

SECTION 06165

FIBERBOARD UNDERLAYMENT

PART GENERAL

SECTION INCLUDES

Underlayment for finish flooring over concrete slabs.  
Floating method.  
Adhesive method.

RELATED SECTIONS

Section 03300 - Cast-In-Place Concrete.

Section 09310 - Ceramic Tile.

Section 09647 - Wood Parquet Flooring.

Section 09648 - Wood Strip Flooring.

Section 09650 - Resilient Flooring.

Section 09680 - Carpet.

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REFERENCES

ASTM E 84 - Test Method for Surface Burning  
Characteristics of Building Materials.

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SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's product and complete  
installation data for all materials in this  
specification.

Installation Guide: Product manufacturer's written  
installation guide.

Closeout Submittals: Warranty and Manufacturer's

performance certifications.

#### DELIVERY, STORAGE, AND HANDLING

Deliver materials in the manufacturer's original sealed, labeled packaging.

Store materials inside when possible, stored flat at all times before installation. For exterior storage, place in a dry, well-vented area above ground on wooden pallets and covered with waterproof tarpaulins.

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.

Remove protective packaging not less than 24 hours before installation to allow material to acclimate.

#### PROJECT CONDITIONS

Maintain temperature and humidity conditions before, during, and after application closely approximating those which will exist when building is occupied.

Concrete slab must be dry before application. Do not apply where moisture is present.

#### PART PRODUCTS

##### MANUFACTURERS

Acceptable Manufacturer: Homasote Company, P.O. Box 7240, West Trenton, NJ 08628-0240; ASD. Tel: (609) 883-3300, Fax: (609) 530-1584, Internet address: <http://www.homasote.com>; For local rep contact: Sweet's Buyline 1-800-892-1165 (#0878).

Requests for substitutions will be considered in accordance with provisions of Section 01600. Proposed substitutions shall meet the performance and quality standards of this specification.

Substitutions: Not permitted.

Provide all fiberboard underlayment from a single manufacturer.

#### MATERIALS

Fiberboard Underlayment: ComfortBase(tm) high-density fiberboard made from 100 percent recycled newsprint with 1/4 inch (6 mm) deep by 4 inch by 4 inch (100 by 100 mm) grid on one side only.

Thickness: 1/2 inch (13 mm).

Density: 26-28 pcf (416-448 kg/cubic m).

Tensile Strength parallel to surface: 450-700 psi (3,100-4,830 kPa) minimum.

Transverse M.O.R.: 750-1,000 psi (5,175-6,900 kPa) minimum.

Hardness (Janka Ball): 230 lbs. (104 kg).

Water Absorption by Volume:

2 hour immersion: 5 percent maximum.

24 hour immersion: 15 percent maximum.

Expansion, 50 to 90 percent relative humidity: 0.25 percent.

Noise Reduction Coefficient: 0.20.

R-value: 1.2 (0.021).

Flame Spread: Class III (or C).

#### ACCESSORIES

Adhesive: APA approved subfloor adhesive meeting APA AFG-01 specification.

Wood Nailers: 1/2 inch (13 mm) thick by 1-1/2 inches (38 mm) wide.

#### PART EXECUTION

##### EXAMINATION

Examine substrates upon which work will be installed.

Verify environmental conditions are, and will continue to be, maintained in accordance with manufacturer's recommendations.

Coordinate with responsible entity to perform corrective work on unsatisfactory substrates or conditions.

Starting work by installer is acceptance of substrate and environmental conditions.

#### PREPARATION

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

#### INSTALLATION

Follow manufacturer's recommendations for temperature and humidity conditions before, during, and after installation. (Bowling of panels away from grid side is normal before application.)

Allow 3/16 inch (4.7 mm) space at panel joints, 3/8 inch (9.5 mm) space at walls and partitions, to allow for expansion and contraction.

Provide 1/2 inch (13 mm) expansion joints at 50 feet (15.240 m) in each direction.

Stagger all panel joints regardless of panel size.

Underlayment Application for Carpet and Pad (Floating Method):

Nail or glue wood nailers to concrete where tackless strips are to be used.

Lay panels in position, grid side down.

Allow 48 hours before installation of pad and carpet.

Underlayment Application for Carpet and Pad (Adhesive Method):

Nail or glue wood nailers to concrete where tackless strips are to be used.

Apply continuous 3/8 inch (9.5 mm) beads of adhesive on grid surface of underlayment panels:

Each direction at 1/3 points .

3/4 inch (19 mm) from each edge.

Place adhesive side down to concrete and apply pressure over entire surface.

Maintain installed panels traffic-free for 24-48 hours before installation of pad and carpet.

Underlayment Application for Adhered Carpet, Vinyl, Wood Parquet, Wood Strip, and Ceramic Tile Flooring (Adhesive

Method):

Apply continuous 3/8 inch (9.5 mm) beads of adhesive on grid surface of underlayment panels:

Each direction at 1/3 points .

3/4 inch (19 mm) from each edge.

Place adhesive side down to concrete and apply pressure over entire surface.

Maintain installed panels traffic-free for 24-48 hours before installation of plywood.

Install 4 foot by 4 foot (1.219 by 1.219 m) maximum sheets of 3/8 inch (9.5 mm) minimum thickness plywood of suitable underlayment grade over installed panels.

Trowel adhesive over underlayment panels in 100 percent coverage fashion.

Apply plywood so that plywood joints do not coincide with underlayment joints.

Nail each corner and center of plywood using concrete nails to penetrate concrete 1 inch (25 mm) minimum.

Use additional nails as necessary to hold plywood flat.

Maintain installed plywood traffic-free for 24-48 hours before installation of finish flooring.

#### ADJUSTING AND CLEANING

Follow manufacturer's instructions for repairing damaged panels.

Replace panels that cannot be repaired to "as new" condition.

END OF SECTION