



Deck Designer Specification Kit For
TimberTech

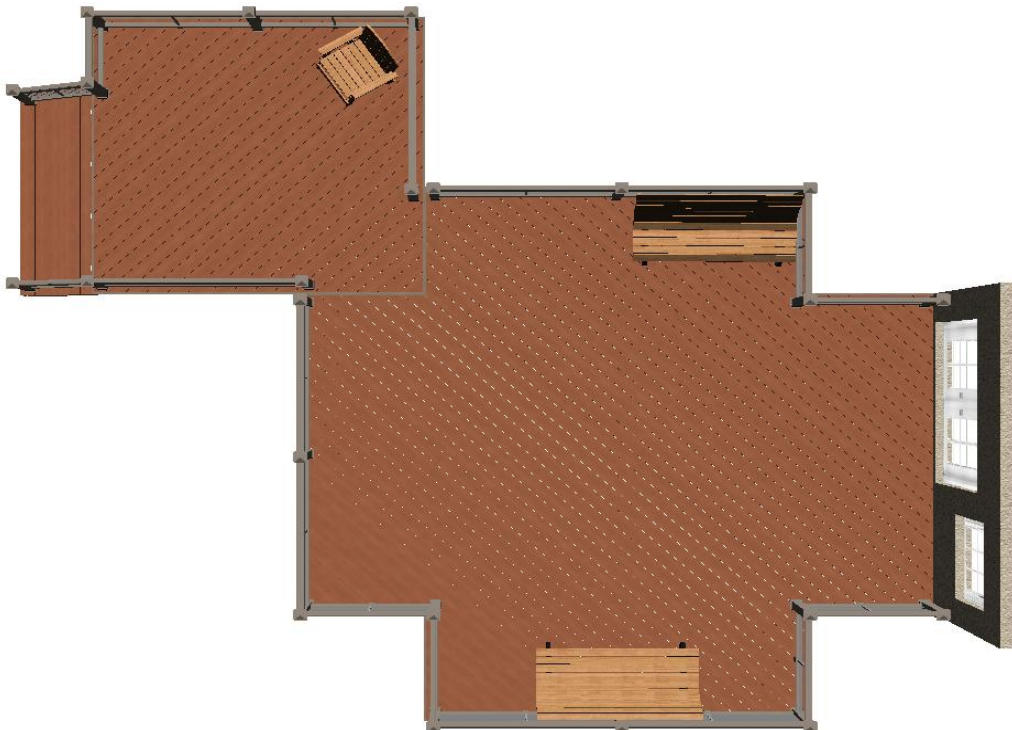
Deck layout diagram



Top view without planks

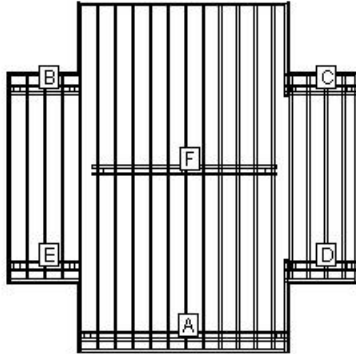


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

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

DECK AND POST HEIGHT:

You selected a height of 36" from the top of the decking to the ground level. The top of the deck support posts will therefore be 27" above ground level.

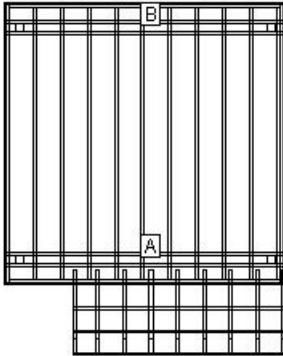
Joists:

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

Stress Analysis: Level 1

Joist Deflection	160
Joist Bending	62
Joist Shear	119
Joist Compression	119
Beam Deflection	1369
Beam Bending	139
Beam Shear	88
Post Stability	144

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 55 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 29" from the top of the decking to the ground level. The top of the deck support posts will therefore be 20" above ground level.

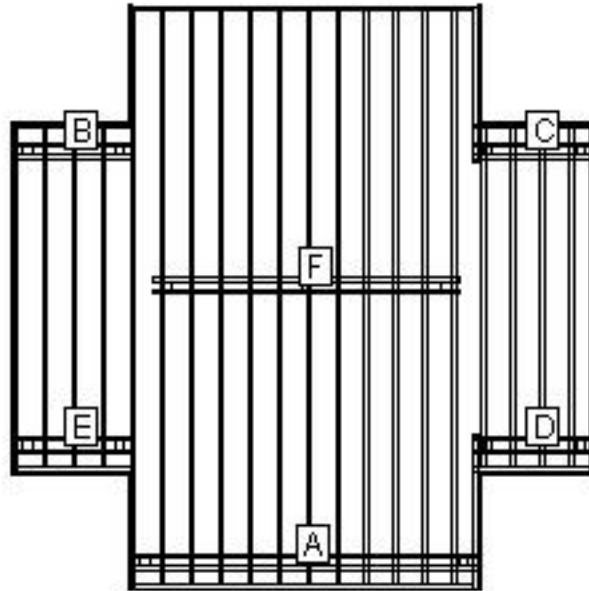
Joists:

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

Stress Analysis: Level 2

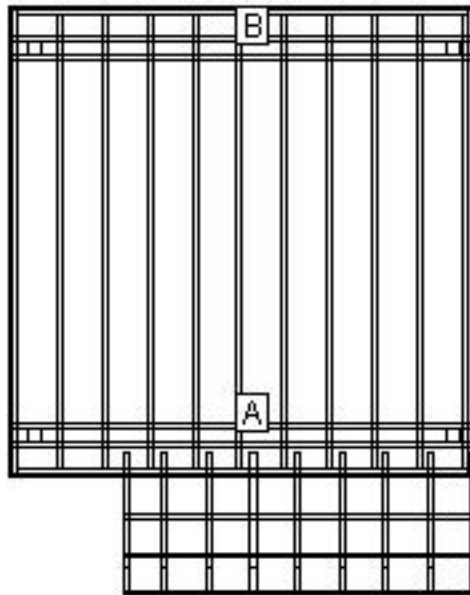
Joist Deflection	305
Joist Bending	96
Joist Shear	143
Joist Compression	143
Beam Deflection	171
Beam Bending	65
Beam Shear	66
Post Stability	243

Beam Layout Level 1



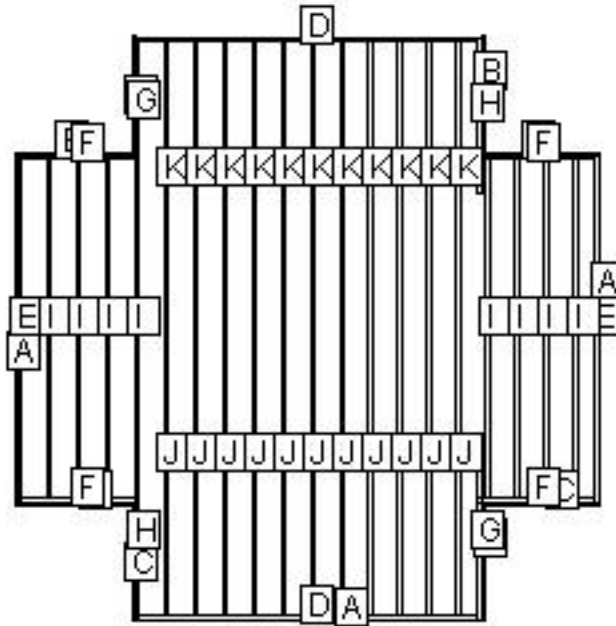
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	11' 10 1/4"	3	5' 5 1/2"
B	4' 1 1/2"	2	3' 2"
C	4' 1 1/2"	2	3' 2"
D	4' 1 1/2"	2	3' 2"
E	4' 1 1/2"	2	3' 2"
F	10' 6"	3	4' 9 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	10' 3 1/4"	2	9' 3 3/4"
B	10' 3 1/4"	2	9' 3 3/4"

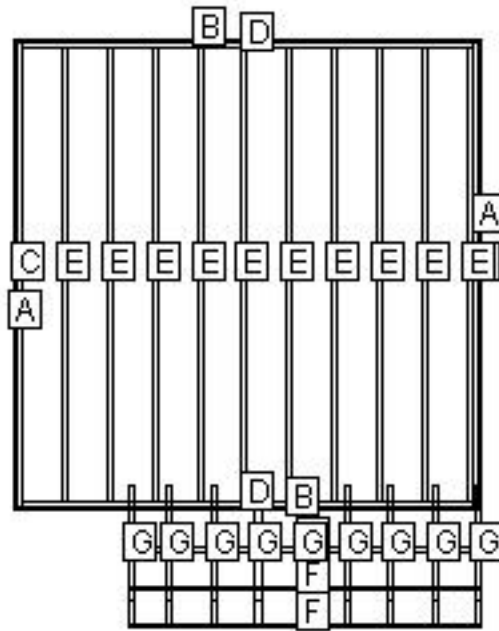
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	3	12'	45, 45	G	Rim Joist	2	5' 2 3/4"	0, 0
B	Cladding	4	4' 1"	45, 45	H	Rim Joist	2	5' 3 3/4"	0, 0
C	Cladding	4	4' 1"	45, 45	I	Internal Joist	8	11' 7 1/4"	0, 0
D	Header	2	11' 7 1/4"	0, 0	J	Internal Joist	11	10' 2 1/2"	0, 0
E	Rim Joist	2	11' 10 1/4"	0, 0	K	Internal Joist	11	9' 4 3/4"	0, 0
F	Header	4	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	2	10' 6"	45, 45	E	Internal Joist	10	10' 1 1/4"	0, 0
B	Cladding	2	10' 5"	45, 45	F	Riser	3	7' 10 1/2"	0, 0
C	Rim Joist	2	10' 4 1/4"	0, 0	G	Pre Cut Stringer	9	3' 2 1/4"	0, 0
D	Header	2	10' 1/4"	0, 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	13	2X8X10 Treated	TREATED
Internal Joist	33	2X8X12 Treated	TREATED
Beam	8	2X10X12 Treated	TREATED
Railing Post	2	4X4X14 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	7	TimberTech 6' RadianceRail Custom Rail Pack - Slate Gray - 6'	TIMBERTECH
Railing Section	7	TimberTech 8' RadianceRail Custom Rail Pack - Slate Gray - 8'	TIMBERTECH
Baluster	20	TT/AZEK CableRail 36" Intermediate Baluster [1 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1" flat head screws] - Silver	TIMBERTECH
Cladding	11	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Silver Maple - 12'	TIMBERTECH
Decking	49	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Rosewood - 16'	TIMBERTECH
Decking	14	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Rosewood - 20'	TIMBERTECH
Header	1	2X8X8 Treated	TREATED
Header	2	2X8X16 Treated	TREATED
Rim Joist	2	2X8X18 Treated	TREATED
Post	6	4X4X8 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Pre Cut Stringer	9	3-Step Treated Stair Stringer	TREATED
Riser	3	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Silver Maple - 12'	TIMBERTECH
Railing Section	2	TT/AZEK CableRail 36" Stair Intermediate Baluster [1 angled 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1 flat head screws] - Silver	TIMBERTECH

To find a TimberTech Dealer or Contractor in your area, please go to www.timbertech.com

Other Materials

Qty	Description
1	TT/AZEK CableRail 500' Stainless Steel Cable - Stainless - 500'
3	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
58	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
12	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
4	1LB. 8D Galvanized Common Nail
3	1 LB. 1-1/2" Joist Hanger Nail
72	Triple Zinc Rafter Tie RT7-TZ
18	Anchor Bolt AB128
18	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
28	80 L.B. Basic Concrete Mix
2	40 LB. Basic Concrete Mix
1	10 LB. Basic Concrete Mix
14	8" X 48" Concrete Form Tube
288	1/2 Galvanized Flat Washer
6	1/2 Galvanized Hex Nut
144	1/2 X 8" Galvanized Carriage Bolt
46	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
23	TimberTech 5" Post Skirt - Slate Gray
92	3/8 Galvanized Hex Nut
184	3/8 Galvanized Flat Washer
92	3/8 X 8" Galvanized Carriage Bolt
23	TimberTech 5" x 5" Post Sleeve - Slate Gray - 42"
23	TimberTech 5" Post Cap - Slate Gray
1	TT/AZEK CableRail Cable Cutters
1	TT/AZEK CableRail Accessory Kit [Quick-Connect release tool, lacing needle, hanger bolt installation tool] -
19	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
1	TT/AZEK CableRail Protector Sleeves [Pack of 20] - Stainless
11	2 Pieces of Joist Material Nailed to Each Joist Splice
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Dark Gray - Dark Gray
5	TimberTech Cortex - 100 LF Evolutions Pacific Rosewood - Pacific Rosewood
24	1/2 X 6" Galvanized Lag Screw
3	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'

Qty	Description
3	1 LB. 10D Hot-Dip Galvanized Nail
9	7" Triple Zinc Angle Clip AC7-TZ
1	TT/AZEK Transformer - 12 Volt 150 W
1	TT/AZEK Decklites Dimmer
1	TT/AZEK 100' wire 16/2
12	TT/AZEK LED Riser Light - Architectural Bronze

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.

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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.

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