

## Installation Assembly Fasteners

Does not include frame section sub-assembly

Use nails\* for accessible places.

Use screws\*\* in hard to reach places.

\*Connector nails, 1 1/2", check diameter

\*\*Structural Connector Screws

Simpson Strong Tie

#10 x 1-1/2", check diameter

Box of 100, \$11.97

1-1/2" Angle Brackets

Simpson Strong Tie, Part No. A21z, 4 holes

3" Angle Brackets

Simpson Strong Tie, Part No. A23, 8 holes

Stud Base Brackets

Simpson Model # RTR, USP TTR-TZ

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Front

Stud Base brackets : 10

Stud bevel screws : 15, 6" hexhead

Window frame bracket, 10" x 10" x 1.25", 123 degrees

Attach window frame to piece 116 with six 4.5"  
flathead screws.

Attach ridge beam mount to piece 127 with two 3" angle  
brackets.

Left

Stud Base brackets : 20

Stud bevel screws : 20, 6" hexhead

Attach batton strip to inside of window frame to hold

bottom for installation.

Attach ridge beam mount to piece 234 with two 3" angle brackets.

Right

Stud Base brackets : 18

Stud bevel screws : 18, 6" hexhead

Attach batton strip to inside of window frame to hold bottom for installation.

Attach ridge beam mount to piece 331 with two 3" angle brackets.

Small Front

Hinge strap to connect 113 and 114, 10" x 10" x 1.25"

Stud Base brackets : 11

Stud bevel screws : 11, 6" hexhead

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Rafter Lift Legs

Left Back Rafter 2x6 Legs\*:

12 angle brackets and  
24 screws, 4 1/2"

Left Front Rafter 2x6 Legs\*:

12 angle brackets and  
24 screws, 4 1/2"

Valley Rafter Legs\*:

8 angle brackets and  
32 screws, 4 1/2"

Valley Rafter Peak Brackets

Metal Straps to connect valley rafter pairs at peak

Approximate length: 22"

4 Straps\* bent in middle to about 90 degrees.

6" FastenMaster Hex Head Screws:  
82 Valley Jack Rafters with  
Two screws per rafter: 164 screws

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Wood:

See drawings for rafter and beam lengths.  
Order manufactured lumber in 2 foot length increments.

Valley Rafters: solid,  $1 \frac{3}{4}$  x 14

Roof Rafters: I-beam,  $1 \frac{3}{4}$  x  $11 \frac{7}{8}$

Ridge: I-beam,  $2 \frac{5}{16}$  x  $9 \frac{1}{2}$

Joists above door:  
2x10 Lumber,  $9 \frac{3}{8}$  wide x 1.5 thick

I-beam web blocking material for ridge beams and  
rafters

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Dimensions:

Roof Area: 1341 ft<sup>2</sup>

Total Valley Length: 87 ft

Total Ridge Length: 98 ft

Roof Perimeter for rake and drip edge: 175 ft

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Stainless Chimney Pipe to Basement:

ID: 6", OD: 8" Length: 23' 5/8"

Base basket support

12 sections, 24" long

roof flashing

Cap

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Stainless Chimney Pipe for second floor:

ID: 6", OD: 8" Length: 6'

Base basket support

3 sections, 24" long

roof flashing

Cap