

STAIRS & DECKS

Stairways

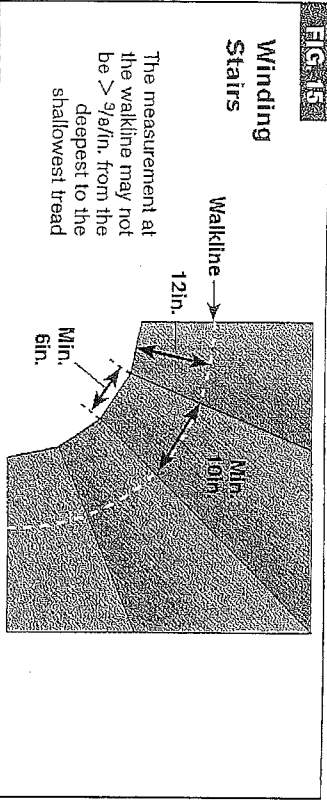
06 IRC

09 IRC

- Floor or landing req'd top & bottom of interior stairways, including enclosed garages, EXC _____ [311.5.4] [311.7.5]
- Where door does not swing over stairs _____ [311.5.4X] [311.7.5X]
- Headroom min 6ft 8in EXC _____ [311.5.2] [311.7.2]
- Edge of floor passing over stair OK to project 4³/₄in _____ [n/a] [311.7.2]²²
- Min stairway width above handrail 36in _____ [311.5.1] [311.7.1]
- Handrail may project into req'd width 4¹/₂in F18 _____ [311.5.1] [311.7.1]
- Max riser height 7⁹/₄in F17 _____ [311.5.3.1] [311.7.4.1]
- Min tread depth 10in F17 _____ [311.5.3.2] [311.7.4.2]
- Max difference between tallest & shortest riser or largest & shortest tread run 3¹/₈in F15 _____ [311.5.3.1&2] [311.7.4.1&2]
- Nosing min req'd on stairs w/solid risers EXC F17 _____ [311.5.3.3] [311.7.4.3]
- No nosing OK if tread depth min 11in _____ [311.5.3.3X1] [311.7.4.3X1]
- Nosing min 3¹/₄in max 1¹/₄in & uniform F17 _____ [311.5.3.3] [311.7.4.3]

Winding Stairs

- Walkline concentric to narrow side 12in from edge F15 _____ [n/a] [311.7.3]²⁴
- Tread depth min 6in @ narrow side F15 _____ [311.5.3.2] [311.7.4.2]
- Tread depth min 10in @ walkline F15 _____ [311.5.3.2] [311.7.4.2]
- Deepest tread depth ≤ 3⁷/₈in than shortest @ walkline F15 _____ [n/a] [311.7.4.2]²⁵
- Tread depth @ walkline does not have to match tread depth at rectangular stairs in same run as winding portion _____ [n/a] [311.7.4.2]²⁵



Decks & Balconies

06 IRC

09 IRC

- Exterior balconies & decks live load 40 psf _____ [T301.5] [T301.5]
- Exterior landings, decks, balconies, stairs positive anchor (no toenails) to structure to resist vertical & lateral force [311.2.1] [311.5.1]
- Deck self-supporting if connection not verifiable _____ [502.2.2] [502.2.2]
- Ledger connections min 1¹/₂in lag screws or bolts _____ [n/a] [502.2.2.1]²⁷
- Lag screws/bolts min hot-dipped galvanized or stainless _____ [n/a] [502.2.2.2]²⁸
- Deck ledgers not to be supported on masonry veneer _____ [n/a] [502.2.2.2]²⁸
- Min 36in clear space above escape & rescue openings _____ [810.5] [810.5]
- Composite decking labeled for compliance w/ASTM D 7092 [n/a] [817.4]²⁹

Guards

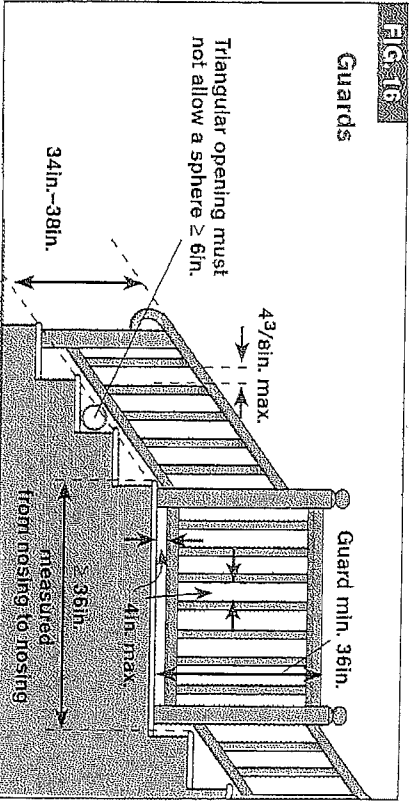


FIG. 16

Handrails

06 IRC

09 IRC

- Grippable handrail req'd if 4 or more risers F16, 18 _____ [311.5.6] [311.7.7]
- Height to top min 34in, max 38in F16 _____ [311.5.6.1] [311.7.7.1]
- Type I min 1¹/₄in, max 2in circular cross section F18 _____ [311.5.6.3] [311.7.7.3]
- Type II req graspable finger recess both sides _____ [311.5.6.3] [311.7.7.3]
- Min 1¹/₂in between wall & handrail, ends must return [311.5.6.2] [311.7.7.2]

Guards

- Req'd for open-sided walking surface > 30in above floor or grade within 3ft horizontally of open side F16 _____ [312.1] [312.1]⁴⁰
- Min height 36in (34in if guard is stair handrail) F16 _____ [312.1] [312.2]
- Measure height vertically from fixed seating _____ [n/a] [312.2]⁴¹
- Opening must not allow passage of 4in sphere EXC F16 [312.2] [312.3]
- 6in sphere at space between riser, tread & rail F16 _____ [312.2X1] [312.3X1]
- 4³/₈in sphere at open side of stairs F16 _____ [312.2X2] [312.3X2]

Lighting

- Illumination req'd for all stairways _____ [303.6] [303.6]
- Switch req'd top & bottom of interior stairs ≥ 6 risers _____ [303.6.1] [303.6.1]
- Switch for exterior light inside dwelling or automatic _____ [303.6.1] [303.6.1]

FIG. 17

Stair Profile

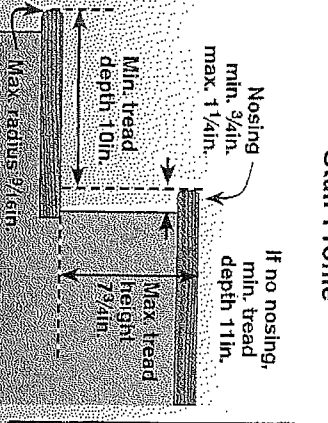


FIG. 18

Handrail Size

