

SECTION 09 65 00 – RESILIENT FLOORING

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes **heavy-commercial luxury vinyl tile (LVT)** flooring, glue-down installation. B. Work includes:

1. LVT materials.
2. Adhesives.
3. Accessories and trim.
4. Substrate preparation.

1.2 REFERENCES

- A. ASTM F1700 – Standard Specification for Solid Vinyl Floor Tile.
- B. ASTM F710 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- C. ASTM F2170 – Relative Humidity Testing of Concrete.
- D. ASTM F1869 – Moisture Vapor Emission Rate (MVER).
- E. ASTM F970 – Static Load Limit.
- F. Manufacturer's published installation instructions and technical data.

1.3 SUBMITTALS

A. Product Data:

Manufacturer's technical data for **Codex 5609V** including construction, wear layer, dimensions, installation requirements.

B. Samples:

8" × 48" LVT samples in specified colors.

C. Maintenance Data:

Manufacturer's cleaning and maintenance instructions.

D. Warranty:

Submit manufacturer's **commercial limited warranty**.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications:

Shaw Philadelphia Commercial, Codex Collection.

B. Installer Qualifications:

Minimum 3 years experience installing commercial LVT.

C. Mock-Up:

Provide 4 sq ft sample installation for approval.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original packaging.

B. Store flat, protected from moisture, temperature extremes, and direct sunlight.

C. Acclimate flooring and adhesives minimum 48 hours at 65–85°F.

1.6 PROJECT CONDITIONS

A. Maintain ambient temperature 65–85°F before, during, and after installation.

B. Substrate moisture limits per manufacturer:

$RH \leq 85\%$ (ASTM F2170).

$MVER \leq 5 \text{ lbs/1000 sq ft/24 hr}$ (ASTM F1869).

C. Do not install over substrates with active moisture intrusion.

1.7 WARRANTY

A. Provide manufacturer's **commercial limited warranty** for Codex 5609V.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. **Shaw Philadelphia Commercial** Product Line: **Codex** Style Number: **5609V** Construction: **Heavy Commercial Luxury Vinyl Tile** pdmsview.shawinc.compdmsview.shawinc.com. PDMS - SpecViewer

2.2 MATERIALS

A. Luxury Vinyl Tile (LVT)

1. Class: ASTM F1700 **Class III, Type B (embossed)**.

pdmsview.shawinc.compdmsview.shawinc.com. PDMS - SpecViewer

2. Finish: **ExoGuard®**.

3. Dimensions:

- Nominal: **8 in × 48 in** (20.5 cm × 122 cm).

- Actual: **8.00 in × 48.00 in** (20.32 cm × 121.92 cm).

pdmsview.shawinc.compdmsview.shawinc.com. PDMS - SpecViewer

4. Thickness:

- Wear layer: **20 mil (0.51 mm)**.
- Overall: **2.5 mm (0.098 in)**. pdmsview.shawinc.com pdmsview.shawinc.com. PDMS - SpecViewer

5. Edge Profile: Square edge (dry-back).

6. Construction: Printed film vinyl tile, embossed texture.

7. Colors:

- Enchant 00363
- Enigma 00364
- Elemental 00495
- Mystical 00496
- Trance 00831
- Reverie 01132
- Vision 01133
- Mesmerize 02068
- Magnetic 05177
- Mirage 05178 Philadelphia Commercial

2.3 ADHESIVES

A. Manufacturer-recommended adhesives:

1. **Shaw 4200** (236MM 4G, 235MM 1G).
2. **Shaw S150** (5406V).
3. **Shaw 2200** (240MM 1G, 239MM 4G).
4. **Shaw 4252** (461MM). Adhesive list per manufacturer's technical sheet.

2.4 ACCESSORIES

A. Transition strips, reducers, and edge moldings compatible with LVT. B. Leveling/patch compounds approved for resilient flooring.

2.5 PERFORMANCE REQUIREMENTS

A. Static Load (ASTM F970):

- Heavy commercial rating (manufacturer classification).

B. Dimensional Stability:

- Per manufacturer's published data.

C. Slip Resistance:

- As required by ADA/IBC for interior commercial flooring.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Verify substrates comply with ASTM F710.
- B. Confirm moisture and pH within manufacturer limits.
- C. Do not proceed until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Clean substrate of dust, paint, curing compounds, and contaminants.
- B. Patch and level substrate to achieve smooth, flat surface.
- C. Prime substrate if required by adhesive manufacturer.

3.3 INSTALLATION

- A. Install per Shaw Codex installation instructions.
- B. Layout:

Recommended patterns: **Ashlar, Brick, Herringbone, Monolithic, Parquet, Stagger.**

- C. Apply adhesive uniformly; allow proper tack time.
- D. Roll flooring with 100-lb roller in both directions.
- E. Maintain expansion gaps at vertical surfaces as required.

3.4 CLEANING AND PROTECTION

- A. Remove adhesive residue immediately.
- B. Protect finished flooring from traffic for minimum 24 hours.
- C. Do not wet-clean for 5–7 days.

3.5 CLOSEOUT

- A. Deliver maintenance instructions to Owner.
- B. Provide extra materials:
 - 1. Minimum 2% of installed quantity, unopened cartons.