

Roofing Slate Guidelines USA

SLATE EXPOSURES AND HEADLAPS

When Using 3" and 4" Headlaps (showing Number of Slates per Square)

Slate Size (in.)	Exposure (3" H.L.)	(Slates/Square)	Exp. 4" Headlap	(Slates/Square)
6x10	3 1/2"	686	3"	800
7x10	3 1/2"	588	3"	686
8x10	3 1/2"	514	3"	600
6x12	4 1/2"	533	4"	600
7x12	4 1/2"	457	4"	515
8x12	4 1/2"	400	4"	450
9x12	4 1/2"	355	4"	400
10x12	4 1/2"	320	4"	360
7x14	5 1/2"	374	5"	412
8x14	5 1/2"	327	5"	360
9x14	5 1/2"	290	5"	320
10x14	5 1/2"	261	5"	288
12x14	5 1/2"	218	5"	240
8x16	6 1/2"	277	6"	300
9x16	6 1/2"	246	6"	256
10x16	6 1/2"	222	6"	230
12x16	6 1/2"	185	6"	192
9x18	7 1/2"	213	7"	221
10x18	7 1/2"	192	7"	199
11x18	7 1/2"	175	7"	187
12x18	7 1/2"	160	7"	171
10x20	8 1/2"	170	8"	180
11x20	8 1/2"	154	8"	164
12x20	8 1/2"	141	8"	150
14x20	8 1/2"	121	8"	129
11x22	9 1/2"	138	9"	146
12x22	9 1/2"	126	9"	134
14x22	9 1/2"	109	9"	115
12x24	10 1/2"	114	10"	120
14x24	10 1/2"	98	10"	103

SLATE GRADES

- A. ASTM C 406 Grade S1: Expected service life in excess of 75 years.
- B. ASTM C 406 Grade S2: Expected service life 40-75 years.
- C. ASTM C 406 Grade S3: Expected service life 20-40 years.

SLATE THICKNESSES, SIZES AND COLORS

A. Thicknesses

1. Standards; Nominal 3/16 inch (5 mm) to 1/4 inch (7 mm)
2. Quarters; Nominal 1/4 inch (7 mm) to 3/8 inch (10 mm)
3. Heavies; Nominal 3/8 inch (10 mm) to 1/2 inch (13 mm)
4. Extra Heavies; Nominal 1/2 inch (13 mm) to 3/4 inch (19 mm)

B. Standard Slate Sizes

1. 24"L X 14"W (610 mm X 356mm)
2. 24"L X 12"W (610 mm X 305 mm)
3. 22"L X 12"W (559 mm X 305 mm)
4. 22"L X 11"W (559 mm X 279 mm)
5. 20"L X 14"W (508 mm X 356 mm)
6. 20"L X 12"W (508 mm X 305 mm)
7. 20"L X 11"W (508 mm X 279 mm)
8. 20"L X 10"W (508 mm X 254 mm)
9. 18"L X 14"W (457 mm X 356 mm)
10. 18"L X 12"W (457 mm X 305 mm)
11. 18"L X 11"W (457 mm X 279 mm)
12. 18"L X 10"W (457 mm X 254 mm)
13. 18"L X 9"W (457 mm X 229 mm)
14. 16"L X 14"W (406 mm X 356 mm)
15. 16"L X 12"W (406 mm X 305 mm)
16. 16"L X 11"W (406 mm X 279 mm)
17. 16"L X 10"W (406 mm X 254 mm)
18. 16"L X 9"W (406 mm X 229 mm)
19. 16"L X 8"W (406 mm X 203 mm)
20. 14"L X 10" W (356 mm X 254 mm)
21. 14"L X 9"W (356 mm X 229 mm)
22. 14"L X 8"W (356 mm X 203 mm)
23. 14"L X 7"W (356 mm X 178 mm)
24. 12"L X 10"W (305 mm X 254 mm)
25. 12"L X 9"W (305 mm X 229 mm)
26. 12"L X 8"W (305 mm X 203 mm)
27. 12"L X 7"W (305 mm X 178 mm)
28. 12"L X 6"W (305 mm X 152 mm)

NORTH AMERICAN ROOFING SLATE COLORS

1. Unfading Black
2. Semi-Weathering Gray/Black
3. Unfading Gray
4. Semi-Weathering Gray
5. Unfading Purple
6. Semi-Weathering Purple
7. Unfading Mottled Green and Purple
8. Unfading Green
9. Semi-Weathering Green (Sea Green, Gray/Green)
10. Unfading Red

Source: Slate Roofing Contractors Association of North America, Inc. – General Installation Guidelines for Natural Quarried Roofing Slate