

SONATA® & SONATA® ELEMENTS

Section 096519.23 – LUXURY VINYL TILE

This document is intended as a suggested guide for editing your architectural guide specification.

American Bilrite will not be held liable for damages arising out of the use of any information or specifications found in this document. Make sure you have the latest publication for this specification.

Product selection and accuracy of all project specifications are the specifier's or designer's responsibility.

PART 1 – GENERAL INFORMATION

1.01 SUMMARY

- A. This section deals with resilient flooring found in the drawings and schedules of the contract that meet the requirements of this section.

1.02 RELATED SECTIONS

- A. Section 3 – Cement: not covered in this section.
- B. Section 6 – Wood and plastic: not covered in this section.
- C. Section 7 – Thermal and humidity protection: not covered in this section.
- D. Section 9 – Other sections containing information related to floor finishes: not covered in this section.

1.03 REFERENCES (INDUSTRY STANDARDS)

- A. ASTM F710: Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- B. ASTM E648: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- C. ASTM E662: Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- D. ASTM F1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- E. ASTM F2170: Determining Relative Humidity in Concrete Floor Slabs Using in Situ Probes.

1.04 ITEMS TO DELIVER

- A. Provide the product's Technical Specifications data sheet as well as all Installation and Maintenance Instructions.
- B. When required, supply floor drawings and installation plans.
- C. Supply a set of samples measuring at least 7.5 cm (3 in.) by 15 cm (6 in.) of the complete range of colors and finishes chosen for the project.
- D. When required, provide American Bilrite's attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:
 - 1. ASTM E648; Critical Radiant Flux: 0.45 watts/cm² or more.
 - 2. ASTM E662; Smoke Density: 450 or less.
- E. Provide American Bilrite's Warranty Certificate.

1.05 QUALITY ASSURANCE

- A. Have American Biltrite flooring installed by a qualified installer of this type of flooring.
- B. In accordance with the technical instructions in the Installation Instructions, use all the accessories recommended by American Biltrite when installing its flooring.
- C. Follow the instructions specified in the most recent version of American Biltrite's Installation Instructions.

1.06 DELIVERY, HANDLING, STORAGE

- A. Deliver the flooring to the installation site in American Biltrite's original packaging. Indicate the project name and handling instructions on the outside of the boxes.
- B. Advise the carrier of any damaged material and indicate it on the packing slip.
- C. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the palettes. The long-term storage temperature must be maintained between 18°C (65°F) and 29°C (85°F). Protect adhesive and flooring material from freezing, extreme heat and direct sun exposure.
- D. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and 72 hours after the installation by maintaining the room temperature between 18°C (65°F) and 29°C (85°F). The palettes should be unstacked 24 hours prior to use.
- E. Afterwards, maintain the room temperature between 13°C (55°F) and 38°C (100°F). Protect the material from direct sources of heat such as air vents and other types of heaters.
- F. Install the flooring after all other finishing work, including painting, have been completed.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. American Biltrite
200 Bank Street
Sherbrooke, QC, Canada, J1H 4K3
Telephone: 819-829-3300
Toll free: 1-800-437-8743
Internet: www.american-biltrite.com

2.02 RESILIENT FLOORING DESCRIPTION

Sonata is a full spread adhesive 2.5 mm thick commercial grade Luxury Vinyl Tile available in Wood plank designs, Stone visuals and Elements textile designs. The product construction consists of backing and core mid-layer made with recycled content that provide stability and indentation resistance, a high-resolution printed film protected by a 20-mil transparent wear layer and an aluminum oxide polyurethane surface treatment for ease of maintenance.

- A. Characteristics:
 - 1. Luxury Vinyl Tile: Sonata® and Sonata® Elements comply with ASTM F1700, Class III, Type A or B.
 - 2. Nominal thickness: 2.50 mm (0.098 in).
 - 3. Wear layer thickness 20-mil.
 - 4. Factory applied aluminium oxide polyurethane surface treatment.
 - 5. Meets ASTM F970 static load limit.
 - 6. Refer to the product's Technical Specifications data sheet for additional product specifications.
 - 7. Product is FloorScore® certified.
 - 8. Product is included in Luxury Vinyl Tile Industry wide EPD.
 - 9. This product was manufactured in a factory that has ISO 9001 and ISO 14001 certifications.

10. 10 years commercial warranty
11. Sizes, depending on the model selected:
 - 305 mm x 610 mm (12 in. x 24 in.),
 - 457 mm x 457 mm (18 in. x 18 in.),
 - 457 mm x 915 mm (18 in. x 36 in.),
 - 102 mm x 915 mm (4 in. x 36 in.),
 - 152 mm x 1,219 mm (6 in. x 48 in.),
 - 230 mm x 1,219 mm (9 in. x 48 in.).
12. Select color and pattern designs from Sonata Wood planks, Sonata Stone tiles, or Sonata Elements collections by indicating collection name (Sonata Wood, Sonata Stone, Sonata Elements) and the name and code of the color and pattern design selected.

2.03 ADHESIVES

- A. Use either American Biltrite's PS-30 or AD-610 adhesives. They cover up to 18.6 sq. m/3.8 liters (200 sq. ft./gallon) respectively when applied with the recommended notched trowel.
- B. AD-610 adhesive—must be used when it is known that the installations will be in an environment where the temperature will not be fully controlled (non-continuous HVAC).

2.04 OTHER MATERIAL

- A. Subfloor repairs: use a good-quality Portland cement-based compound that has a minimal resistance to compression of 246 kg/cm² (3,500 lbs/sq. in.) to fill, smooth or level subfloor imperfections.
- B. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment that has a minimal resistance to compression of 246 kg/cm² (3,500 lbs/sq. in.).

PART 3 – EXECUTION

3.01 SITE INSPECTION

- A. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound, and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of paint, varnish, adhesive, oil, grease, solvent, and other foreign substances, including treatment compounds, sealers and curing compounds that may adversely affect adhesion or alter the appearance or durability of the vinyl flooring.
- B. Verify the surface to ensure there is no powder, scaling, or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.
- C. Slabs that have been either using a curing agent or a sealer will have to be treated to ensure that the adhesion has not been impaired.
- D. Do not install on cement slabs that have been subjected to adhesive chemical abatement unless an approved remediation system was used afterwards.
- E. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.

3.02 SUBFLOOR PREPARATION

- A. Level all rough surfaces and fill cracks and marks with a Portland cement-based patching compound.
- B. The concrete surface must be flat to 3/16" for 10 feet or less.
- C. Mechanically remove all surface contaminants such as paint, oil, grease, varnish, adhesive as well as various other products such as treatment compounds.

- D. Measure the humidity and pH levels in the cement in compliance with the following standards before installation:
1. ASTM F1869, Anhydrous Calcium Chloride test for Moisture levels. The maximum allowable reading is:
 - 8 lbs/1,000 sq. ft./24 hours (3.63 kg/92.9 sq. m/24 hours) for the PS-30 and AD-610 adhesives.
 2. ASTM F2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 85% RH for PS-30 and AD-610.
 3. ASTM F710, pH levels (test procedure 5.3.1). The readings should be between 8 and 11.
 4. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).
- E. Ensure Moisture, Relative Humidity and pH tests have all been conducted and measurements meet manufacturer's recommendations.
- F. In case of doubt, test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Do the test using the specified flooring and recommended adhesive.

3.03 RESILIENT FLOORING INSTALLATION

- A. Install the flooring according to the latest version of American Biltrite's Installation Instructions. Use the tools, adhesives, trowel types and procedures recommended in the instructions.
- B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and 72 hours after the installation by maintaining the room temperature between 18°C (65°F) and 29°C (85°F). Afterwards, maintain the temperature between 13°C (55°F) and 38°C (100°F).

3.04 CLEANING AND PROTECTION

- A. Remove all excess adhesive immediately after installation as recommended in American Biltrite's Installation Instructions.
- B. Before allowing traffic after installation, consult and follow the recommendations in American Biltrite's Installation Instructions.
- C. Following installation and cleanup, if the work of all other trades has not yet been completed, protect the flooring by laying sheets of non-staining brown Kraft paper, and then a layer of plywood sheets (rolls of non-staining heavy cardboard material could also be used for protection).
- D. Follow the instructions in American Biltrite's Maintenance Instructions when performing initial and regular maintenance procedures.

END OF SECTION 096519.23

Please note that technical web site documents prevail.

