

PRODUCT SPECIFICATION SHEET

Escarpment Series

6mm SPC Rigid Core Vinyl Plank | 20 Mil Commercial-Grade Wear Layer | Välinge 5Gi Click

The Escarpment Series is a rigid stone-polymer composite plank built to FloorSense's own specification. A 4.5 mm high-density SPC core is paired with a 1.5 mm pre-attached acoustic EVA pad and finished with a 20 mil (0.5 mm) commercial-grade wear layer — roughly double the wear layer carried by most 6 mm vinyl on the Canadian market. The plank is 100% waterproof, dimensionally stable through temperature and humidity change, and rated for residential and light-commercial use.

Inside the Plank



- 1 BrandShield™ UV Topcoat**
Double-pass alumina, UV-cured. The layer you actually walk on, and the one that decides how the floor looks in year fifteen. Reinforced with high-concentration aluminum oxide for industry-leading resistance to scratches, scuffs, stains and household chemicals.
- 2 20 Mil Wear Layer**
0.5 mm of commercial-grade wear layer on a 6 mm plank — the thickness normally reserved for 8 mm and thicker product.
- 3 High-Definition Décor Film**
Authentic wood grain in a wood embossed finish, with a fine micro-bevel on all four sides. The bevel helps prevent lipping that can occur on square-edge boards.
- 4 4.5mm Rigid SPC Core**
High-density stone-polymer composite. Rigid rather than flexible, so it stays flat and dimensionally stable through temperature and humidity swings. 100% waterproof.

- 5

1.5mm Acoustic EVA Pad

Pre-attached to every plank. Softens impact underfoot and reduces walking noise at IIC 73. No separate underlayment is required.

Locking System

Välinge 5Gi — a 2G mechanical angle click along the length of the board, with Drop-Lock technology on the ends. The drop-lock ends allow the plank to be dropped into place and locked without sliding, giving a tighter, cleaner fit and a materially faster install. No glue is required.

Product Parameters

Product Name	FloorSense Escarpment Series
Construction	SPC (Stone Polymer Composite) rigid core, full-extruded
Total Thickness	6.0 mm — 4.5 mm rigid SPC core + 1.5 mm acoustic EVA pad
Wear Layer	20 mil (0.5 mm), commercial-grade
Plank Size	180 × 1220 mm (7" × 48")
Coverage per Carton	18.91 sq ft — 8 planks per carton
Surface Texture	Wood Embossed
Edge Profile	Micro-bevel on all four sides
Surface Finish	BrandShield™ double-pass UV-cured alumina topcoat
Locking System	Välinge 5Gi — 2G click on lengths, Drop-Lock on ends
Underlayment	1.5 mm acoustic EVA pad, pre-attached; no additional underlay required
Acoustic Rating	IIC 73
Installation Method	Floating (click) — on, above or below grade
Waterproof	100% waterproof plank — will not absorb, swell or delaminate
Colourways	Houndstooth · Kodiak · Canvas · Coastal · Cobblestone · Beachwood · Harbor Grey
Warranty	25-year residential · 10-year light commercial limited warranty

Technical Performance

Property	Standard	Result
Overall Thickness	EN ISO 24236	±0.15 mm
Wear Layer Thickness	EN ISO 24340	±0.05 mm
Dimensional Stability (heat)	EN ISO 24342	X 0.05% · Y 0.015%

Property	Standard	Result
Curling (heat)	EN 434	<0.2 mm
Peeling Strength	EN 431	>90 N (50 mm)
Locking Strength	EN ISO 24334	>120 N (50 mm)
Residual Indentation	EN ISO 24343-1	<0.1 mm
Castor Chair	ISO 4918	25,000 cycles, no visible damage
Slip Resistance	EN 13893	Class DS
Fire Resistance	EN 13501-1	Bfl-S1
Abrasion Resistance	EN 660	Group T
Stain & Chemical Resistance	EN ISO 26987	Class 0
Cigarette Burn	EN ISO 1399	Class 4
Colour Fastness	ISO 105-B02	≥Grade 6
Formaldehyde Emission	EN 717-3	0

Environmental & Indoor Air Quality

FloorScore® Certified	Registration SCS-FS-04914, valid through 31 March 2027. Tested to CDPH Standard Method v1.2 (§01350); TVOC ≤ 0.5 mg/m³.
Formaldehyde	0 — no detectable emission (EN 717-3)
Phthalates	No detectable regulated phthalates (SGS)
Heavy Metals	Meets ASTM F963 heavy-metal limits (SGS)
Manufacturing	CE marked · ISO 9001 · ISO 14001

Site Conditions & Subfloor

- Installation should be carried out by a professional flooring contractor or a highly skilled tradesperson. The contractor or installer is responsible for the entire installation process.
- A site condition inspection, external and internal, is required on every project.
- Store planks in a controlled environment between 10 °C and 30 °C. Temperatures after installation must also be maintained between 10 °C and 30 °C.
- The subfloor must be flat, level, dry and structurally sound, and fully cured before installation. On concrete, grind high spots and fill low spots with an appropriate levelling compound.
- Over chipboard or yellow tongue, sand or plane all joints flat. Over existing timber, lay the new floor at 90° to the existing boards for superior stability. Over existing tile, grout lines must fall within flatness requirements.
- Do not install over an existing floating floor.
- Ensure adequate ventilation and airflow beneath the substrate, and adequate drainage around the perimeter of the property, to prevent moisture build-up.

- Minimise exposure to direct sunlight. Prolonged direct sun may lead to discolouration; use blinds or curtains where possible.
- Always mix planks from several cartons and pallets to minimise batch and colour variation.
- Inspect all planks before installation. Do not install defective planks. Any plank that has been installed or cut is deemed accepted and will not be considered under a claim.

Underlayment

The Escarpment Series has a pre-installed 1.5 mm acoustic EVA backing. Additional underlay is not required and may negatively affect installation, performance and the locking system. Where specific acoustic requirements apply — multi-residential or multi-level commercial — a dense underlay such as cork or rubber matting up to 5 mm may be used. Confirm suitability with the acoustic supplier before installation.

Radiant Heat

Suitable for installation over appropriate hydronic subfloor heating, provided conditions are met. The system must be operated per its manufacturer's installation and operating guidelines. **Subfloor surface temperature must not exceed 27 °C.** No other heating system is covered under the Escarpment Series warranty.

Installation Summary

1. Begin laying left to right with the tongue side facing the wall, using spacers of at least 6 mm from the starting wall.
2. Drop each subsequent plank and press with a rubber mallet so the drop-lock ends seat fully. Run a hand across the joint to confirm the boards are flush and level. Striking the drop lock too hard may damage the underside of the locking system.
3. At the end of the first row, leave the expansion gap and measure the final board — it must be no shorter than 30 cm.
4. Start the second row with the offcut from the first, again no shorter than 30 cm. Stagger end joints randomly, no closer than 20 cm between rows.
5. Check constantly that boards are square, straight, fully locked and flush. After 2–3 rows, re-check expansion gaps — these rows are the foundation of the floor.
6. Continue the length of the room, maintaining expansion gaps and stagger.
7. Protect all exposed edges with appropriate trim or transition strips.
8. In wet areas, caulk all gaps with a water- and mould-resistant silicone sealer. Wet areas must be installed independently from the remainder of the floor.
9. Do not fasten mouldings, skirtings, trims, scotia or transition strips through the planks. No plank may be fixed to walls, subfloor or fixtures. Undercut door frames and architraves to allow movement. Remove all spacers on completion.
10. Where walls are not square or straight, scribe and cut the boards to the wall contour. Expansion gaps are required at all times.

Expansion

Expansion joints are required at all perimeters and fixtures — a minimum of 6 mm. Depending on layout, size and floor plan, additional expansion gaps may be required. Rooms exceeding 12 m in length or 10 m in width require additional transition trims or expansion joints to allow for movement in the building structure.

Care & Maintenance

- **Never use a steam mop.** Do not use bleach, ammonia, wax, abrasive pads or caustic cleaners.
- Sweep with a soft broom or static mop and vacuum regularly using a soft head to lift grit and abrasives.
- Mop with a slightly damp mop, warm water and a pH-neutral floor cleaner.

- Use breathable woven rugs at entry points and in high-traffic areas, together with external floor mats. Grit crushed underfoot causes the most surface wear. Clean mats and rugs frequently.
- Fit thick felt or rubber protectors to all furniture legs and bases, and check and replace them regularly. Never drag heavy furniture across the floor — use a trolley or appropriate equipment.
- Keep pets' nails trimmed. Be aware that stiletto heels and sharp objects may mark the floor.
- Remove spills as soon as they occur. Standing liquid may stain, or lead to moisture ingress beneath the floor.
- Minimise exposure to direct sunlight using blinds or curtains.

Warranty

Residential	25-year limited warranty
Light Commercial	10-year limited warranty (qualifying use)
Adamson-Installed Floors	5-year Installation Workmanship Warranty, plus 2-year Labour Reimbursement on approved material claims
Claims	Adamson Flooring Warranty Department · 905-643-4522 ext. 235 · service@floorsense.ca

Waterproof refers to the plank itself, which will not absorb, swell or delaminate. An installed floating floor is not a watertight seal — subfloor moisture, hydrostatic pressure and flooding are excluded. Specifications reflect current production and may be updated for future runs. Full installation and warranty documentation is available at [floorsense.ca](https://www.floorsense.ca).