ECF

Eco-Resilient Composite Flooring

The PVC-free upgrade to SPC and LVT for the Canadian market

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What makes ECF different



1 Surface
EIR brushed décor under a reinforced coating rated as a 22-mil (0.55 mm) wear-layer equivalent.

2 Core
Natural wood-fibre and mineral composite. No PVC, no PP, no plasticizers.

3 Click
Angle-Tap floating installation with a painted micro-bevel.

4 Backing
1 mm (0.04") cork, pre-attached, FSC-sourced. Comfort and sound control built in.

Use class 23 Heavy Domestic / 33 Heavy Commercial (EN 16511) · Lifetime limited residential / 15-year commercial warranty

Two collections, two formats



Canyon Oak



2799 2801 2802 2808

Thickness	0.28" (7 mm) incl. cork
Plank	7.80" × 47.83"
Also	Herringbone 4.72" × 23.62"
Finish	EIR brushed · painted bevel



Marrakesh



1851 1852 1854 1855

Thickness	0.35" (9 mm) incl. cork
Plank	9.29" × 60.04"
Look	Wide, long-board
Finish	EIR brushed · painted bevel

ECF vs. traditional SPC and LVT

Key spec	ECF	Typical SPC	Typical click LVT
Total thickness	**0.28" (7 mm) or 0.35" (9 mm), cork incl.**	0.20–0.26" (5–6.5 mm), pad incl.	0.16–0.20" (4–5 mm)
Wear layer	**22 mil equivalent (coated surface)**	12–20 mil	12–20 mil
Core	**Wood-fibre / mineral composite, PVC-free**	Limestone + PVC	Flexible PVC + plasticizers
Attached underlay	**1 mm cork (natural, FSC)**	IXPE or EVA foam	Usually none
Use class (EN 16511 / ISO 10874)	**23 domestic / 33 heavy commercial**	23 / 32–33	23 / 31–33
Abrasion (ISO 24338)	**≥ 5,000 cycles (≈ AC4 level)**	Rated by wear layer only	Rated by wear layer only
Dimensional stability (ISO 23999)	**≤ 0.15 %**	≈ 0.10–0.20 %	≤ 0.25 %
Fire (ASTM E648)	**Class 1 · EU Bfl-s1**	Class 1 typical	Class 1 typical
Indoor air / disclosure	**GREENGUARD Gold, IAC Gold, EPD + HPD**	FloorScore typical	FloorScore typical
Water	**Water-resistant surface & joints (ASTM F3261, NALFA)**	Waterproof core	Waterproof core
Shipping weight	**Light: up to 41 % more sq ft per container**	Heaviest	Heavy

SPC and LVT columns show indicative North American market ranges, not a specific competitor. ECF values from the manufacturer TDS (Sept. 2025) and third-party reports (TZÚ NB 1021, SGS).

Why it fits Canadian projects

Green building ready

Product EPD (2025–2030) and HPD support LEED v4 disclosure credits. GREENGUARD Gold and CDPH 01350 for low-emitting materials. PVC-free for healthy-materials specs.

Condo acoustics built in

Pre-attached cork, no separate underlay to buy. Lab impact improvement ΔIIC 20 / ΔLw 16 dB (reference values; confirm with the project assembly).

Big open floor plans

High dimensional stability for heated homes and dry winters. Manufacturer guideline: runs up to 65 ft (20 m), ~6,450 sq ft, without T-mouldings.*

Better landed cost

Lighter boards load 33–41 % more sq ft per container than 5+1 mm SPC, cutting freight cost per sq ft and transport emissions.

** Per manufacturer installation guidelines; installer must follow the current ECF installation guide.*

Tested performance

Class 1

Fire · ASTM E648

Critical heat flux 0.96 W/cm² (EN ISO 9239-1), EU class Bfl-s1

R10

Slip · DIN EN 16165

Shod ramp 12°, SGS. DCOF meets ANSI/NFSI B101.3

ND

Formaldehyde · EN 717-1

Not detected (< 0.08 mg/m³), class E1

25,000

Castor chair cycles

EN ISO 4918, no damage. Office and retail ready

63"

Big-ball impact

Drop height ≥ 1,600 mm (EN 13329) without cracking

33

Heavy commercial class

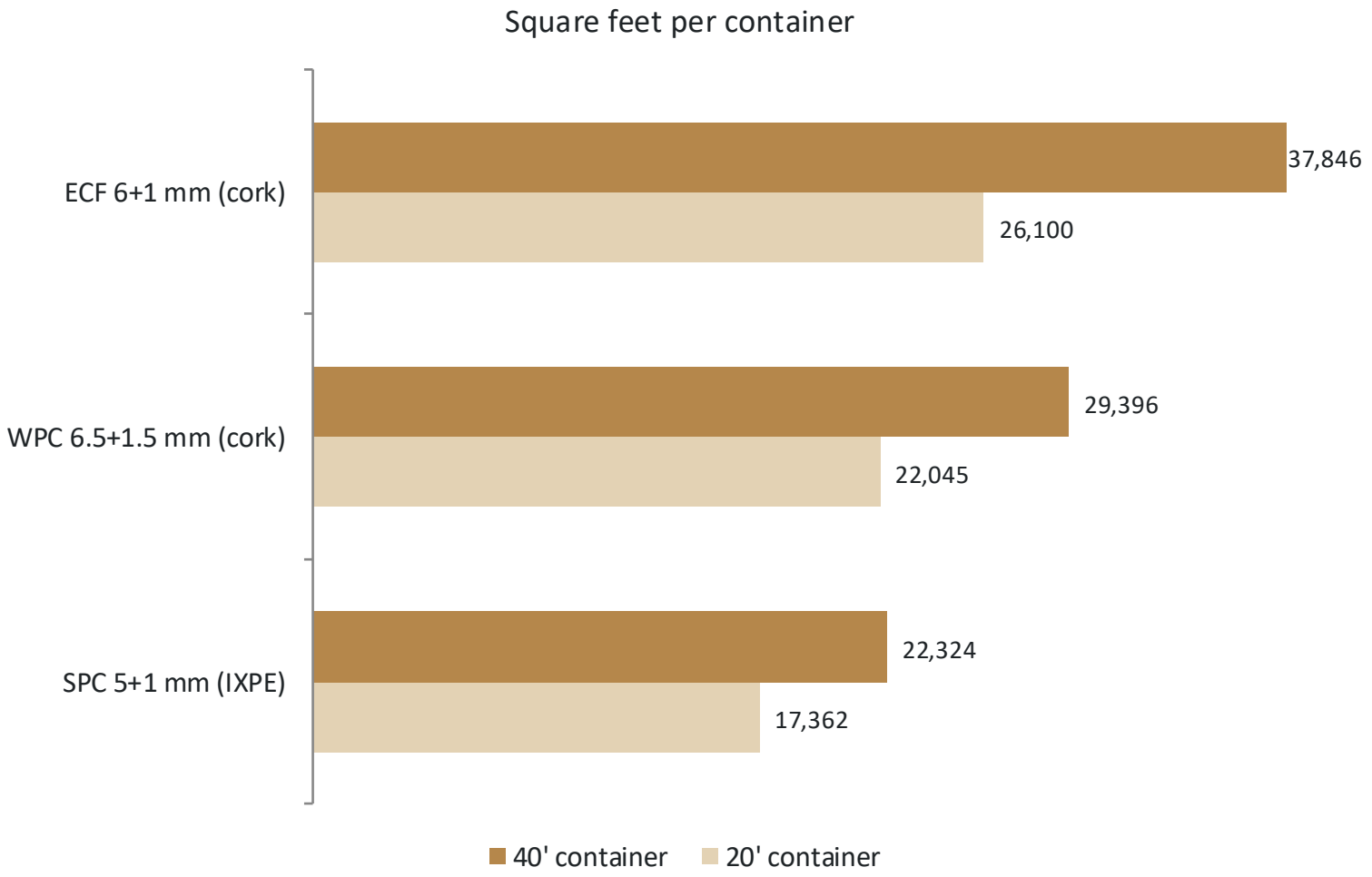
EN 16511, plus 15-year commercial warranty

Lab results by format

Test	Method	Requirement	Canyon Oak · 6+1 mm	Marrakesh · 8+1 mm
Water resistance & swelling	ASTM F3261 §8.8	≤ 5 % (with backing)	**1.5 %**	**1.0 %**
Micro-scratch · Proc. A	EN 16094	≤ MSR-A2	**MSR-A2**	**MSR-A2**
Micro-scratch · Proc. B	EN 16094	≤ MSR-B2	**MSR-B2**	**MSR-B2**
Wear resistance	ISO 24338 Proc. A	≥ 5,000 cycles	**8,000 cycles**	**8,000 cycles**
Dimensional stability	ISO 23999	≤ 0.15 %	**L −0.12 % · W −0.11 %**	**L −0.10 % · W −0.12 %**
Curling	ISO 23999	≤ 2 mm	**0.25 mm**	**0.20 mm**
Critical radiant flux	ASTM E648	Class 1 (≥ 0.45 W/cm²)	**Class 1 ***	**Class 1 ***
Smoke density	ASTM E662	< 450	**< 450 ***	**< 450 ***
Surface burning	ASTM E84 **	Class A	**Class A**	**Class A**
Slip resistance (SCOF)	ASTM D2047	≥ 0.5	**0.52**	**0.52**

** Tested on the ECF 8+2 mm specification. ** Tested to ASTM E84; CAN/ULC-S102.2 test not yet performed.*
Water resistance on 8+1 mm completed 28 Oct 2026 in the manufacturer's QA lab. Source: manufacturer internal test reports.

More floor per container



+41 %

more sq ft per 40' container vs. 5+1 mm SPC (+33 % on a 20')

Lower freight cost per sq ft on ocean and rail legs to Montréal, Toronto or Vancouver, and fewer containers for the same project.

Manufacturer load plans, 1.2 m (47") planks. Final figures depend on format and container payload.

Next steps

1. Samples, key-ring fans and showroom displays
2. Full technical pack: TDS, CE, EPD, HPD, GREENGUARD Gold
3. Project or stocking quote, delivered to your Canadian port

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