

APPENDIX M WOOD DECKS

*This appendix is a North Carolina addition to the 2009 International Residential Code. There will be no underlined text.
(The provisions contained in this appendix are adopted as part of this code.)*

SECTION AM101 GENERAL

AM101.1 General. A deck is an exposed exterior wood floor structure which may be attached to the structure or freestanding. Roofed porches (open or screened-in) may be constructed using these provisions.

AM101.2 Deck design. Computer deck design programs may be accepted by the code enforcement official.

SECTION AM102 FOOTERS

AM102.1 Footers. Support post shall be supported by a minimum footing per Figure AM102 and Table AM102.1. Minimum footing depth shall be 12-inches below finished grade per Section R403.1.4. Tributary area is calculated per Figure AM102.1.

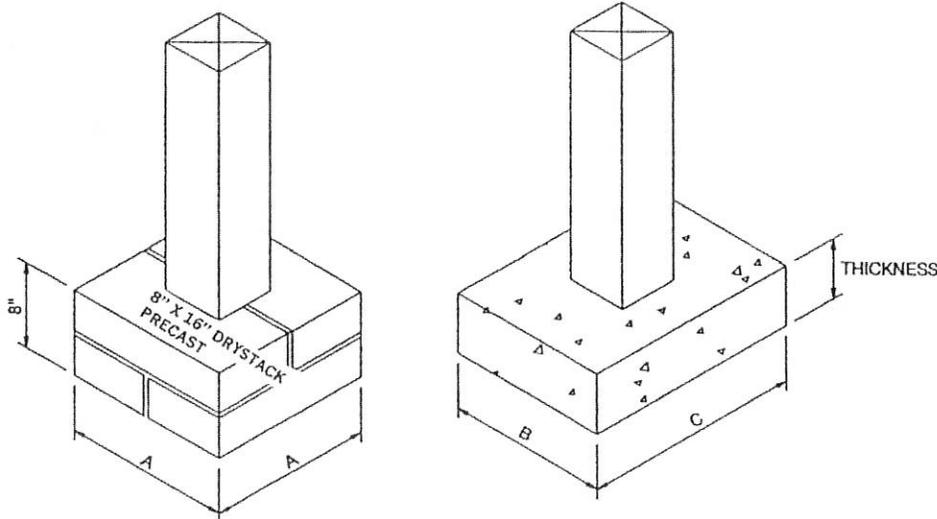


FIGURE AM102

TABLE AM102.1
FOOTING TABLE^{a,b,c}

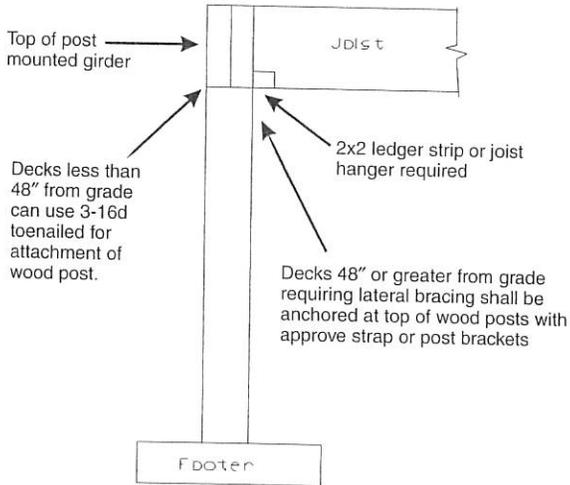
SIZE (inches)		TRIBUTARY AREA (sq. ft.)	THICKNESS (inches)	
A x A	B x C		Precast	Cast-in-Place
8 x 16	8 x 16	36	4	6
12 x 12	12 x 12	40	4	6
16 x 16	16 x 16	70	8	8
—	16 x 24	100	—	8
—	24 x 24	150	—	8

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m².

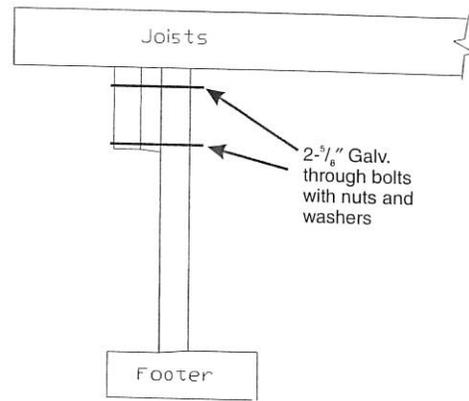
a. Footing values are based on single floor and roof loads

b. Support post must rest in center 1/3 of footer

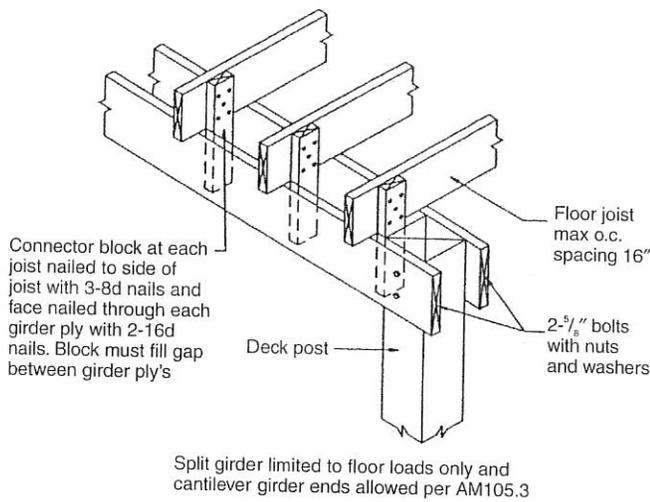
c. Top of footer shall be level for full bearing support of post



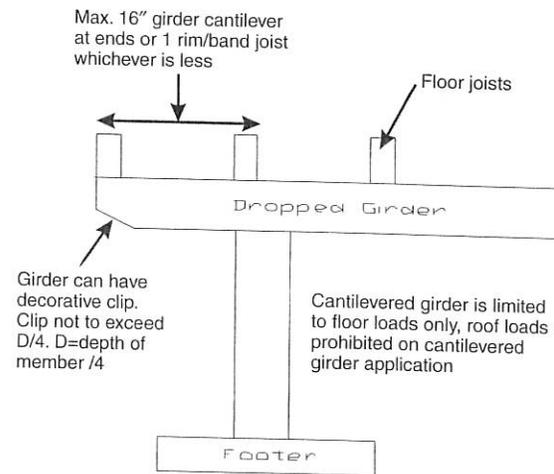
**TOP MOUNT/FLUSH
FIGURE AM105**



**SIDE MOUNT DROPPED GIRDER
FIGURE AM105.1**



**SPLIT GIRDER DETAIL
FIGURE AM105.2**



**CANTILEVERED DROPPED GIRDER DETAIL
FIGURE AM105.3**

**SECTION AM107
FLOOR DECKING**

AM107.1 Floor decking. Floor decking shall be No. 2 grade treated Southern Pine or equivalent. The minimum floor decking thickness shall be as follows:

SPACING	DECKING (nominal)
12" o.c	1" S4S
16" o.c.	1" T&G
19.2" o.c.	1 1/4" S4S
24"-36" o.c.	2" S4S

**SECTION AM108
POST HEIGHT**

AM108.1 Post height. Maximum height of deck support posts as follows:

Post size ^a	Max. Post Height ^{b,c}
4x4	8'-0"
6x6	20'-0"

- a. This table is based on No. 2 Southern Pine posts.
- b. From top of footing to bottom of girder.
- c. Decks with post heights exceeding these requirements shall be designed by a registered design professional.

**SECTION AM110
STAIRS**

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer. If used, suspended headers shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely support stringers at the top.

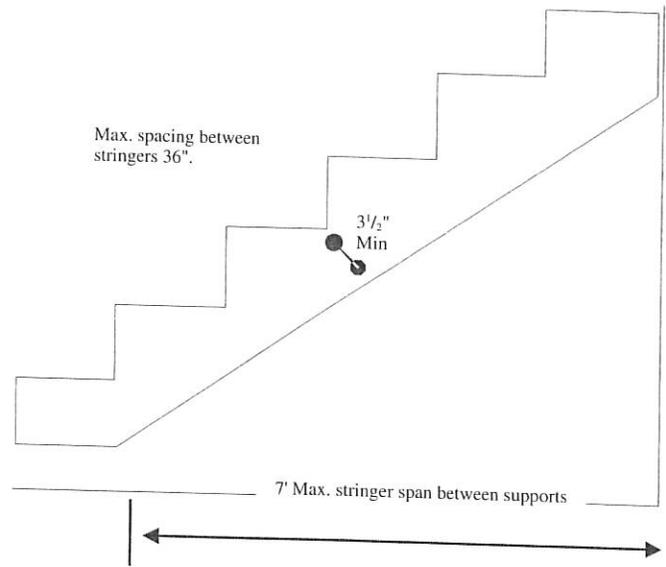


FIGURE AM110

**SECTION AM111
HANDRAILS, GUARDS AND GENERAL**

AM111.1 Handrails, guards and general. Deck handrails, guards and general construction shall be per Figure AM111.

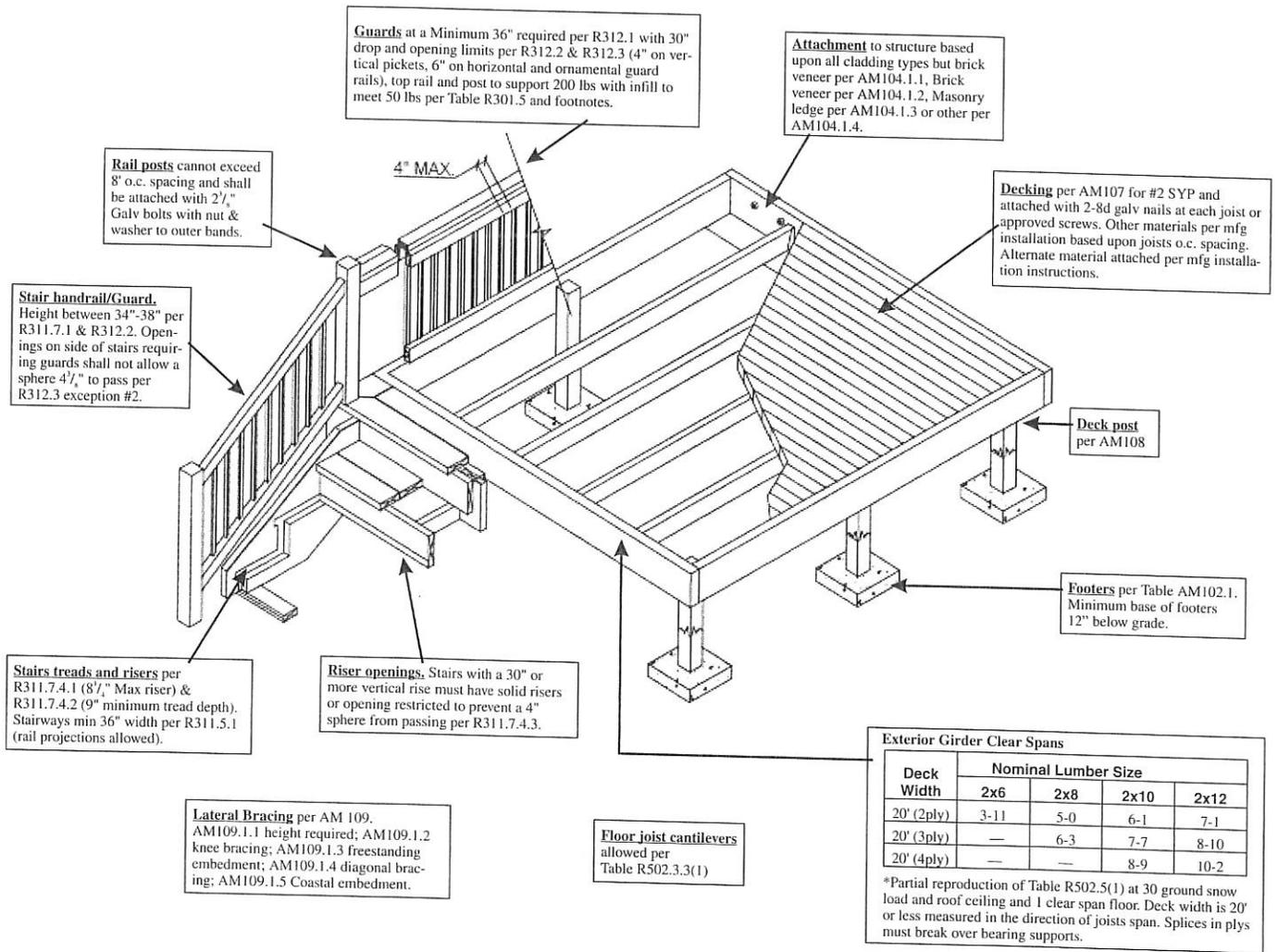


FIGURE AM111