



Deck Designer Specification Kit For  
**TimberTech**

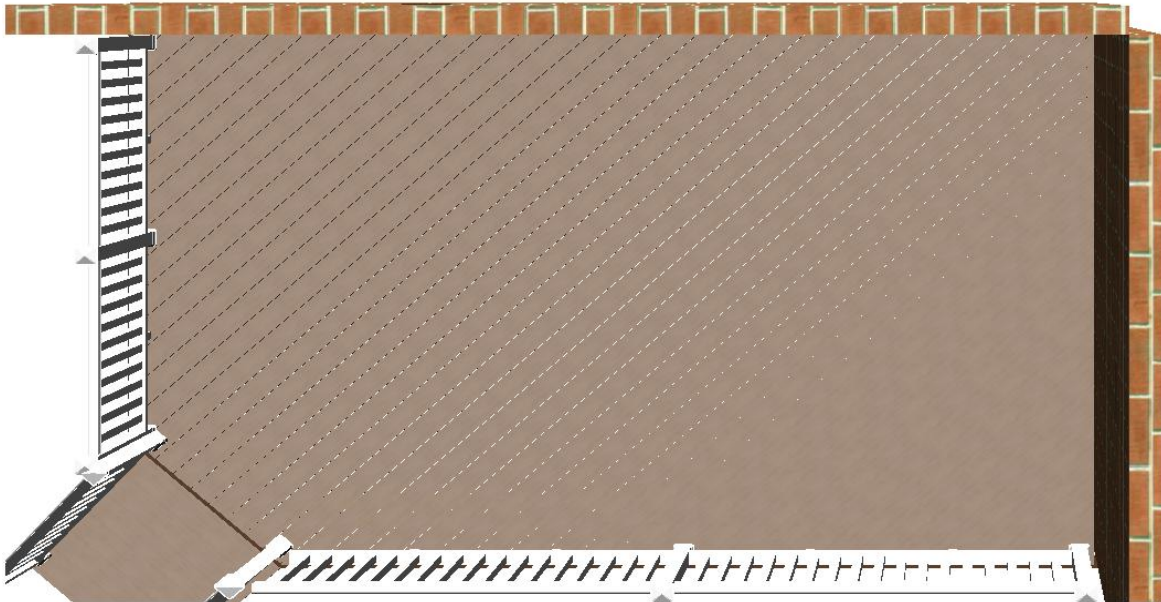
**Deck layout diagram**



Top view without planks

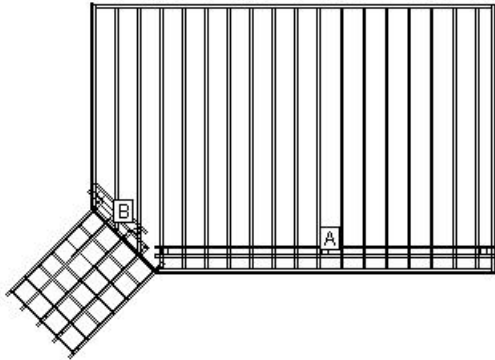


Bottom view with planks



Top view with planks

Permit Page: Level 1



**LOAD AND SUPPORT:**

Your deck will support a 41 PSF live load.  
Posts have 36" below ground support.

**DECK AND POST HEIGHT:**

You selected a height of 54" from the top of the decking to the ground level. The top of the deck support posts will therefore be 45" above ground level.

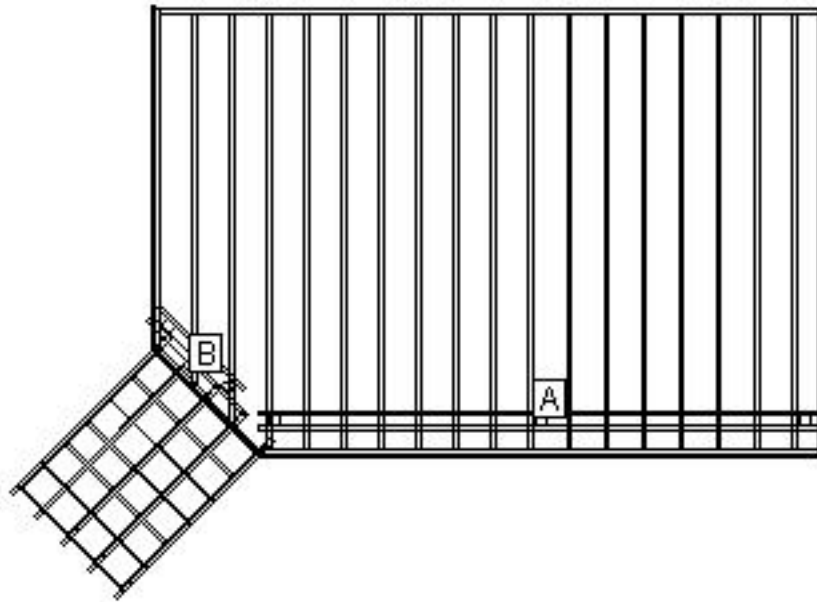
**Joists:**

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

**Stress Analysis: Level 1**

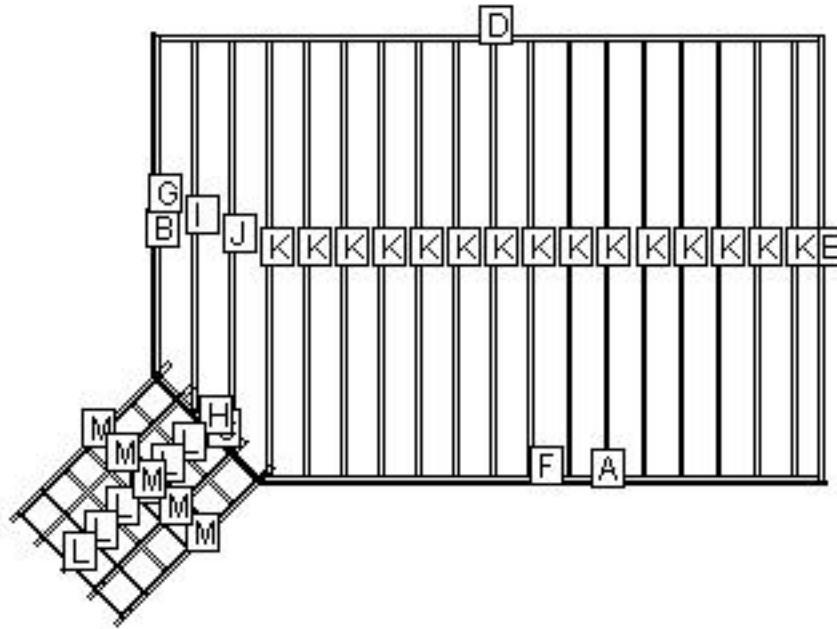
Joist Deflection	120
Joist Bending	51
Joist Shear	110
Joist Compression	110
Beam Deflection	423
Beam Bending	94
Beam Shear	77
Post Stability	145

### Beam Layout Level 1



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	15' 1 1/4"	3	7' 1"
B	3' 6 1/2"	2	2' 3 1/2"

Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	15' 2"	23, 45	H	Header	1	3' 11 1/4"	0, 0
B	Cladding	1	9' 2"	45, 23	I	Internal Joist	1	9' 10 3/4"	0, 45
C	Cladding	1	4'	23, 23	J	Internal Joist	1	10' 10 3/4"	0, 45
D	Header	1	17' 7 1/4"	0, 0	K	Internal Joist	15	11' 7 1/4"	0, 0
E	Rim Joist	1	11' 10 1/4"	0, 0	L	Riser	6	4'	0, 0
F	Header	1	14' 11 1/4"	0, 0	M	Pre Cut Stringer	5	6' 8"	0, 0
G	Rim Joist	1	9' 1"	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.

<b>Lumber Materials</b>			
<b>COMPONENT</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>WOOD TYPE</b>
Beam	2	2X10X16 Treated	TREATED
Pre Cut Stringer	10	3-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Railing Post	1	4X4X18 Treated	TREATED
Railing Section	6	TimberTech 8' x 36" RadianceRail Rail Kit - White - 8'	TIMBERTECH
Cladding	3	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Rustic Elm - 12'	TIMBERTECH
Decking	2	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Sandy Birch - 12'	TIMBERTECH
Decking	24	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Sandy Birch - 16'	TIMBERTECH
Decking	8	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Sandy Birch - 20'	TIMBERTECH
Header	1	2X8X8 Treated	TREATED
Header	1	2X8X16 Treated	TREATED
Header	1	2X8X18 Treated	TREATED
Rim Joist	2	2X8X10 Treated	TREATED
Rim Joist	17	2X8X12 Treated	TREATED
Post	3	4X4X8 Treated	TREATED
Beam	1	2X10X8 Treated	TREATED
Riser	3	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Rustic Elm - 12'	TIMBERTECH

To find a TimberTech Dealer or Contractor in your area, please go to [www.timbertech.com](http://www.timbertech.com)

### Other Materials

Qty	Description
2	1 LB. 10D X1 1/2" Nail
4	1 LB. 10D Hot-Dip Galvanized Nail
32	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
2	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
3	7" Triple Zinc Angle Clip AC7-TZ
1	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	1LB. 8D Galvanized Common Nail
1	1 LB. 1-1/2" Joist Hanger Nail
19	Triple Zinc Rafter Tie RT7-TZ
5	Anchor Bolt AB128
5	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
8	80 L.B. Basic Concrete Mix
1	10 LB. Basic Concrete Mix
4	8" X 48" Concrete Form Tube
80	1/2 Galvanized Flat Washer
2	1/2 Galvanized Hex Nut
40	1/2 X 8" Galvanized Carriage Bolt
5	7" Triple Zinc Angle Clip AC7-TZ
18	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
9	TimberTech 5" Post Skirt - White
36	3/8 Galvanized Hex Nut
72	3/8 Galvanized Flat Washer
36	3/8 X 8" Galvanized Carriage Bolt
9	TimberTech 5" x 5" Post Sleeve - White - 42"
9	TimberTech 5" Post Cap - White
1	TimberTech TOPLoc 100 Sq. Ft. Pack Cedar - Cedar
1	TimberTech TOPLoc Fascia Pack Rustic Elm - Rustic Elm
3	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
60	1/2 X 6" Galvanized Lag Screw



**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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