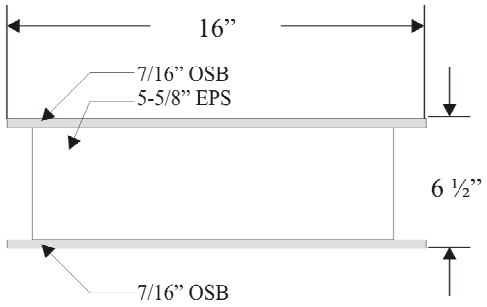
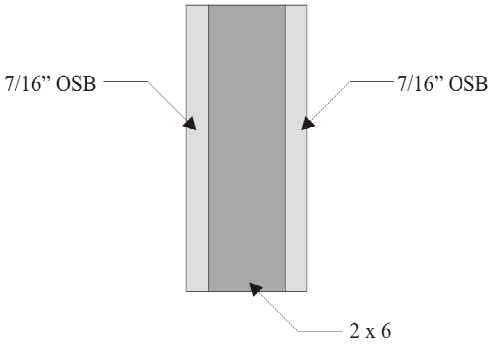
Polydeck 16

Panels & Loads

Panel Weight: 4.6 lbs. / lin. ft.



Reinforced Beam Weight: 3 lbs. / lin. ft.

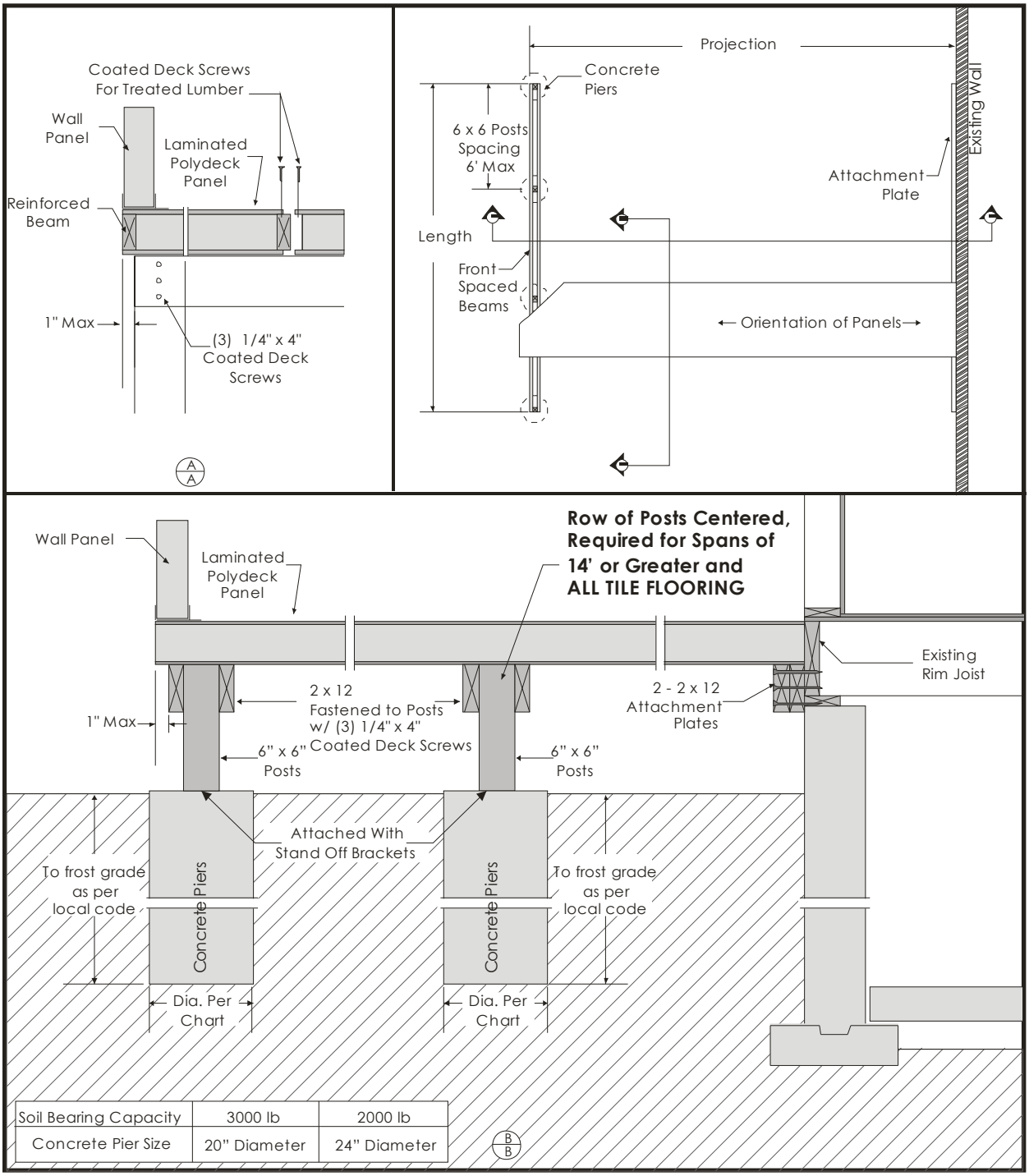


Beam Span	*L/360*	*6ft Max Post Spacing*
18’	44 PSF	Using Reinforced Beams
17’	50 PSF	Using Reinforced Beams
16’	56 PSF	Using Reinforced Beams
15’	62 PSF	Using Reinforced Beams
14’	68 PSF	Using Reinforced Beams
13’	74 PSF	Using Reinforced Beams
12’	80 PSF	Using Reinforced Beams
11’	80 PSF	Using Reinforced Beams
Floor uplift 135 m. p. h.		

Core – Expanded Polystyrene
D = 1.5 PCF
E = 320 – 360 PSI
G = 460 – 500 PSI
F_T = 40 – 50 PSI
F_V = 18 – 22 PSI
Oriented Strand Board (OSB)
MR = 644 PSI
E = 7.24 x 10^6 PSI

Note:
D = Density
E = Modulus of Elasticity
G = Modulus of Rigidity
F = Allowable Stress
T = Tension
V = Shear
MR = Modulus of Rupture

Specifications



Installation

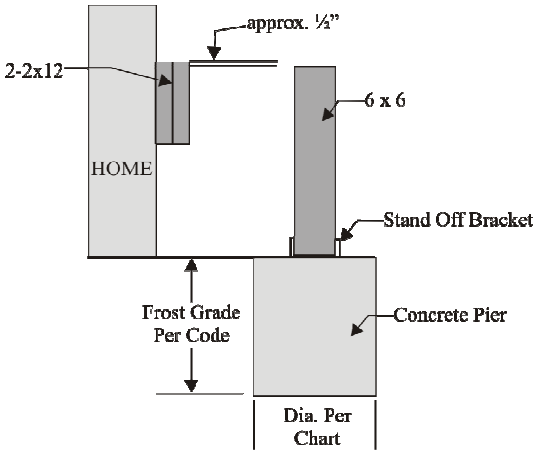
Using string and stakes lay out the perimeter of the planned Polydeck 16.

Each row of posts will run parallel to the home. Consult the load charts and Polydeck 16 specifications chart when determining the spacing between the rows. Space your rows in order to comply with local building codes. Compliance with building codes is the responsibility of the installer. Spacing of posts in a row should be divided evenly along the width of the Polydeck 16, not to exceed 6' on center.

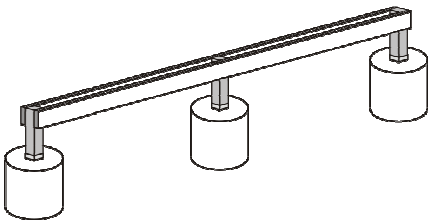
NOTE: A center row of posts is required for all spans greater than 14' and ALL TILE FLOORS.

Once you have the locations for your posts, pour concrete piers to frost grade as required by your local building codes. Consult the Polydeck 16 specifications chart to determine the diameter of the piers.

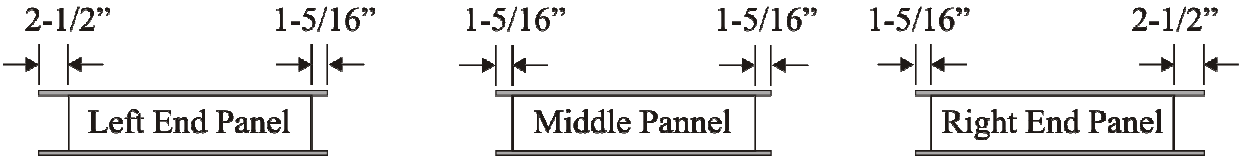
After the concrete has cured, attach 6x6 posts to the piers with stand off brackets. The top of the posts should be approximately ½" below the top edge of the 2x12 ledger boards attached to the home.



Level and secure 2x12 beams to both sides of the posts running parallel to the home. The beams should be mounted even with the top edge of the 2x12 ledger boards secured to the home. It is important that the beams be above the top of the posts.

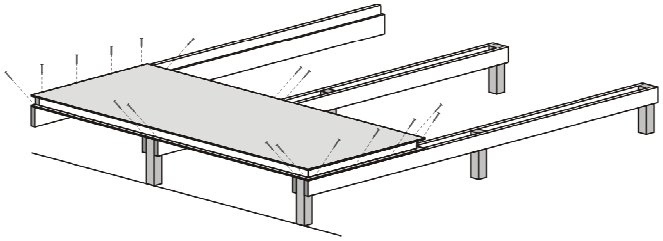


Place a Polydeck 16 Left End Panel on the foundation. The Left End Panels have a recess of 2-1/2" on the outside edge of the panel and 1-5/16" on the interior edge. Middle panels have a recess of 1-5/16" on both sides. Slide the panel to the left edge of the foundation. Place the end of the panel over the 2x12 ledger boards secured to the home.



Secure the panel to the ledger boards attached to the home.

Secure the panel through the bottom layer of OSB and into the 2x12 beams. Be sure to counter sink the heads of the screws so they will not interfere with the reinforced beams that will be inserted into the recessed areas.



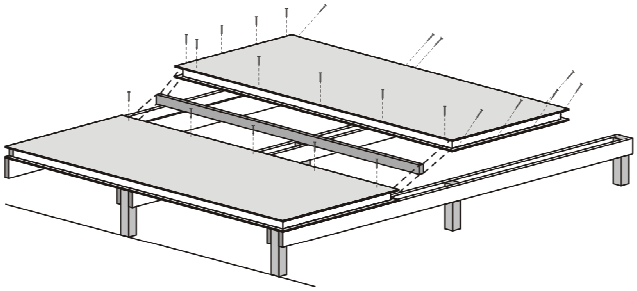
Insert a reinforced beam into the recessed edge of the first panel on the side that the second panel will attach to.

Slide the second panel over the reinforced beam and over the ledger boards attached to the home.

Secure the second panel to the 2x12 beams and the ledger boards.

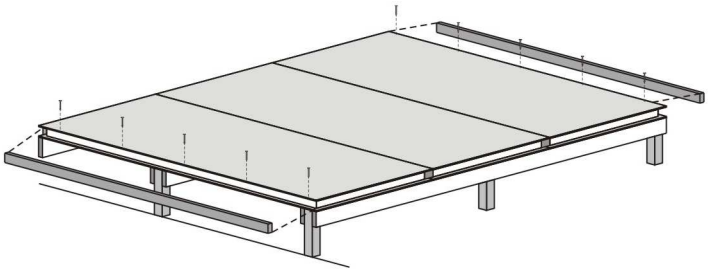
Secure both panels to the reinforced beam.

Repeat these steps to install the remaining panels.



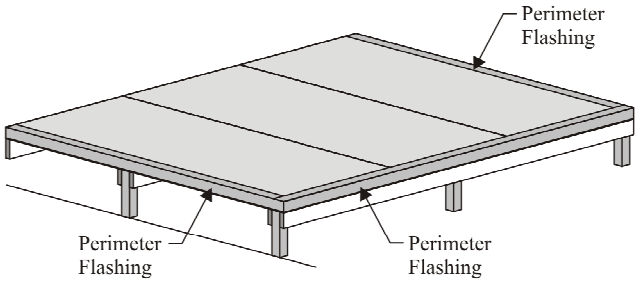
Once all the panels are installed, insert a reinforced beam along both sides of the deck. If the system has been ordered to accommodate lumber at the end of the panels, there will be a recess to insert 2x6 lumber into the end of the panels.

Secure the panels to all perimeter lumber.



After completing the deck, flash along the perimeter with suitable material.

If the base channel to be installed has a thermal break, be certain not to bridge the gap of the thermal break with the flashing. Stop the flashing just before the thermal break or use a material with a low thermal conductivity such as vinyl.



*Please note that the supplied reinforced beams are treated with ACQ and can damage metal flashing. Take care to use a barrier between the flashing and the end of the reinforced beams.

