

Bag 1.

Back-Sections 1, 2, 3, Above Kitchen

27, 4 1/2 flathead screws for sections 1,2,3 (done)

21, 10 inch hexHead screws for short posts

Bag 2.

Back-Window, Section 4

header studs: 4 screws 4.5"flatHead

HeaderTop: 4 screws 4.5"flatHead

HeaderTop ends: 2 single brackets

Window header: 6 screws 8"hexHead with 5/16 fender washers

Window sill: 2 screws 8"hexHead

Window sides: 10 screws 6"hexHead

below window: 6 screws 4.5"flatHead

Vertical joints between sections: 12 screws 3"flatHead

Back plywood peak.

outside: 8 screws, 1-5/8 with 3/16" fender washers

inside: 10 screws, 1-5/8 with 3/16" fender washers

note 1: Frame side studs (35,36) above header already screwed in place using four 3" flathead screws.

Don't put these four screws in bag.

note 2: Window outboard side studs (1abc,2abc) held together temporarily using ten 3" flathead screws. Replace these temporary screws with the 6" hexHead screws listed above.

Bag 3.

Back-Sections 5, 6, 7, Above Bedroom

23, 4 1/2 flathead screws for sections 5,6,7
1, single bracket for piece 14A

Back lift

11 supports, 6, 4 1/2 flathead screws per support
Total = 66 screws

Bag 4.

Front Wall

Front lift

11 supports, 6, 4 1/2 flathead screws per support
Total = 66 screws

Frame to rafter: ~10 screws 3"flatHead

Large front stud tops: 13 screws 6"hexHead

Piece 134: 3 screws: 4 1/2 flathead

Piece 134: 1 screw: 6"hexHead with 5/16 fender washer

Piece 134 to window frame right side: 8"hexHead
Piece 134 diagonal: 12 screws, 1 5/8" through plywood
with 3/16" fender washers
Small front stud tops: 13 screws 6"hexHead
Front door joists, 12 single brackets
Door cover: 20 screws, 3" flathead

Bag 5.
Front Window

window frame top: 2 shear plates to rafter
Window header: 6 screws 8"hexHead with 5/16 fender washers
Window sill: 2 screws 8"hexHead
Window sides: 8 screws 6"hexHead
Window bottom: 4 screws 4.5"flatHead

Bag 6.
Left Wall

Model part 236abc base assembly
left front, rafter lift support
6, 3" flathead screws
3, 4 1/2" flathead screws, piece 235

Model part 238abc base assembly
left back, rafter lift support

6, 3" flathead screws
3, 4 1/2" flathead screws, piece 237

Piece 238abc bottom fasteners: 4, 2 7/8 flathead screws
Frame to rafter: ~20 screws, 3"flatHead
Stud tops: 20 screws, 6"hexHead

Bag 7.
Left Window

window frame top: 2 shear plates to rafter
Window header: 6 screws 8"hexHead with 5/16 fender washers
Window sill: 2 screws 8"hexHead
Window sides: 10 screws 6"hexHead
below window: 2 screws 4.5"flatHead

Bag 8.
Right Wall

frame to rafter: ~20 screws, 3"flatHead
stud tops: 20 screws 6"hexHead
short posts: 13, 10 inch screws
rafters: 10, 1.75" wide variable pitch bottom brackets
Use plywood gusset plates if brackets not available.

Bag 9.

Right Window

window frame top: 2 shear plates to rafter
Window header: 6 screws 8"hexHead with 5/16 fender washers
Window sill: 2 screws 8"hexHead
Window sides: 10 screws 6"hexHead
below window: 2 screws 4.5"flatHead

Bag 10.

Ridge Beam

4 lift supports, 6, 4 1/2" flathead screws per support
Total = 24 screws

Ridge beam intersection

2 5/16 I-Beam hanger, 9 1/2" Top Flange, quantity=0
6" x 6" Tee connector, quantity=4

Bag 11.

Left ridge beam support post near intersection

3" angle connectors, post bottom, SST A23z quantity=2
6" hexHead screws, post side, quantity=12
Post top, 4 screws, 4 1/2" flatHead with 5/16 fender washers
Use double layer of 1/2" plywood for
ridge beam web filler.

Support post has a 3" wide fork on top.

Beam is 2 5/16" wide so there's a gap to the beam web.

Fill gap on both sides of ridge beam with plywood.

Fork Gap = $(3 - 2 \frac{5}{16})/2 = (11/16)/2 = \text{about } 3/8"$

Fork screw engagement = $4.5 - 1.5 - .375 = \text{about } 2.625"$

----- Individual Part Type Total Needed -----

3" Flathead Screws, Total:94

Bag2: 12

Bag4: 10 + 20

Bag6: 6 + 20 + 6

Bag8: 20

4 1/2" Flathead Screws, Total:237

Bag1: 27

Bag2: 4 + 4 + 6

Bag3: 23 + 66

Bag4: 66 + 3

Bag5: 4

Bag6: 6

Bag7: 2

Bag9: 2

Bag10: 24

6" Hexhead Screws, Total:105

Bag2: 10
Bag4: 13 + 1 + 13
Bag5: 8
Bag6: 20
Bag7: 10
Bag8: 20
Bag9: 10

8" Hexhead Screws, Total:33

Bag2: 6 + 2
Bag4: 1
Bag5: 6 + 2
Bag7: 6 + 2
Bag9: 6 + 2

10" Hexhead Screws, Total:34

Bag1: 21
Bag8: 13

5/16" Fender Washers, Total:25

For headers to prevent splitting.

Bag2: 6
Bag4: 1
Bag5: 6
Bag7: 6
Bag9: 6

3/16" Fender Washers, Total:30

Bag2: 8 + 10

Bag4: 12

Single Brackets, Total:122

back:5

large front:12

front door joists:12

small front:13

left gable:28

right gable:30

back lift:22

Double Brackets, Total:22

front lift:22

Available Inventory

1 5/8" screws: 139

2 7/8" Flathead screws:38

4 1/2" Flathead screws:100

6" Hexhead screws:50 + 7

8" Hexhead screws:8

10" Hexhead screws:24 + 1

Double Brackets:0

Single Brackets:21

5/16" Fender Washers:26
3/16" Fender Washers:42
#7, 1 1/2", Bracket Screws: 100 + 46

Additional Items Needed:

3" Flathead Screws, 94 - 38 = 56
4 1/2" Flathead Screws, 238 - 100 = 138
6" Hexhead Screws, 105 - 57 = 48
8" Hexhead Screws, 33 - 8 = 25
10" Hexhead Screws, 34 - 25 = 9
5/16" Fender Washers, 25 - 26 = -1 (extra)
3/16" Fender Washers, 30 - 42 = -12 (extra)

Double Brackets, 22 - 22 = 0
Single Brackets, 122(needed) - 106(installed)
- 21(available) = -5 (extra)

6" x 5" x 1-1/2" ridge beam Tee connectors, 4
(Simpson Strong Tie 66T 14-ga "T" Strap Tie, 8 holes each)

Right Side Rafters, 1.75 variable pitch bottom brackets, 10

Bracket Holes to fill:

Single brackets installed: 106 x 2 = 212
Single brackets not installed: 16 x 4 = 64 screws
Double brackets installed: 22 x 4 = 88

Tee straps:

4 x 8 = 32 screws

Total = 396

Think about this:

Strong-Drive 8d x 1-1/2 in. (too small)

Smooth-Shank Connector Nail (5 lb.) 8d, 750 nails

or Strong-Drive 10d x 1-1/2 in. (too large)

Smooth-Shank Connector Nail (5 lb.) 10d, 600 nails