





Deck Designer Specification Kit For

TimberTech





Deck layout diagram



Top view without planks

Bottom view with planks



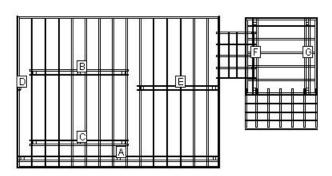
Top view with planks

www.TimberTech.com Page 2





Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 59 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:

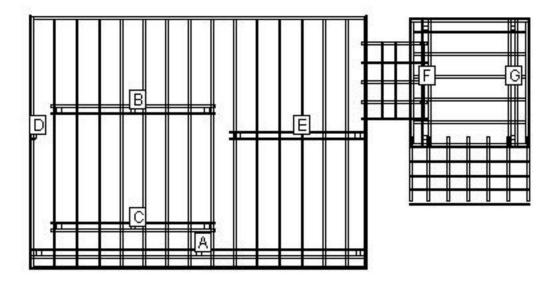
Set joists on top of beams, 16"; center to center.

Stress Anaysis: Level 1		
Joist Deflection	1754	
Joist Bending	245	
Joist Shear	202	
Joist Compression	202	
Beam Deflection	191	
Beam Bending	75	
Beam Shear	69	
Post Stability	156	





Beam Layout Level 1

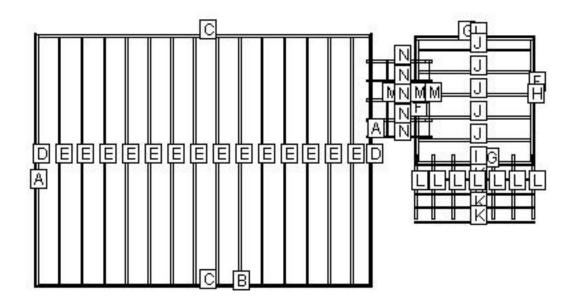


BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	19' 10 1/4"	3	9' 5 1/2"
В	9' 9"	3	4' 4 3/4"
С	9' 9"	3	4' 4 3/4"
D	3"	1	0
E	8' 1 1/4"	2	7' 1 3/4"
F	7' 5 1/4"	2	6' 5 3/4"
G	7' 5 1/4"	2	6' 5 3/4"





Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
А	Cladding	2	15'	45, 45	н	Header	2	7' 2 1/4"	0, 0
В	Cladding	1	20'	45, 45	I	Rim Joist	2	6' 11 1/4"	0, 0
С	Header	2	19' 7 1/4"	0, 0	J	Internal Joist	5	6' 8 1/4"	0, 0
D	Rim Joist	2	14' 10 1/4"	0, 0	K	Riser	4	7' 1"	0, 0
Е	Internal Joist	14	14' 7 1/4"	0, 0	L	Pre Cut Stringer	7	3' 11 1/2"	0, 0
F	Cladding	2	7' 7"	45, 45	Μ	Riser	4	4' 7"	0, 0
G	Cladding	2	7' 1"	45, 45	Ν	Stringer	5	4' 4 1/2"	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	
Beam	10	2X10X10 Treated	TREATED	
Rim Joist	16	2X8X16 Treated	TREATED	
Beam	5	2X10X8 Treated	TREATED	
Pre Cut Stringer	7	4-Step Treated Stair Stringer	TREATED	
Hand Rail	1	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Rosewood - 16'	TIMBERTECH	
Hand Rail	4	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Rosewood - 20'	TIMBERTECH	
Railing Post	1	4X4X8 Treated	TREATED	
Railing Post	5	4X4X16 Treated	TREATED	
Railing Section	6	TimberTech Evolutions BuilderBoard, packaged as 2 - 6' boards - Brick - 6'	TIMBERTECH	
Railing Section	7	TimberTech Evolutions BuilderBoard, packaged as 2 - 8' boards - Brick - 8'	TIMBERTECH	
Railing Section	9	TimberTech 36" Metal Baluster Pack - 25" Baluster Height - Black - 6'/8'	TIMBERTECH	
Cladding	8	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Rustic Elm - 12'	TIMBERTECH	
Decking	2	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 12'	TIMBERTECH	
Decking	13	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 16'	TIMBERTECH	
Decking	32	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Rustic Elm - 20'	TIMBERTECH	
Header	3	2X8X8 Treated	TREATED	
Header	1	2X8X12 Treated	TREATED	
Header	3	2X8X18 Treated	TREATED	
Post	12	4X4X8 Treated	TREATED	
Rim Joist	3	2X8X14 Treated	TREATED	
Riser	4	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Rustic Elm - 12'	TIMBERTECH	
Railing Section	4	TimberTech 36" Metal Baluster Stair Pack - 23.75" Baluster Height - Black - 6'/8'	TIMBERTECH	

Lumbor Matorials





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





Other Materials

Qty	Description
3	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
1	1 LB. 10D Hot-Dip Galvanized Nail
38	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
8	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
16	Anchor Bolt AB128
16	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
25	80 L.B. Basic Concrete Mix
1	60 L.B. Basic Concrete Mix
1	10 LB. Basic Concrete Mix
12	8" X 48" Concrete Form Tube
256	1/2 Galvanized Flat Washer
6	1/2 Galvanized Hex Nut
128	1/2 X 8" Galvanized Carriage Bolt
3	1LB. 8D Galvanized Common Nail
2	1 LB. 1-1/2" Joist Hanger Nail
54	Triple Zinc Rafter Tie RT7-TZ
12	7" Triple Zinc Angle Clip AC7-TZ
42	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
21	TimberTech Evolutions Rail 5"x5" Post Skirt - Brick
84	3/8 Galvanized Hex Nut
168	3/8 Galvanized Flat Washer
84	3/8 X 8" Galvanized Carriage Bolt
42	TimberTech Evolutions Rail Hardware Mounting Kit - Classic Black
21	TimberTech Evolutions Rail 5"x5" Post Cover - Brick - 42"
39	TimberTech Evolutions Rail Foot Block - Classic Black
1	TimberTech Cortex - 100 LF Evolutions Rustic Elm - Rustic Elm
2	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
40	1/2 X 6" Galvanized Lag Screw



TimberTech



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).