



Sensible. Sound.
Solutions.



ComfortBase® Architectural Specifications

CSI Sections 06, 07, 09

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Section 06 00 00 Wood, Plastics and Composites.
- B. Section 07 00 00 Thermal and Moisture Protection.
- C. Section 09 00 00 Finishes

1.2 RELATED SECTIONS

- A. Section 03 30 00 – Cast in place concrete.
- B. Section 06 16 26 – Underlayment.
- C. Section 06 16 29 – Acoustical underlayment.
- D. Section 07 21 13 – Board insulation.
- E. Section 09 60 00 – Flooring: Installation and requirements for finish flooring.

1.3 REFERENCES

- A. APA The Engineered Wood Association (APA): APA AFG-01 – Specification for field gluing subfloors.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM C 209 - Test Methods for Cellulosic Fiber Insulating Board.
 - 2. ASTM C 518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - 3. ASTM D 1037 - Test Methods of Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
 - 4. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
 - 5. UL listed, File R16381.
 - 6. Forest Stewardship Certification (FSC): CoC Cert no. 5682.
 - 7. ICC-ES Report ESR-1374.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- 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. Installation methods.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 years experience in producing insulating sound-deadening boards.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Inspect the materials upon delivery to assure that specified products have been received. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Store materials in a dry place, indoors, on raised platform protected from weather damage.

1.7 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.
- B. Climatize panels to existing moisture conditions and for not less than 24 hours before installation. Comply with manufacturer's recommendations for acclimatization.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Homasote Company; 932 Lower Ferry Road, West Trenton, NJ 08628. Tel: (800) 257-9491. Tel: (609) 883-3300. Fax: (609) 883-3497. Email: sales@homasote.com Website: www.homasote.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
- C. Substitutions: Not permitted.
- D. Provide all floor panels from a single manufacturer.

2.2 MATERIALS

- A. ComfortBase: Class C fire-rated. Molded, 98% recycled post-consumer paper, cellulose fiber structural panel available only in a 4' x 4' panel with kerfing on the underside. Physical properties as follows.
 - 1. Thickness: 1/2 inch (13 mm).
 - 2. Density: 26-28 pcf (416-448 kg/cu. m) tested in accordance with ASTM C 209.
 - 3. Tensile Strength: When tested in accordance with ASTM C 209:
 - a. Parallel: 450-700 psi (3,100-4,830 kPa).
 - b. Transverse: 750-1000 psi (5.1171-6.894 kPa).
 - 4. Hardness (Janka Ball): 230 lbs (104 kg) tested in accordance with ASTM D 1037.
 - 5. Water Absorption by Volume: When tested in accordance with ASTM C 209:
 - a. 2 hour immersion: 7 percent maximum.
 - 6. Expansion: 50 to 90 percent relative humidity, 0.25 percent in accordance with ASTM C 209.
 - 7. Thermal Resistance: When tested in accordance with ASTM C 209 per ASTM C 518:
 - a. R-value: 1.2 for 1/2 inch (13 mm) thick board.
 - b. K-value: .512 Btu-in/ (h ft² °F).
 - 8. Noise reduction coefficient (NRC): 0.20
 - 9. Flame Spread: 76 to 200 tested in accordance with ASTM E 84, Class III or C.

2.3 ACCESSORIES

- A. Adhesive: APA AFG-01 specification sub-floor adhesive.
- B. Floor panel fasteners:
 - 1. Hilti type shot driven masonry fasteners.
 - 2. Tapcon type masonry screws.
- C. For stretch carpet installations: 1/2" (13mm) thick by 1 1/2" (38mm) wide wood nailers for the installation of tack strips.
- D. Stretch carpet tack strips.
- E. For nail-down hardwood flooring installations: 3/4" thick T&G plywood subfloor in 4' x 4' panel sizes.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates upon which work will be installed.
- B. Verify framing member spacing complies with manufacturer's requirements depending on substrates and installation methods.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

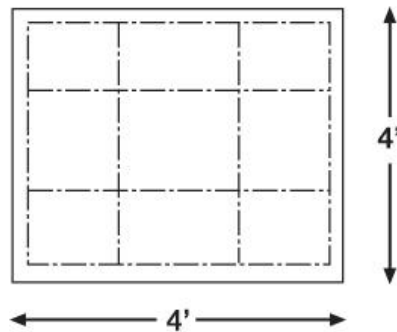
- D. Verify what environmental conditions are, and will continue to be maintained in accordance with manufacturer's recommendations.
- E. Starting work by installer is acceptance of substrate and environmental conditions.

3.2 PREPARATION

- A. Follow manufacturer's instructions by separating and allowing panels to be exposed to environmental temperature and humidity conditions for not less than 24 hours before start of installation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install only clean dry panels. **Do not install wet panels.**
- C. Floor Panel Installation: Space panel joints 3/16 inch (5 mm) apart; 3/8 inch (10 mm) space at walls and partitions. Stagger joints. See manufacturer's installation procedures for specific finish floor systems.



**GLUING PATTERN
GRID-SIDE TO FLOOR**

- D. Concrete floor must be clean, dry and free of moisture issues such as sweating. A vapor barrier must be used with new concrete subfloors. Areas such as basements and other below grade installations must be moisture free. Any moisture sources and or problems must be addressed prior to the installation of the product.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair, or replace damaged products before Substantial Completion.

3.5 CLEANING

- A. Comply with manufacturer's recommendations for repairing damaged panels.
- B. Replace panels that cannot be repaired.