

SECTION 07 21 13 {07212}

BOARD INSULATION

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This section includes board insulation of polystyrene, polyurethane, or polyisocyanurate foam, cellular glass, or glass fiber rigid or semi-rigid board, for use as thermal barrier, often with bed adhesive serving as vapor retarder or air seal plane.

A vapor retarder can be achieved with facings on board insulation or as separate vapor retarder material. Vapor retarder requirements are specified in Section 07 26 00 {07260}. Air barrier requirements are specified in Section 07 27 00 {07270}.

Some building codes require fire resistive cover over certain exposed plastic insulations; edit this section accordingly.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcat.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes rigid and semi-rigid board insulation [and integral vapor retarder] at [cavity wall construction,] [perimeter foundation wall,] [underside of floor slabs,] [exterior wall behind [_____] wall finish,] [ceiling and soffit construction] [and] [_____].
- B. Related Sections:
 - 1. Section 07 21 16 - Blanket Insulation.
 - 2. Section 07 26 00 - Vapor Retarders: Vapor retarder materials to adjacent insulation.
 - 3. Section 07 27 00 - Air Barriers: Air seal materials to adjacent insulation.
 - 4. Section [_____] - [_____]: Rigid insulation at roof system.
 - 5. Section [_____] - [_____]: Board insulation behind metal [wall] [roof] cladding.
- C. Related Sections:
 - 1. Section 07260 - Vapor Retarders: Vapor retarder materials to adjacent insulation.

2. Section 07270 - Air Barriers: Air seal materials to adjacent insulation.
3. Section 07213 - Batt Insulation.
4. Section [_____-_____]: Board insulation behind metal [wall] [roof] cladding.
5. Section [_____-_____]: Rigid insulation at roof system.

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

- A. ASTM International:
 1. ASTM C240 - Standard Test Methods of Testing Cellular Glass Insulation Block.
 2. ASTM C552 - Standard Specification for Cellular Glass Thermal Insulation.
 3. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
 4. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation.
 5. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 6. ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics.
 7. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 8. ASTM E970 - Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source.
- B. Green Seal:
 1. GS-36 - Aerosol Adhesives.
- C. South Coast Air Quality Management District:
 1. SCAQMD Rule 1168 - Adhesive and Sealant Applications.

1.3 SYSTEM DESCRIPTION

Use this article carefully; restrict statements to describe components used to assemble system. Do not repeat statements made in SUMMARY Article; "Section includes" paragraph.

- A. Materials of This Section: Provide continuity of thermal barrier at building enclosure elements [in conjunction with thermal insulating materials in Section [_____]].
- B. Materials of This Section: Provide thermal protection to vapor retarder in conjunction with vapor retarder materials in Section [07 26 00 {07260}.] [_____].
- C. Materials of This Section: Provide thermal protection to air seal materials at building enclosure elements in conjunction with air barrier materials in Section [07 27 00 {07270}.] [_____].