StairLok®
STRUCTURAL STAIR SYSTEM

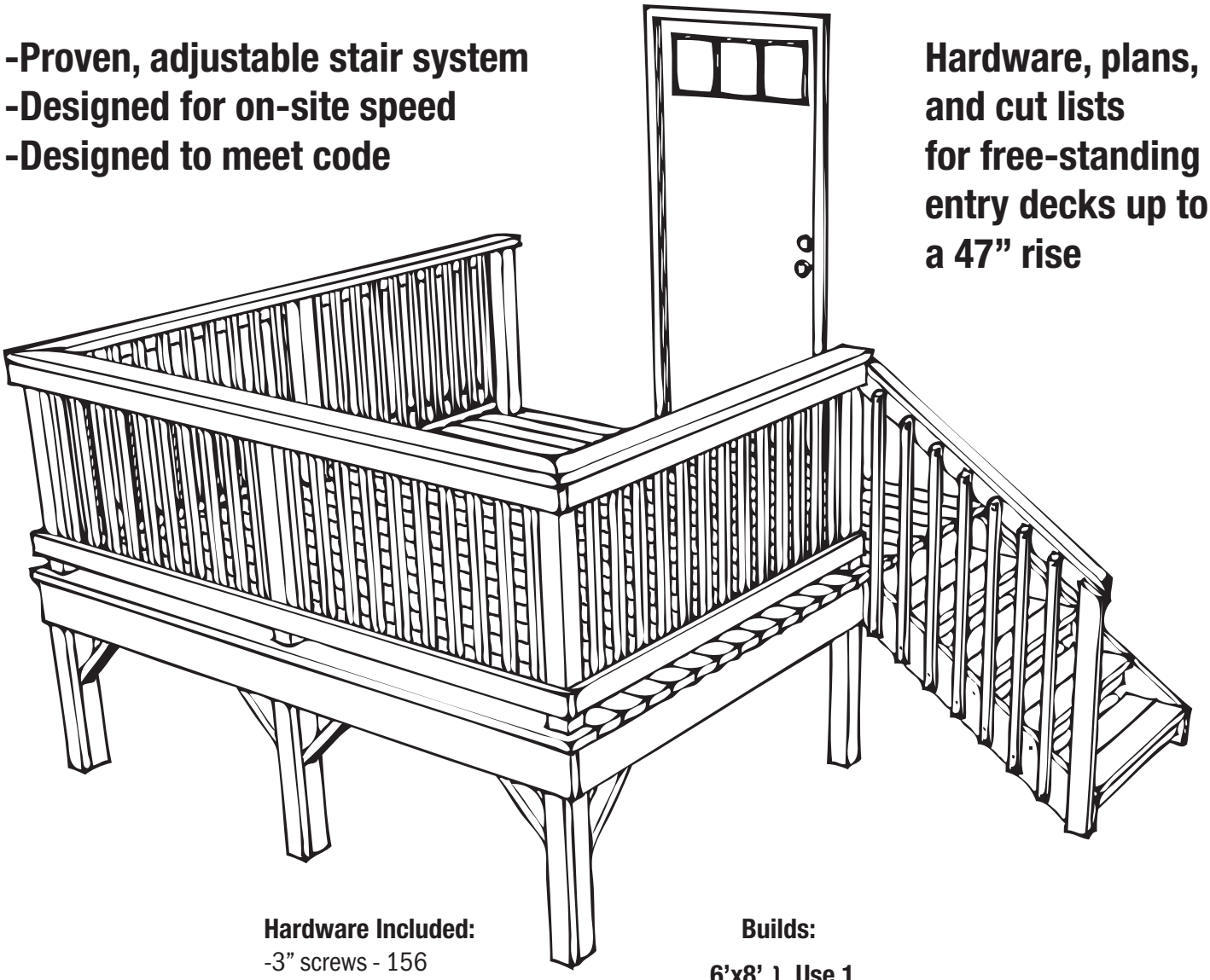
Redwood

Just-Add-Wood!

EXPANSION PACK

-Proven, adjustable stair system
-Designed for on-site speed
-Designed to meet code

Hardware, plans, and cut lists for free-standing entry decks up to a 47” rise



Hardware Included:
-3” screws - 156
-2½” screws - 48
-1¼” screws - 50
-4” construction screws - 14
-Joist hangers - 5

Companion to the Just-Add-Wood System

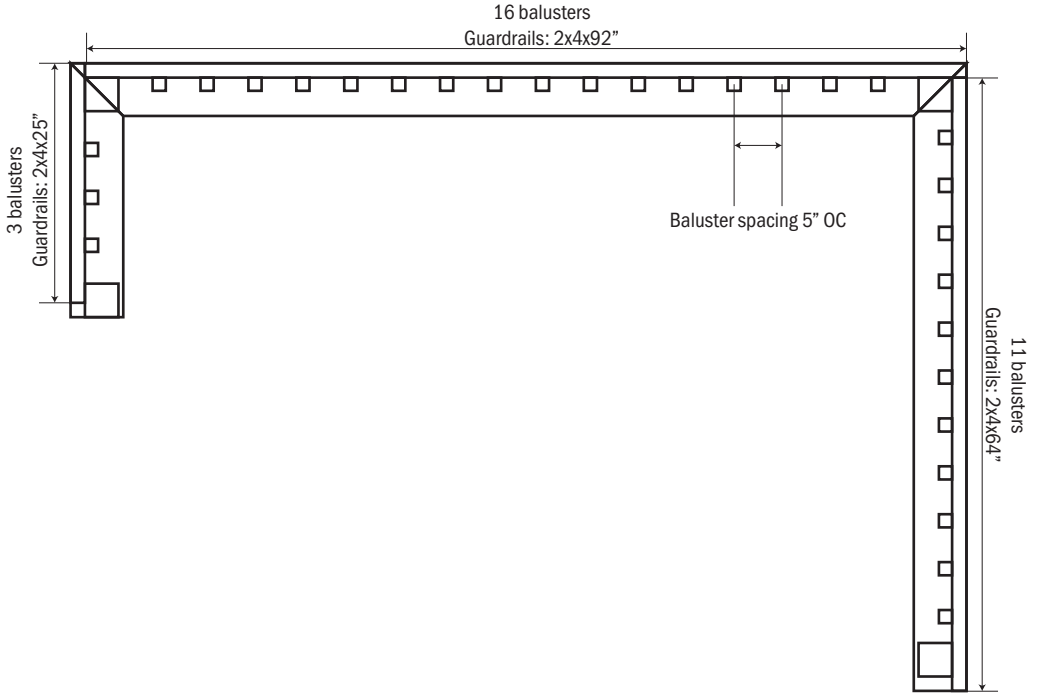
Builds:

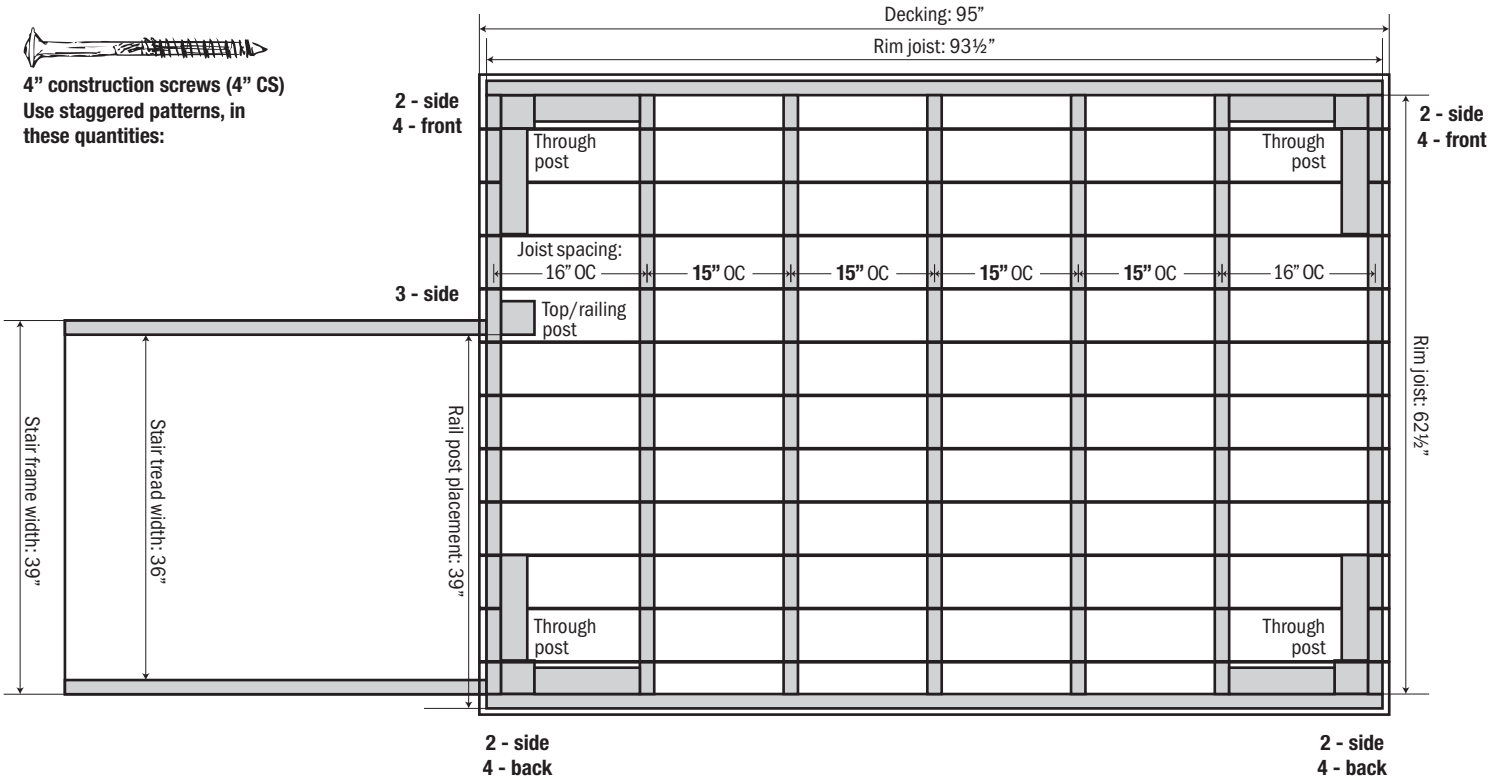
6’x8’	Use 1
8’x8’	Expansion Pack
8’x10’	Use 2
8’x12’	Expansion Packs
10’x10’	
10’x12’	

You “Just Add Wood!”

6x8 Deck: 65½" x 93½"

2





TOP VIEW

6x8 Deck: 65½" x 93½"

BUY LIST

Redwood	Qty.	Materials Cost
2x8x8'	2	$_____/ea. = _____
2x8x12'	1	$_____/ea. = _____
2x6x8'	15	$_____/ea. = _____
2x6x12'	2	$_____/ea. = _____
2x4x8'	6	$_____/ea. = _____
4x4x8'	4	$_____/ea. = _____
2x2x36" (OR 8')	30 10)	$_____/ea. = _____

SUBTOTAL: $ _____

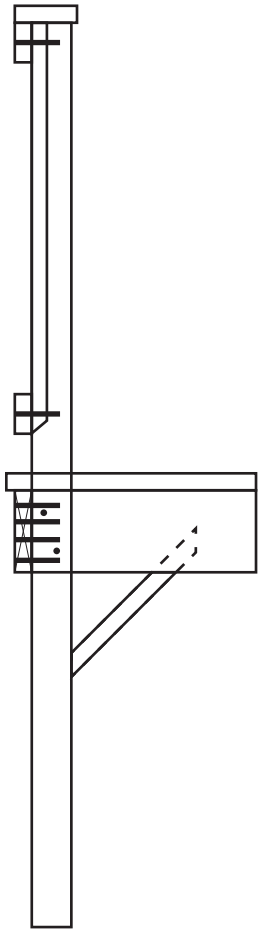
CUT LIST

Cut from	Cut to	Qty.	Use
2x8x8'	93½"	2	Rim joists
2x8x12'	62½"	2	Rim joists
2x6x8'	26½"+	1	Top of deck rail (45° cut)
	93½"+	1	Top of deck rail (45° cuts)
	65½"+	1	Top of deck rail (45° cut)
	95"	12	Decking
2x6x12'	62½"	5	Center joists
2x4x8'	25"	2	Guardrail
	92"	2	Guardrail
	64"	2	Guardrail
4x4x8'	Height*	3	Posts - through
	Height	1	Post - railing/top
	Height	1	Post - framing under deck
2x2x32" min.*		30	Deck rail balusters

DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	10	Joist hangers
	100	1¼" screws
Posts	27	4" construction screws
Braces	8	2x3 wood braces
	28	3" screws
Decking	168	3" screws
Guardrail	12	4" construction screws
Balusters	90	2½" screws
Top of deck rail	20	3" screws

(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)



***Post heights**

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

For through posts, add 37" for 32" balusters, which will produce a 37" rail (or add 42" for 36" balusters, which makes a 42" guardrail).

After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.

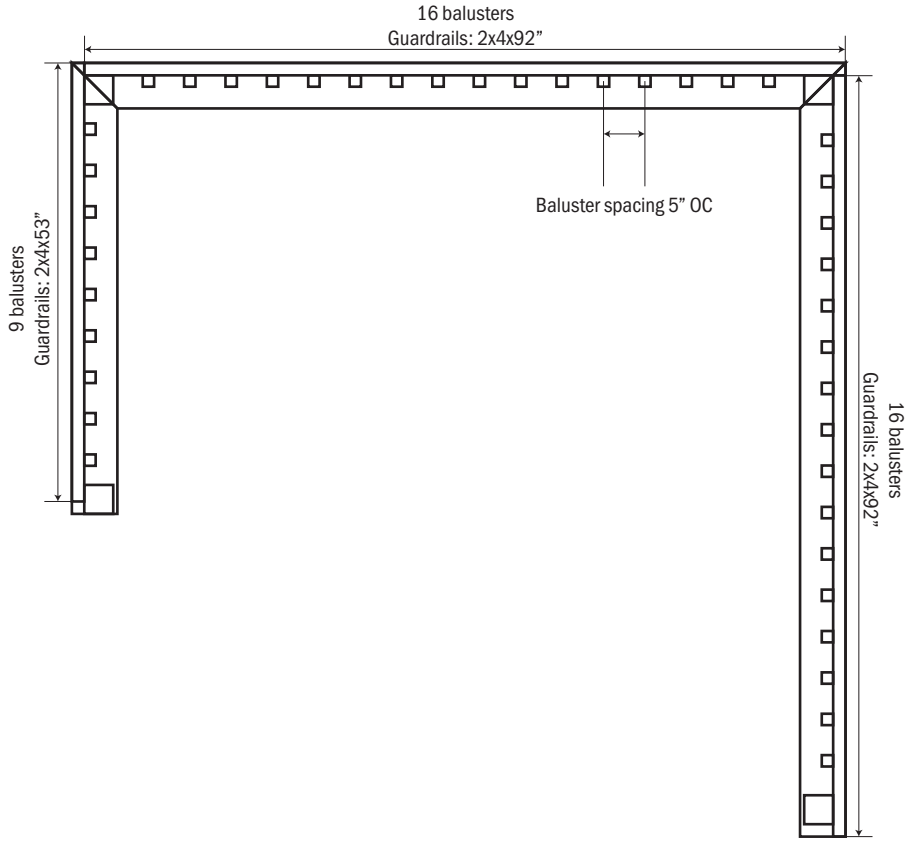
8x8 Deck: 93½" x 93½"

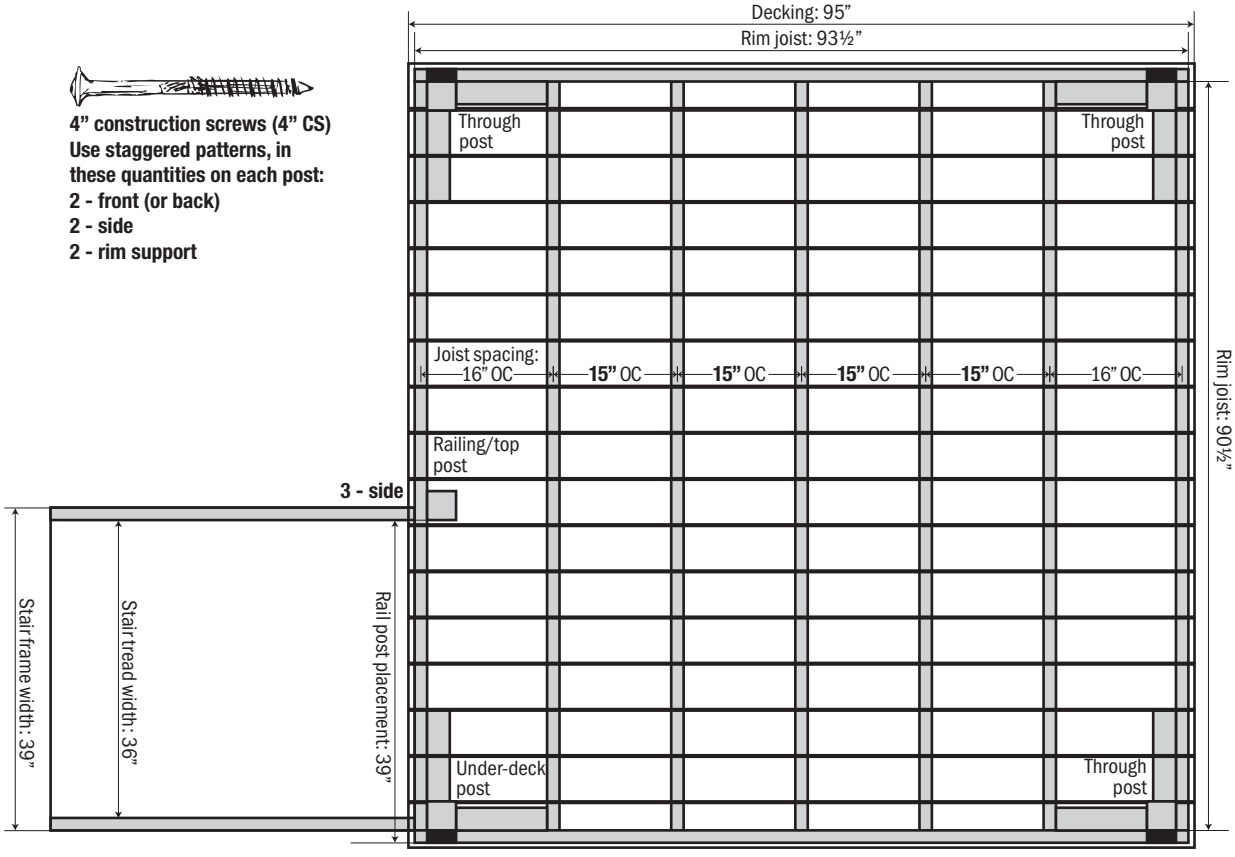
***Post heights**

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

For through posts, add 37" for 32" balusters, which will produce a 37" rail (or add 42" for 36" balusters, which makes a 42" guardrail).

After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.





TOP VIEW

8x8 Deck: 93½" x 93½"

BUY LIST

Redwood	Qty.	Materials Cost
2x10x8'	4	$_____/ea. = _____
(2x12x8' if 2x10 is unavailable)		
2x6x8'	25	$_____/ea. = _____
2x4x10'	1	$_____/ea. = _____
2x4x8'	6	$_____/ea. = _____
4x4x8'	4	$_____/ea. = _____
2x2x36"	41	$_____/ea. = _____
(OR 8'	14)	

SUBTOTAL: $ _____

CUT LIST

Cut from	Cut to	Qty.	Use
2x10x8'	93½"	2	Rim joists
	90½"	2	Rim joists
2x6x8'	54½"+	1	Top of deck rail (45º cut)
	93½"+	2	Top of deck rail (45º cuts)
	95"	17	Decking
	90½"	5	Center joists
2x4x10'	53"	2	Guardrail
2x4x8'	92"	4	Guardrail
	Height	4	Positive rim supports
4x4x8'	Height*	3	Posts - through
	Height	1	Post - railing/top
	Height	1	Post - framing under deck
2x2x32" min.*		41	Deck rail balusters

DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	10	Joist hangers
	100	1¼" screws
Posts	27	4" construction screws
Braces	8	2x3 wood braces
	28	3" screws
Decking	238	3" screws
Guardrail	12	4" construction screws
Balusters	123	2½" screws
Top of deck rail	25	3" screws

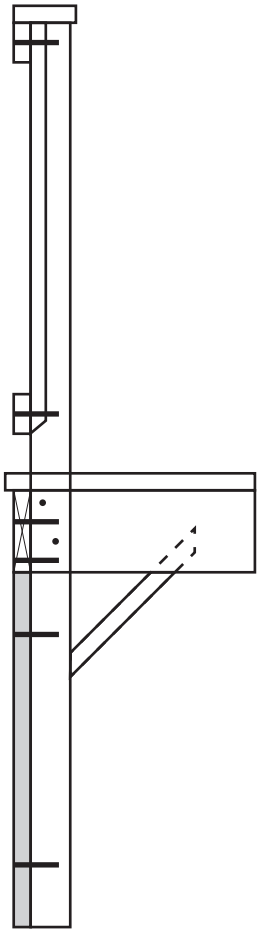
(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)

***2x4 Positive rim supports**

For larger free-standing decks, we recommend attaching a 2x4 that places the load of the rim joist onto the concrete (or improved) surface below. Attach a positive rim support to each post where there is a black rectangle on the top view.

4" construction screws:

On corner posts with positive rim supports, use 6 per post:
2 into post from the front, staggered
2 into post from the side, staggered
2 into positive rim support
On mid-span posts with positive rim supports, use 4 per post.



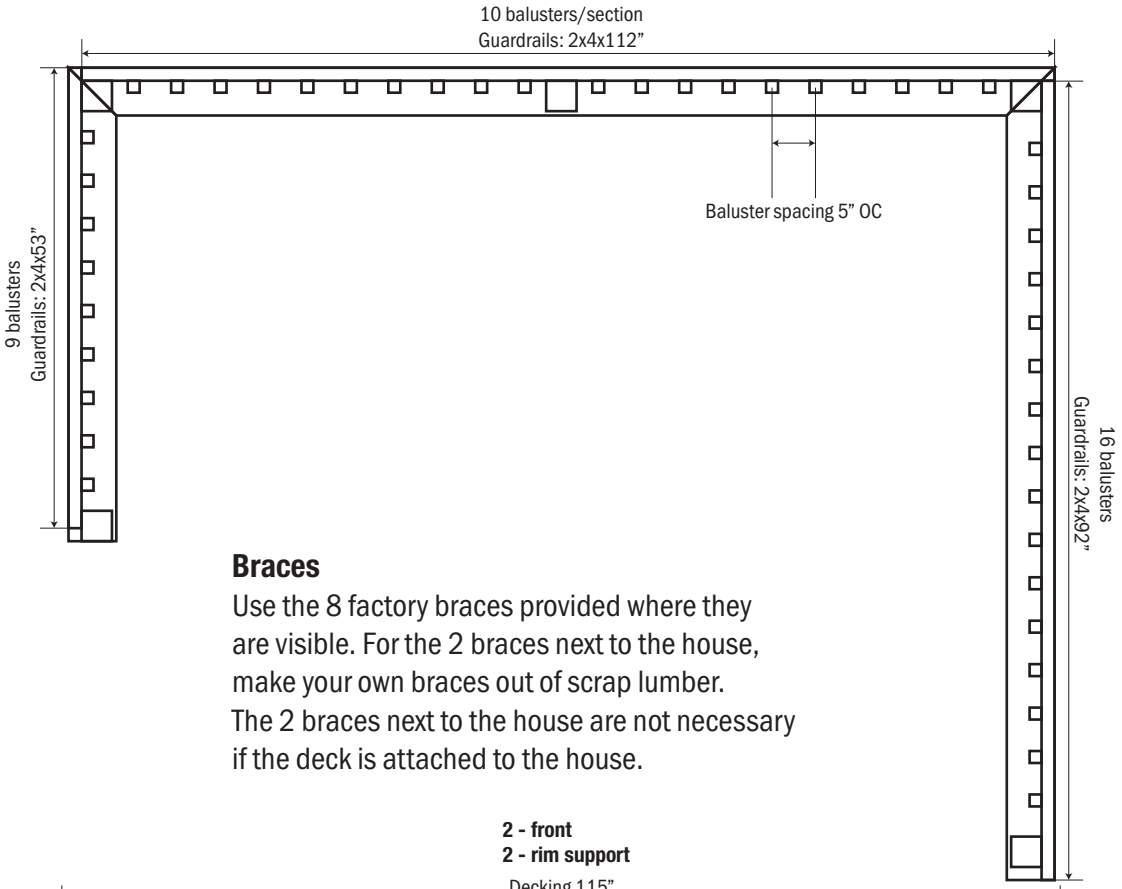
8x10 Deck: 93½” x 113½”

***Post heights**

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

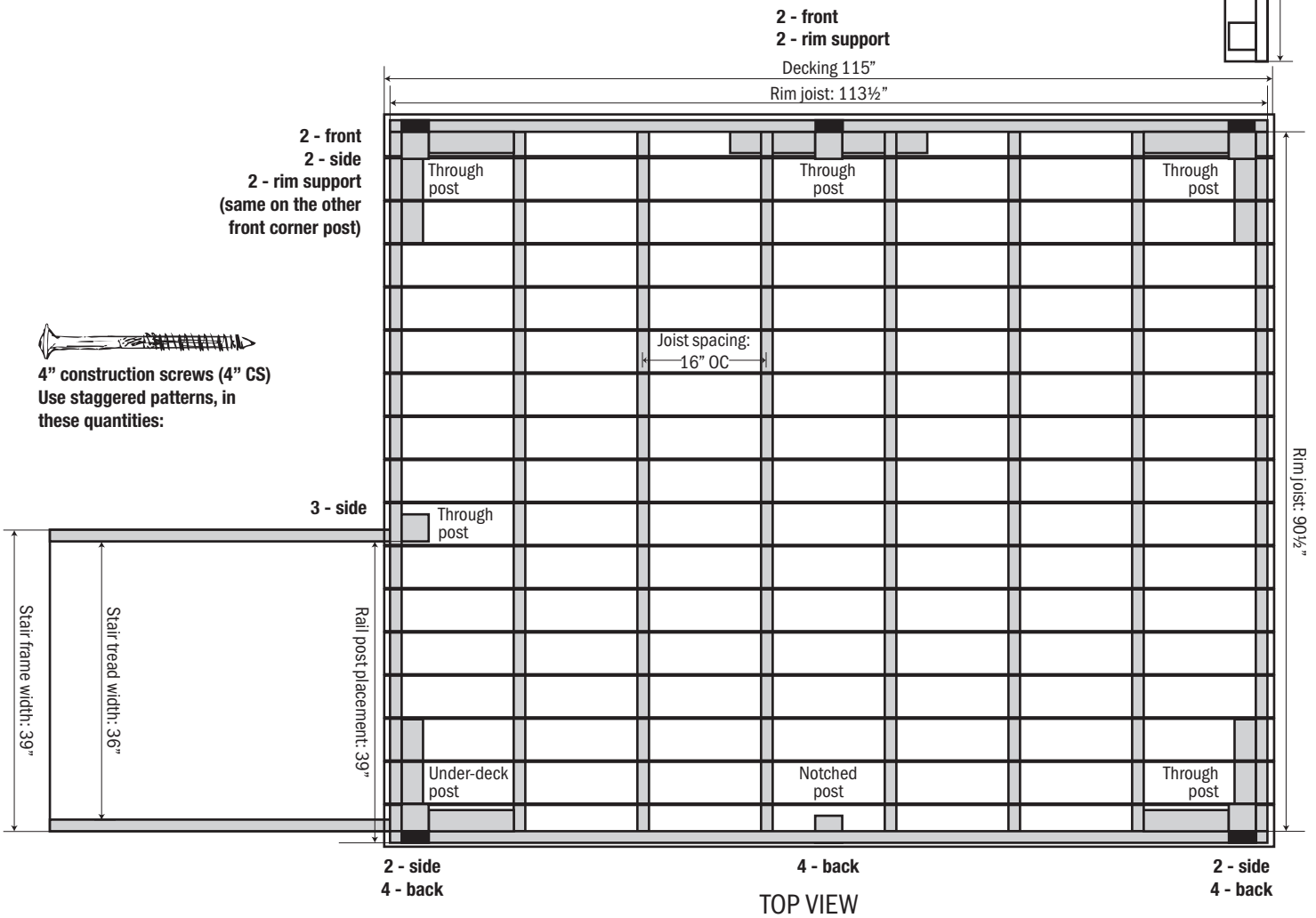
For through posts, add 37” for 32” balusters, which will produce a 37” rail (or add 42” for 36” balusters, which makes a 42” guardrail).

After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.



Braces

Use the 8 factory braces provided where they are visible. For the 2 braces next to the house, make your own braces out of scrap lumber. The 2 braces next to the house are not necessary if the deck is attached to the house.



TOP VIEW

8x10 Deck: 93½" x 113½"

BUY LIST

Redwood	Qty.	Materials Cost
2x8x8'	2	$_____/ea. = _____
2x8x10'	2	$_____/ea. = _____
2x6x8'	8	$_____/ea. = _____
2x6x10'	18	$_____/ea. = _____
2x4x8'	2	$_____/ea. = _____
2x4x10'	4	$_____/ea. = _____
4x4x8'	6	$_____/ea. = _____
2x2x36" (OR 8'	45 15)	$_____/ea. = _____

SUBTOTAL: $ _____

CUT LIST

Cut from	Cut to	Qty.	Use
2x8x8'	90½"	2	Rim joists
2x8x10'	113½"	2	Rim joists
2x6x8'	54½"+	1	Top of deck rail (45º cut)
	93½"+	1	Top of deck rail (45º cuts)
2x6x10'	113½"+	1	Top of deck rail (45º cut)
	115"	17	Decking
2x6x8'	90½"	6	Center joists
2x4x8'	92"	2	Guardrail
2x4x10'	112"	2	Guardrail
	53"	2	Guardrail
	Height*	3	Positive rim supports
4x4x8'	Height*	5	Posts - through
	Height	1	Post - framing under deck
	Height	1	Post - framing under deck
2x2x32" min.*		45	Deck rail balusters

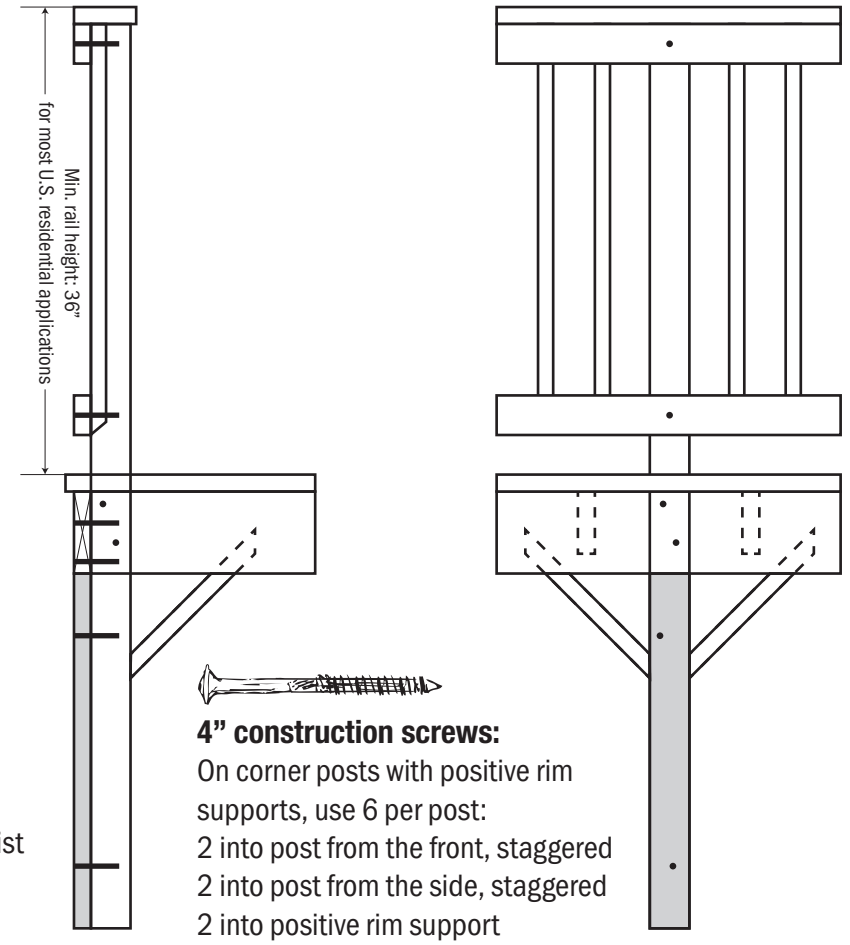
DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	12	Joist hangers
	120	1¼" screws
Posts	35	4" construction screws
Braces	8	2x3 wood braces
	34	3" screws
Decking	272	3" screws
Guardrail	14	4" construction screws
Balusters	135	2½" screws
Top of deck rail	26	3" screws

(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)

***2x4 Positive rim supports**

For larger free-standing decks, we recommend attaching a 2x4 that places the load of the rim joist onto the concrete (or improved) surface below. Attach a positive rim support to each post where there is a black rectangle on the top view.



4" construction screws:

On corner posts with positive rim supports, use 6 per post:
2 into post from the front, staggered
2 into post from the side, staggered
2 into positive rim support
On mid-span posts with positive rim supports, use 4 per post.

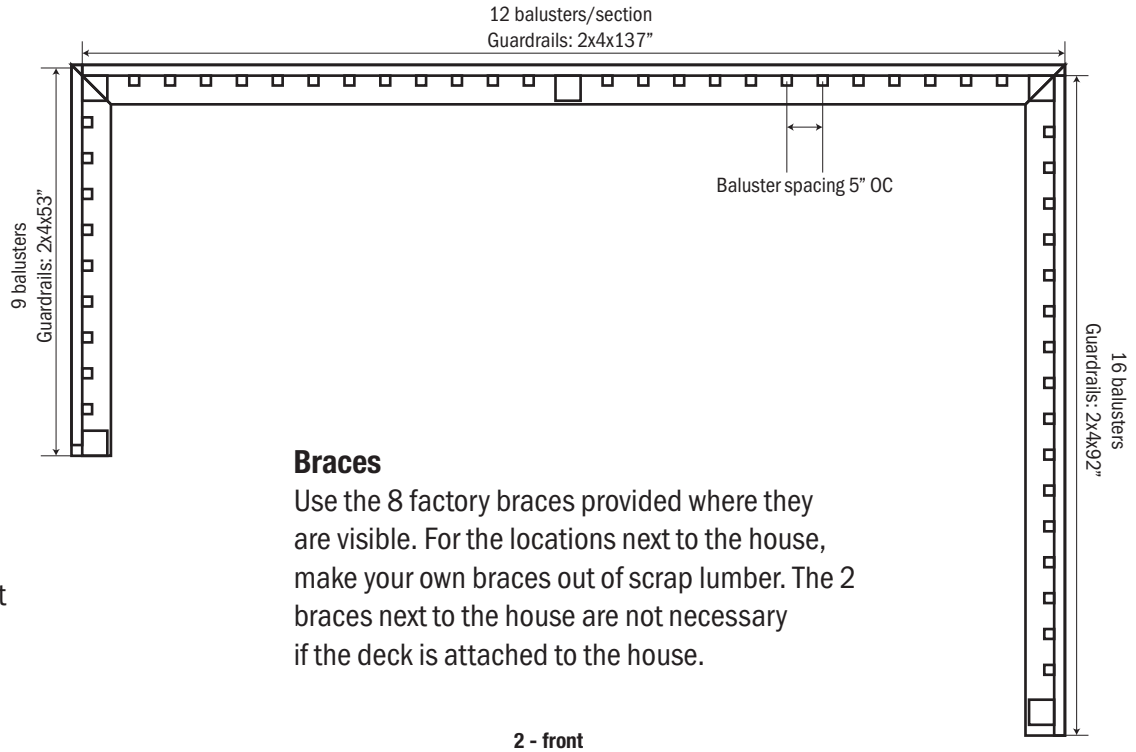
8x12 Deck: 93½” x 138½”

***Post heights**

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

For through posts, add 37” for 32” balusters, which will produce a 37” rail (or add 42” for 36” balusters, which makes a 42” guardrail).

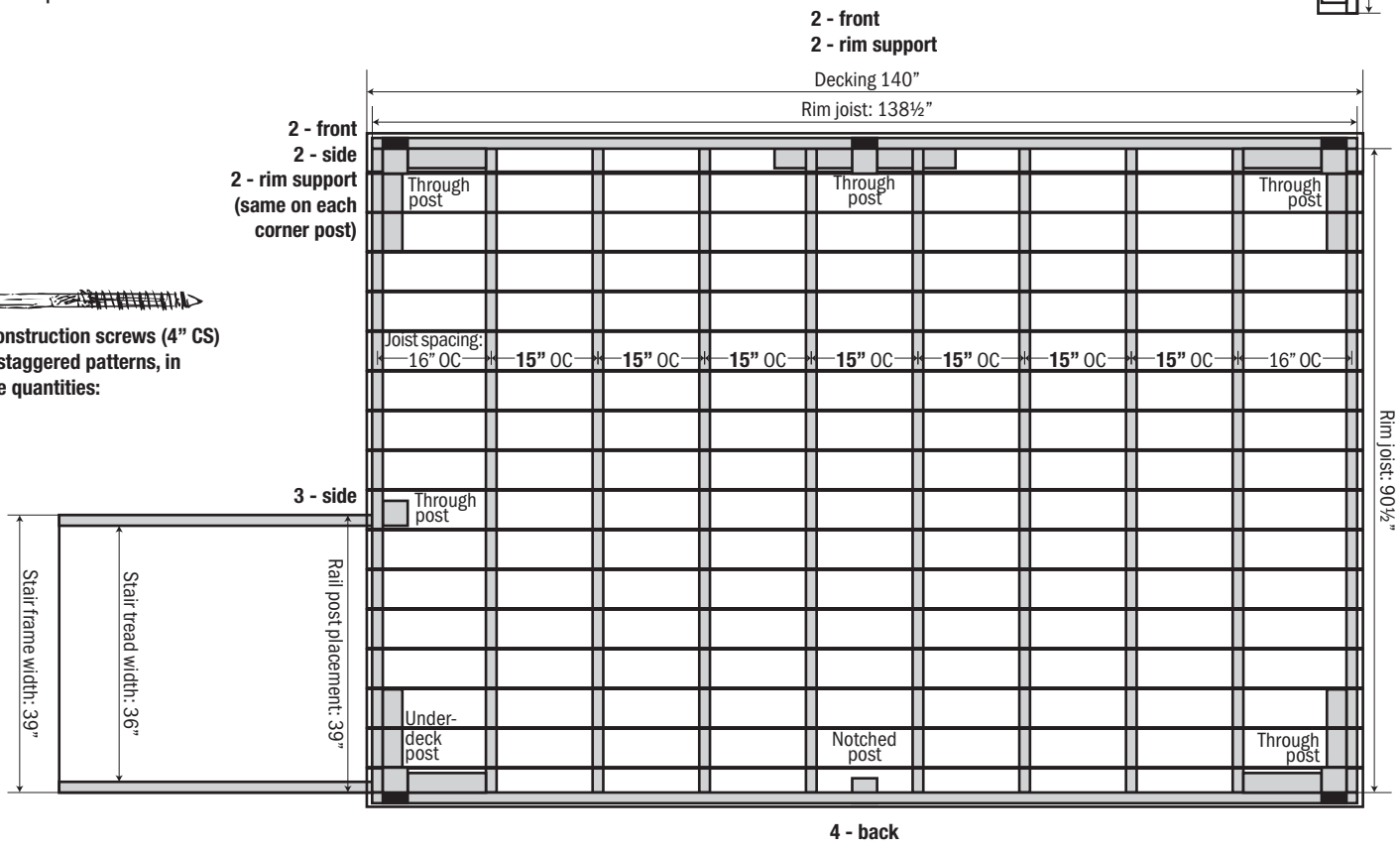
After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.



Braces

Use the 8 factory braces provided where they are visible. For the locations next to the house, make your own braces out of scrap lumber. The 2 braces next to the house are not necessary if the deck is attached to the house.

4” construction screws (4” CS)
Use staggered patterns, in these quantities:



TOP VIEW

8x12 Deck: 93½" x 138½"

BUY LIST

Redwood	Qty.	Materials Cost
2x8x8'	2	$_____/ea. = _____
2x8x12'	2	$_____/ea. = _____
2x6x8'	10	$_____/ea. = _____
2x6x12'	18	$_____/ea. = _____
2x4x10'	3	$_____/ea. = _____
2x4x12'	2	$_____/ea. = _____
2x4x8'	2	$_____/ea. = _____
4x4x8'	6	$_____/ea. = _____
2x2x36" (OR 8'	49 17)	$_____/ea. = _____

SUBTOTAL: $ _____

CUT LIST

Cut from	Cut to	Qty.	Use
2x8x8'	90½"	2	Rim joists
2x8x12'	138½"	2	Rim joists
2x6x8'	54½"+	1	Top of deck rail (45º cut)
	93½"+	1	Top of deck rail (45º cuts)
2x6x12'	138½"+	1	Top of deck rail (45º cut)
	140"	17	Decking
2x6x8'	90½"	8	Center joists
2x4x10'	53"	2	Guardrail
2x4x12'	137"	2	Guardrail
2x4x8'	92"	2	Guardrail
2x4x10'	Height	5	Positive rim supports
4x4x8'	Height*	5	Posts - through
	Height	1	Post - framing under deck
	Height	1	Post - framing under deck
2x2x32" min.*		49	Deck rail balusters

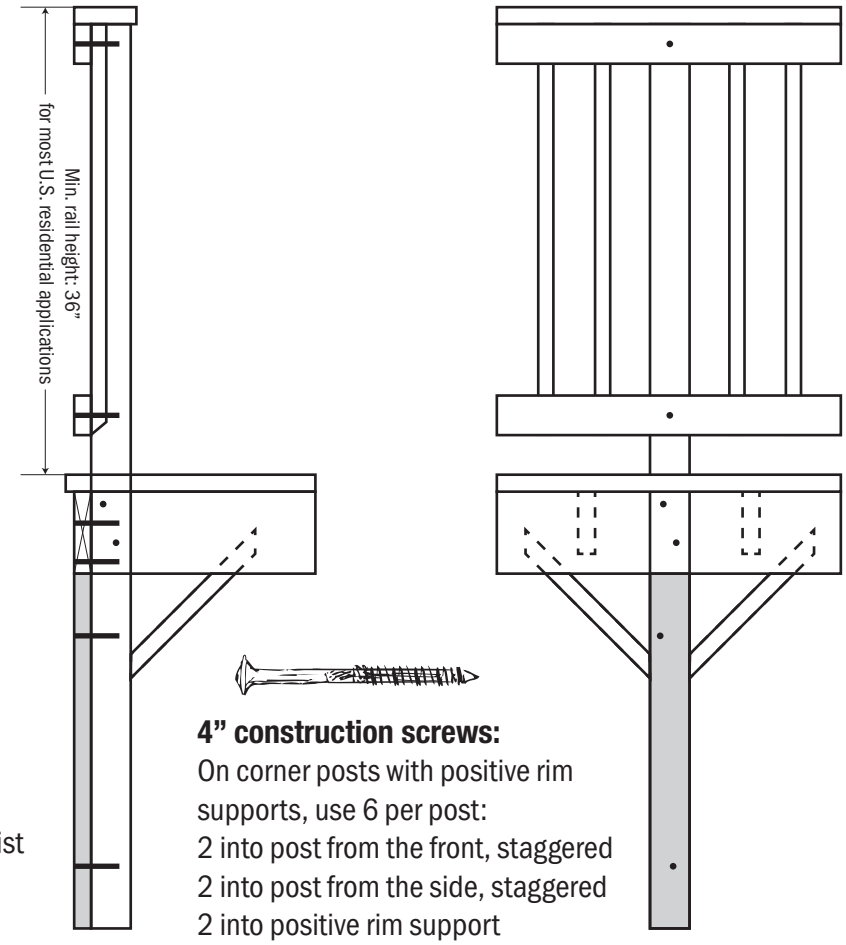
DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	16	Joist hangers
	160	1¼" screws
Posts	35	4" construction screws
Braces	8	2x3 wood braces
	34	3" screws
Decking	340	3" screws
Guardrail	14	4" construction screws
Balusters	147	2½" screws
Top of deck rail	30	3" screws

(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)

***2x4 Positive rim supports**

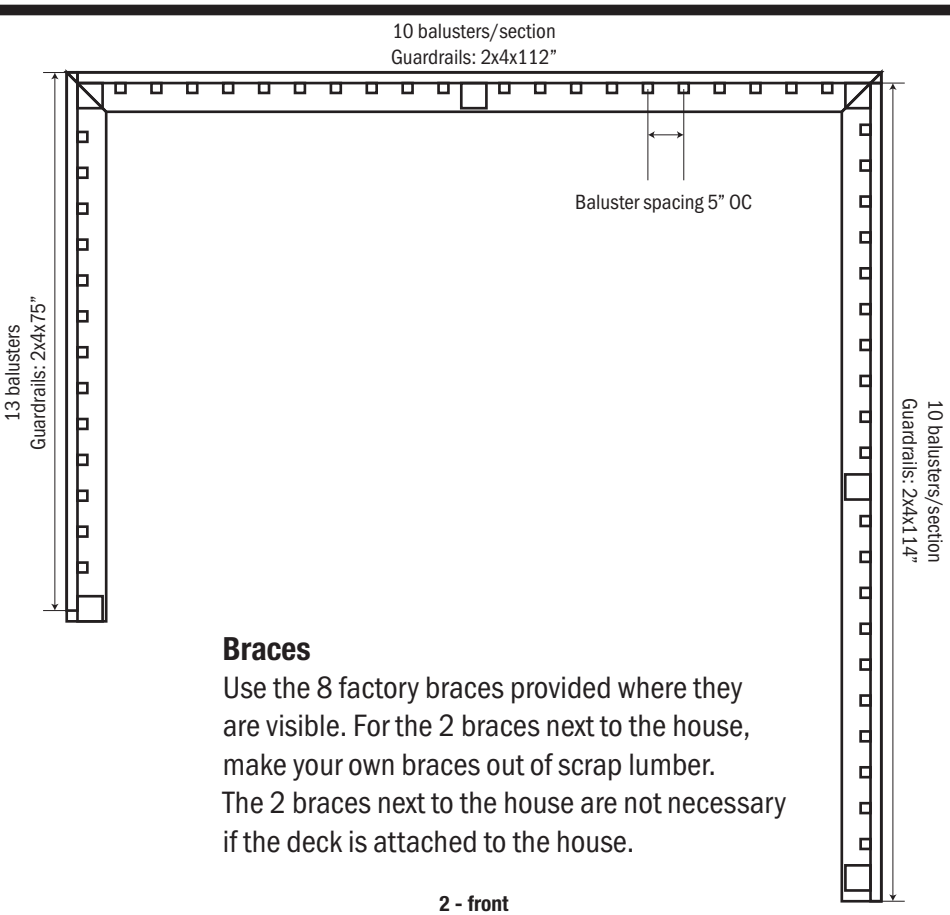
For larger free-standing decks, we recommend attaching a 2x4 that places the load of the rim joist onto the concrete (or improved) surface below. Attach a positive rim support to each post where there is a black rectangle on the top view.



4" construction screws:

On corner posts with positive rim supports, use 6 per post:
2 into post from the front, staggered
2 into post from the side, staggered
2 into positive rim support
On mid-span posts with positive rim supports, use 4 per post.

10x10 Deck: 115½” x 113½”



***Post heights**

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

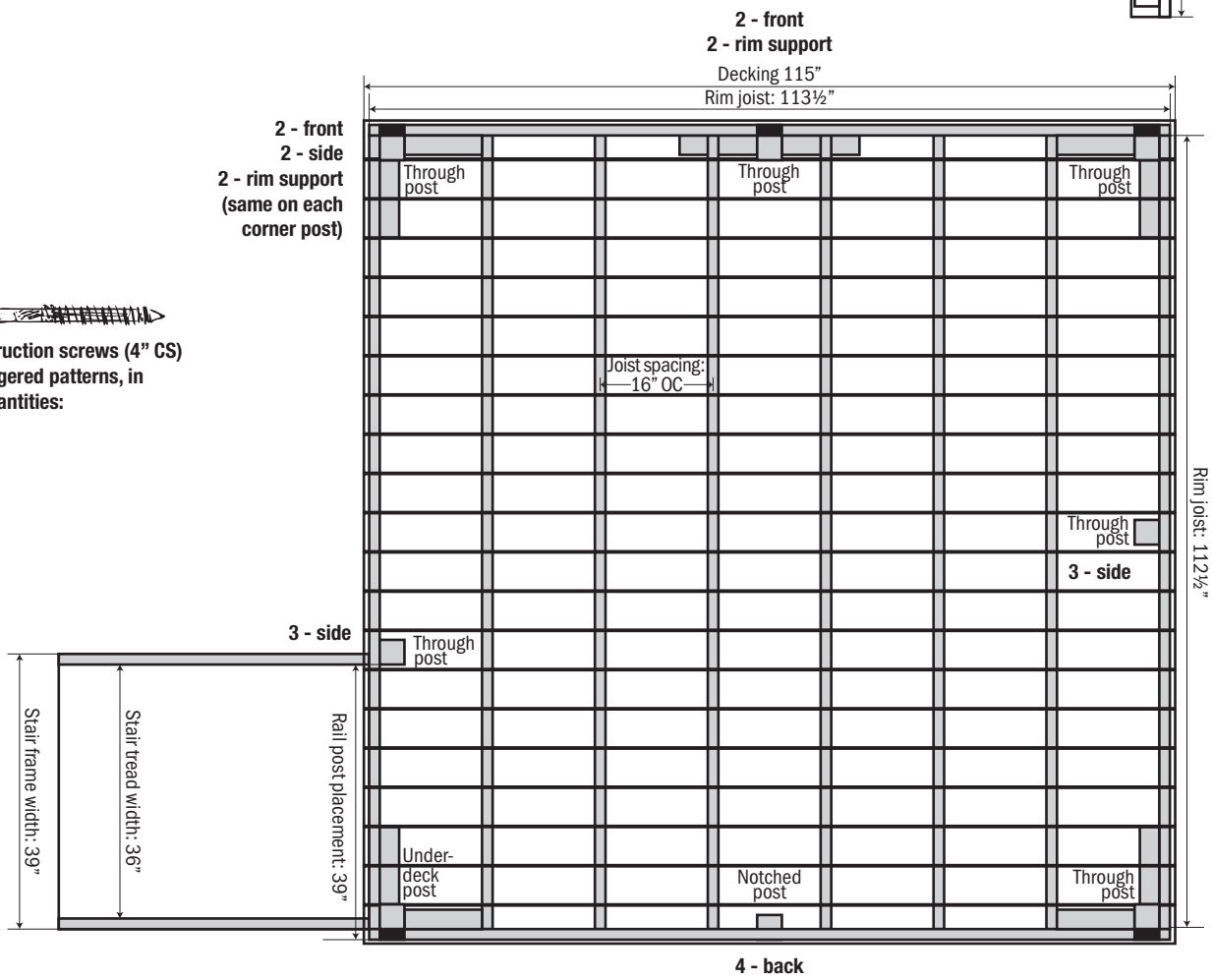
For through posts, add 37” for 32” balusters, which will produce a 37” rail (or add 42” for 36” balusters, which makes a 42” guardrail).

After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.

Braces

Use the 8 factory braces provided where they are visible. For the 2 braces next to the house, make your own braces out of scrap lumber. The 2 braces next to the house are not necessary if the deck is attached to the house.

4” construction screws (4” CS)
Use staggered patterns, in these quantities:



TOP VIEW

10x10 Deck: 115½" x 113½"

BUY LIST

Redwood	Qty.	Materials Cost
2x8x12'	2	$_____/ea. = _____
2x8x10'	10	$_____/ea. = _____
2x6x8'	1	$_____/ea. = _____
2x6x10'	23	$_____/ea. = _____
2x4x8'	2	$_____/ea. = _____
2x4x10'	6	$_____/ea. = _____
4x4x8'	7	$_____/ea. = _____
		$_____/ea. = _____
2x2x36"	53	
(OR 8'	18)	$_____/ea. = _____

SUBTOTAL: $ _____

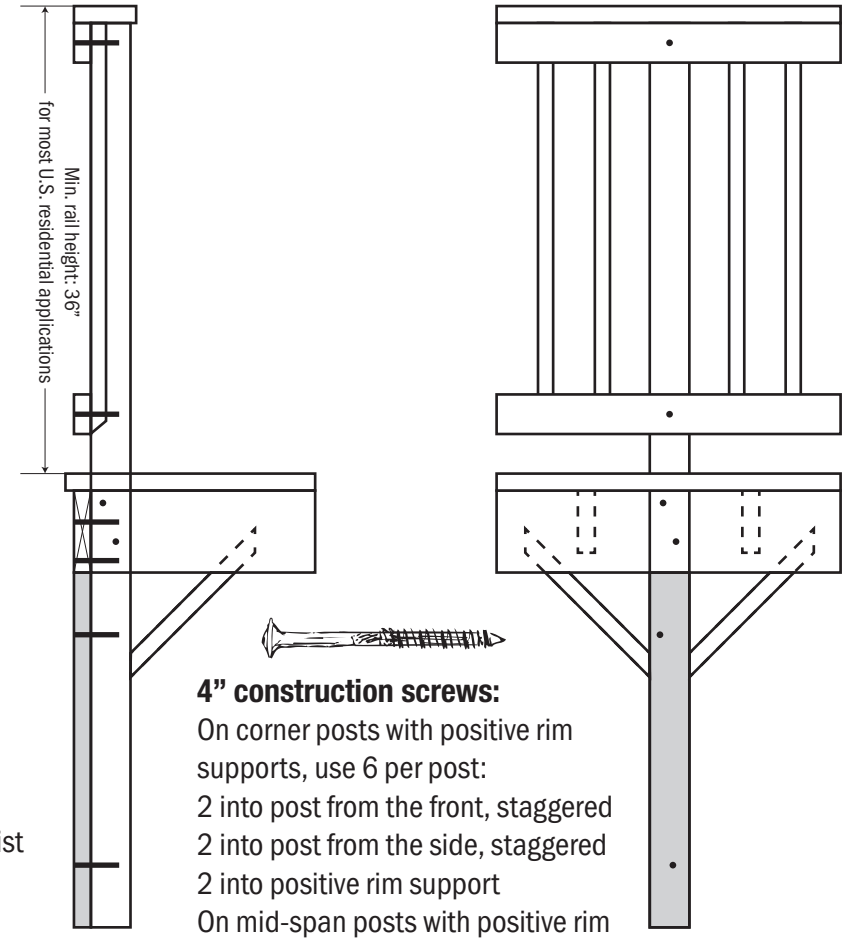
CUT LIST

Cut from	Cut to	Qty.	Use
2x8x10'	113½"	2	Rim joists
	112½"	2	Rim joists
	112½"	6	Center joists
2x6x8'	76½"+	1	Top of deck rail (45° cut)
2x6x10'	113½"+	1	Top of deck rail (45° cuts)
	115½"+	1	Top of deck rail (45° cut)
	115"	21	Decking
2x4x8'	75"	2	Guardrail
2x4x10'	112"	2	Guardrail
	114"	2	Guardrail
	Height	5	Positive rim support
4x4x8'	Height*	6	Posts - through
	Height	1	Post - framing under deck
	Height	1	Post - framing under deck
2x2x32" min.*		53	Deck rail balusters

DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	12	Joist hangers
	120	1¼" screws
Posts	38	4" construction screws
Braces	8	2x3 wood braces
	34	3" screws
Decking	336	3" screws
Guardrail	16	4" construction screws
Balusters	159	2½" screws
Top of deck rail	28	3" screws

(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)



4" construction screws:
On corner posts with positive rim supports, use 6 per post:
2 into post from the front, staggered
2 into post from the side, staggered
2 into positive rim support
On mid-span posts with positive rim supports, use 4 per post.

***2x4 Positive rim supports**
For larger free-standing decks, we recommend attaching a 2x4 that places the load of the rim joist onto the concrete (or improved) surface below. Attach a positive rim support to each post where there is a black rectangle on the top view.

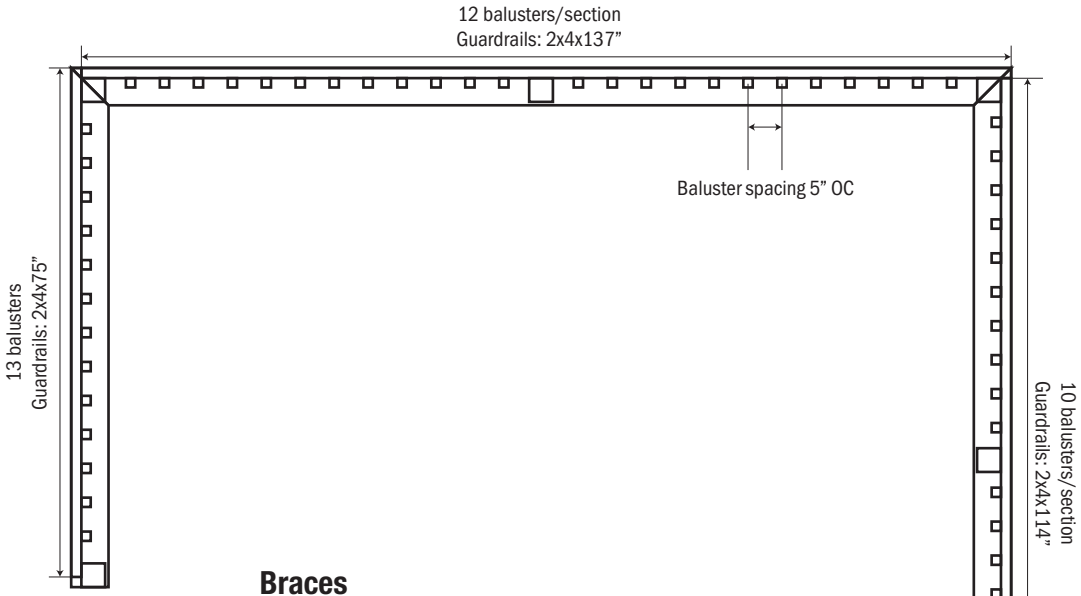
10x12 Deck: 115½” x 138½”

*Post heights

Starting with the back posts, measure from the intended top-of-frame location on the house down to the concrete (or improved) surface below.

For through posts, add 37” for 32” balusters, which will produce a 37” rail (or add 42” for 36” balusters, which makes a 42” guardrail).

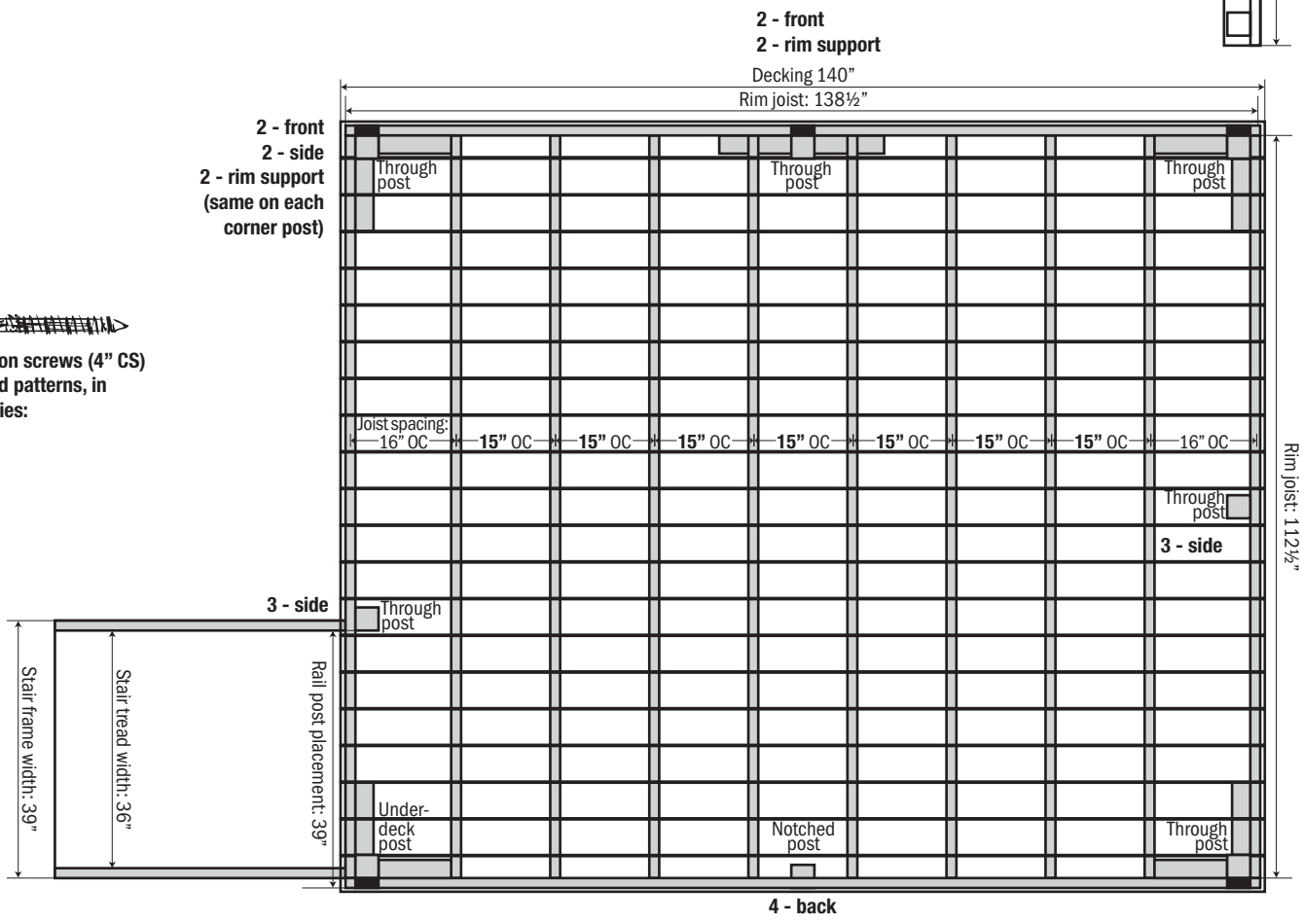
After cutting and securing the back posts, temporarily support and level the front of the frame and repeat the process for the front posts.



Braces

Use the 8 factory braces provided where they are visible. For the 2 braces next to the house, make your own braces out of scrap lumber. The 2 braces next to the house are not necessary if the deck is attached to the house.

4” construction screws (4” CS)
Use staggered patterns, in these quantities:



TOP VIEW

10x12 Deck: 115½" x 138½"

BUY LIST

Redwood	Qty.	Materials Cost
2x8x12'	2	$_____/ea. = _____
2x8x10'	10	$_____/ea. = _____
2x6x8'	1	$_____/ea. = _____
2x6x10'	1	$_____/ea. = _____
2x6x12'	22	$_____/ea. = _____
2x4x8'	2	$_____/ea. = _____
2x4x10'	4	$_____/ea. = _____
2x4x12'	2	$_____/ea. = _____
4x4x8'	7	$_____/ea. = _____
2x2x36" (OR 8'	57 19)	$_____/ea. = _____

SUBTOTAL: $ _____

CUT LIST

Cut from	Cut to	Qty.	Use
2x8x12'	138½"	2	Rim joists
2x8x10'	112½"	2	Rim joists
2x8x10'	112½"	8	Center joists
2x6x8'	76½"+	1	Top of deck rail (45º cut)
2x6x10'	115½"+	1	Top of deck rail (45º cuts)
2x6x12'	138½"+	1	Top of deck rail (45º cut)
	140"	21	Decking
2x4x8'	75"	2	Guardrail
2x4x10'	114"	2	Guardrail
2x4x12'	137"	2	Guardrail
2x4x10'	Height	5	Positive rim support
4x4x8'	Height*	6	Posts - through
	Height	1	Post - framing under deck
	Height	1	Post - framing under deck
2x2x32" min.*		57	Deck rail balusters

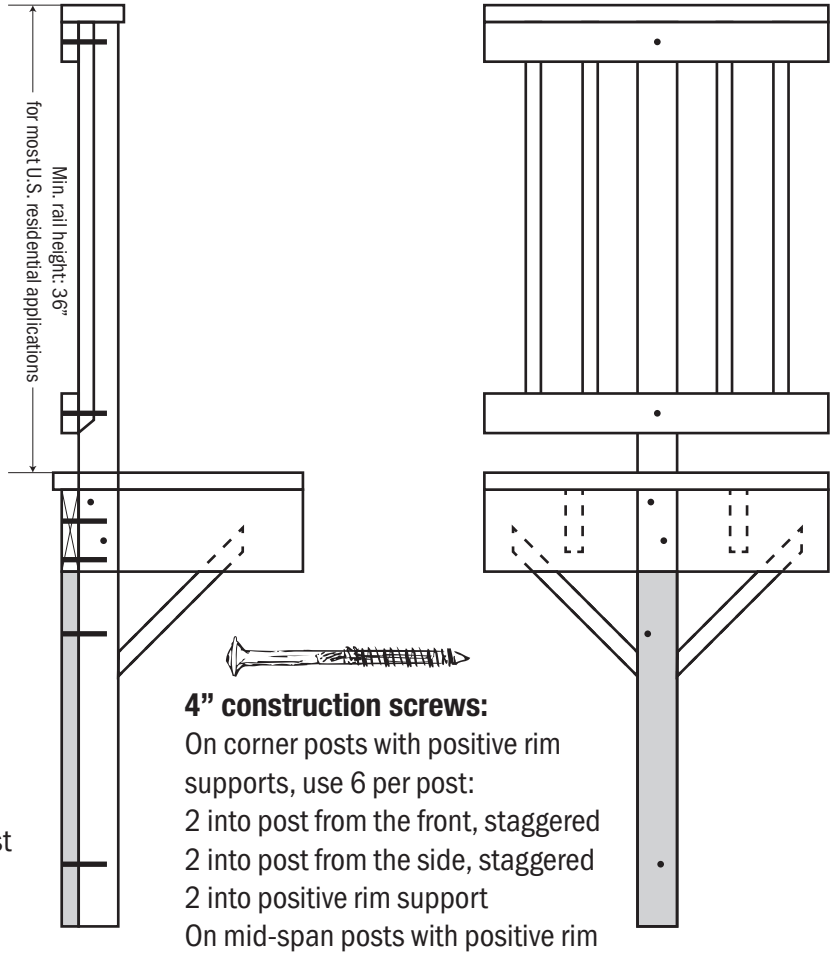
DECK HARDWARE

In order of use	Qty.	Hardware
Rim corners	8	3" screws
Joists	16	Joist hangers
	160	1¼" screws
Posts	38	4" construction screws
Braces	8	2x3 wood braces
	34	3" screws
Decking	420	3" screws
Guardrail	16	4" construction screws
Balusters	171	2½" screws
Top of deck rail	28	3" screws

(For details on how to use hardware, see Deck Construction Details in the main Just-Add-Wood instructions, pages 6-7.)

***2x4 Positive rim supports**

For larger free-standing decks, we recommend attaching a 2x4 that places the load of the rim joist onto the concrete (or improved) surface below. Attach a positive rim support to each post where there is a black rectangle on the top view.

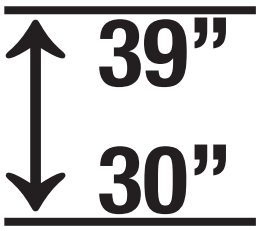


4" construction screws:

On corner posts with positive rim supports, use 6 per post:
2 into post from the front, staggered
2 into post from the side, staggered
2 into positive rim support
On mid-span posts with positive rim supports, use 4 per post.

Determining rise-per-tread for 3, 4, or 5-tread stairs:

To determine your RISE per TREAD, do this quick math or find your TOTAL RISE on the chart below.



If your TOTAL RISE is higher than 39”, divide by 6 rises (5 treads).

If your TOTAL RISE is lower than 30”, divide by 4 rises (3 treads).

TOTAL RISE	÷ RISES (4 TREADS)	= RISE PER TREAD
	÷ 5	=

RISE per TREAD	3 TREADS (4 RISES)	4 TREADS (5 RISES)	5 TREADS (6 RISES)
7 3/4	31	38 3/4	46 1/2
7 5/8	30 1/2	38 1/8	45 3/4
7 1/2	30	37 1/2	45
7 3/8	29 1/2	36 7/8	44 1/4
7 1/4	29	36 1/4	43 1/2
7 1/8	28 1/2	35 5/8	42 3/4
7	28	35	42
6 7/8	27 1/2	34 3/8	41 1/4
6 3/4	27	33 3/4	40 1/2
6 5/8	26 1/2	33 1/8	39 3/4
6 1/2	26	32 1/2	39
6 3/8	25 1/2	31 7/8	38 1/4
6 1/4	25	31 1/4	37 1/2
6 1/8	24 1/2	30 5/8	36 3/4
6	24	30	36

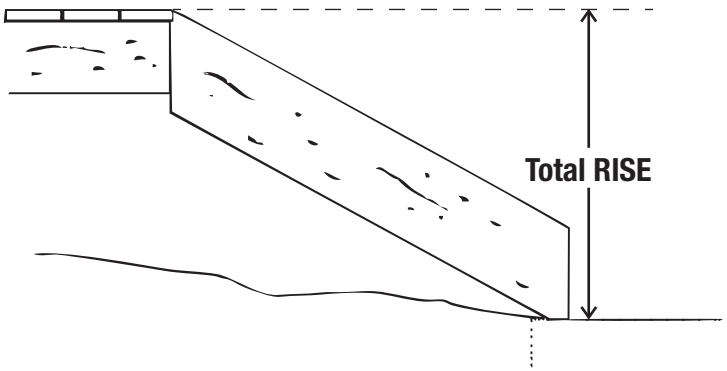
Baluster spacing could be more than 4” at this range.

Most manufactured houses require a 4-TREAD stair kit that will comfortably cover a TOTAL RISE from 30 to 39” (38¾” will “stretch” within building code to 39”).

If your TOTAL RISE is higher than 39”, you will have to exchange your 4-TREAD stair kit for a 5-TREAD stair kit.

If your TOTAL RISE is lower than 30”, you can exchange your 4-TREAD stair kit for a 3-TREAD stair kit, or simply cut the 4-TREAD kit at the third tread.

Adjustable stairs are ordered by the number of treads. The number of rises is one more than the number of treads.



Your TOTAL is the vertical distance between the top of the platform and the landing point of the stair. It is important to measure at your landing point because there may be a change in elevation between the point directly below the platform and the landing point.