

PROJECT NO.:  
DATE:

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SECTION 09 62 23  
BAMBOO FLOORING  
Rev. 11/14/2012

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. **Traditional Bamboo Flooring:**
  - 1. **Horizontal grain.**
  - 2. **Vertical grain.**
- B. **Strand/Woven Bamboo Flooring:**
  - 1. **Natural.**
  - 2. **Carbonized.**
  - 3. **Carbonized and braided.**
  - 4. **Carbonized/Natural mix.**
  - 5. **Stained.Distressed and stained.**
- C. **Bamboo Trim and Accessory Pieces.**
- D. **Bamboo Stair Treads and Risers**
- E. **Accessories**

1.2 RELATED REQUIREMENTS

- A. Section 01 35 63 – Sustainability Certification Project Requirements.
- B. **[Section 01 61 16 – Volatile Organic Compound (VOC) Content Restrictions.]**
- C. Section 03 30 00 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
- D. Section 06 10 00 - Rough Carpentry: New subfloor or underlayment.

1.3 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 21 00 – Allowances: For **[cash] [testing] [quantity]** allowances affecting this section.
- B. See Section 01 23 00 – Alternates: For product alternates affecting this section.
  - 1. This section describes a base bid product; refer to Section **[\_\_\_\_\_]** for an alternative product.
  - 2. This section describes an alternative product; refer to Section **[\_\_\_\_\_]** for the base bid product.

1.4 SUBMITTALSProduct 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.
  - 4. Specimen warranty and warranty conditions.
  - 5. Care and maintenance instructions and recommendations.
- B. Shop Drawings: Indicate layout and installation details including dimensional plans, bamboo grain direction, fastening method, and transition accessories and details.
- C. Selection Samples:
  - 1. Submit samples showing manufacturer's full range of types, grains, colors and finishes.
- D. Verification Samples:
  - 1. Submit samples at least 12 inches long, of bamboo flooring type indicated with **[field-applied top coating applied to ½ of each sample and]** supplier identified on each sample.
- E. Test Reports: Showing compliance with specified characteristics.

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- F. Sustainability Report: For flooring, submit bamboo content by weight, VOC and urea-formaldehyde content, and location of harvesting and manufacture; for adhesives, submit VOC content.
- G. LEED Credit Reports: Submit information as indicated in Section 01 35 63 – Sustainability Certification Project Requirements.
  1. Credit MR 6 – Rapidly Renewable Materials.
  2. Credit IEQ 4.1 – Low-Emitting Materials – Adhesives and Sealants.
  3. Credit IEQ 4.4 – Low-Emitting Materials – Composite Wood and Agrifiber Products.
- H. Warranty: Submit manufacturer warranty and ensure that any required forms have been completed in Owner's name and registered with manufacturer.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing and distribution of bamboo flooring with at least three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section with at least three years of documented experience.
- C. Source Limitations: Obtain each type bamboo flooring from single source and from single manufacturer.
- D. Mock-ups: Provide a mock-up of a typical flooring area for each type of specified flooring as shown on Drawings for Architect's approval to set installation quality standard. Include finish trim in mock-up.
  1. Approved mock-up may **[not]** remain in place as part of the Work after Substantial Completion.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in manufacturer's protective containers.
- B. Store products under cover and elevated in a warm, dry and conditioned space.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

#### 1.7 SITE CONDITIONS

- A. Environmental Requirements: Area to receive bamboo flooring material **[and adhesive]** shall be maintained at occupancy temperature and humidity levels for at least 10 days prior to, during and continuously following installation.
  1. Room Temperature: 65 to 75 degrees F.
  2. Relative Humidity: 40 to 60 percent.
- B. Acclimatize flooring material for at least 4 days prior to installation, by opening boxes and removing shrink wrap film to allow air to circulate around flooring in installation area.

#### 1.8 WARRANTY

- A. Lifetime Structural Warranty: Manufacturer warranty to supply replacement flooring planks for any boards with defective bonding or separation within laminated boards, at no cost to original end-consumer; actual flooring plank is only item covered under this warranty.
  1. Warranty does not cover accidental moisture problems or problems developing from improper humidity levels, maintain relative humidity levels after installation between 40 and 60 percent.
  2. Warranty does not cover costs related to removal or installation of warranted product.
- B. Pre-Finish Warranty: Manufacturer warranty on aluminum oxide finish on flooring planks against wearing through, cracking or separation from date of purchase in accordance with provisions of written warranty:
  1. Residential Applications: 25 years.
  2. Commercial Applications: 5 years.

#### 1.9 MAINTENANCE

- A. Extra Materials: Provide **[5][10]** percent **[or not less than 1 full box]** of additional material for maintenance purposes.

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## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Green Choice® Flooring International, Inc.: [www.greenchoiceflooring.com](http://www.greenchoiceflooring.com).
  - 1. Location: 6227 136<sup>th</sup> Avenue, Holland, Michigan 49424
  - 2. Phone: (866) 915-1120.
  - 3. Email: [sales@greenchoiceflooring.com](mailto:sales@greenchoiceflooring.com).

### 2.2 BAMBOO FLOORING

- A. **Traditional Bamboo Flooring:** Tongue and groove plank flooring made of natural bamboo strips that are laminated under pressure with micro beveled edges and factory finished.
  - 1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  - 2. Style: **Vertical** grain, with narrow edges of bamboo strips on visible surface using single layer laminated construction, solid bamboo.
    - a. Colors: **[Caramel] [Chamois]**.
  - 3. Style: **Horizontal** grain, with wide faces of bamboo strips on visible surface using three layer laminated construction, solid bamboo.
    - a. Colors: **[Caramel] [Chamois]**.
  - 4. Thickness: 5/8 inch.
  - 5. Plank Width: 3 3/4 inches.
  - 6. Plank Length: 75 1/2 inches.
  - 7. Plank Edge Style: Standard Tongue and Groove.
  - 8. Binder Resin: Phenolic resin.
  - 9. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  - 10. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  - 11. Critical Radiant Flux: Within a range of 0.79 to 1.06 W/sq cm when tested in accordance with ASTM E 648-2006a.
  - 12. Coefficients of Friction: Average of .41 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394.
  - 13. Compressive Strength: Average of 1,948 psi with Ultimate Load of 18,267 lbf; ASTM D 3501.
  - 14. Hardness: Average of 1,867 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  - 15. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.06 percent
    - b. Thickness Swell: 2.7 percent
  - 16. Installation Method: Glue down.**[Nail down.]**
- B. **StrandWoven Natural Bamboo Flooring:** Natural bamboo strips are soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into plank flooring with micro beveled edges and factory finished.
  - 1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  - 2. Style: StrandWoven, Natural.
  - 3. Color: **Cornsilk**; natural bamboo.
  - 4. Plank Width: **[3 3/4 inches] [5 1/4 inches]**.
  - 5. Plank Edge Style: **[Standard Tongue and Groove.][Click-Lock.]**
  - 6. Plank Thickness: 9/16 inch.
  - 7. Plank Length: 72 inches.
  - 8. Binder Resin: Phenolic resin.
  - 9. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  - 10. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  - 11. Critical Radiant Flux: Average range of 0.87 to 1.05 W/sq cm when tested in accordance with ASTM E 648-2006a.

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12. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394.
  13. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  14. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  15. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  16. Installation Method: Glue-down. **[Float.]**
- C. **StrandWoven Carbonized Bamboo Flooring:** Carbonized bamboo strips are soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into plank flooring with micro beveled edges and factory finished.
1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  2. Style: StrandWoven, Carbonized.
  3. Colors: **Nutmeg**; dark carbonized bamboo, **Cinnamon**; light carbonized bamboo.
  4. Plank Width: **[3 3/4 inches] [5 1/4 inches]**
  5. Plank Edge Style: **[Standard Tongue and Groove.]****[Click-Lock.]**
  6. Binder Resin: Phenolic resin.
  7. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  8. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  9. Critical Radiant Flux: Average range of 0.55 to 1.09 W/sq cm when tested in accordance with ASTM E 648-2006a.
  10. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394
  11. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  12. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  13. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  14. Installation Method: Glue-down. **[Float.]**
- D. **StrandWoven Carbonized Braided Bamboo Flooring:** Carbonized bamboo strips are twisted and braided and soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into plank flooring with micro beveled edges and factory finished.
1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  2. Style: Strandwoven, Carbonized and Braided.
  3. Color: **Burlwood**; carbonized twisted and braided bamboo.
  4. Plank Width: 4 7/8 inches.
  5. Plank Edge Style: Standard Tongue and Groove.
  6. Binder Resin: Phenolic resin.
  7. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  8. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  9. Critical Radiant Flux: Average range of 0.55 to 1.09 W/sq cm when tested in accordance with ASTM E 648-2006a.
  10. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394
  11. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  12. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  13. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  14. Installation Method: Glue-down.

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- E. **StrandWoven Carbonized Mix Bamboo Flooring:** Natural, carbonized, and variegated bamboo strips are soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into plank flooring with micro beveled edges and factory finished.
1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  2. Style: StrandWoven, Carbonized/Natural Mix
    - a. Color: **Marbled**; approximate ratio of 70 to 80 percent natural (Cornsilk) to 20 to 30 percent carbonized bamboo (Nutmeg).
      - 1) Plank Width: 5 1/4 inches.
      - 2) Plank Edge Style: Click-Lock.
  3. Binder Resin: Phenolic resin.
  4. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  5. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  6. Critical Radiant Flux: Average range of 0.55 to 1.09 W/sq cm when tested in accordance with ASTM E 648-2006a.
  7. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394
  8. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  9. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  10. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  11. Installation Method: Glue-down. **[Float.]**
- F. **StrandWoven Stained Bamboo Flooring:** Natural, carbonized, and variegated bamboo strips are soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into tongue and groove plank flooring with micro beveled edges and factory stained finished.
1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  2. Style: StrandWoven and stained.
    - a. Color: **[Walnut] [Pecan]**.
  3. Plank Width: 5 1/4 inches.
  4. Plank Thickness: 9/16 inch.
  5. Plank Length: 72 1/2 inches.
  6. Plank Edge Style: Click-Lock.
  7. Binder Resin: Phenolic resin.
  8. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  9. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  10. Critical Radiant Flux: Average range of 0.55 to 1.09 W/sq cm when tested in accordance with ASTM E 648-2006a.
  11. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394
  12. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  13. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  14. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  15. Installation Method: Glue-down. **[Float.]**
- G. **StrandWoven Stained and Distressed Bamboo Flooring:** Natural, or carbonized bamboo strips are soaked in binder glue, woven together, compressed under pressure into a log, sliced into flooring planks, and milled into tongue and groove plank flooring with micro beveled edges and factory stained and distressed finished.
1. Material: 100 percent mature Moso Bamboo; Bambusoideae.
  2. Style: StrandWoven, stained and distressed.
    - a. Color: **[Java] [Chestnut] [Oyster-grey]**.
  3. Plank Width: 5 1/4 inches.

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4. Plank Thickness: 9/16 inches.
  5. Plank Length: 72 1/2 inches.
  6. Plank Edge Style: Click-Lock.
  7. Binder Resin: Phenolic resin.
  8. Finish: Exposed side contains nine to thirteen coats and underside contains one coat of acrylic aluminum oxide, cured with ultraviolet light.
  9. Formaldehyde Emissions: Less than 0.02 part per million, tested in accordance with ASTM E 1333-1996 (2002).
  10. Critical Radiant Flux: Average range of 0.55 to 1.09 W/sq cm when tested in accordance with ASTM E 648-2006a.
  11. Coefficients of Friction: Average of .52 for static friction between flooring and prime grade shoe leather sole when tested in accordance with ASTM D 2394
  12. Compressive Strength: Average of 12,718 psi with Ultimate Load of 21,651 lbf; ASTM D 3501.
  13. Hardness: Average range of 3,476 to 4,694 lbf, Janka Ball hardness test; ASTM D 1037-2006.
  14. Dimensional Stability: At 90 percent relative humidity; ASTM D 1037-2006.
    - a. Linear Expansion: 0.015 percent.
    - b. Thickness Swell: 3.3 percent.
  15. Installation Method: Glue-down. **[Float.]**
- H. Bamboo Trim and Accessory Pieces: Matching construction, color, and finish; piece length of at least 72 inches unless noted otherwise.
1. Baseboards: Radiused top.
    - a. Height: 3 1/2 inches.
    - b. Thickness: 7/16 inch.
  2. Quarter round: 3/4 inch radius.
  3. Reducer: 2 inches wide, same thickness as floor.
  4. Transition Strip: T-molding to cover edge of bamboo floor adjacent to other floor of same thickness; 1-1/2 inches wide.
- I. Bamboo Stair Treads and Risers:
1. Stair Treads: Radiused nosing.
    - a. Thickness: At least 1 inch.
    - b. Length and Width: As indicated on Drawings.
    - c. **[Provide treads in one piece.]**
    - d. **[Provide treads from glued up tongue and groove bamboo planks, with nosing piece at least 2 1/2 inches wide and planks run full width of stair.]**
  2. Stair Risers: Glued up from matching planks.
    - a. Thickness, Length and Width: As indicated on Drawings.

### 2.3 ACCESSORIES

- A. Adhesives: One-part, trowel applied, moisture-cure, 100 percent urethane adhesive specifically recommended by flooring manufacturer for type of flooring installed.
  1. Acceptable Manufacturers:
    - a. Bostik; Product TKO.
    - b. Bostik; Product BEST.
    - c. Manufacturer approved equivalent.
- B. Subfloor/Underlayment:
  1. At least 5/8 inch CDX plywood with supports at 12 to 16 inch on center.
  2. At least 3/4 inch CDX plywood with supports at 24 inch on center.
- C. Leveling Compound/Substrate Filler: Provide filler compatible with adhesive used for wood flooring and as recommended by flooring manufacturer.
- D. **[Vapor Barrier: 6 mil polyethylene film as recommended by flooring manufacturer.]**
- E. **[Fasteners for Nail-Down Installation: Use pneumatic tongue and groove flooring stapler or nailer as recommended by flooring manufacturer with adapter pad as necessary.]**
  1. **Power Cleat Staples/Nails: 2 inches long.**
  2. **Pneumatic Cleat Nail: 1 1/2 inches long, 18 gage.]**

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- F. [Field-Applied Top Coating (for High Traffic and Moisture Related Spill Areas): As recommended by certified floor refinisher.]

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that flooring has been stored unwrapped at ambient temperature and humidity of the space that it is being installed for at least 4 days prior to installation.
- B. Verify that flooring materials are in satisfactory condition for installation. Do not install scratched or otherwise damaged materials.
- C. Verify that substrate is clean, smooth, level, and dry.
  - 1. Remove debris from flooring substrate including wax, oil, or solvents.
  - 2. Ensure flatness to within 3/16 inch over 8 foot radius.
    - a. Provide substrate filler to fill low spots as necessary.
- D. Perform moisture tests:
  - 1. Do not install if moisture content of the subfloor is more than 10 percent.
  - 2. Do not install if difference between subfloor and flooring moisture content exceeds 2 percent.
  - 3. Confirm substrate will remain dry throughout the year.
- E. Concrete Sub-Floor : Fully cured for at least 45 days, and calcium chloride test results showing moisture content less than 3 lbs per 1,000 sq ft in accordance with ASTM F 1869.
  - 1. Verify that concrete sub-floor surfaces are dry enough and ready for flooring installation by testing for alkalinity in accordance with ASTM F 710 and moisture emission rate in accordance with ASTM F 2170.
    - a. Obtain additional instructions if test results are not within limits recommended by flooring manufacturer and adhesive materials manufacturer.
    - b. Confirm type and requirements for vapor barrier as necessary for application indicated and as recommended by installer.
  - 2. For Adhesive Installations:
    - a. Perform a bond test using actual adhesive to be employed.
    - b. Do not install unless satisfactory bond is obtained.
    - c. Verify compatibility of adhesive with other products used in installation.
- F. Nailable Wood Subfloor: Using a moisture meter, check moisture content of wood substrate.
  - 1. Crawl Space: Verify that crawl space under subfloor has at least 24 inches clearance from dirt floor to bottom of floor joists.
    - a. Verify that floor of crawl space has adequate vapor barrier to minimize moisture transfer to sub-flooring.
    - b. Verify that crawl space is adequately ventilated.
  - 2. To minimize potential for floor squeaks, ensure that wood sub-floor is nail or screw attached to joists at 6 inches on center.

### 3.2 FLOORING INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Obtain manufacturer's instruction sheets and warranty limitations and maintain copies on site during installation.
- C. Install in accordance with manufacturer's instructions and warranty limitations.
- D. Grind down any high spots and fill low spots with leveling compound.
- E. Monitor moisture content of substrate and flooring for acceptable moisture range throughout installation process.
- F. Install vapor retarder where required.
  - 1. Overlap edges a minimum of 4 inches.
  - 2. Continue vapor retarder application at walls, up 2 inches.
- G. Layout flooring prior to installation to make adjustments for aesthetics.

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- H. Install flooring panels perpendicular to flooring joists, beginning with grooved edge towards wall.
- I. **[At existing sub-floor condition: Install panels perpendicular to the existing sub-floor.]**
- J. Expansion Gaps:
  - 1. Provide 1/2 inch expansion gap at perimeter edges of floor to allow for expansion and contraction at walls, pipes, and cabinets.
  - 2. For floors wider than 20 feet: Consult National Wood Flooring Association's technical manual for additional spacing and transition piece requirements.
- K. Stagger end joints of boards at least 4 inches from each other.
- L. Glue-Down Installation:
  - 1. Install using adhesive, with planks tightly butted.
  - 2. Spread adhesive in accordance with adhesive manufacturer's written instructions.
  - 3. Fit tongue side into the groove side until they are flush against each other.
  - 4. Tape rows together after they have been laid with wide removable painter's tape.
  - 5. Weight down areas if boards are slightly bowed or floor is uneven to ensure good contact with adhesive.
  - 6. Verify that good contact is made between flooring and adhesive throughout entire floor.
  - 7. Immediately wipe off any excessive adhesive from flooring as work progresses.
    - a. Use light application of mineral spirits or adhesive remover and rub lightly so as not to damage factory finish on flooring.
- M. Floating (Click-Lock) Installation:
  - 1. Install using the manufacturer's click and lock method, with planks tightly fit together.
  - 2. Click-Lock flooring can be installed with or without using glue.
  - 3. Method A (Angle – In):
    - a. Position panel at a 20-30 degree angle to the panel already installed.
    - b. Move panel gently up and down while exerting forward pressure. Panels will automatically click into place. Insert tongue into groove or groove into tongue.
  - 4. Method B (Flat):
    - a. Using special tapping block sitting flat on floor, tap panels into each other without lifting.
    - b. To avoid damaging panels, tap panels together gradually. Do not use just one tap.
- N. Nail-Down Installation:
  - 1. Verify nailer or stapler gun air pressure on test piece prior to fastening actual flooring.
  - 2. Install using nails or staples concealed within tongue-and-groove joint, with planks tightly butted and fasteners spaced as recommended by manufacturer.
    - a. Ensure that fasteners are fully seated.
  - 3. Face nailing: Pre-drill holes to prevent surface damage to flooring.
  - 4. Provide fastener to within at least 3 inches from each end of row.
  - 5. Space fasteners at 6 to 8 inches on center with at least 2 fasteners per board.
  - 6. Install flooring perpendicular to floor joists beginning with grooved edge against the wall, unless noted otherwise.
- O. Use pull-straps at 3 foot intervals to ensure boards are held firmly together during glue down installation.
- P. Maintain at least 1/2 inch space between ends of planks and vertical walls; cover with trim fastened to allow expansion of planks.

### 3.3 TRIM INSTALLATION

- A. Remove spacers.
- B. Install wall base covering expansion space; miter inside and outside corners.
- C. Fasten molding and trim accessories to wall surface and not to flooring.
- D. In doorways where adjacent floor finish is different, terminate flooring under centerline of door; provide divider strip.
- E. At open or exposed edges and where flooring terminates, provide tapered edge strip.

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3.4 STAIR TREADS AND RISERS INSTALLATION

- A. Install stair treads and risers as indicated on Drawings.

3.5 [FIELD-APPLIED TOP COATING APPLICATION

- A. **Apply top coating according to top coating manufacturer's recommendations and instructions.]**

3.6 CLEANING

- A. Clean flooring[,molding and trim] [,stair treads and risers]to like-new condition using methods recommended by manufacturer.

3.7 PROTECTION

- A. Prohibit traffic on floor for at least 48 hours after installation.
- B. Protect installed products until completion of project.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION