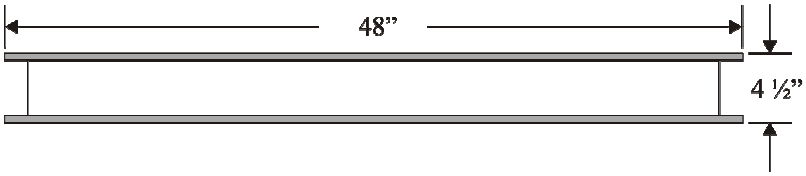
Polydeck

Panels & Loads

2 x 4 System
Panel Weight: 16.8 lbs. / lin. ft.



Beam Span	***L/180***	***L/240***	***L/360***
4’	128 psf	96 psf	64 psf
6’	70 psf	52 psf	35 psf

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

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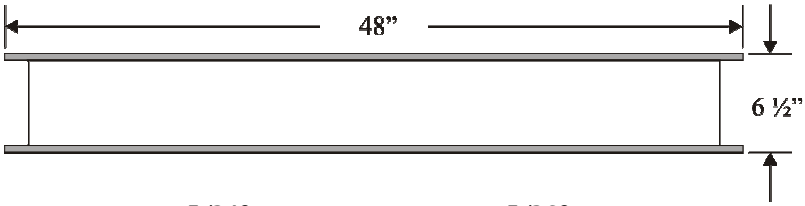
2 x 6 System
Panel Weight: 17.8 lbs. / lin. ft.



Beam Span	***L/180***	***L/240***	***L/360***
4’	206 psf	154 psf	103 psf
6’	119 psf	89 psf	60 psf
8’	75 psf	56 psf	38 psf

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
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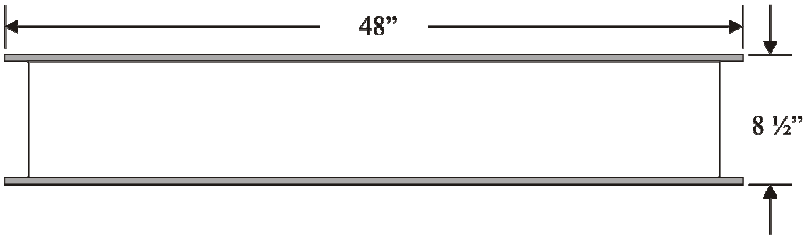
2 x 8 System
Panel Weight: 18.8 lbs. / lin. ft.



Beam Span	***L/180***	***L/240***	***L/360***
4’	275 psf	206 psf	138 psf
6’	163 psf	122 psf	82 psf
8’	106 psf	80 psf	53 psf
10’	74 psf	56 psf	38 psf
12’	53 psf	40 psf	28 psf

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:
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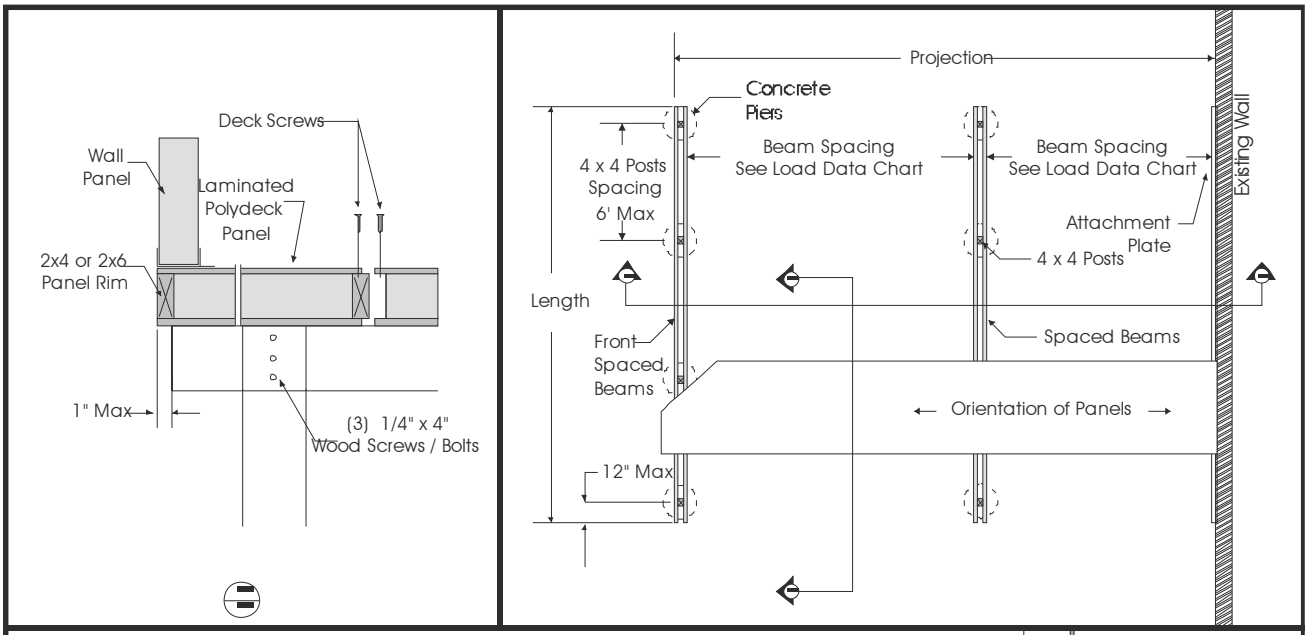
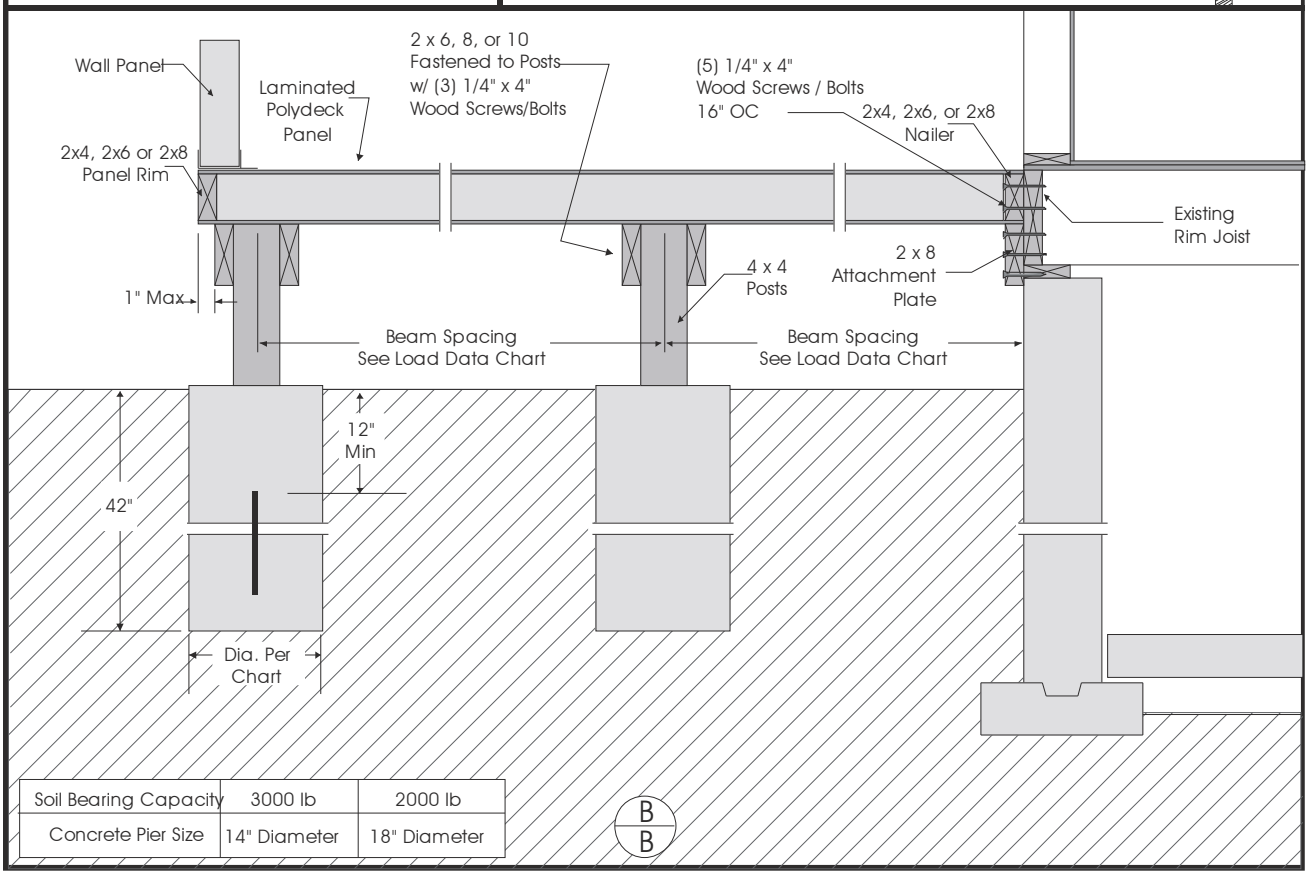
Specifications



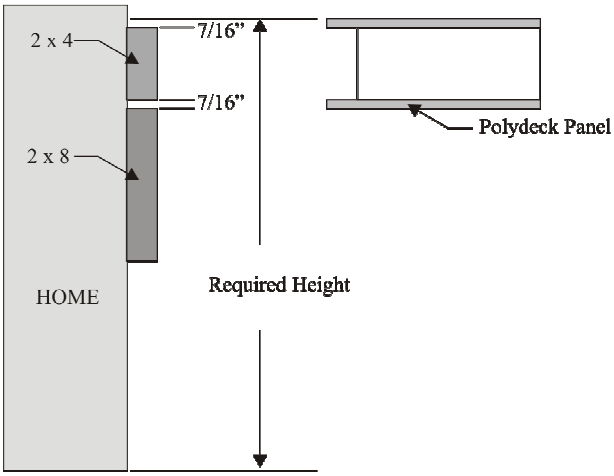


Soil Bearing Capacity	3000 lb	2000 lb
Concrete Pier Size	14" Diameter	18" Diameter

Mounting

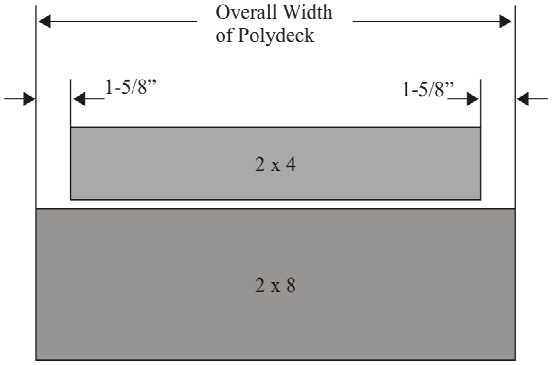
(The following instructions are for a 2x4 system. Substitute the correct lumber for the 2x6 and 2x8 systems.)

Strike a level chalk or pencil line on the side of the home 7/16” below the desired height of the finished Polydeck.



Beginning 1-5/8” in from each end of the Polydeck, secure 2x4 lumber to the side of the home keeping the top edge of the 2x4 even with the above reference line.

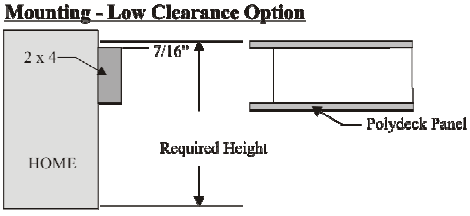
Strike another line 7/16” below the bottom edge of the 2x4. Secure 2x8 lumber to the side of the home keeping the top edge even with this reference line. The 2x8 will be the same length as the overall width of the Polydeck.

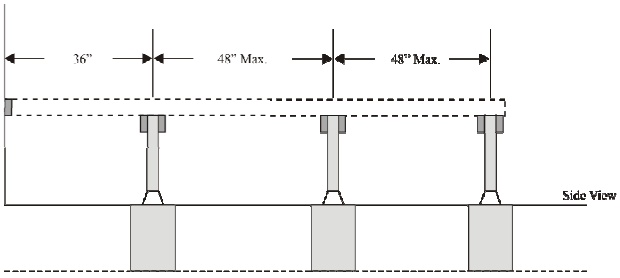


The standard mounting option should be used whenever clearance allows. In cases with less than 12” of unobstructed space, the low clearance mounting option may be used.

NOTE: The low clearance option requires a special configuration for the support beams beneath the deck. Please see below.

Mounting - Low Clearance Option





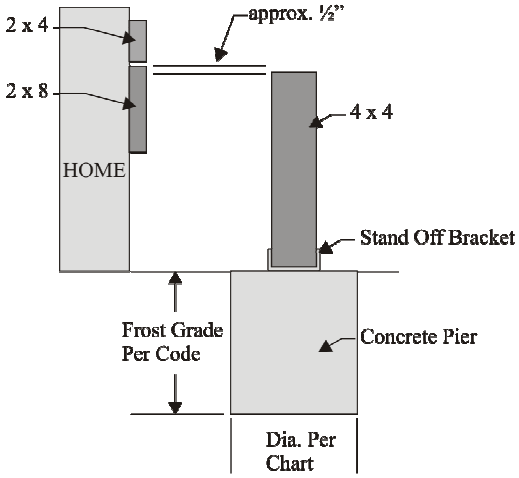
Installation

Using strings and stakes lay out the perimeter of the planned Polydeck.

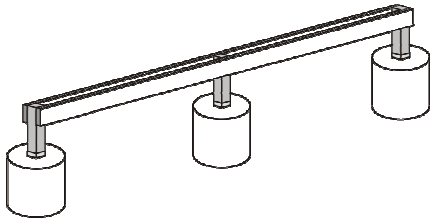
Each row of posts will run parallel to the home. Consult the load charts and Polydeck specifications chart when determining the spacing between rows of posts. Space your rows in order to comply with local building codes. Compliance with building codes is the responsibility of the installer. Spacing of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

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

After the piers have cured, attach 4x4 posts to the piers with stand off brackets. The top of the posts should be approximately ½" below the top edge of the 2x8 ledger board attached to the home.



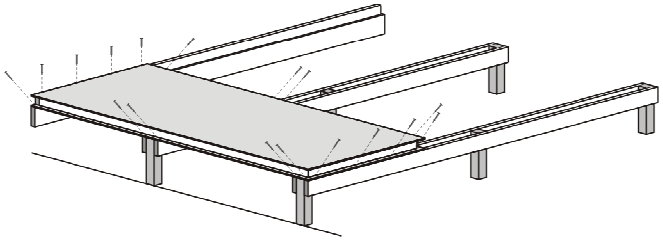
Level and secure 2x6 beams to both sides of the posts running parallel to the home. The beams should be mounted even with the top edge of the 2x8 ledger board secured to the home. It is important that the beams be above the top of the posts.



Place a Polydeck End Panel on the foundation. The end panels have a recess of 1-5/8" on the outside edge of the panel and 7/8" on the interior edge. Middle panels have a recess of 7/8" on both sides. Slide the panel to the edge of the foundation. Place the end of the panel over the 2x4 ledger board 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 2x6 beams. Be sure to counter sink the heads of the screws so they will not interfere with the 2x4 lumber that will be inserted into the recessed areas.



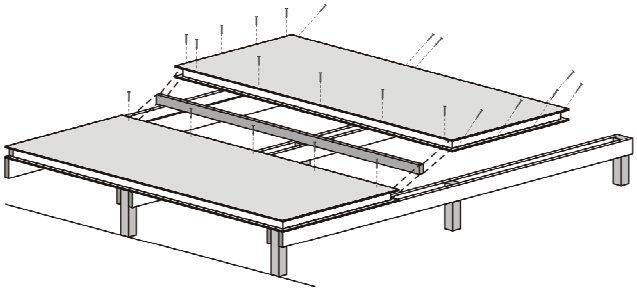
Insert a 2x4 into the recessed edge of the first panel on the side that the second panel will attach to.

Slide the second panel over the 2x4 and over the ledger boards attached to the home.

Secure the second panel to the 2x6 beams and the ledger boards.

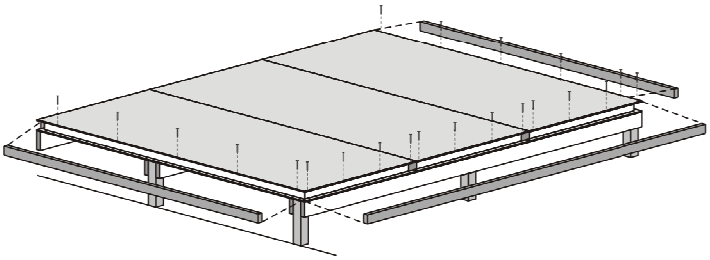
Secure both panels to the joining 2x4 lumber.

Repeat these steps to install the remaining panels.



Once all the panels are installed, insert 2x4 lumber along the perimeter of the deck.

Secure the panels to the 2x4 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.