

Shared Dealer Locator  
Report



## KIELDeck

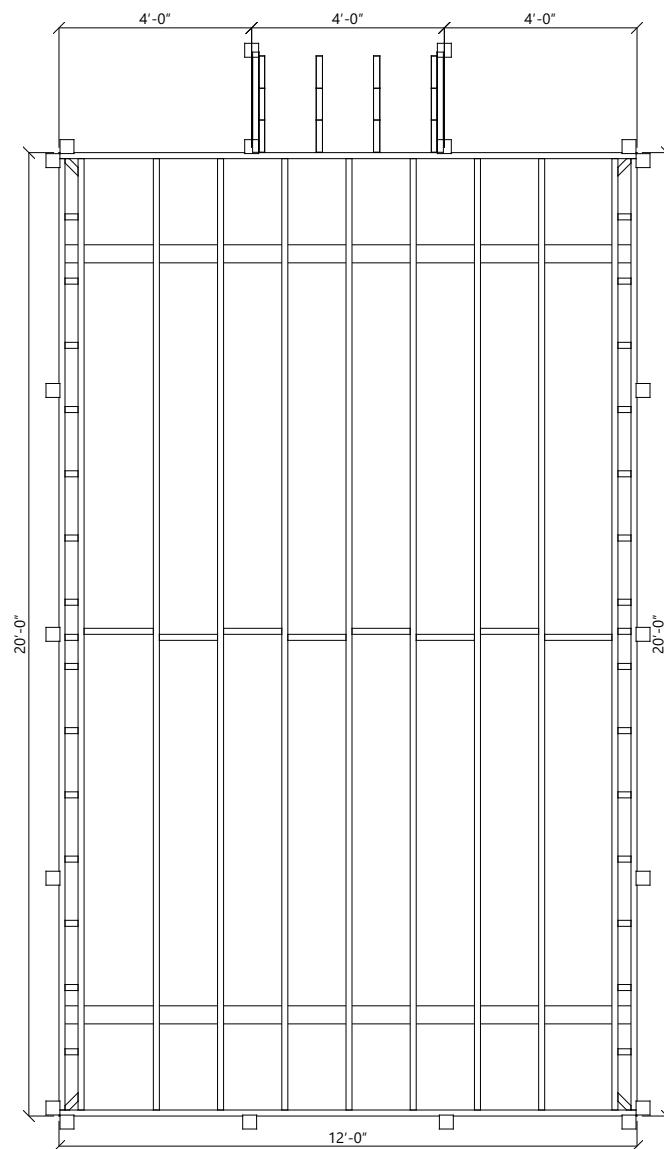
### Deck Planner Software™ Report

All lengths, areas, weights, masses and structural forces are expressed in U.S. Customary units unless otherwise specified.

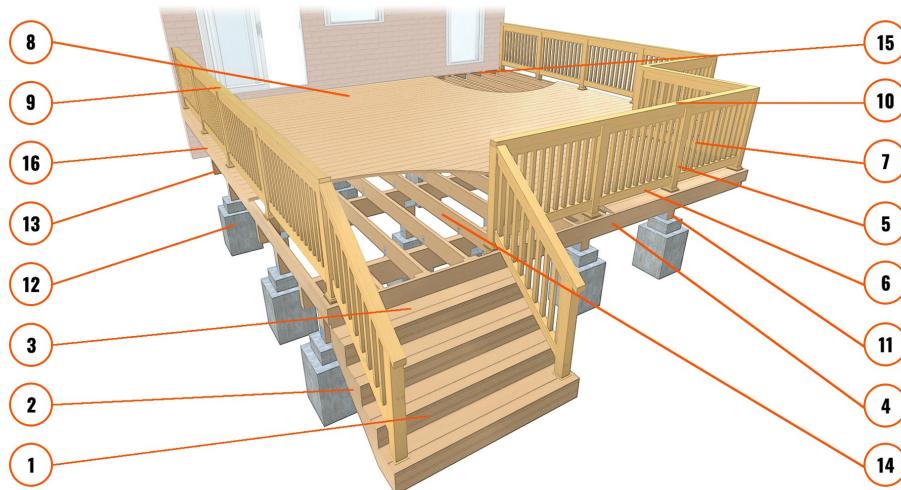
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## Your Planned Deck Design

Plan view construction



## Glossary Of Decking Terms



**1. Risers:** The vertical boards attached to the stair stringers. Many localities require risers to prevent possible trip hazards.

**2. Stringers:** The structural support for stairs. They have limits on how much weight they can carry, so size and spacing are important considerations. Composite manufacturers provide recommended stringer spacing to support the tread material.

**3. Treads:** The horizontal stair surfaces on which deck users walk.

**4. Rim Joist:** Also known as edge bands, the rim joist wraps the deck and keeps the joists standing on edge, while also providing a solid surface for attaching railing posts. Proper attachment is critical to installing a safe railing.

**5. Rail Post:** Vertical lumber member that supports the handrail and resists the outward force of people leaning on the railings.

**6. Bottom Rails:** Lumber members that connect to the rail posts and provide a solid surface for securing the infills.

**7. Infills:** Also known as balusters or pickets, the infills are connected to the top and bottom rails and provide a barrier against falls.

**8. Decking:** When properly attached to each joist and rim joist, the decking surface (whether wood or composite material) helps unify the entire structure.

**9. Rail Cap:** Much like the decking, the rail cap unifies the railing system and provides a decorative feature.

**10. Top Rails:** These members have the same stabilizing function as the bottom rails.

**11. Post:** Vertical structural member that supports the beams and attaches the deck to the footings using a post base.

**12. Footing:** Concrete element that serves as the foundation of the deck.

**13. Beams:** Structural members that support the decking floor joists. Beams are made of doubling 2x material and can be installed as a laminate, sandwiched, or notched into the post.

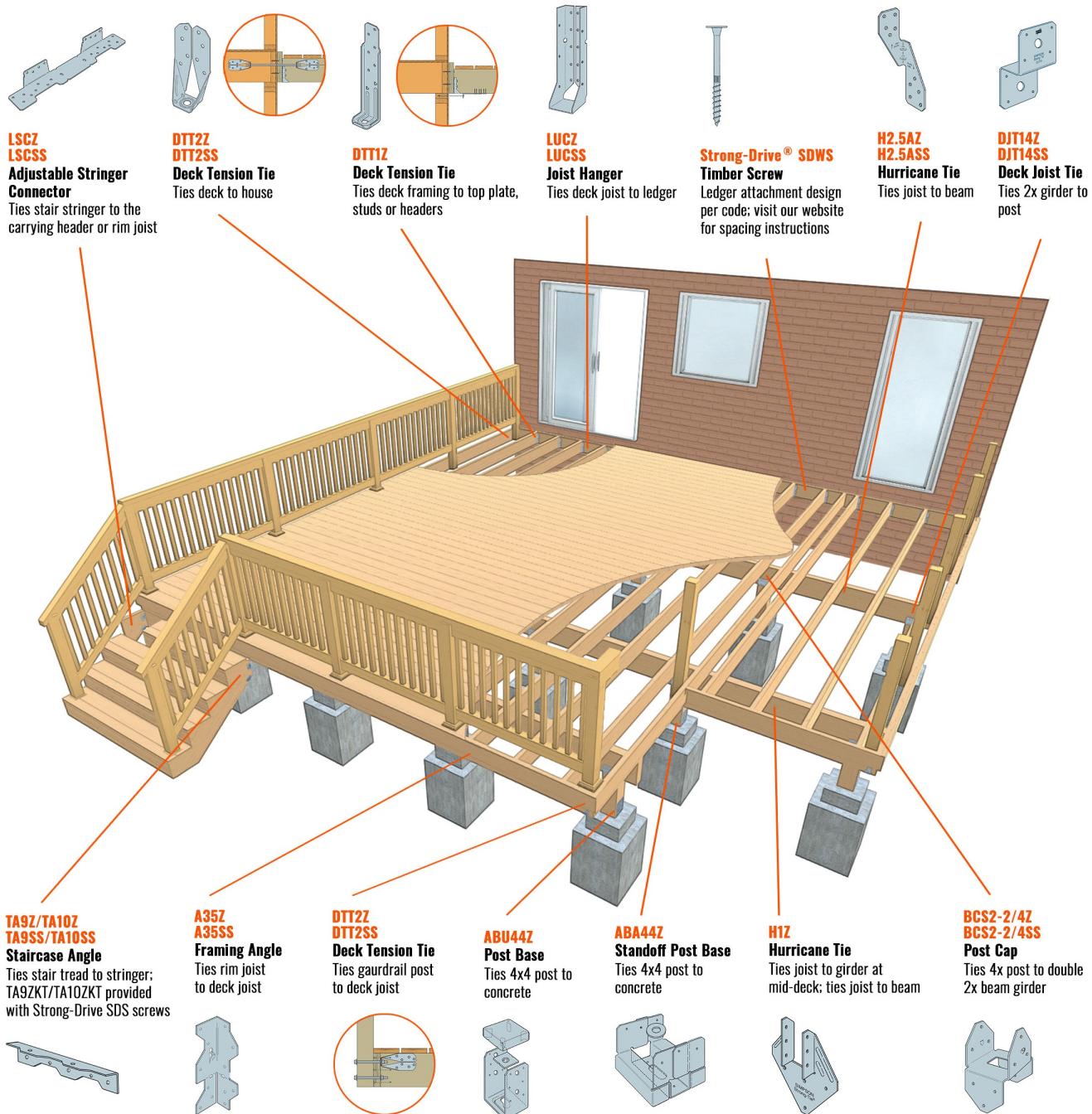
It is important to have a post of sufficient size and strength to support the beam. The beam should not be any wider than the thickness of the post, and should be secured with the correct post cap.

**14. Joists:** Wood members installed across the beams and spaced to accommodate the decking material. The joist spacing may depend on the angle at which the deck boards are applied.

**15. Ledger:** The ledger is a crucial connection because it attaches the deck to the house. The material used to construct the house may determine the type of connection. Consult local building officials on the recommended connection.

**16. Fascia:** Vertical boards that face outwards from the edges of the deck, attached to the rim joists. Fascia boards typically consist of a lumber species that matches the appearance of the decking material.

# A Complete Connector System for Building Safer, Code-Compliant Decks



# Platform Decks and Flush Beams

## Platform Decks

Once a deck goes to two feet or below posts and beam to posts connectors are removed. Deck height incrementing is constrained to those that can be constructed by combining the joist and beam height with the deck board thickness.  
At 1'1" and below flush beams will be used to enable lower decks as described below.

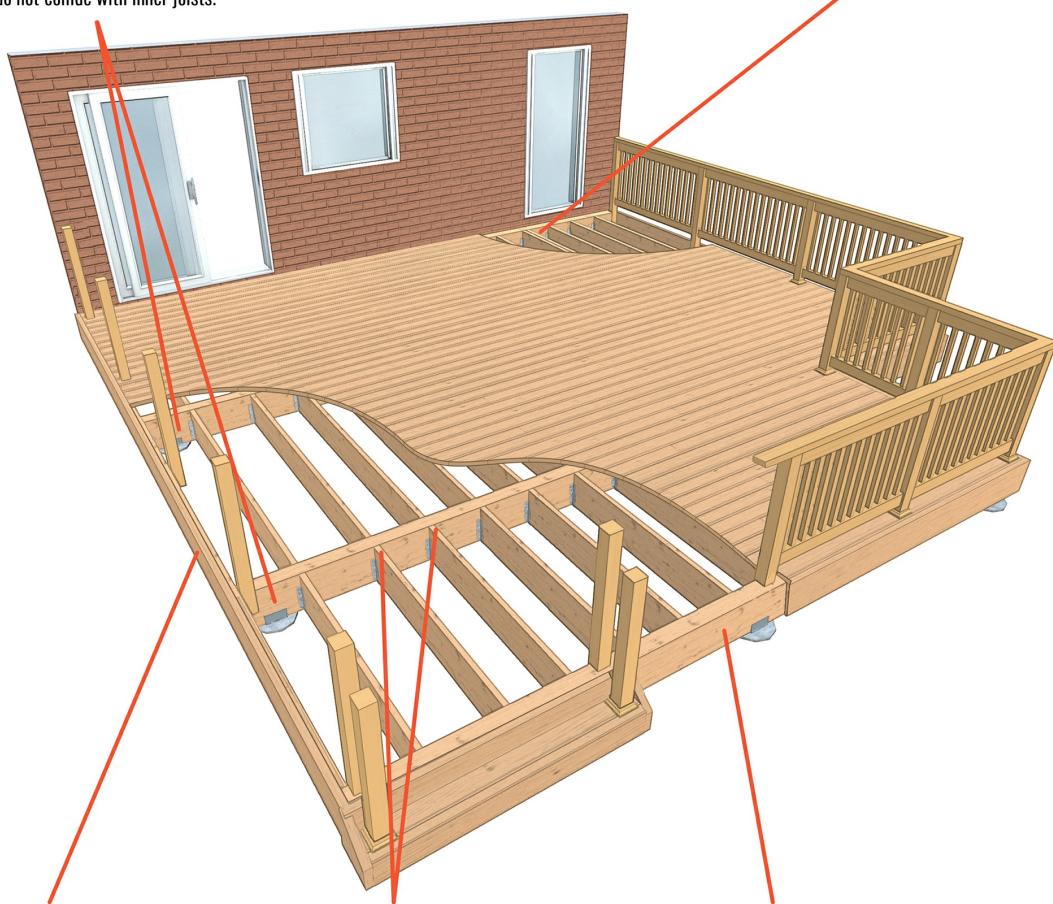
## Flush Beam Decks

### Post Base To Beam

The beams sit in the post base connector and the connector is updated to fit the beam. Posts are adjusted so that the post base connectors do not collide with inner joists.

### Ledgers Removed

Ledgers are not used with flush beam decks, no ledger materials or BVLZ connectors will be added.



### Outer Joist

The parallel outer joists are cut either side of the beams and supported by the joist hangers, like an inner joist.

### Inner Joist

Inner joist and beam are combined to the same level, removing the joist to beam connectors. Joists are cut either side of the beam. Joist hangers are used to support the joists between the beams.

### Outer Beam

Joist cantilever is removed and beams are moved to the outside of the deck. Outer Joists that aren't parallel with inner joists are replaced with the beam it overlaps.

# Installation Considerations

## Building Code and Zoning Requirements

Check deed restrictions, building codes and zoning laws to make sure your deck complies. The local building jurisdiction will require a minimum setback from property lines. Check with local utility companies to make sure deck construction will not disturb underground piping or wiring.

A resource for general residential deck codes and building practices is the Prescriptive Residential Deck Construction Guide, by the American Wood Council (free download from [www.awc.org](http://www.awc.org)).

The local building jurisdiction should be consulted to verify any building code requirements specific to the area.

## Deck Function

While planning your deck, consider how it will be used. Sun/shade areas and possible views are common considerations.

## Lumber

Pressure- or preservative-treated lumber, or lumber that is naturally decay resistant, should be used for durability. Cut edges should be field-treated with preservative.

## Fasteners and Connectors

To resist corrosion, fasteners and connectors in contact with treated lumber should be ZMAX®, hot-dip galvanized (HDG) or made with stainless steel.

Consult with the building code, the preservative treatment manufacturer and [strongtie.com](http://strongtie.com) to get recommendations for your conditions. Fasteners and connectors should be made of the same material (i.e. both of them galvanized, both of them HDG or both in stainless steel).

## Ledgers

Proper corrosion-resistant flashing should be installed between a deck ledger and the house. The ledger should be installed directly to the framing, with any siding removed.

## Deck Area and Footing Layout

Batter boards (temporary wood supports, such as 2x4s), mason's string and a plumb bob can be used to lay out the deck area and footings. For a rectangular shape, the corners will be square when the lengths of the two diagonals are equal.

## Footings

Holes for footings will need to be dug to a depth below the frost line.

## Post Bracing

Diagonal bracing between posts and joists/beams should be installed according to the building code.

## Posts and Beams

Allow an additional margin in length to the posts. Determine the desired deck floor height on the post and then cut to the appropriate length.

## Attaching Joists

Attach joists to the ledger board with joist hangers.

## Laying Decking

Drill pilot holes into the ends of boards to prevent splitting. Allow space between boards.

## Guardrails

Guardrails must be adequately attached to the framing members of the deck. The building code has limits on the size of openings that are permitted in the guard system.

## Stairs and Handrails

Stairs should be at least 91cm wide. The building code has limits on the size of openings in a flight of stairs and specific directions for providing handrails.

## Tools Required

The checklist provided should be used as a quick guide only, and we highly recommend consulting some additional resources listed here:

[www.strongtie.com/solutions/deckcenter](http://www.strongtie.com/solutions/deckcenter)

### Concrete Work

- Pick
- Post hole digger
- Shovel
- Wheelbarrow
- Hoe and hose (to mix concrete)
- Tamper

### Concrete Layout

- Stakes or batter boards
- String
- Transit

### Safety

- Eye Protection
- Hearing protection
- Dust mask
- Gloves
- Kneepads

### Wood Work

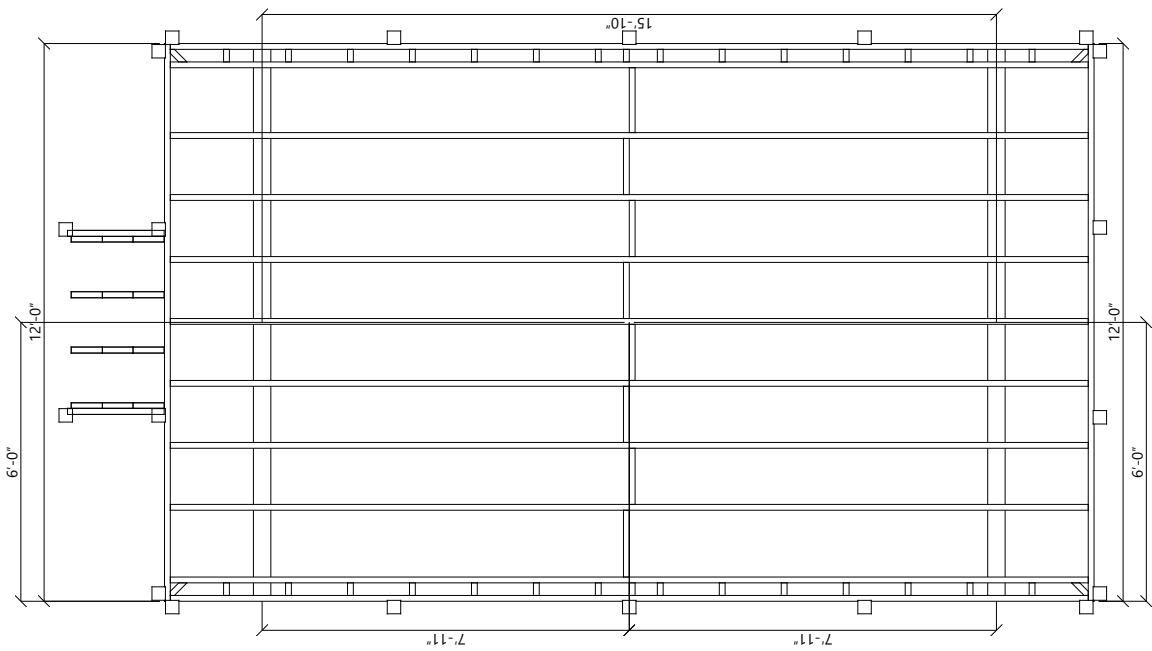
- Extension cord
- Circular saw
- Drills and bits
- Hammer
- Nail set
- Chisel
- Handsaw
- Ladder
- Mallet
- Tool belt

### Wood Layout

- Tape measure
- Squares: Rafter/Speed, Framing
- Level/Levels
- Chalk line
- Pencils
- Plumb bob

### Tips for the DIYer

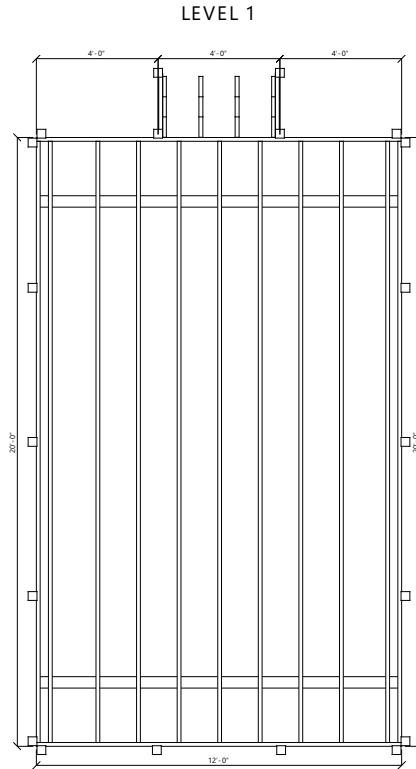
- When cutting or drilling wood, always wear eye protection to prevent injury from flying wood particles.
- If cutting pressure treated material, wearing a fabric breathing mask will help to avoid ingestion of the dust.
- Wear gloves to protect from splinters.
- Invest in a pair of kneepads if you are doing floor jobs or working on a deck.
- Dispose of scraps in the regular trash or take to a landfill - do not burn pressure treated materials.



SIMPSON <b>StrongTie®</b>	NOTES FROM THE CUSTOMER	DESIGN TITLE	KIELDECK	DRAWING	1	JOB ID
		CUSTOMER NAME	Thomas Bennett	SCALE	NOT TO SCALE	CHECKED BY
		CUSTOMER EMAIL ADDRESS	thomas@htcpros.com	DATE	12/1/2025 9:04 AM	CHECK DATE
	THIS DRAWING WAS GENERATED BY DECK PLANNER SOFTWARE™	CUSTOMER PHONE NUMBER		CREATED BY		STORE
						PAGE <b>8</b>

## Permit Info

Plan view construction



### Structural Information: Level 1

Height of level (top of decking)	24"
Max. joist span	189 5/8"
Max. joist cantilever	23 3/4"
Max. beam span	0"
Max. beam cantilever	6"
Footing depth	36"
Footing area (ea.)	9 1/2 ft <sup>2</sup>
Designed live load	40 lb/ft <sup>2</sup>
Designed dead load	10 lb/ft <sup>2</sup>

#### Deck and Post Height

Your design height is 24" from the top of the decking to the ground level. The top of the deck support posts will therefore be 1" above ground level."

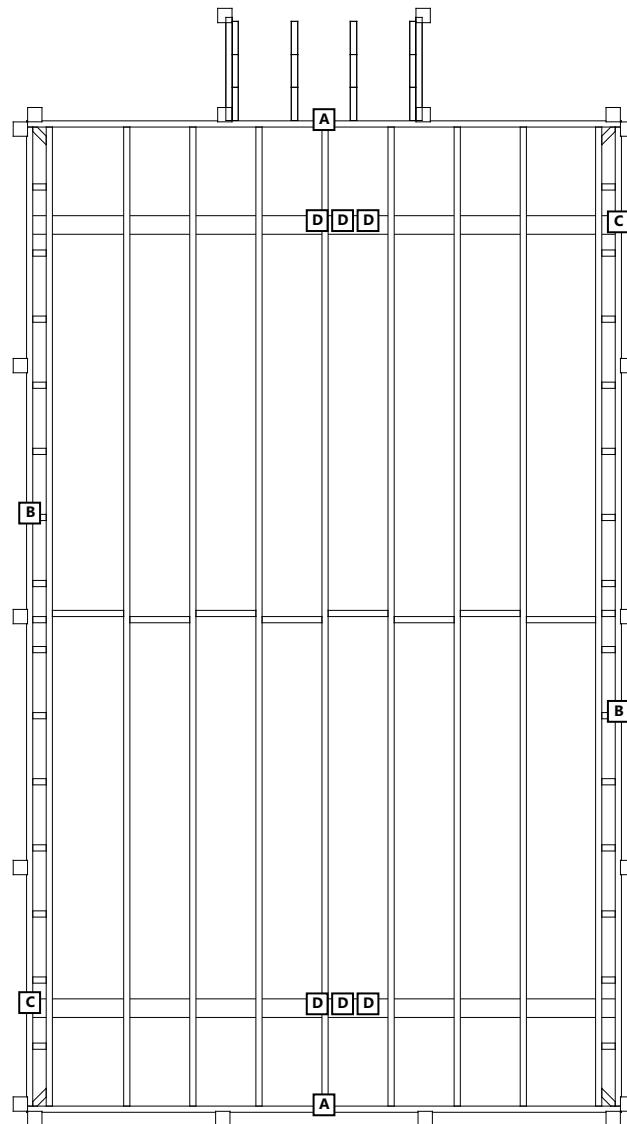
#### Joists

Set joists on top of beams, 16" center-to-center.

## Materials Drawing

MATERIALS DRAWING 1

Plan view,  
beams and joists



## Materials Cut List

LEVEL 1

Label	Description	Qty	Length	Usage
A	2" x 12" x 12'- Wood SP (Square)	2	144"	Beams, Rim Joists
B	2" x 12" x 16'- Wood SP (Square)	2	189"	Joists, Blocking
C	2" x 12" x 8'- Wood SP (Square)	2	48"	Joists, Blocking
D	2" x 12" x 12'- Wood SP (Square)	6	144"	Beams, Rim Joists
	2" x 12" x 16'- Wood SP (Square)	2	17 1/4"	Joists, Blocking
	2" x 12" x 16'- Wood SP (Square)	6	14 1/2"	Joists, Blocking
	2" x 12" x 16'- Wood SP (Square)	21	3 1/4"	Joists, Blocking
	2" x 12" x 8'- Wood SP (Square)	13	3 1/4"	Joists, Blocking
	1" x 6" x 20'- Wood SYP (Square)	5	44 1/2"	Risers, Treads
	1" x 6" x 12'- Wood SYP (Square)	1	44 1/2"	Risers, Treads
	2" x 12" x 14'- Wood SP (Square)	4	36 3/8"	Stringers
	2" x 12" x 12'- Wood SP	2	34 3/8"	Fascia, Stair Fascia

## Railing Kit List

### All Materials

Usage	Sub Product	Qty	SKU	Description
Stick Built Items				
	Railing Posts	20/20		Ball Cap
	Top Rails	15/15		Top Rail 2x4 6ft
	Bottom Rails	15/15		Bottom Rail 2x4 6ft
	Infill	190/190		Square Baluster 2x2 29in
	Railing Posts	6/6		4" x 4" x 16' - WFP Truestyle™ Western Red Cedar
	Railing Posts	1/1		4" x 4" x 12' - WFP Truestyle™ Western Red Cedar
	Railing Posts	18/18	DTT2Z	DTT2Z Connector (ZMAX®)(Fasteners and Washers included)

## Estimated Materials List

### All Materials

Usage	Qty	SKU	Description	Type
Decking	41		1" x 6" x 12'- Wood SYP (Grooved)	Lumber
Decking	2		1" x 6" x 16'- Wood SP (Grooved)	Lumber
Decking	3		1" x 6" x 12'- Wood SP (Grooved)	Lumber
Fascia	7		2" x 12" x 12'- Wood SP	Lumber
Rim Joists	2		2" x 12" x 12'- Wood SP (Square)	Lumber
Joists	2		2" x 12" x 16'- Wood SP (Square)	Lumber
Joists	1		2" x 12" x 8'- Wood SP (Square)	Lumber
Blocking	1		2" x 12" x 16'- Wood SP (Square)	Lumber
Blocking	1		2" x 12" x 8'- Wood SP (Square)	Lumber
Beams	6		2" x 12" x 12'- Wood SP (Square)	Lumber
Joists	22	H2.5AZ	H2.5AZ Hurricane Tie (ZMAX®)	Connector
Joists	14	LUS210Z	LUS210Z Joist Hanger with Double-Shear Nailing (ZMAX®)	Connector
Joists	4	LS50Z	LS50Z Skewable Angle (ZMAX®)	Connector
Posts/Footings	6	ABU66Z	ABU66Z Adjustable Post Base with Standoff (ZMAX®)	Connector
Posts/Footings	1		5/8" Diameter Straight Shank Carbide Drill Bit for Concrete & Masonry	Concrete
Tape	4	BDFB1550	BDFB1550 - Butyl Deck Flash Barrier 1-5/8" x 50'	Tape
Risers	1		1" x 6" x 12'- Wood SYP (Square)	Lumber

Usage	Qty	SKU	Description	Type
Risers	1		1" x 6" x 20'- Wood SYP (Square)	Lumber
Stringers	1		2" x 12" x 14'- Wood SP (Square)	Lumber
Treads	1		1" x 6" x 12'- Wood SYP (Square)	Lumber
Treads	1		1" x 6" x 20'- Wood SYP (Square)	Lumber
Stair Fascia	1		2" x 12" x 12'- Wood SP	Lumber
Stringers	4	LSCZ	LSCZ Adjustable Stair-Stringer Connector (ZMAX®)	Connector
Decking	2	S10300WPP	DWP #10 3IN 305SS FLAT T25 350CT	Fastener
Decking	2	S10300WP1	DWP #10 3IN 305SS FLAT T25 1#	Fastener
	3	T08175FS75TN02	#8X1.75 316SS FASCIA SCREW T20 TN02 75CT	Fastener
Fastener	1	fsbit	FASCIA SCREW COUNTERSINK BIT	Fastener
Rim Joists	1	SDWS16300QR75	3 IN SDWS Framing Screw 75ct	Fastener
Joists	2	N8DHG	Strong-Drive® SCN 1 1/2" x .131", 10 gauge, Smooth-Shank Connector Nail, Hot Dip Galvanized - 1 LB	Fastener
	2	N10DHG	Strong-Drive® SCN 1 1/2" x .148", 9 gauge, Smooth-Shank Connector Nail, Hot Dip Galvanized - 1 LB	Fastener
Joists	2	10DHG	Strong-Drive® SCN 3" x .148", 9 gauge, Smooth-Shank Connector Nail, Hot Dip Galvanized - 1 LB	Fastener
Beams	3	SDWS22300DB-RC12	SDWS22300DB Structural Wood Screw (12)	Fastener
Posts/Footings	6	THDB62600H4SSF1	5/8" x 6" Type 304 Stainless Steel Titen HD® Heavy-Duty Screw Anchor	Fastener
	2	S10250WP1	DWP #10 2-1/2IN 305SS FLAT T25 1#	Fastener

## Dealer Locations

**Approved dealers local to your ZIP code.**

Dealer Name	Address	Phone
LOWE'S #2715 (PACE)	5143 Highway 90, Pace, 32571-1531, US	+1 704-758-1000
HOME DEPOT #6368 (PACE)	4829 Highway 90, Pace, 32571-1401, US	+1 850-994-2260
Milton Truss Company - USLBM	5817 Commerce Rd, Milton, 32583-2318, US	+1 850-623-1967
Marvin's Brewton	1804 Douglas Ave, Brewton, 36426-1152, US	+1 251-867-9998
Tool Expo Corp - Pensacola	2471 E Nine Mile Rd, Pensacola, 32514-7776, US	+1 850-816-0016
Cantonment Building Materials	990 N Highway 29, Cantonment, 32533-9510, US	+1 850-968-6639
Dufrene Building Materials - Pensacola	8810 Ely St, Pensacola, 32514-7012, US	+1 850-478-3554
HOME DEPOT #8472 (PENSACOLA)	541 W Nine Mile Rd, Pensacola, 32534-1833, US	+1 770-433-8211
LOWE'S #2788 (PENSACOLA)	777 W Nine Mile Rd, Pensacola, 32534-1857, US	+1 704-758-1000
LOWE'S #0438 (PENSACOLA)	1201 Airport Blvd, Pensacola, 32504-8609, US	+1 850-857-7900
Mobile Lumber - Pensacola	8960 Waring Rd, Pensacola, 32534-9352, US	+1 850-494-2534
HOME DEPOT #6853 (PENSACOLA)	5309 N Davis Hwy, Pensacola, 32503-2005, US	+1 850-477-7005
LOWE'S #1782 (CRESTVIEW)	298 Rasberry Rd, Crestview, 32536-6427, US	+1 850-423-7400
Building Supply Center	4800 N Palafox St, Pensacola, 32505-2908, US	+1 850-434-1001
Contractors Industrial Choice	3800 N Davis Hwy, Pensacola, 32503-3025, US	+1 850-432-0200

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Effective Date: December 01, 2025

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