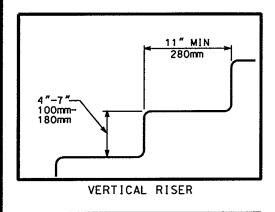
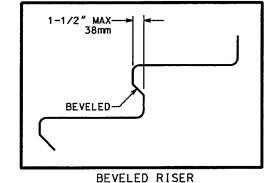
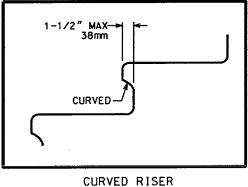
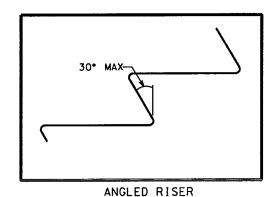
STAIRWAY REQUIREMENTS

- 1. STAIRWAYS SHALL BE 36 INCHES (915 mm) WIDE MINIMUM BETWEEN HANDRAILS.
- 2. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTH. RISERS SHALL BE 4 INCHES (100 mm) HIGH MINIMUM AND 7 INCHES (180 mm) MAXIMUM. TREADS SHALL BE 11 INCHES (280 mm) DEEP MINIMUM MEASURED FROM RISER TO RISER.
- 3. OPEN RISERS SHALL NOT BE PERMITTED.
- 4. STAIR TREADS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
- 5. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (13 mm) MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM THE VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL BE 11/2 INCHES (38 mm) MAXIMUM BEYOND THE TREAD BELOW.
- 6. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS.
- OUTDOOR STAIRS AND OUTDOOR APPROACHES TO STAIRS SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.



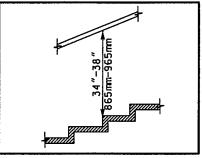


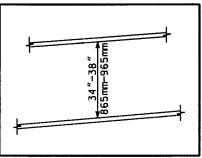




HANDRAIL REQUIREMENTS

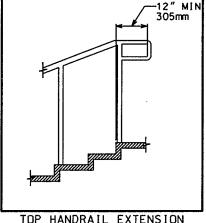
- 1. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
- 2. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCH BACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
- 3. TOP OF GRIPPING SURFACE OF HANDRAILS SHALL BE 34 INCHES (865 mm) MINIMUM AND 38 INCHES (965 mm) MAXIMUM VERTICALLY ABOVE STAIR NOSINGS AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS AND RAMP SURFACES.
- 4. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE 11/2 INCHES (38 mm) MINIMUM.
- 5. GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS. OTHER CONSTRUCTION ELEMENTS. OR OBSTRUCTIONS. HANDRAIL BRACKETS OR BALUSTERS ATTACHED TO THE BOTTOM SURFACE OF THE HANDRAIL SHALL NOT BE CONSIDERED OBSTRUCTIONS PROVIDED THEY COMPLY WITH THE FOLLOWING CRITERIA:
 - A. NOT MORE THAN 20 PERCENT OF THE HANDRAIL LENGTH IS OBSTRUCTED.
 - HORIZONTAL PROJECTIONS BEYOND THE SIDES OF THE HANDRAIL OCCUR 21/2 INCHES (64 mm) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL. AND
 - C. EDGES HAVE A 1/8 INCH (3.2 mm) MINIMUM RADIUS.
 - HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 11/4 INCH (32 mm) MINIMUM AND 2 INCHES (51 mm) MAXIMUM. OR SHALL PROVIDE EQUIVALENT GRASPABILITY. EXCEPTION: HANDRAILS WITH OTHER SHAPES SHALL BE PERMITTED PROVIDED THEY HAVE A PERIMETER DIMENSION OF 4 INCHES (100 mm) MINIMUM AND 614 INCHES (160 mm) MAXIMUM. AND PROVIDED THEIR LARGEST CROSS-SECTION DIMENSION IS 21/4 INCHES (57 mm) MAXIMUM.
 - 7. HANDRAILS. AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM. SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE 1/2 INCH (3.2 mm) MINIMUM RADIUS.
 - 8. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
 - HANDRAILS FOR STAIRS AND RAMPS SHALL HAVE EXTENSIONS. **EXCEPTIONS:**
 - A. EXTENSIONS ARE NOT REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF STAIRS AND RAMPS.
 - IN ALTERATIONS, FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS OR IMPOSSIBLE DUE TO PLAN CONFIGURATION.
- 10. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY 12 INCHES (305 mm) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. SUCH EXTENSIONS SHALL RETURN TO A WALL. GUARD. OR THE WALKING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RIIN.
- 11. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 mm) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. SUCH EXTENSIONS SHALL RETURN TO A WALL. GUARD. OR THE WALKING SURFACE. OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- 12. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. SUCH EXTENSIONS SHALL CONTINUE WITH A HORIZONTAL EXTENSION OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT OR SHALL RETURN TO A WALL. GUARD. OR THE WALKING SURFACE. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES (305 mm) LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HAND-RAIL AS MEASURED ABOVE THE STAIR NOSINGS. SUCH EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE WALKING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

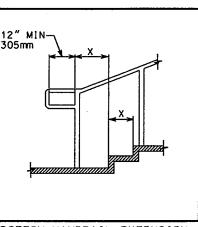




STAIR HANDRAIL HEIGHT

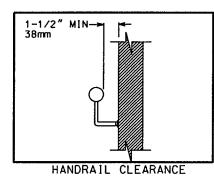
RAMP HANDRAIL HEIGHT

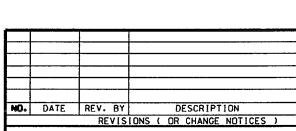




TOP HANDRAIL EXTENSION AT STAIRS

BOTTOM HANDRAIL EXTENSION AT STAIRS





NEW MEXICO DEPARTMENT OF TRANSPORTATION

PEDESTRIAN ACCESS DETAILS STAIRWAY & HANDRAIL REQUIREMENTS

APPROVAL RECOMMENDED

01/01/04

PAD-001

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