

SkyPaver™ Composite Pavers



<u>Item Description</u>	<u>Width / Length Options (all heights)</u>
Standard Pavers	
Paver Height: 1.98"	4" x 8"
Grid and Paver Height: 2.40"	
Resurfacing Pavers	
Paver Height: 1.23"	4" x 4"
Grid and Paver Height: 1.75"	8" x 8"

Product Information

Description:

The Firestone SkyPaver Composite Paver is engineered to serve as a functional, flat roof covering providing superior roof aesthetics, water drainage, and serviceability, while protecting the roof membrane below from roof traffic. SkyPaver Composite Pavers are composed of 95% recycled rubber tires and are 1/3 the weight of concrete pavers.

Method of Application:

1. Verify that all identified defects in the roof membrane have been repaired to the satisfaction of the roof membrane manufacturer.
2. All substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials which may damage the roofing membrane.
3. Install the Firestone SkyDrain Sheet (**W56GARDR05**) to fit the area(s) to be covered by SkyPaver Composite Pavers. Panels should be butted together, with both the top and bottom geocomposite fabrics overlapped at all ends and edges.
4. Begin laying grids starting from one corner. Lay out at least 10 grids to allow for sufficient room to work. Offset seams of the grids with seams of the drainage mat for best results.
5. Grids can be cut to fit using a mitre saw or jigsaw. If the ending grids are less than 4", cut off 4" or 8" of the grid before it, so the ending grids can be longer and will connect with overlapping pavers.
6. Bring stacks of pavers to the starting point. Empty pavers off of the grid.
7. Lay pavers using chosen pattern (e.g. herringbone, basket weave, running bond), mixing different colors if desired. At least one paver must overlap the adjacent grid in all directions, connecting the grids together. Continue laying out grids and pavers until all full pavers are installed.
8. Maintain a 2.0" minimum distance between SkyPavers and roof protrusions (e.g. HVAC equipment, roof drains, structural members, roof curbs, etc.).
9. Field cutting of pavers: Use a mitre saw or jigsaw. Install cut pavers last.
10. Adhering Pavers to grid: Desired in certain cases to mitigate wind uplift, around, drains, or when pavers have been cut. Use a solvent-based advanced polymer adhesive or a water-based adhesive designed for landscaping, place a 1/4" bead across the top ribs of the grid, set the paver in place and press firmly, leaving the paver in place for the duration of the adhesive cure time.

Storage:

- Keep materials in original packaging until time of installation.
- Store materials in a clean, dry location.
- If stored outdoors, the product must be covered with a non-translucent material.

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Clean-Up:

- Most surface spills and stains can be cleaned using household cleaners and warm water.
- Chemical spills (e.g. petroleum, paint) should be cleaned as soon as possible with an appropriate industrial cleaner and rinsed thoroughly with water. Chemical spills or stains left untreated over long periods of time may degrade the surface finish and integrity of the product and are not covered under warranty.
- Pavers can be cleaned using a pressure washer. Use a wide fan and keep tip far enough away from the surface to not score the product.
- Pretest cleaning products to ensure compatibility.

LEED® Information:

Post Consumer Recycled Content: Up to 95%

Post Industrial Recycled Content: 0%

Manufacturing Location: Scranton, PA

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

Applications

	<u>Standard Pavers</u>	<u>Resurfacing Pavers</u>
Flat Roofs:	✓	✓
Amenity Spaces:	✓	✓
Rooftop Patios	✓	
Rooftop Pathways	✓	✓
Rooftop Pool Areas:	✓	
Rooftop High Traffic Zone	✓	
Rooftop Impact Zones: Ice, Hail	✓	

* Pavers are not intended for use near, or under, in-ground fire pits. A minimum of four feet must be maintained between an open fire. Portable fire pits, charcoal and gas grills may be used on top of the pavers. We recommend using a fire proof mat to protect any potential scarring to the product.

Packaging and Coverage Rate

	<u>4" x 8" (8 per grid)</u>	<u>4" x 4" (12 per grid)</u>	<u>8" x 8" (4 per grid)</u>
Standard Pavers:			
Grids Per Pallet	126	90	126
Pavers Per Pallet	1008	1080	504
Area Per Pallet	224 ft ²	160 ft ²	224 ft ²
Resurfacing Pavers:			
Grids Per Pallet	180	126	180
Pavers Per Pallet	1440	1512	720
Area Per Pallet	320 ft ²	224 ft ²	224 ft ²

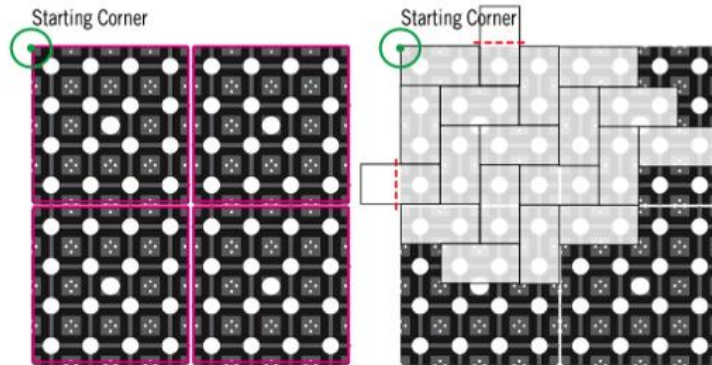
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Paver Patterns

Herringbone:

Most popular and easiest to install pattern. Pavers will interlock grids in both directions.

- Lay the installation grids as illustrated at left.
- Start laying pavers at the starting corner.

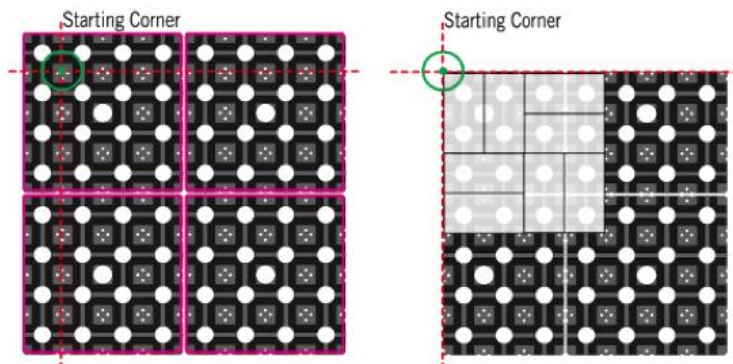


Basketweave:

Simplest installation method for a basketweave pattern, but will require extra installation grids.

- The initial paver must be laid 4" down and 4" over from the top left corner of the grid. This will shift the pattern over and assure at least one paver will connect two grids in both directions

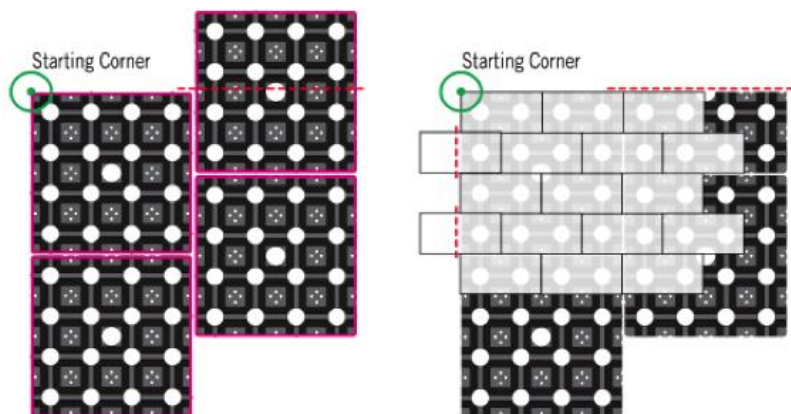
The leftover grid can either be trimmed off, or a 4" border can be used to fill in the extra space.



Running Bond:

This pattern requires staggering the grids to assure the pavers will connect them in both directions.

- The starting paver can be laid in the top left corner, but the next column of grids must be staggered halfway down.
- Each half of the cut grid can be used.

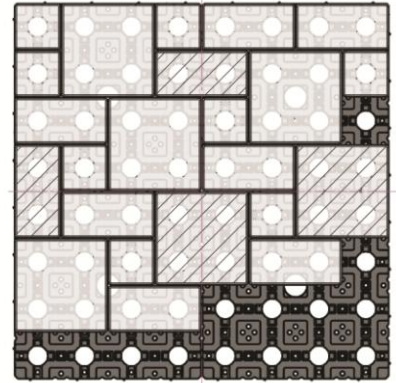
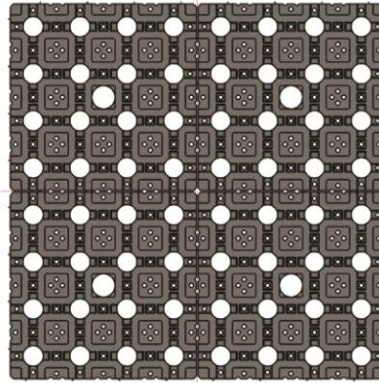


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8" x 8", 4" x 8", and 4" x 4" Paver Patterns

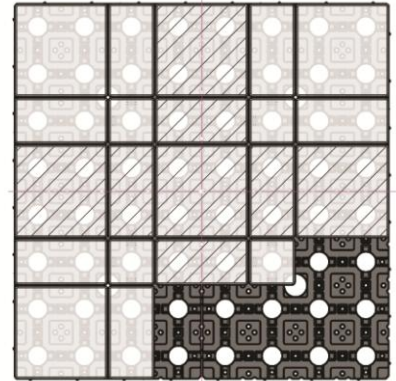
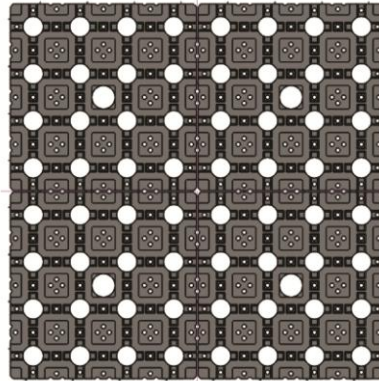
Plain Weave:

- 8 x 8 – 57%
- 4 x 8 – 28.6%
- 4 x 4 – 14.3%
- Lay the installation grids as illustrated at right.
- Start laying pavers at the starting corner.
- Compatible with 4" and 8" soldier course borders



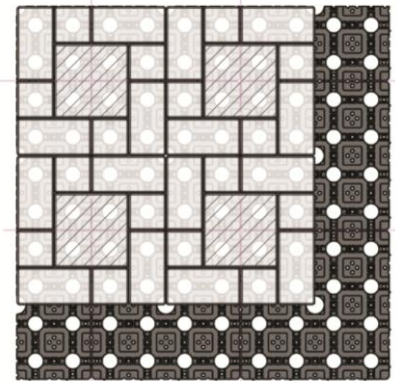
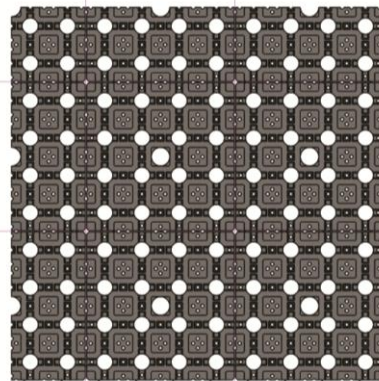
Block Lattice:

- 8 x 8 – 44.4%
- 4 x 8 – 44.4%
- 4 x 4 – 11.1%
- Lay the installation grids as illustrated at right.
- Start laying pavers at the starting corner.
- Perimeter 8" x 8" pavers can be replaced with 4" x 8" pavers to create an 8" soldier course border.



Soldiered:

- 8 x 8 – 25%
- 4 x 8 – 50%
- 4 x 4 – 25%
- Trim Grids as illustrated at right.
- All parts of quarter grids and half grids can be used.
- Lay the installation grids as illustrated at left.
- Start laying pavers at the starting corner.
- Adding 4" or 8" soldier course would eliminate the need to cut grids.



TECHNICAL INFORMATION SHEET

SkyPaver™ Composite Pavers

4" x 8" SkyPavers (8 Pavers Per Grid)

Color	Standard Pavers (1.98" H)	Resurfacing Pavers (1.23" H)
Ruby	W56GARPAVR2	W56GARPAVR
Chestnut	W56GARPAVB2	W56GARPAVB
Sage	W56GARPAVO2	W56GARPAVO
Ash*	W56GARPAVW2	W56GARPAVW
Lavender*	W56GARPAVV2	W56GARPAVLV

4" x 4" SkyPavers (16 Pavers Per Grid)

Color	Standard Pavers	Resurfacing Pavers
Ruby	W56GARHPVR	W56GARPAVR44
Chestnut	W56GARHPVC	W56GARPAVB44
Sage	W56GARHPVS	W56GARPAVO44
Ash*	W56GARHPVA	W56GARPAVW44
Lavender*	W56GARPAVL8	N/A

8" x 8" SkyPavers (4 Pavers Per Grid)

Color	Standard Pavers	Resurfacing Pavers
Ruby	W56GARPAVR8	W56GARPAVR88
Chestnut	W56GARPAVC8	W56GARPAVB88
Sage	W56GARPAVS8	W56GARPAVO88
Ash*	W56GARPAVA8	W56GARPAVW88
Lavender*	W56GARPAVL8	N/A

8" x 8" SkyPavers (4 Pavers Per Grid)

 <u>Ruby</u>	 <u>Chestnut</u>	 <u>Sage</u>
 <u>Ash</u>	 <u>Lavender</u>	

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Typical Properties

Property	Test Method	Value	
		Standard Pavers	Resurfacing Pavers
Paver Size (H)		1.98"	1.23"
Paver Size (W x L)		4" x 4" - 4" x 8" - 8" x 8" (pavers per grid: 16, 8, 4)	
Grid Size		16" x 16"	
Combined Height		2.40"	1.75"
Combined Weight		15.8 to 16.1 lb (9.38 lb/ft ²)	11.67 lb (6.4 lb/ft ²)
Area Per Unit		1.78 ft ²	
Compressive Strength	ASTM C140-09 "Bound" Configuration"	>2000 psi	Not Tested
Flexural Strength	ASTM C140-09 Ult Flex. Strength: Flexural Modulus:	695 psi (SD 35 psi) 3842 psi (SD 380 psi)	Not Tested
Coefficient of Friction:	ASTM C1028-07	Dry (static): 0.99 Wet (static): 0.67	
	ASTM D2394-05e1	Dry (static): 0.57 Dry (sliding): 0.46 Wet (static): 0.94 Wet (sliding): 0.86	
Coefficient of Thermal Expansion:		44*10 ⁻⁶ at 68 °F	
Flame Spread:	UL 94 Section 7 (material test)*	Horizontal Burning Rate: 2.0 in/min	
	ASTM E108-007 (tested at ½:12 slope)**	Spread of Flames: Class "C" Intermittent Flame: Class "C" Burning Brand: Class "C"	
Chemical Resistance:	No visual discoloration after 30 day exposure to household bleach or muriatic acid. No known discoloration due to exposure to road/deicing salt (sodium chloride), engine oil, grease and common household cleaners.		
Cold Water Absorption:	ASTM C67 Section 8 (material test)	Pass: <1% by mass Average Saturation Coefficient (after 1 hour boil): 0.05	
Freeze-Thaw Cycling:	ASTM C67 Section 9 (material test)	Pass: No visual signs of cracking, warping or crazing (freeze-thaw cycles: 52 times over 75 days)	

* NOTE: A chemical shall be considered a flammable solid if, when tested by the method described in 16 CFR 1500.44, it ignites and burns with a self-sustained flame at a rate greater than one-tenth of an inch per second (6.0 in/min) along its major axis. Testing via UL 94 Section 7, a flame spread rate has been observed that is roughly one-third the limit recognized by the Code of Federal Regulations.

Please contact Quality Building Services Technical Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.