

Slate & Shake Staggered Installation Guide



Pioneers in Sustainable Roofing Since 1993



Staggered Exposure Installation Instructions

A staggered exposure installation of EcoStar Slate and Shake can be used for a unique look on your roof. In a staggered pattern installation, the tile exposure alternates by 1". For example, Traditional Slate minimum exposure is 6". When installed in a staggered pattern, the exposure will alternate between 6" and 7".

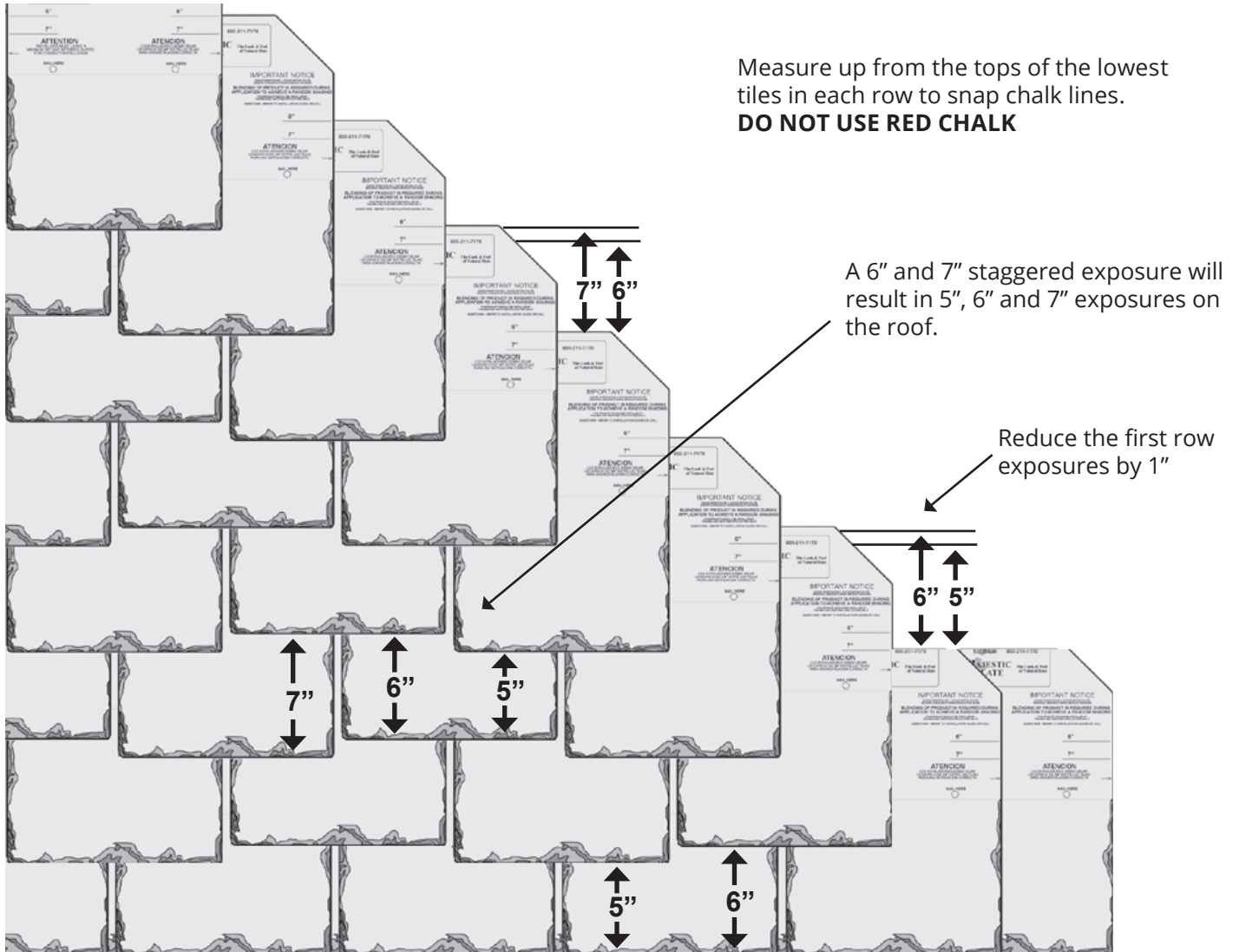
Installation Instructions:

- Install the starter row with a 3/4" overhang at the eaves, with a minimum 3/8" gap between tiles.
- Remember to bend each tile in a downward arc before installation. Note, cavity-back products do not need to be bent (Niagara Slate, Niagara Shake, Concrete Flat Tile, Island Groove Clay and Shake Plus).
- Install the first exposed row flush with the starter row, offsetting the tiles to cover the nails and gaps in the starter row.
- Install the first staggered row at 1" less than the exposures to be used on the roof. If you plan a 6" and 7" staggered exposure, start with 5" and 6" for the first staggered row. This will make the first row blend in with the rest of the roof. Failure to do this will make the first row appear to have a larger exposure than the rest of the roof.
- Measure up from the tops of the lowest tiles in the first staggered row to snap lines for the exposures that you intend to use. Snapping lines for each staggered row is recommended. Trying to use the exposure marks on the tiles can get confusing. **Do not use red chalk.**
- Snap lines for each row of tiles by measuring up from the tops of the lowest tiles in the previous row. Frequently take measurements from the eaves to the top of each row across the roof to make sure that the tiles are running parallel with the eaves.
- Refer to the attached illustrations for measurement guidelines.

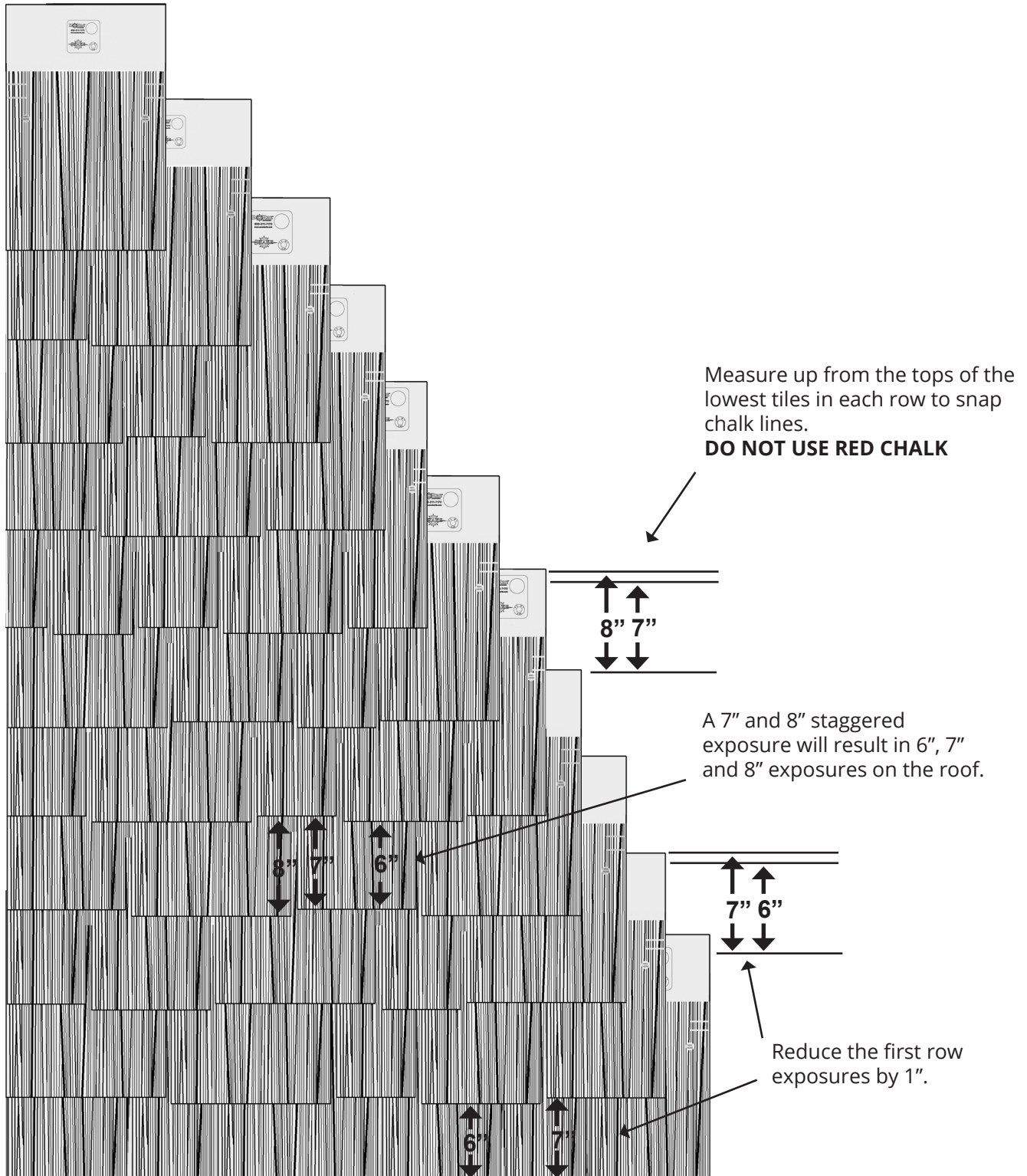
Important Notes About Staggered Installation

- The amount of tiles needed for a staggered installation will be the same as the amount used for the minimum exposure. For example: Traditional Slate installed at a 6" and 7" staggered exposure will take the same amount of tiles as a standard 6" exposure installation.
- Another example: Niagara Slate installed at a 9" and 10" staggered exposure will take the same amount of tiles as a standard 9" exposure installation.
- Staggered installations will vary in exposure by 2". Example: Traditional Slate installed at a 6" and 7" staggered exposure will result in 5", 6" and 7" exposures on the roof for an average of 6".
- Another example: Niagara Shake installed at a 9" and 10" staggered exposure will result in 8", 9" and 10" exposures on the roof for an average of 9".
- Any of the EcoStar product lines can be installed staggered except our Designer Series Chisel Point tiles. Chisel Point tiles are designed to be installed with a 6" exposure only.

Example of a Staggered Slate Installation:



Example of a Staggered Shake Installation:



EcoStar Staggered Tile Exposure Options by Profile (Slope Dependent)

Profiles	Slope			
	3/12 (14°)	4/12 (18.4°)	5/12 (22.6°)	6/12 (26.6°) or Greater
Traditional Slate (Class C): 12"w, 10"w, Random-Width Blend	5" & 6"	5" & 6"	5" & 6"	6" & 7"
Traditional Slate (Class A): 12"w, 10"w, Random-Width Blend	5" & 6"	6" & 7"	6" & 7"	6" & 7" or 7" & 8"
Beavertail and Beveled Edge (Class A and C)	5" & 6"	5" & 6"	5" & 6"	6" & 7"
Chisel Point (Class A and C)	n/a	n/a	n/a	n/a
Traditional Shake (Class C)	6" & 7"	6" & 7"	6" & 7"	6" & 7" or 7" & 8"
Traditional Shake (Class A), Shake Plus, Aspen Blend	6" & 7"	6" & 7" or 7" & 8"	6" & 7" or 7" & 8"	6" & 7" or 7" & 8" or 8" & 9"
Niagara Slate: 10"w, 12"w, 14"w, Random-Width Blend, Niagara Shake, Concrete Flat Tile, Island Groove Clay	8" & 9"	8" & 9"	8" & 9"	8" & 9" or 9" & 10"