



## Quick Estimate Reference Guide

Roofs with a 6/12, or greater, pitch can be installed at any of the listed exposures.

EcoStar Slate Tiles	Bundles per square 6" exposure	Bundles per square 7" exposure	Bundles per square 8" exposure	Bundles per square 9" exposure	Bundles per square 10" exposure
Majestic Slate 12" Traditional, Beavertail, Beveled Edge	8	6.88	N/A		
Majestic Slate 10" Traditional	9.24	7.96	N/A		
Majestic Slate Chisel Point	8	N/A	N/A		
Majestic Slate 60% 12" Traditional 40% 10" Traditional	4.8 3.7	4.13 3.18	N/A		
Majestic Slate 70% 12" Traditional 30% 10" Traditional	5.6 2.77	4.8 2.4	N/A		
Empire Slate 12" Traditional, Beavertail, Beveled Edge	10	8.6	7.5 <i>Traditional Only</i>		
Empire Slate 10" Traditional	11.5	10.0	9		
Empire Slate Chisel Point	10	N/A	N/A		
Empire Slate 60% 12" Traditional 40% 10" Traditional	6.0 4.6	5.16 4.0	4.5 3.6		
Empire Slate 70% 12" Traditional 30% 10" Traditional	7.0 3.45	6.0 3.0	5.25 2.7		
Niagara Slate 14"				11	10
Niagara Slate 12"				13	11.64
Niagara Slate 60% 14" Traditional 40% 12" Traditional				6.6 5.2	6.0 4.66
Niagara Slate 70% 14" Traditional 30% 12" Traditional				7.7 3.9	7.0 3.5

**Note:** This document is for estimating purposes only and does not include any waste factor or starter row tile requirements. Actual usage will vary based upon roof configuration.



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	Bundles per square 6" Exposure (Optional)	Bundles per square 7" Exposure	Bundles per square 8" Exposure	Bundles per square 9" Exposure
Seneca Shake	7.41	6.35	5.56	
Empire Shake	7.41	6.35	5.56	4.95
Empire Plus	11.11	9.5	8.34	7.4
Empire 60% Shake 40% Plus	4.45 4.45	3.8 3.8	3.34 3.34	2.96 2.96
Empire 70% Shake 30% Plus	5.2 3.3	4.45 2.85	3.9 2.5	3.46 2.2

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## EcoStar Gold Star Warranty Tile Exposure and Deck Substrate Requirements

### Proper Tile Exposure

	Slope			
	3/12	4/12	5/12	6/12 & greater
Majestic Slate	6"	6"	6"	6" or 7"
Empire Slate	6"	6" or 7"	6" or 7"	6", 7", or 8"
Niagara Slate	9"	9"	9"	9" or 10"
Seneca Shake	7"	7"	7"	7" or 8"
Empire Shake & Shake Plus	7"	7" or 8"	7" or 8"	7", 8" or 9"

### Deck Substrate Requirements

Approved Deck Substrates for Gold Star Warranty Projects are:

- Nominal 1/2" or thicker plywood
- Nominal 7/16" or thicker OSB
- 3/4" or thicker tongue and groove or shiplap boards (individual plank decks are not acceptable)
- Other deck types considered on a case by case basis, contact EcoStar Technical Department