



Deck Designer Specification Kit For
TimberTech

Deck layout diagram



Top view without planks

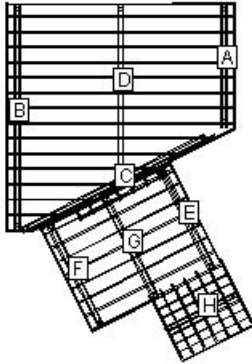


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 45 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 72" from the top of the decking to the ground level. The top of the deck support posts will therefore be 63" above ground level.

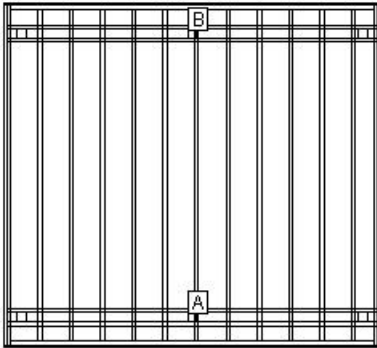
Joists:

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

Stress Analysis: Level 1

Joist Deflection	1316
Joist Bending	209
Joist Shear	184
Joist Compression	184
Beam Deflection	132
Beam Bending	56
Beam Shear	55
Post Stability	103

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 72 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 79" from the top of the decking to the ground level. The top of the deck support posts will therefore be 70" above ground level.

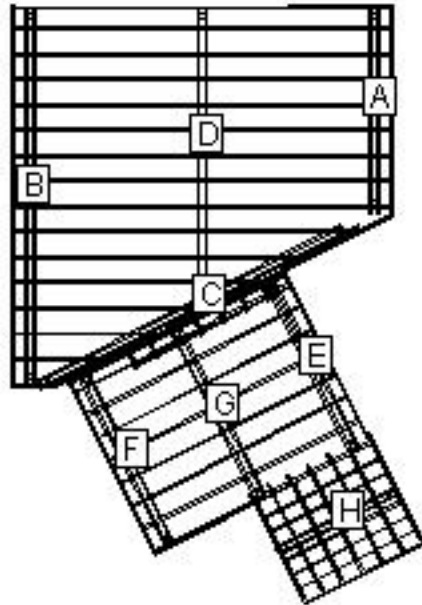
Joists:

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

Stress Analysis: Level 2

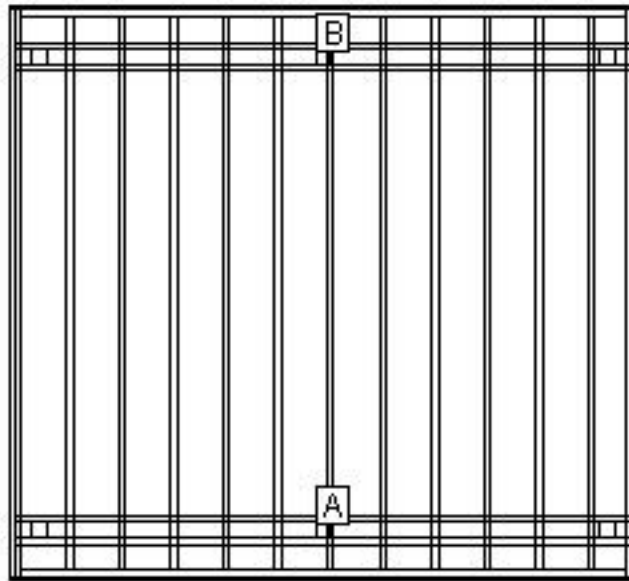
Joist Deflection	243
Joist Bending	82
Joist Shear	134
Joist Compression	134
Beam Deflection	1394
Beam Bending	185
Beam Shear	126
Post Stability	218

Beam Layout Level 1



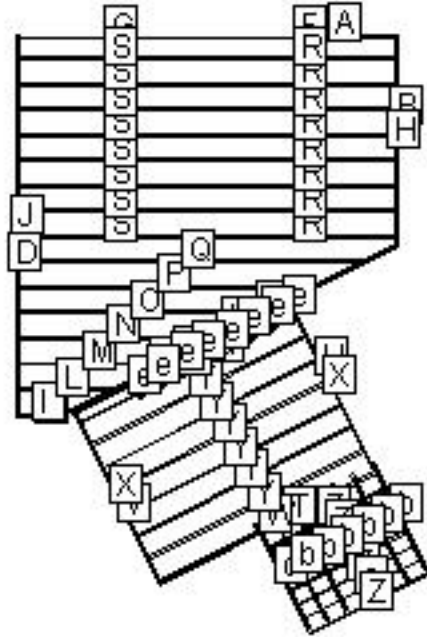
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	10' 9 1/4"	2	9' 9 3/4"
B	19' 10 1/4"	3	9' 5 1/2"
C	18' 8"	3	8' 7"
D	14' 9 1/4"	3	6' 11"
E	10'	2	9' 1/2"
F	10'	2	9' 1/2"
G	10'	2	9' 1/2"
H	7'	2	6' 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	11' 10 1/4"	3	5' 5 1/2"
B	11' 10 1/4"	3	5' 5 1/2"

Materials Cut List: Level 1



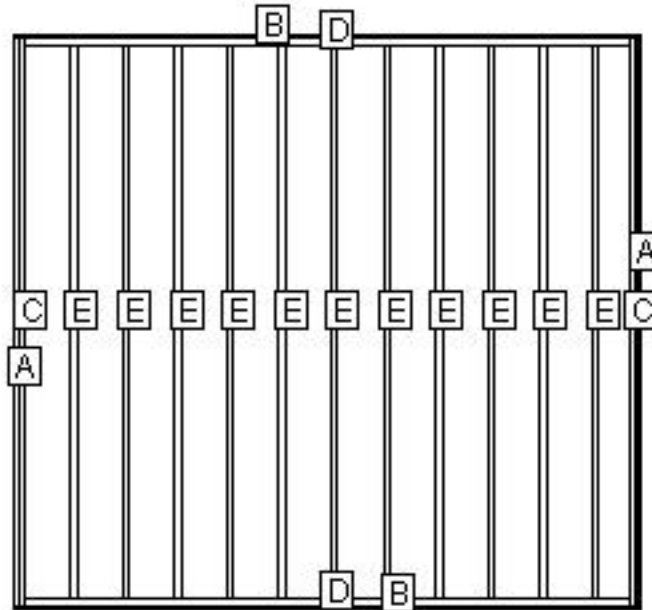
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	5' 5 1/2"	45, 0	Q	Internal Joist	1	17' 9 1/2"	0, 63
B	Cladding	1	11'	31, 45	R	Internal Joist	8	9' 9 1/2"	0, 0
C	Cladding	1	2' 5"	45, 14	S	Internal Joist	8	9' 9 3/4"	0, 0
D	Cladding	1	20'	45, 45	T	Cladding	2	12' 10 1/4"	45, 45
E	Cladding	1	19' 9"	14, 31	U	Cladding	1	10' 1 3/4"	45, 45
F	Rim Joist	1	9' 11 1/4"	0, 0	V	Cladding	1	10' 1 3/4"	45, 45
G	Rim Joist	1	9' 11"	0, 0	W	Rim Joist	2	12' 8 1/2"	0, 0
H	Header	1	10' 9"	0, 0	X	Header	2	9' 9"	0, 0
I	Rim Joist	1	2' 4"	0, 0	Y	Internal Joist	7	12' 5 1/2"	0, 0
J	Header	1	19' 7 1/4"	0, 0	Z	Riser	6	7'	0, 0
K	Header	1	19' 8 1/4"	0, 0	a	Riser	1	7'	0, 0
L	Internal Joist	1	4' 9 1/4"	0, 63	b	Pre Cut Stringer	6	7' 1"	0, 0

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Internal Joist	1	7' 4 1/2"	0, 63	c	Pre Cut Stringer	1	7' 1"	0, 0
N	Internal Joist	1	10'	0, 63	d	Riser	1	9' 3 3/4"	0, 0
O	Internal Joist	1	12' 7"	0, 63	e	Stringer	8	1' 3"	0, 0
P	Internal Joist	1	15' 2 1/4"	0, 63					

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	11'	45, 45	D	Header	2	11' 7 1/4"	0, 0
B	Cladding	2	12'	45, 45	E	Internal Joist	11	10' 7 1/4"	0, 0
C	Rim Joist	2	10' 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	11	2X8X14 Treated	TREATED
Internal Joist	2	2X8X16 Treated	TREATED
Internal Joist	3	2X8X18 Treated	TREATED
Internal Joist	23	2X8X10 Treated	TREATED
Beam	6	2X10X12 Treated	TREATED
Beam	14	2X10X10 Treated	TREATED
Beam	2	2X10X16 Treated	TREATED
Pre Cut Stringer	14	4-Step Treated Stair Stringer	TREATED
Beam	2	2X10X8 Treated	TREATED
Hand Rail	4	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 16'	TIMBERTECH
Hand Rail	4	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 20'	TIMBERTECH
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	6	4X4X16 Treated	TREATED
Railing Section	10	TimberTech Evolutions BuilderBoard, packaged as 2 - 6' boards - Traditional Walnut - 6'	TIMBERTECH
Railing Section	8	TimberTech Evolutions BuilderBoard, packaged as 2 - 8' boards - Traditional Walnut - 8'	TIMBERTECH
Railing Section	16	TimberTech 36" Metal Baluster Pack - 25" Baluster Height - Black - 6'/8'	TIMBERTECH
Cladding	14	TimberTech Earthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Silver Maple - 12'	TIMBERTECH
Decking	36	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 12'	TIMBERTECH
Decking	42	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 16'	TIMBERTECH
Decking	22	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 20'	TIMBERTECH
Rim Joist	1	2X8X8 Treated	TREATED
Post	23	4X4X8 Treated	TREATED
Riser	8	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Silver Maple - 12'	TIMBERTECH

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Railing Section	3	TimberTech 36" Metal Baluster Stair Pack - 23.75" Baluster Height - Black - 6'8"	TIMBERTECH
Railing Post	1	4X4X12 Treated	TREATED
Header	15	2X8X12 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
4	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
4	1 LB. 10D Hot-Dip Galvanized Nail
58	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
12	5" Triple Zinc Angle Clip MP5-TZ
11	7" Triple Zinc Angle Clip AC7-TZ
1	5" Triple Zinc Angle Clip MP5-TZ
5	1LB. 8D Galvanized Common Nail
4	1 LB. 1-1/2" Joist Hanger Nail
97	Triple Zinc Rafter Tie RT7-TZ
25	Anchor Bolt AB128
25	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
39	80 L.B. Basic Concrete Mix
2	40 LB. Basic Concrete Mix
4	10 LB. Basic Concrete Mix
19	8" X 48" Concrete Form Tube
400	1/2 Galvanized Flat Washer
8	1/2 Galvanized Hex Nut
200	1/2 X 8" Galvanized Carriage Bolt
15	7" Triple Zinc Angle Clip AC7-TZ
58	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
29	TimberTech Evolutions Rail 5"x5" Post Skirt - Traditional Walnut
116	3/8 Galvanized Hex Nut
232	3/8 Galvanized Flat Washer
116	3/8 X 8" Galvanized Carriage Bolt
58	TimberTech Evolutions Rail Hardware Mounting Kit - Traditional Walnut
29	TimberTech Evolutions Rail 5"x5" Post Cover - Traditional Walnut - 42"
20	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
1	TT/AZEK Decklites Dimmer
2	TT/AZEK 100' wire 16/2
1	TT/AZEK Transformer - 12 Volt 150 W
52	TimberTech Evolutions Rail Foot Block - Traditional Walnut
9	2 Pieces of Joist Material Nailed to Each Joist Splice
29	TT/AZEK LED Riser Light - Architectural Bronze
1	TimberTech Cortex - 100 LF Evolutions Rustic Elm - Rustic Elm
1	TimberTech TOPLoc Fascia Bit
3	TimberTech TOPLoc Fascia Pack Dark Gray - Dark Gray

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
30	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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