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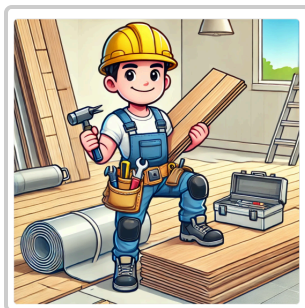
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## Flooring Explainer

Component ID

**77**

Part Number

**25C077**

WBS Code

**09.31.01.00.00**

Status

**Active**

Created

**2024-11-11**

## General Description



### General Description: Flooring Installation for Duplex Incomplete, not ready

**Project Overview:** We are installing Luxury Vinyl Plank (LVP) flooring in a duplex with a total area of **1,500 square feet** (750 sq. ft. per side). LVP is a durable, waterproof flooring solution that mimics hardwood. Its resilience and ease of maintenance make it an ideal choice for modular homes, particularly over metal-faced Structural Insulated

Affordable Housing [NorthStar Group 701-770-9118](https://www.northstar.com) / [michaelh@nsgia.com](mailto:michaelh@nsgia.com) / © 2025, all rights reserved

1. **Preparation:** Metal-faced SIPs will be covered with underlayment to create a smooth, stable surface for flooring. This process includes sealing seams, cutting underlayment, and securing it in place.
2. **Flooring Installation:** LVP planks will be laid over the underlayment using adhesive or a floating method, following manufacturer guidelines.

### Costs:

- **Materials (Estimated for 1,500 sq. ft.):**
  - **Underlayment:** \$150–\$450 (foam or plywood; overseas or local).
  - **LVP Flooring:** \$420–\$1,200 (imported, Alibaba for bulk or local distributors).
- **Labor (Estimated):**
  - **Underlayment Installation:** \$600–\$900.
  - **LVP Installation:** \$1,000–\$1,500.
- **Total Cost Range:** \$2,170–\$4,050.

### Why Consider Overseas Suppliers?

1. **Cost Efficiency:** Over 80% of LVP in the U.S. is imported, primarily from Asia (e.g., China). Buying directly from overseas factories can reduce costs significantly compared to purchasing through local distributors.
2. **Availability:** Many U.S. distributors source from the same overseas manufacturers, adding a markup for resale.
3. **Custom Options:** Overseas suppliers often offer customization options for bulk orders, allowing for tailored designs or specifications.

**Conclusion:** Given the high likelihood (80%) of sourcing LVP from overseas, it makes practical and economic sense to work directly with manufacturers or exporters, particularly for a large-scale project like this duplex. This approach ensures cost savings, broader selection, and potentially faster turnaround for materials. Let me know if you need sourcing help or further cost breakdowns!

## Engineering Specifications

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No engineering description available.

## Technical Specifications

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You are seeking to procure luxury vinyl plank (LVP) flooring to cover a 750 square foot area, with a total of 54 such units, amounting to 40,500 square feet. The purpose is to install durable, aesthetically pleasing, and low-maintenance flooring suitable for residential or commercial use in Mobile, Alabama.

### Technical Specifications:

- **Material:** High-quality polyvinyl chloride (PVC) with a rigid core for stability.
- **Thickness:** Planks ranging from 4mm to 8mm; thicker planks offer enhanced durability and sound insulation.
- **Wear Layer:** A wear layer of 12 to 20 mils (0.3 to 0.5 mm) to ensure resistance to scratches and dents.
- **Finish:** Embossed or textured surface to mimic natural wood or stone appearances.
- **Dimensions:** Plank sizes typically around 6 to 9 inches in width and 36 to 48 inches in length.
- **Edge Style:** Micro-beveled edges for a realistic look.
- **Installation Method:** Click-lock or interlocking system for a floating floor installation.
- **Water Resistance:** 100% waterproof to withstand spills and humidity.
- **Underlayment:** Attached underlayment for sound reduction and added comfort.

## Compliance Standards

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With regular maintenance, LVP flooring can last between 10 to 20 years, depending on the quality of the product and the level of foot traffic.

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### Compliance Standards:

Ensure the LVP flooring meets or exceeds the following standards:

- **ASTM F1700:** Standard Specification for Solid Vinyl Floor Tile.
- **FloorScore Certification:** Indicates low VOC emissions for indoor air quality.
- **Slip Resistance:** Compliance with ADA requirements for floor slip resistance.

## Manufacturer Specifications

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- **Quality Control:** Manufacturers should implement ISO 9001 certified quality management systems.
- **Packaging:** Products must be packaged to prevent damage during transit and storage, with clear labeling for easy identification.
- **Inventory Management:** Manufacturers are required to use the provided QR code system for inventory tracking and management.