A. Type: Kraft faced glass fiber acoustical insulation complying with ASTM C 665, Type II, Class C.

B. Size:

Thickness___ Width___ Length___

C. Surface Burning Characteristics:

1. Maximum flame spread: Not Rated
2. Maximum smoke developed: Not Rated

When tested in accordance with ASTM E 84.

Kraft facing on this insulation will burn and must not be left exposed. The facing must be installed in substantial contact with the unexposed surface of the wall finish material. Protect facing from any open flame or heat source.

D. Fire Resistance Ratings:

Passes ASTM E 119 as part of a complete fire tested wall assembly.

E. Sound Transmission Class: STC___

F. Dimensional Stability:

Linear Shrinkage less than 0.1%

2.04 Thermal Batt Insulation

- A. Type: Unfaced glass fiber thermal insulation complying with ASTM C 665, Type I.
- B. Size:
 - Metal Frame Insulation**
Thickness____ Width____ Length ____
 - Wood Frame Insulation**
Thickness____ Width____ Length ____
- C. Surface Burning Characteristics:
 - 1. Maximum flame spread: 10
 - 2. Maximum smoke developed: 10
When tested in accordance with ASTM E 84.
- D. Combustion Characteristics:
Unfaced insulation passes ASTM E 136 test.
- E. Fire Resistance Rating:
Passes ASTM E 119 as part of a complete fire tested wall assembly.
- F. Sound Transmission Class: STC_____
- G. Dimensional Stability:
Linear shrinkage less than 0.1%

2.05 Shaftwall Insulation

- A. Type: Unfaced glass fiber acoustical insulation complying with ASTM C 665, Type I.
- B. Size:
 - Thickness___ Width___ Length___
- C. Surface Burning Characteristics:
 - 1. Maximum flame spread: 20
 - 2. Maximum smoke developed: 20
When tested in accordance with ASTM E 84.
- D. Combustion Characteristics:
Passes ASTM E 136.
- E. Fire Resistance Ratings:
Passes ASTM E 119 as part of a complete fire tested shaftwall assembly.
- F. Sound Transmission Class: STC____
- G. Dimensional Stability:
Linear shrinkage less than 0.1%

2.06 Gypsum Board

- A. Refer to Section (09250) (09260) for detailed specifications.
- B. Type: 1/2" thick, type "x" gypsum panels.
- C. Type: 5/8" thick, type "x" gypsum panels.
- D. Type: 1" thick, shaftliner.

2.07 Metal Framing

- A. Refer to Section (09250) (09260) for detailed specifications.
- B. Type: 2 1/2" steel stud.
- C. Type: 3 5/8" steel stud.
- D. Type: 2 1/2" steel I-stud.

Part 3 Execution

3.01 Inspection and Preparation

- A. Examine substrates and conditions under which insulation work is to be performed. A satisfactory substrate is one that complies with requirements of the section in which substrate and related work is specified.
- B. Verify mechanical and electrical services within the shaftwall have been tested and inspected.
- B. Obtain installer's written report listing conditions detrimental to performance of work in this section. Do not proceed with installation of insulation until unsatisfactory conditions have been corrected.
- C. Clean substrates of substances harmful to insulation.

3.02 Installation - General

- A. Comply with manufacturer's instructions for particular conditions of installation in each case.
- B. Batts may be friction-fit in place until the interior finish is applied. Install batts to fill entire stud cavity. If stud cavity is less than 96" in height, cut lengths to friction-fit against floor and ceiling tracks. Walls with penetrations require that insulation be carefully cut to fit around outlets, junction boxes and other irregularities.
- C. Where walls are not finished on both sides or insulation does not fill the cavity depth, supplementary support must be provided to hold product in place.
- D. Where insulation must extend higher than 8 feet, temporary support can be provided to hold product in place until the finish material is applied.

3.03 Gypsum Board Installation

- A. Refer to Section (09250) (09260) for proper installation of gypsum board.

3.04 Protection

- A. Protect installed insulation as recommended by Owens-Corning.

END OF SECTION

