

Connectors:

Use nails* for accessible places.

Use screws** in hard to reach places.

1-1/2" Angle Brackets

Simpson Strong Tie, Part No. A21z, 4 holes

Left Gable

Attach stud* to existing plate**: 24

Right Gable

Attach stud* to existing plate**: 22

Small Front Gable

Attach stud* to existing plate**: 12

Left Back Rafter 2x4 Legs*:

12 angle brackets and

12 carriage bolts, 3/8 x ?" (check)

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

**Structural Connector Screws

Simpson Strong Tie

#10 x 1-1/2"

Box of 100, \$11.97

3" Angle Brackets

Simpson Strong Tie, Part No. A23, 8 holes

Left Front Rafter 2x6 Legs*:

12 angle brackets and

12 carriage bolts, 3/8 x ?" (check)

Valley Rafter Legs*:

8 angle brackets and
8 carriage bolts, 3/8 x ?" (check)

Valley Rafter Peak Brackets

Metal Straps

Maximum length: 22"

4 Straps* bent in middle to about 90 degrees.

Valley Jack Rafter Base Connectors

12" x 12" x 2" L-Shaped Plate

Simpson Strong Tie, Part No. 1212L

For 58 Valley Jack Rafters over 5 ft long:

58 L-plates*

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 3/4 x 14

Roof Rafters: I-beam, 1 3/4 x 11 7/8

Ridge: I-beam, 2 5/16 x 9 1/2

Joists above door:

2x10 Lumber, 9 3/8 wide x 1.5 thick

I-beam blocking material

for ridge beams and rafters

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Dimensions:

Roof Area: 1341 ft²

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:

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

Base basket support

12 sections, 24" long

roof flashing

Cap

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