



Deck Designer Specification Kit For
TimberTech

Deck layout diagram



Top view without planks

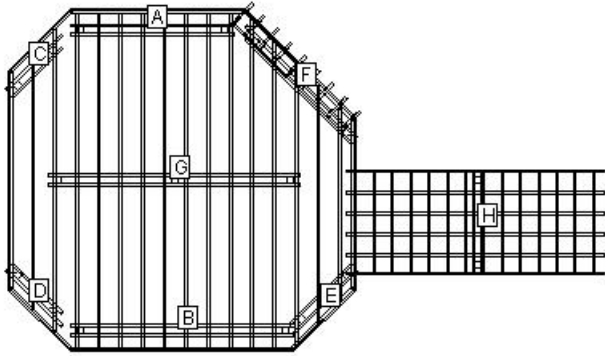


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 51 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 108" from the top of the decking to the ground level. The top of the deck support posts will therefore be 99" above ground level.

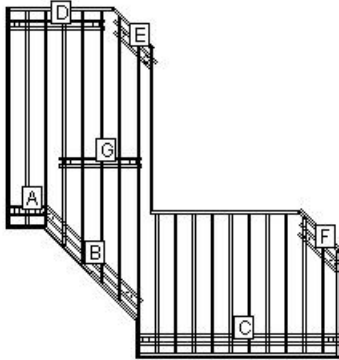
Joists:

Set joists on top of beams, 12"; center to center.

Stress Analysis: Level 1

Joist Deflection	157
Joist Bending	61
Joist Shear	118
Joist Compression	118
Beam Deflection	210
Beam Bending	80
Beam Shear	81
Post Stability	178

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 52 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 122" from the top of the decking to the ground level. The top of the deck support posts will therefore be 113" above ground level.

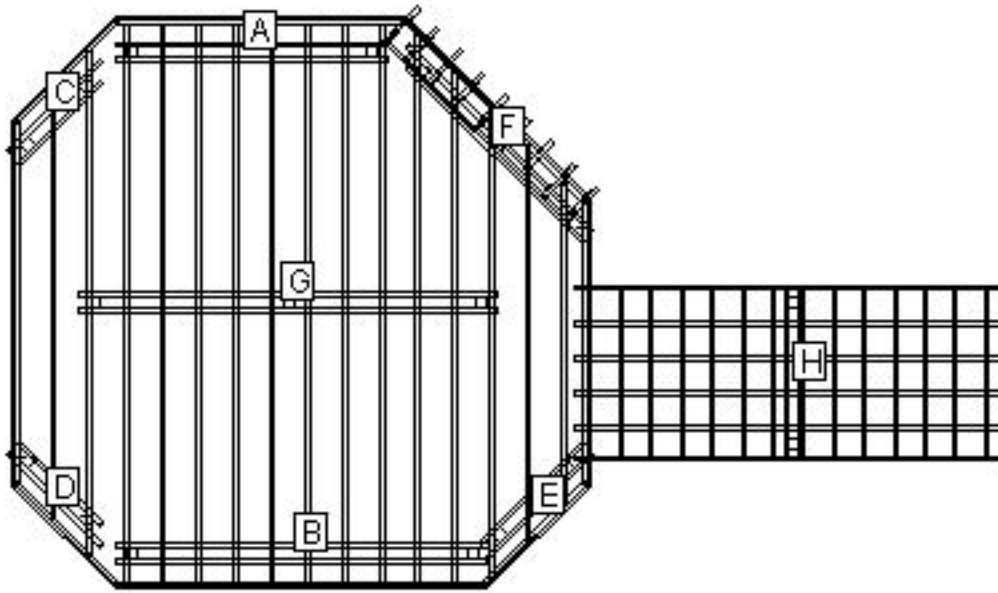
Joists:

Set joists on top of beams, 12"; center to center.

Stress Analysis: Level 2

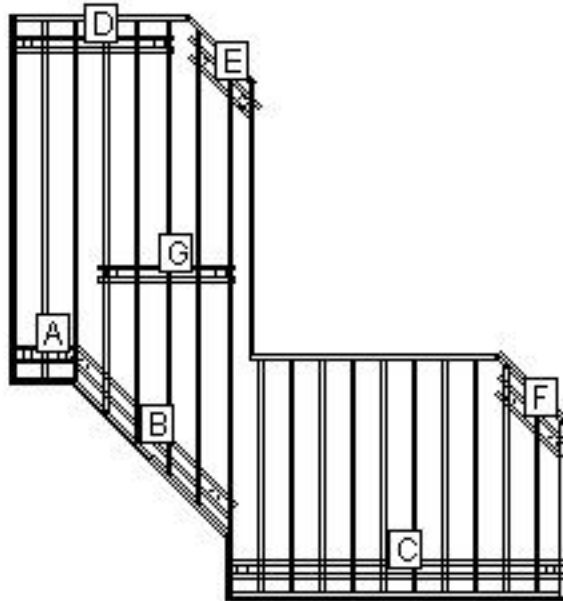
Joist Deflection	160
Joist Bending	62
Joist Shear	119
Joist Compression	119
Beam Deflection	161
Beam Bending	70
Beam Shear	76
Post Stability	283

Beam Layout Level 1



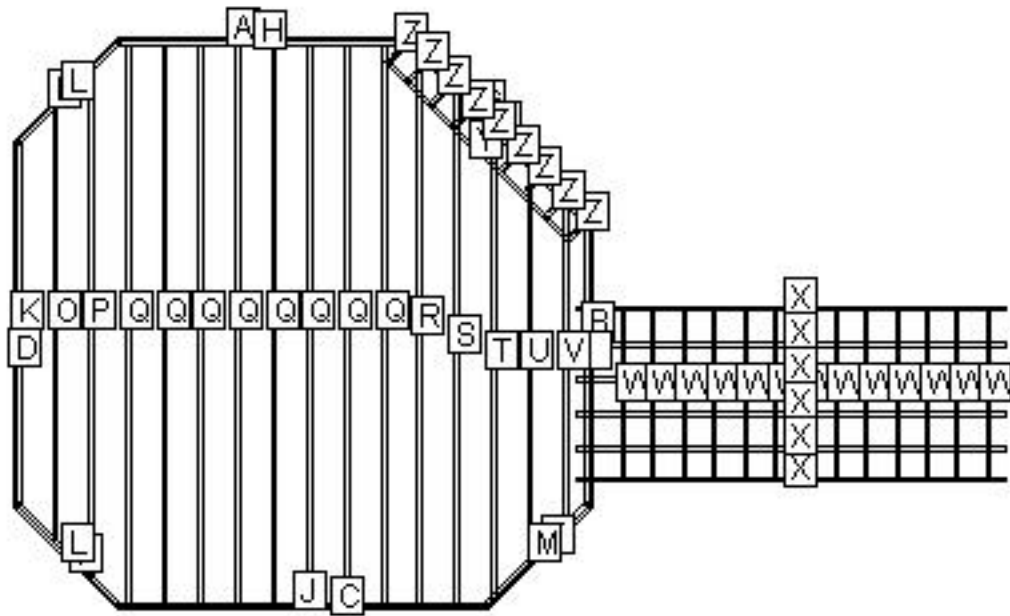
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	7' 6"	2	6' 6 1/2"
B	10' 3 1/4"	2	9' 4"
C	3' 6 1/2"	2	2' 3 1/2"
D	3' 6 1/2"	2	2' 3 1/2"
E	4' 1 1/2"	2	2' 10 1/2"
F	7' 2"	2	5' 11"
G	11' 6"	3	5' 3 1/4"
H	4' 9 3/4"	2	3' 10 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	2' 1"	2	1' 1 1/2"
B	7' 3"	2	6'
C	10' 11 1/4"	2	9' 11 3/4"
D	5' 3"	2	4' 3 1/2"
E	3' 2"	2	1' 11"
F	3' 2 1/4"	2	1' 11 1/4"
G	4' 6"	2	3' 6 1/2"

Materials Cut List: Level 1



Label		Qty	Length	Bevels	Label		Qty	Length	Bevels
A	Cladding	1	8'	23, 23	N	Header	1	7' 1/4"	0, 0
B	Cladding	1	7' 10"	23, 23	O	Internal Joist	1	11' 10"	45, 45
C	Cladding	1	10' 2"	23, 23	P	Internal Joist	1	13' 10"	45, 45
D	Cladding	1	10'	23, 23	Q	Internal Joist	8	15' 3 1/4"	0, 0
E	Cladding	1	4'	23, 23	R	Internal Joist	1	14' 11 1/2"	45, 0
F	Cladding	2	4'	23, 23	S	Internal Joist	1	13' 11 1/2"	45, 0
G	Cladding	1	7' 1"	23, 23	T	Internal Joist	1	12' 9 1/2"	45, 45
H	Header	1	7' 11 1/4"	0, 0	U	Internal Joist	1	10' 9 1/2"	45, 45
I	Rim Joist	1	7' 9 1/4"	0, 0	V	Internal Joist	1	8' 9 1/2"	45, 45
J	Header	1	10' 1 1/4"	0, 0	W	Riser	13	4' 9 3/4"	0, 0
K	Rim Joist	1	9' 11 1/4"	0, 0	X	Stringer	6	14' 2"	0, 0
L	Header	2	3' 11 1/4"	0, 0	Y	Riser	1	7' 1"	0, 0

Cut Angles: L=Left, R=Right, F=Front, S=Side

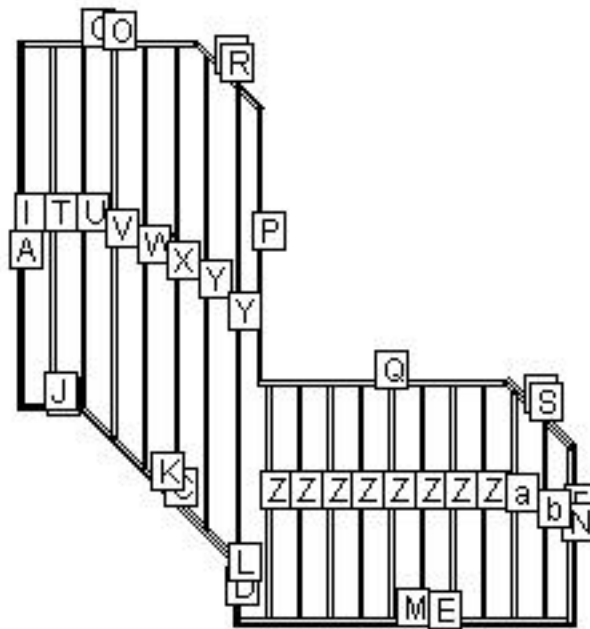


DECK DESIGNER

LABEL NAME			QTY	LENGTH	BEVELS	LABEL NAME			QTY	LENGTH	BEVELS
M	Header		1	3' 11 1/4"	0, 0	Z	Stringer		9	1' 1 1/4"	0, 0

Cut Angles: L=Left, R=Right, F=Front, S=Side

Materials Cut List: Level 2



LABEL NAME		QTY	LENGTH	BEVELS	LABEL NAME		QTY	LENGTH	BEVELS
A	Cladding	1	12'	45, 45	O	Header	1	5' 7 1/4"	0, 0
B	Cladding	1	2' 1/4"	45, 23	P	Rim Joist	1	8' 10 1/2"	0, 0
C	Cladding	1	7' 1 1/2"	23, 23	Q	Header	1	8' 1"	0, 0
D	Cladding	1	2' 1/4"	23, 45	R	Header	1	3'	0, 0
E	Cladding	1	11' 1"	45, 45	S	Header	1	3'	0, 0
F	Cladding	1	5' 10"	45, 23	T	Internal Joist	1	11' 7 1/4"	0, 0
G	Cladding	1	5' 10"	23, 45	U	Internal Joist	1	11' 8 3/4"	0, 0
H	Cladding	2	3' 1"	23, 23	V	Internal Joist	1	12' 8 3/4"	0, 45
I	Rim Joist	1	11' 10 1/4"	0, 0	W	Internal Joist	1	13' 8 3/4"	0, 45
J	Header	1	1' 10"	0, 0	X	Internal Joist	1	14' 8 3/4"	0, 45
K	Header	1	7' 1 1/2"	0, 0	Y	Internal Joist	2	15' 5"	45, 45
L	Rim Joist	1	3' 2 1/4"	0, 0	Z	Internal Joist	8	7' 7 1/4"	0, 0

Cut Angles: L=Left, R=Right, F=Front, S=Side

LABEL NAME		QTY	LENGTH	BEVELS	LABEL NAME		QTY	LENGTH	BEVELS
M	Header	1	10' 8 1/4"	0, 0	a	Internal Joist	1	7' 4 1/2"	45, 0
N	Rim Joist	1	5' 9"	0, 0	b	Internal Joist	1	6' 4 1/2"	45, 0

Cut Angles: L=Left, R=Right, F=Front, S=Side

Component Descriptions

These recommendations are for railing with a 4" gap from deck surface to the bottom of the bottom rail. Always refer to your local building codes to determine if other requirements must be met. Canadian requirements may vary.

TimberTech RadianceRail and AZEK Black and White rail sections are available in 10 ft. sections. See your local TimberTech or AZEK Dealer for more information.

Lumber Materials			
COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Internal Joist	6	2X8X14 Treated	TREATED
Internal Joist	12	2X8X16 Treated	TREATED
Beam	8	2X10X8 Treated	TREATED
Beam	6	2X10X12 Treated	TREATED
Hand Rail	2	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 16'	TIMBERTECH
Hand Rail	5	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 20'	TIMBERTECH
Railing Post	7	4X4X16 Treated	TREATED
Railing Section	4	TimberTech Evolutions BuilderBoard, packaged as 2 - 6' boards - Traditional Walnut - 6'	TIMBERTECH
Railing Section	12	TimberTech Evolutions BuilderBoard, packaged as 2 - 8' boards - Traditional Walnut - 8'	TIMBERTECH
Railing Section	12	TimberTech 36" Metal Baluster Pack - 25" Baluster Height - Black - 6'8"	TIMBERTECH
Cladding	11	TimberTech Earthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Sandy Birch - 12'	TIMBERTECH
Decking	8	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Pecan - 12'	TIMBERTECH
Decking	47	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Pecan - 16'	TIMBERTECH
Decking	14	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Pecan - 20'	TIMBERTECH
Header	23	2X8X8 Treated	TREATED
Header	4	2X8X12 Treated	TREATED
Header	6	2X8X18 Treated	TREATED
Rim Joist	2	2X8X10 Treated	TREATED
Post	1	4X4X8 Treated	TREATED
Post	29	4X4X10 Treated	TREATED
Beam	1	2X10X16 Treated	TREATED
Riser	7	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Sandy Birch - 12'	TIMBERTECH
Beam	1	2X10X10 Treated	TREATED

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Railing Section	4	TimberTech 36" Metal Baluster Stair Pack - 23.75" Baluster Height - Black - 6'8"	TIMBERTECH
Beam	2	2X10X18 Treated	TREATED

To find an AZEK and/or TimberTech Dealer or Contractor in your area, please go to www.timbertech.com

Other Materials

Qty	Description
1	5 LB. 10D Hot-Dip Galvanized Nail
2	1LB. 16D Galvanized Common Nail
4	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
16	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
3	1 LB. 10D X1 1/2" Nail
44	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
7	5" Triple Zinc Angle Clip MP5-TZ
4	1LB. 8D Galvanized Common Nail
2	1 LB. 1-1/2" Joist Hanger Nail
79	Triple Zinc Rafter Tie RT7-TZ
31	Anchor Bolt AB128
31	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
49	80 L.B. Basic Concrete Mix
2	40 LB. Basic Concrete Mix
24	8" X 48" Concrete Form Tube
496	1/2 Galvanized Flat Washer
10	1/2 Galvanized Hex Nut
248	1/2 X 8" Galvanized Carriage Bolt
15	7" Triple Zinc Angle Clip AC7-TZ
56	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
28	TimberTech Evolutions Rail 5"x5" Post Skirt - Traditional Walnut
112	3/8 Galvanized Hex Nut
224	3/8 Galvanized Flat Washer
112	3/8 X 8" Galvanized Carriage Bolt
56	TimberTech Evolutions Rail Hardware Mounting Kit - Traditional Walnut
28	TimberTech Evolutions Rail 5"x5" Post Cover - Traditional Walnut - 42"
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
5	TT/AZEK 100' wire 16/2
24	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
18	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
53	TimberTech Evolutions Rail Foot Block - Traditional Walnut
34	TT/AZEK LED Riser Light - Architectural Bronze
1	TimberTech TOPLoc 100 Sq. Ft. Pack Teak - Teak
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Cedar - Cedar

Qty	Description
5	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
34	1/2 X 6" Galvanized Lag Screw
4	1 LB. 10D Hot-Dip Galvanized Nail
4	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	10 LB. Basic Concrete Mix

LEGAL DISCLAIMER: The suggested design is a construction guide and is **NOT** a finished building plan. It is your responsibility to verify its accuracy, completeness, suitability for your particular site conditions, and compliance with local building codes and practices. Please consult your local building codes for requirements for deck lighting, railing, and stairs.

AZEK Building Products and its affiliates assume no responsibility for any damages, including direct or consequential, personal injuries suffered, or property or economic losses incurred as a result of the information published within this Deck Design, AZEK Building Products and its affiliate websites or Deck Design Detail Report. Before beginning any project, review the instructions carefully. We cannot anticipate all of your working conditions or the characteristics of your materials and tools. For your safety, you should consider your own skill level and use caution, care and good judgment when following the instructions. If you have doubts, concerns or questions, consult local experts, architects, soil engineers or building authorities. Because local zoning and building codes and regulations vary greatly, you should **ALWAYS CHECK WITH LOCAL AUTHORITIES TO ENSURE THAT YOUR PROJECT COMPLIES WITH ALL APPLICABLE CODES AND REGULATIONS.** Always read and observe instructions and safety precautions provided by any tool or equipment manufacturer, and follow all accepted safety procedures.

You are responsible for ensuring that all measurements are correct. Due to the size, shape, location or other considerations, your design may require supporting structures, such as knee braces and bridging between joists and posts and are not included on the materials list and other information provided. **YOU ARE RESPONSIBLE FOR ENSURING THAT YOUR DESIGN IS SAFE AND STRUCTURALLY SOUND FOR ITS SIZE, LOCATION AND ANTICIPATED USE.** You are also responsible for verifying that the design and any substitutions or modifications you make meet all local building codes and regulations.

AZEK Building Products and its affiliates assume no liability or responsibility for your design, construction or use of any product supplied by AZEK Building Products.

YOU ASSUME TOTAL RESPONSIBILITY AND RISK FOR YOUR USE OF THE AZEK BUILDING PRODUCTS DESIGN, THE AZEK BUILDING PRODUCTS WEBSITE AND SUPPLIED DECK DESIGN DETAIL REPORT. AZEK BUILDING PRODUCTS PROVIDES THIS WEB-BASED TOOL, ALL INFORMATION, PRODUCTS, AND SERVICES "AS IS" AND DOES NOT MAKE EXPRESS OR IMPLIED WARRANTIES, REPRESENTATIONS, OR ENDORSEMENTS OF ANY KIND WHATSOEVER (INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE).