



Quick Estimate Reference Guide

	Bundles Per Square					Nails	
	6" Exposure (152 mm)	7" Exposure (178 mm)	8" Exposure (203 mm)	9" Exposure (229 mm)	10" Exposure (254 mm)	Length	Per Bundle
EcoStar Slate							
Majestic Slate 12" (305 mm) Traditional, Beavertail, Beveled Edge	8	6.88				1 ½"	50
Majestic Slate 10" (254 mm) Traditional	9.24	7.96					
Majestic Slate Chisel Point	8						
Majestic Slate Random-Width Blend	7.4	6.35				1 ½"	72
Majestic Slate 60% - 12" (305 mm) Traditional 40% - 10" (254 mm) Traditional	4.8 3.7	4.13 3.18				1 ½"	50
Majestic Slate 70% - 12" (305 mm) Traditional 30% - 10" (254 mm) Traditional	5.6 2.77	4.8 2.4					
Empire Slate 12" (305 mm) Traditional	10	8.6	7.5			1 ½"	40
Empire Slate 10" (254 mm) Traditional	12	10.0	9				
Empire Slate Beavertail and Beveled Edge	10	8.6					
Empire Slate Chisel Point	10						
Empire Slate Random-Width Blend	8.9	7.6	6.7			1 ½"	60
Empire Slate 60% - 12" (305 mm) Traditional 40% - 10" (254 mm) Traditional	6.0 4.6	5.16 4.0	4.5 3.6			1 ½"	40
Empire Slate 70% - 12" (305 mm) Traditional 30% - 10" (254 mm) Traditional	7.0 3.45	6.0 3.0	5.25 2.7				
Niagara Slate 14" (356 mm)				11.13	10	1 ¾"	20
Niagara Slate 12" (305 mm)				12.86	11.63		
Niagara Slate 60% - 14" (356 mm) Traditional 40% - 12" (305 mm) Traditional				6.6 5.2	6.0 4.66		
Niagara Slate 70% - 14" (356 mm) Traditional 30% - 12" (305 mm) Traditional				7.7 3.9	7.0 3.5		
EcoStar Shake							
Seneca Shake	7.41	6.35	5.56			1 ½"	72
Empire Shake	7.41	6.35	5.56	4.95			
Empire Plus	11.11	9.5	8.34	7.4		1 ½" or 1 ¾"	48
Empire Shake & Shake Plus - 60% Shake/ 40% Plus	4.45 / 4.45	3.8 / 3.8	3.34 / 3.34	2.96 / 2.96		1 ½" or 1 ¾"	48
Empire Aspen Blend - 70% Shake/30% Plus	5.2 / 3.3	4.45 / 2.85	3.9 / 2.5	3.46 / 2.2			
Niagara Shake				7.5	6.76	1 ¾"	48
Slate/Shake Hip & Ridge	5 lineal ft/ bundle					2" or 2 ½"	20
Niagara Slate Hip & Ridge		7 lineal ft/ bundle	8 lineal ft/ bundle	9 lineal ft/ bundle		2 ½"	24

Notes:

- 2 ½" nails required for ridge caps over ridge vent.
- High wind installations require double the number of nails per bundle.
- Roofs with a 6/12 (26.6°), or greater, pitch can be installed at any of the listed exposures.
- This document is for estimating purposes only and does not include waste factor or starter row tile requirements. Actual usage will vary based upon roof configuration.



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EcoStar Gold Star Warranty Tile Exposure and Deck Substrate Requirements

Proper Tile Exposure	Slope			
	3/12 (14°)	4/12 (18.4°)	5/12 (22.6°)	6/12 (26.6°) & Greater
Majestic Slate				
Traditional 12" (305 mm), 10" (254 mm), Beavertail, Beveled Edge and Random-Width Blend	6" (152 mm)			6" (152 mm) 7" (178 mm)
Chisel Point	6" (152 mm)			
Empire Slate				
Traditional 12" (305 mm) and 10" (254 mm) and Random-Width Blend	6" (152 mm)	6" (152 mm) 7" (178 mm)		6" (152 mm) 7" (178 mm) 8" (203 mm)
Beavertail and Beveled Edge	6" (152 mm)			6" (152 mm) 7" (178 mm)
Chisel Point	6" (152 mm)			
Niagara Slate				
12" (305 mm) and 14" (356 mm)	9" (229 mm)	9" (229 mm)	9" (229 mm)	9" (229 mm) 10" (254 mm)
Seneca Shake				
	7" (178 mm)	7" (178 mm)	7" (178 mm)	7" (178 mm) 8" (203 mm)
Empire Shake & Shake Plus				
	7" (178 mm)	7" (178 mm) 8" (203 mm)	7" (178 mm) 8" (203 mm)	7" (178 mm) 8" (203 mm) 9" (229 mm)
Niagara Shake				
	9" (229 mm)	9" (229 mm)	9" (229 mm)	9" (229 mm) 10" (254 mm)

Deck Substrate Requirements for Gold Star Warranty:

- Nominal 1/2" (12.7 mm) or thicker plywood
- Nominal 7/16" (11.1 mm) or thicker OSB
- 3/4" (19.1 mm) or thicker tongue and groove or shiplap boards
- Other deck types considered on a case by case basis, contact EcoStar Technical Department