

## APPENDIX M

# WOOD DECKS

1. A deck is an exposed exterior wood floor structure that may be attached to the structure or freestanding. Roofed porches (open or screened-in) may be constructed using these provisions.  
     — Computer deck design program printouts may be accepted by the code enforcement official.
2. Support posts shall be supported by a footing.
3. When attached to a structure, the structure to which attached shall have a treated wood band for the length of the deck or corrosion-resistant flashing shall be used to prevent moisture from coming in contact with the untreated framing of the structure. Aluminum flashing may not be used in conjunction with deck construction. The

deck band and the structure band shall be constructed in contact with each other except on brick veneer structures and where and where plywood sheathing is required and properly flashed (when plywood is required, use pressure preservative treated plywood). Siding shall not be installed between the structure and the deck band. If attached to a brick structure, neither flashing nor a treated band for the brick structure is required. In addition, the treated deck band shall be constructed in contact with the brick veneer.

4. When the deck is supported at the structure by attaching the deck to the structure, the following attachment schedules shall apply for attaching the deck band to the structure.

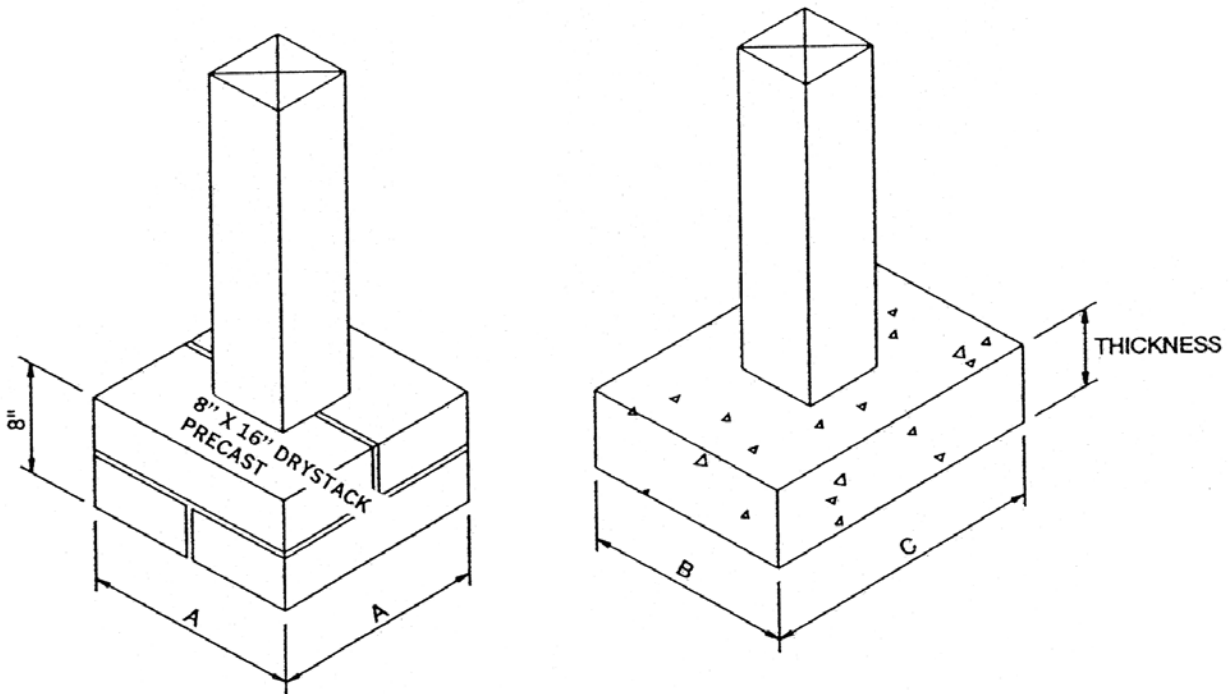


FIGURE A-1

FOOTING CHART

SIZE (inches)		TRIBUTARY AREA (sq. ft.)	THICKNESS (inches)	
A x A	B x C		Precast	Cast-in-Place
8 x 16	8 x 16	36	4	6
12 x 12	12 x 12	40	4	6
16 x 16	16 x 16	70	8	8
=	16 x 24	100	=	8
=	24 x 24	150	=	8

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m<sup>2</sup>.

**A. All Structures Except Brick Veneer Structures:**

Fasteners	8' Max Joist Span	16' Max Joist Span
$\frac{5}{8}$ " Hot Dipped Galv. Bolts and Washers* and 12d Common Hot Dipped Galv. Nails**	1 @ 3'-6" o.c. and 2 @ 8" o.c.	1 @ 1'-8" o.c. and 3 @ 6" o.c.

For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

\* Minimum edge distance for bolts is  $2\frac{1}{2}$  inches.

\*\*Nails must penetrate the supporting structure band a minimum of  $1\frac{1}{2}$  inches.

**B. Brick Veneer Structures:**

Fasteners	8' Max Joist Span	16' Max Joist Span
$\frac{5}{8}$ " Hot Dipped Galv. Bolts*	1 @ 2'-4" o.c.	1 @ 1'-4" o.c.

For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

\* Minimum edge distance for bolts is  $2\frac{1}{2}$  inches.

**C. Masonry Ledge Support:**

If the deck band is supported by a minimum of  $\frac{1}{2}$ -inch masonry ledge along the foundation wall,  $\frac{5}{8}$ -inch hot dipped galvanized bolts with washers spaced at 48 inches (1219 mm) o.c. may be used for support.

- D. Other means of support such as joist hangers may be connected to treated house band and properly flashed.
- 5. Girders shall bear directly on posts or be connected to the side of posts with  $2\frac{5}{8}$ -inch (66 mm) hot dipped galvanized bolts.
- 6. Floor decking shall be No. 2 grade treated Southern Pine or equivalent. The minimum floor decking thickness shall be as follows:

Joist Spacing	Decking (Nominal)
12" o.c.	1" S4S
16" o.c.	1" T & G
24" o.c.	$1\frac{1}{4}$ " S4S
32" o.c.	2" S4S

For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

**7. Maximum Height of Deck Support Posts as follows:**

Post Size*	Max. Post Height**
4 x 4 6 x 6	8' - 0" 20' - 0"
16" o.c.	1" T & G
24" o.c.	$1\frac{1}{4}$ " S4S
32" o.c.	2" S4S

For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

\* This table is based on No. 2 treated Southern Pine posts. Maximum tributary area is based on 128 total square feet which may be located at different levels.

\*\* From top of footing to bottom of girder.

\*\*\*Decks with post heights exceeding this table shall be designed by a registered design professional.

- 8. Decks shall be braced to provide lateral stability. The following are acceptable means to provide lateral stability:

A. When the deck floor height is less than 4 feet (1219 mm) and the deck is attached to the structure in accordance with Section 4 above, lateral bracing is not required.

B. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post a point not less than  $\frac{1}{3}$  of the post length from the top of the post, and the braces shall be angled between 45 degrees (0.79 rad) and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder with one  $\frac{5}{8}$ -inch (16 mm) hot dipped galvanized both at each end of the brace.

C. For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the posts in accordance with the following:

Post Size	Max. Tributary Area	Max. Post Height	Embedment Depth	Concrete Diameter
4 x 4	48 SF	4' - 0"	2' - 6"	1' - 0"
6 x 6	120 SF	6' - 0"	3' - 6"	1' - 8"

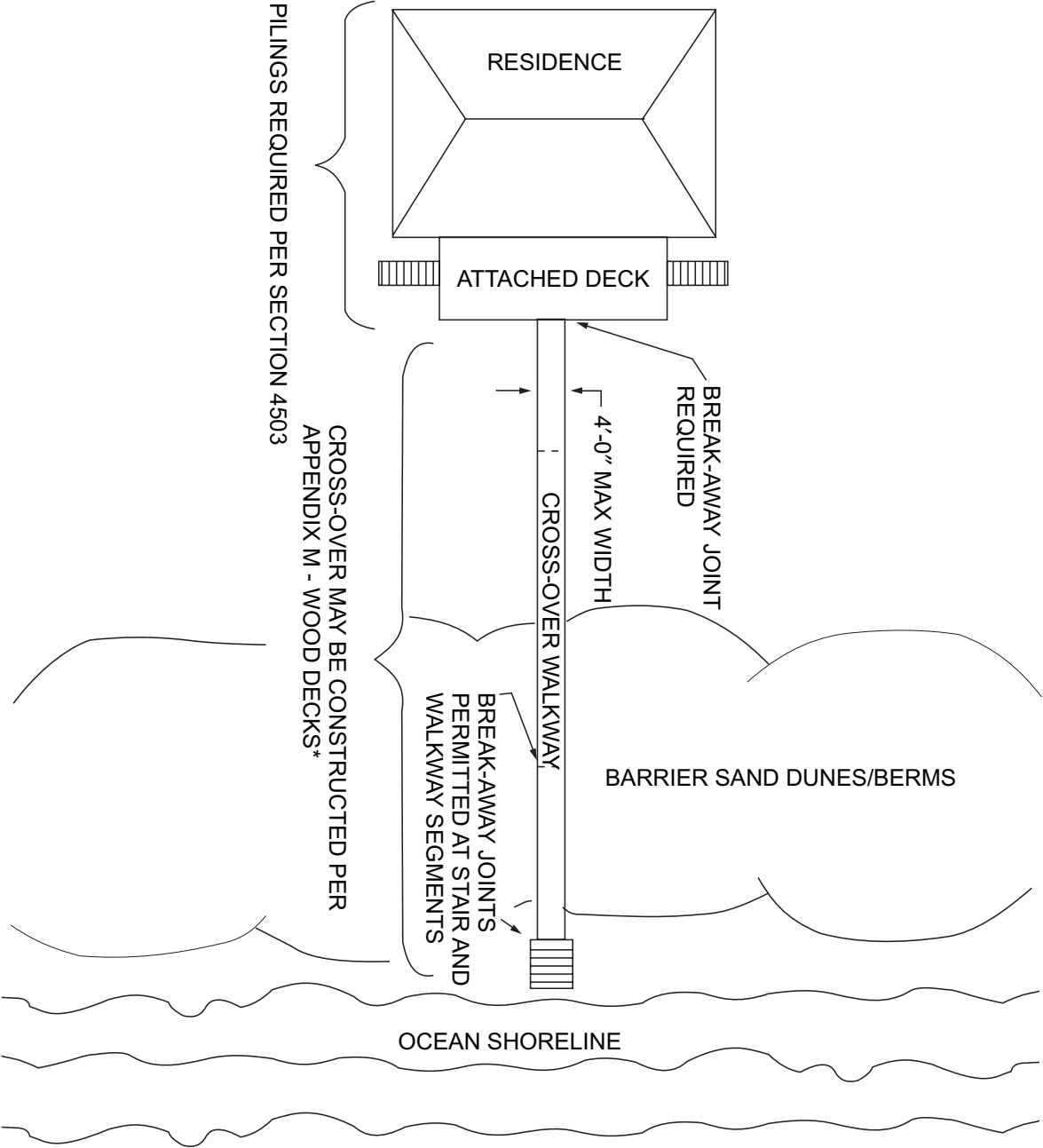
For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

D. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6s shall be attached to the posts with one  $\frac{5}{8}$ -inch hot dipped galvanized bolt at each end of each bracing member.

E. For embedment of piles in Coastal Regions, see Chapter 45.

- 9. Floor joists for exterior decks may be cantilevered per Table R502.3.3(1).

WALKWAYS OVER DUNES OR BERMS IN OCEAN HAZARD AREAS



For SI: 1 inch = 25.4, 1 foot = 304.8 mm.

\* Posts for walkways over dunes or berms shall be embedded a minimum depth of 4' - 0" and post heights shall be limited to 5' - 0" above grade for 4 x 4 and 10' - 0" above grade for 6 x 6. Walkways or portions of walkways over 4' 0" in width, shall comply with the requirements of Chapters 44 and 45. Maximum walkway surface height is 30" above grade without guard rails.

\*\* Walkway stair runs can be greater than 12' without a landing.

