

2. INSTALL VINYL DECKING

APPLICATION TECHNIQUES

The substructure for vinyl deck is the same as for a wood deck. It should be substantial and built with high quality lumber. In general, the substructure for a vinyl deck is built on 16" centers. All decks designed with diagonal layouts should be installed on 12" centers.

CertainTeed vinyl deck meets the appropriate building standards set by the ICC. Before you install it, verify that the substructure meets all relevant codes.

WARNING:

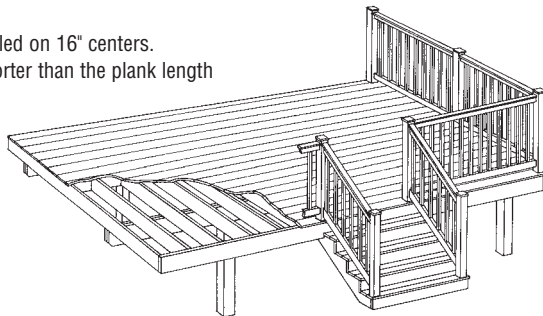
Due to expansion and contraction, installation of vinyl deck planks directly onto concrete is not recommended.

STEP 1 SPACING

There are three options for laying out the deck:

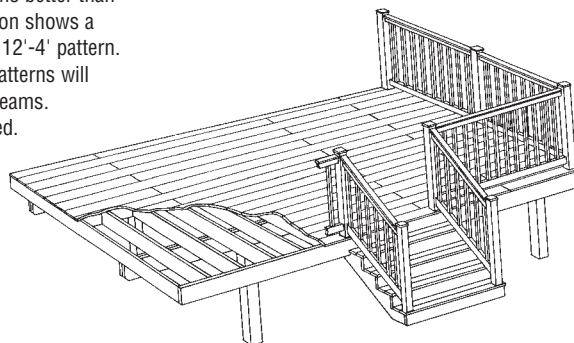
FULL RUN

Vinyl planks should be installed on 16" centers. Build the substructure 3" shorter than the plank length for proper overhang, 1-1/2".



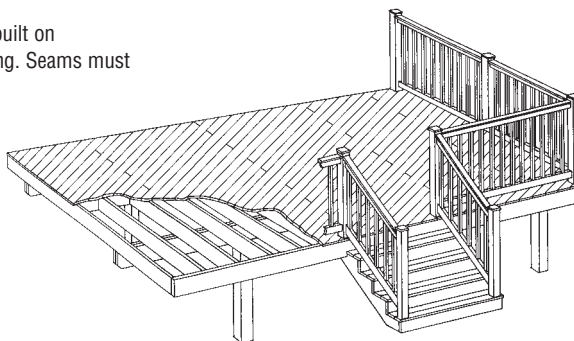
UNIFORMLY STAGGERED

Staggered patterns hide seams better than aligned seams. This illustration shows a 4'-12" pattern, followed by a 12'-4" pattern. Repeating the sequence of patterns will create uniformly staggered seams. Seams must be double jointed.



DIAGONAL

Diagonal layouts should be built on substructures with 12" joisting. Seams must be double jointed.



VINYL DECK PLANK DEPTH/PROJECTION

REMEMBER: When specing the number of planks needed for your deck to take into account plank spacing.

Use this chart to help you calculate the number of planks you will need and account for proper overhang.

1/8" Spacing	3/16" Spacing	1/4" Spacing	# Planks
0' 5 1/2"	0' 5 1/2"	0' 5 1/2"	1
0' 11"	0' 11"	0' 11 1/2"	2
1' 4 1/2"	1' 5"	1' 5"	3
1' 10 1/2"	1' 10 1/2"	1' 11"	4
2' 4"	2' 4"	2' 4 1/2"	5
2' 9 1/2"	2' 10"	2' 10"	6
3' 3 1/2"	3' 3 1/2"	3' 4"	7
3' 9"	3' 9 1/2"	3' 10"	8
4' 2 1/2"	4' 3"	4' 3 1/2"	9
4' 8"	4' 8 1/2"	4' 9"	10
5' 1 1/2"	5' 2 1/2"	5' 3"	11
5' 7 1/2"	5' 8"	5' 9"	12
6' 1"	6' 1 1/2"	6' 2 1/2"	13
6' 6 1/2"	6' 7 1/2"	6' 8 1/2"	14
7' 0"	7' 1"	7' 2"	15
7' 6"	7' 7"	7' 7 1/2"	16
7' 11 1/2"	8' 1 1/2"	8' 1 1/2"	17
8' 5"	8' 6"	8' 7"	18
8' 11"	9' 0"	9' 1"	19
9' 4 1/2"	9' 5 1/2"	9' 7"	20
9' 10"	9' 11 1/2"	10' 1 1/2"	21
10' 3 1/2"	10' 5"	10' 6 1/2"	22
10' 9 1/2"	10' 10 1/2"	11' 0"	23
11' 3"	11' 4 1/2"	11' 5 1/2"	24
11' 8 1/2"	11' 10"	11' 11 1/2"	25
12' 2"	12' 3 1/2"	12' 5 1/2"	26
12' 8"	12' 9 1/2"	12' 11"	27
13' 1 1/2"	13' 3"	13' 5"	28
13' 7"	13' 8 1/2"	13' 10 1/2"	29
14' 1 1/2"	14' 2 1/2"	14' 4"	30
14' 6 5/8"	14' 8"	14' 10"	31
15' 0"	15' 2"	15' 4"	32
15' 5 1/2"	15' 7 1/2"	15' 9 1/2"	33
15' 11"	16' 1"	16' 3"	34
16' 4 1/2"	16' 7"	16' 9"	35
16' 10 1/2"	17' 1/2"	17' 3"	36
17' 4"	17' 6"	17' 8 1/2"	37
17' 9 1/2"	18' 0"	18' 2 1/2"	38
18' 3"	18' 5 1/2"	18' 8"	39
18' 9"	18' 11 1/2"	19' 1 1/2"	40
19' 2 1/2"	19' 5"	19' 7 1/2"	41
19' 8"	19' 10 1/2"	20' 1 1/2"	42
20' 1 1/2"	20' 4 1/2"	20' 7"	43
20' 7 1/2"	20' 10"	21' 1"	44
21' 1"	21' 4"	21' 6 1/2"	45
21' 6 1/2"	21' 9 1/2"	22' 0"	46
22' 0"	22' 3"	22' 6"	47
22' 6"	22' 9"	23' 0"	48
22' 11 1/2"	23' 2 1/2"	23' 5 1/2"	49
23' 5"	23' 8"	23' 11 1/2"	50
23' 10 1/2"	24' 2"	24' 5"	51
24' 4 1/2"	24' 7 1/2"	24' 10 1/2"	52

EXAMPLE:

If your overall deck measures 7' 0" and you plan to use 1/8" spacing, you will need exactly 15 planks in either direction in a full run deck layout.

STEP 2 FASTENING TO THE SUBSTRUCTURE

For all but diagonal layouts and stairs, install vinyl deck planks on substructures built on 16" centers. The unsupported span of vinyl deck planks must not be more than 4" overhang from the edge.



Align the first plank on the substructure. Overhang the substructure 1-1/2" on each end. Mark the board for the post supports. With a 2" hole saw, drill the deck board to accept the 1-5/8" post supports. Lay the board over the post supports. Square the board on the deck, and attach the first plank to the substructure.



Boards must be fastened every 16". The deck boards are fastened directly to the substructure with #8 x 2" deck screws. Seat the screws in the channels of the plank and do not over-tighten the screws.



After the first run has been installed, line up the next board. Gap it 1/8". Recheck the alignment and screw the board to the deck.



TIP #2:

If you are butting two boards, the seam must be double joisted.

STEP 3 INSTALL FILL PIECES



After all the boards have been installed, insert the fill pieces, several at a time, into the channels.



Begin by pressing in the leading edge; then slide a block of wood along the length of the fill strips until they are pressed in place.

Fill pieces should fill the entire channel but not overhang the vinyl deck.

The ends of the fill pieces do not have to coincide with the plank ends. They can be spliced into the deck channel.

STEP 4 TRIM THE DECK



Measure the edge of the deck. Leave 1-1/2" of overhang for the end cover. Snap a chalk line on the deck to mark your cut. Cut along the line with a circular saw. Make sure the edge of the deck is straight.

STEP 5 INSTALL "C" CHANNEL

To finish the deck, install vinyl "C" Channel over the open plank ends.



Using a chop saw equipped with a fine tooth carbide blade, cut the length of "C" channel you need.



Fit the channel onto the edge of the planks, ensuring that it is square.



Drill 1/4" holes through the top of the "C" channel. Drill at 1' increments (in the center of every other plank). Press the end-cover fasteners through the holes into the deck.



For concealed edges (along the house), or to cover ends of fascia, cut "C" channel into "L" channel with a utility knife and snap off. Install as described above.

STEP 6 INSTALL FASCIA



Cut the fascia boards to length.



Attach the fascia to the sub-structure with #8 x 1-1/2" screws.



If using "L" channel, after the entire fascia has been installed, press end cover fasteners into the holes.



Drill 3/4" holes through one side of the fascia until the drill tip touches the other side. Do not drill a 3/4" hole all the way through the board. For 6" fascia, drill one hole through the top and one at the bottom every 2' along the length of the board. For 3 and 1-1/2" fascia, drill one hole every 2'.



Butt the fascia board as needed to cover the substructure. Miter cut the corners or finish the ends with "L" channel as described earlier.

