Guide Specification #09627
Decorative Laminate Flooring

Part 1 – GENERAL

1.1 SUMMARY

A. Section Includes:
   1. High Pressure Decorative Laminate Flooring
   2. Stairs and Steps
   3. Underlayment and Vapor Barrier
   4. Trims and moldings

B. Related Sections:
   1. Finishing and curing of concrete slabs:  Section 03300.
   2. Wood substrates:  Section 06100
   3. Waterproofing membranes:  Division 7

1.2 SYSTEM DESCRIPTION

A. High pressure decorative laminate plank flooring with mechanical locking system and attached underlayment applied over a moisture barrier and concrete slab.
B. High pressure decorative laminate plank flooring with mechanical locking system and attached underlayment applied over a wood substrate.
C. Flooring system of “floating – floor” construction type allowing for expansion and contraction due to changes in humidity.
D. Vapor Barrier is required over concrete based subfloors including ceramic tile brick and terrazzo.

1.3 SUBMITTALS

A. Comply with Section 01330, unless otherwise indicated.
B. Product Data:
   1. Product data and detailed specification of construction.
   2. Manufacturer’s installation instructions.
   3. Manufacturer’s recommendations for product handling, storage, acclimation, installation, protection, and maintenance.
C. Show Drawings:  Submit installation details showing layout and location of each product type and accessory component including design(s) and finish texture(s).
D. Samples:  Submit selection and verification samples for design(s) and finish texture(s).
1.4 QUALITY ASSURANCE
A. Installer Qualifications: Installation shall be performed by a firm experienced in the application of systems similar in complexity to those required for this Project. Additionally, installers shall be in possession of the manufacturer’s installation manual and adhere to the instructions.
B. Manufacturer’s Qualifications: Not less than 25-years experience in the laminate flooring industry and a record of successful commercial applications.
C. Source Limitations: Obtain all products and materials from one source.
D. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, and manufacturer’s warranty requirements.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Ordering: Order material in compliance with manufacturer’s lead time requirements to avoid construction delays.
B. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged cartons.
C. Storage and Protection: Store in a horizontal fashion, flat and off the floor (i.e. palletized).

1.6 PROJECT CONDITIONS
A. Maintain air temperature between 55º and 80º Fahrenheit and humidity levels between 25% and 60% for 48 hours before, during and after installation.
B. Install decorative laminate flooring after other finishing operations have been completed.

1.7 WARRANTY
A. Furnish manufacturer’s limited 10-year commercial warranty for joint integrity, wear resistance, stain resistance, and fade resistance (Alloc Commercial).
B. Furnish manufacturer’s limited 6 – year light commercial warranty for joint integrity, wear resistance, stain resistance, and fade resistance (Alloc Original).
Part 2 – PRODUCTS

2.1 MANUFACTURERS

2.2 MATERIALS
A. Composite panel(s) comprised of four main components: a high pressure decorative laminate surface, an Aqua Resist high density fiberboard (HDF) core, a high pressure balancing backer, and an attached high density polyethylene underlayment.
1. 7.6” x 47.5” x .43” (Alloc Commercial)
2. 7.6” x 47.55” x .385” (Alloc Original)
B. Panel edges:
1. Patented aluminum locking system for glue-free installation.
2. Wax-impregnated edges.
C. Performance Standard Compliance:
1. The products surface shall be capable of withstanding a minimum of 11,500 (Alloc Commercial) revolutions in accordance with NEMA LD 3.13.
2. The floor as installed shall have a static coefficient of friction when dry greater than 0.80 and when wet greater than 0.72 as tested in accordance with ASTM C1028.
3. The floor shall be resistant to stains and reagents and exceed all standards as set forth in and tested in accordance with ASTM D3023 (Alloc Commercial) and NEMA LD 3.4 (Alloc Original)
4. The floor shall have a horizontal joint strength of not less than 1,000 lbs./lineal ft. when tested in accordance with Lloyd-LR 10K (ISO/TC 219)
5. Ball Impact Resistance (ANSI/NEMA LD3-2000, 3.8): No damage 1,675 mm (Alloc Commercial) and no damage 675 mm (Alloc Original).
7. Specific Optical Density of Smoke: Class 1 (Alloc Commercial) when tested in accordance with ASTM D 3023 and <350 when tested in accordance with ASTM E 662-03
8. Impact Insulation Classification (IIC): 64 when tested in accordance with ASTM E 492 – 90 NVLAP
9. Sound Transmission Classification (STC): 61 when tested in accordance with ASTM E 90-02 NVLAP
11. Mechanical locking system strength > 1000 lbs / lineal foot as per ISO/TC 219 / TG03
2.3 ACCESSORIES
A. Vapor barrier shall be polyethylene sheet(s) not less than 6.0 mils thick.
B. Underlayment is pre-attached to product in the form of a 2mm (0.08”) thick crosslinked HDPE sheet.

2.4 RELATED MATERIALS
A. Decorative Laminate Trim available in 94” lengths matching colors or Anodized Aluminum (aa) Trim
   1. Quarter Round (not in aa)
   2. Wall Base (not in aa)
   3. Reducer
   4. Square Nose Reducer or End Cap
   5. T-Molding
   6. Overlap and Flush Stair nose (not in ao)
B. Mono Track® aluminum fastening system used to secure the Trim tightly in place without visible nail or screw holes. Alternatively use construction mastic.
C. Ensure Mono Track and moldings are installed on clean level subfloor.
D. Anodized Aluminum Trim comes with flush screw down system.

PART 3 – EXECUTION

3.1 MANUFACTURER’S INSTRUCTIONS
A. Compliance: Comply with current manufacturer’s product installation manual.

3.2 EXAMINATION
A. Site Verification of Conditions: Examine substrate conditions, application areas, and jobsite conditions are acceptable for product installation.
B. Verify concrete slabs, brick and terrazzo type subfloors are dry according to ASTM F 1869 with maximum moisture emission of 5 pounds per 1000 square feet per 24 hours. Do not install flooring if alkaline content is high.
C. For Health Care Installations note the Alloc mechanical locking system provides a close fitting joint with water repellant wax impregnated edges in line with recommendations by the AIA, in the American Hospital Association (AHA) Guidelines for Design and Construction of Hospitals and Health Care Facilities.

3.3 PREPARATION
A. Surface Preparation: Remove wood floors from concrete subfloors. Remove carpeting from subfloors prior to installation. Prepare sub floor to receive laminate flooring and verify that the sub floor is flat to within 3/16” over a 10’ span. Ensure that the sub floor is structurally sound and stable. Clean sub floor to remove loose dirt particles and debris.
B. Acclimation: Condition flooring materials in unopened cartons in the room where the installation is to take place or room with exact similar conditions for at least 48 hours prior to installation.

3.4 PLANNING
A. Verify direction of plank flooring with Architect and/or end user prior to commencing with installation.
B. Install flooring symmetrically about room centerline unless otherwise indicated.

3.5 INSTALLATION
A. Install polyethylene vapor barrier sheet on:
   1. Concrete Subfloors.
   2. Over existing floors installed on concrete.
   3. Over all subfloors that have open crawlspace underneath them.
B. Install laminate flooring as a floating floor.
C. Connect the planks via the aluminum locking mechanism and stagger the plank’s end joints a minimum of 12”.
D. Provide a minimum of _” expansion space between flooring planks and perimeter walls, columns and other fixed objects.
E. Install transition pieces:
   1. When exceeding 50 lineal feet in a single room.
   2. At the centerline of doors.
   3. When transitioning to other flooring materials or unfinished areas.
F. Do not nail, screw, or fix laminate flooring to the sub floor(s).
G. Install wall base or trim at floor perimeter and at vertical obstructions.

Stairs and Steps
A. Install stairs and steps in compliance with manufacturer’s installation instructions.
B. Use laminate flooring planks for risers and treads combined with stairnose moldings

3.6 PROTECTION
A. Cover installed flooring to protect it from damage during the remainder of construction. Use heavy Kraft-paper or other suitable material.
B. Cleaning: Maintain flooring in accordance with manufacturer’s suggestions.

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