

CHANGES TO OAR 837-040-0020
FOR MID-CYCLE AMENDMENTS
TO THE 2010 OREGON FIRE
CODE (OFC)

(5) Effective March 1, 2012 the 2010 Oregon Fire Code (OFC) is amended by the Office of State Fire Marshal as follows:

- (a) Adopt model language in Section 604.2.5 of the 2009 International Fire Code.
- (b) Adopt model language in Section 604.2.6 of the 2009 International Fire Code.
- (c) Amend Section 907.6.2.3.3, adopted July 01, 2010.
- (d) Adopt model language in Table 907.6.2.3.3 of the 2009 International Fire Code.
- (e) Correlate language in Section 907.6.2.3.4 of the 2010 Oregon Fire Code to the language in Section 907.5.2.3.4 of the 2010 Oregon Structural Specialty Code.
- (f) Adopt model language in Section 1003.7 of the 2009 International Fire Code.
- (g) Adopt model language in Section 1008.3 of the 2009 International Fire Code.
- (h) Adopt model language in Section 1009.1 of the 2009 International Fire Code.
- (i) Adopt model language in Section 1009.4.5 of the 2009 International Fire Code.
- (j) Adopt model language in Section 1010.1 of the 2009 International Fire Code.
- (k) Adopt model language in Section 1010.6.5 of the 2009 International Fire Code.

- (l) Adopt model language in Section 1010.9 of the 2009 International Fire Code.
- (m) Adopt model language in Section 1011.3 of the 2009 International Fire Code.
- (n) Adopt model language in Section 1028.5.1 of the 2009 International Fire Code.
- (o) Adopt Section 1007 of the 2009 International Fire Code.

604.2.5 Accessible means of egress elevators. Standby power shall be provided for elevators that are part of an accessible *means of egress* in accordance with ~~Section 1108.3.2 of the Oregon Structural Specialty Code~~ **1007.4.**

604.2.6 Accessible means of egress platform lifts. Standby power in accordance with this section or ASME A18.1 shall be provided for platform lifts that are part of an accessible *means of egress* in accordance with ~~Section 1108.3.3 of the Oregon Structural Specialty Code~~ **1007.5.**

907.6.2.3.3. Groups I-1, R-1 and R-4. Group I-1, R-1 and R-4 *dwelling units* or *sleeping units* in accordance with Table 907.6.2.3.3 shall be provided with a visible alarm notification appliance, activated by both the in-room smoke alarm and the building fire alarm system ~~in accordance with Chapter 11 of the Oregon Structural Specialty Code and NFPA 72.~~

**TABLE 907.6.2.3.3
VISIBLE ALARMS**

NUMBER OF SLEEPING UNITS	SLEEPING ACCOMMODATIONS WITH VISIBLE ALARMS
6 TO 25	2
26 TO 50	4
51 TO 75	7
76 TO 100	9
101 TO 150	12
151 TO 200	14
201 TO 300	17
301 TO 400	20
401 TO 500	22
501 TO 1,000	5% OF TOTAL
1,001 AND OVER	50 PLUS 3 FOR EACH 100 OVER 1,000

The maximum width of a swinging door leaf shall be 48 inches (1219 mm) nominal. *Means of egress* doors in a Group I-2 occupancy used for the movement of beds shall provide a clear width not less than 41 1/2 inches (1054 mm). The height of door openings shall not be less than 80 inches (2032 mm).

Exceptions:

907.6.2.3.4 Group R-2. In Group R-2 occupancies required by Section 907 to have a fire alarm system, visual alarms shall be provided within common and public use areas, but are not required within individual adaptable dwelling units. See Section 1110.10 of the *Oregon Structural Specialty Code*.

1003.7 Elevators, escalators and moving walks. Elevators, escalators and moving walks shall not be used as a component of a required *means of egress* from any other part of the building.

Exception: Elevators used as an *accessible means of egress* in accordance with Section **1007.4** 1108.3 of the *International Building Code*.

1008.1.1 Size of doors. The minimum width of each door opening shall be sufficient for the *occupant load* thereof and shall provide a clear width of 32 inches (813 mm). Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). Where this section requires a minimum clear width of 32 inches (813 mm) and a door opening includes two door leaves without a mullion, one leaf shall provide a clear opening width of 32 inches (813 mm).

1. The minimum and maximum width shall not apply to door openings that are not part of the required *means of egress* in Group R-2 and R-3 occupancies.
2. Door openings to resident sleeping units in Group I-3 occupancies shall have a clear width of not less than 28 inches (711 mm).
3. Door openings to storage closets less than 10 square feet (0.93m²) in area shall not be limited by the minimum width.
4. Width of door leaves in revolving doors that comply with Section 1008.1.4.1 shall not be limited.
5. Door openings within a dwelling unit or sleeping unit shall not be less than 78 inches (1981 mm) in height.
6. Exterior door openings in dwelling units and sleeping units, other than the required *exit* door, shall not be less than 76 inches (1930 mm) in height.
7. In other than Group R-1 occupancies, the minimum widths shall not apply to interior egress doors within a dwelling unit or

sleeping unit that is not required to be **an Accessible unit, Type A unit or Type B unit** ~~adaptable or accessible.~~

8. Door openings required to be accessible within Type B units shall **have a minimum clear width of 31.75 inches (806 mm)** ~~comply with Section 110.4.2.~~

1008.3 Turnstiles. Turnstiles or similar devices shall be credited with no more than a 50-person capacity where all of the following provisions are met:

1. Each device shall turn free in the direction of egress travel when primary power is lost, and upon the manual release by an employee in the area.
2. Such devices are not given credit for more than 50 percent of the required egress capacity.
3. Each device is not more than 39 inches (991 mm) high.
4. Each device has at least 16 ½ inches (419 mm) clear width at and below a height of 39 inches (991 mm) and at least 22 inches (559 mm) clear width at heights above 39 inches (991 mm).

Where located as part of an *accessible route*, turnstiles **shall have at least 36 inches (914 mm) clear at and below a height of 34 inches (864 mm), at least 32 inches (813 mm) clear width between 34 inches (864 mm) and 80 inches (2032 mm) and shall consist of a mechanism other than a revolving device.** ~~and gates shall comply with~~

~~Section 1109.9.1 of the Oregon Structural Specialty Code.~~

1009.1 Stairway width. The width of *stairways* shall be determined as specified in Section 1005.1, but such width shall not be less than 44 inches (1118 mm). See Section **1007.3** ~~1109.8 of the International Building Code~~ for *accessible means of egress stairways*.

Exceptions:

1. *Stairways* serving an *occupant load* of less than 50 shall have a width of not less than 36 inches (914 mm).
2. *Spiral stairways* as provided for in Section 1009.9.
3. *Aisle stairs* complying with Section 1028.
4. Where an incline platform lift or stairway chairlift is installed on *stairways* serving occupancies in Group R-3, or within dwelling units in occupancies in Group R-2, a clear passage width not less than 20 inches (508 mm) shall be provided. If the seat and platform can be folded when not in use, the distance shall be measured from the folded position.

1009.4.5 Profile. The radius of curvature at the leading edge of the tread shall be not greater than 9/16 inch (14.3 mm). Beveling of *nosings* shall not exceed 9/16 inch (14.3 mm). Risers shall be solid and vertical or sloped under the tread above from the underside of the *nosing* above at an angle not more than 30 degrees (0.52 rad) from the vertical. The leading edge (*nosings*) of treads shall project not more than 1 1/4 inches

(32 mm) beyond the tread below and all projections of the leading edges shall be of uniform size, including the leading edge of the floor at the top of a *flight*.

Exceptions:

1. Solid risers are not required for *stairways* that are not required to comply with **Section 1007.3**, ~~Section 1108.1.1.4 of the *International Building Code*~~ provided that the opening between treads does not permit the passage of a sphere with a diameter of 4 inches (102 mm).
2. Solid risers are not required for occupancies in Group I-3 or in Group F, H and S occupancies other than areas accessible to the public. There are no restrictions on the size of the opening in the riser.
3. Solid risers are not required for *spiral stairways* constructed in accordance with Section 1009.9.
4. Solid risers are not required for *alternating tread devices* constructed in accordance with Section 1009.10.

1010.1 Scope. The provisions of this section shall apply to *ramps* used as a component of a *means of egress*.

Exceptions:

1. Other than *ramps* that are part of the *accessible routes* providing access in accordance with **Sections 1108.2 through 1108.2.4 and 1108.2.6 of the *International Building Code*** ~~Section 1109.7 of the *Oregon Structural Specialty Code*~~

~~Code~~, ramped *aisles* within assembly rooms or spaces shall conform with the provisions in Section 1028.11.

2. Curb *ramps* shall comply with **ICC A117.1** ~~Section 1103.2.2 of the *Oregon Structural Specialty Code*~~.
3. Vehicle ramps in parking garages for pedestrian *exit access* shall not be required to comply with Sections 1010.3 through 1010.9 when they are not an *accessible route* serving *accessible* parking spaces, other required accessible elements or part of an *accessible means of egress*.

1010.6.5 Doorways. Where doorways are located adjacent to a *ramp* landing, maneuvering clearances required by **ICC A117.1** ~~Section 1109.9 of the *International Building Code*~~ are permitted to overlap the required landing area.

1010.9 Edge protection. Edge protection complying with Section 1010.9.1 or 1010.9.2 shall be provided on each side of *ramp* runs and at each side of *ramp* landings.

Exceptions:

1. Edge protection is not required on *ramps* that are not required to have *handrails*, provided they have flared sides that comply with the **ICC A117.1** ~~Section 1109.7 of the *Oregon Structural Specialty Code*~~ curb ramp provisions.
2. Edge protection is not required on the sides of ramp landings serving an adjoining *ramp* run or *stairway*.

3. Edge protection is not required on the sides of *ramp* landings having a vertical drop off of not more than ½ inch (12.7 mm) within 10 inches (254 mm) horizontally of the required landing area.
4. In assembly spaces with fixed seating, edge protection is not required on the sides of *ramps* where the *ramps* provide access to the adjacent seating and *aisle accessways*.

1011.3 Tactile exit signs. A tactile sign stating EXIT and complying with **ICC A117.1** Section 1107.5 of the *Oregon Structural Specialty Code* shall be provided adjacent to each door to an *area of refuge*, an exterior area for assisted rescue, an *exit stairway*, an *exit ramp*, an *exit passageway* and the *exit discharge*.

1028.5.1 Enclosure of openings. *Interior stairways* and other vertical openings shall be enclosed in an *exit enclosure* as provided in Section 1022.1, except that *stairways* are permitted to be open between the balcony, gallery or press box and the main assembly floor in occupancies such as theaters, *places of religious worship*, auditoriums and sports facilities. At least one *accessible means of egress* is required from a balcony, gallery or press box level containing accessible seating locations in accordance with Section **1007.3 or 1007.4** 1107 of the *Oregon Structural Specialty Code*

**[B] SECTION 1007
ACCESSIBLE MEANS OF EGRESS
Not adopted by the State of Oregon
See Oregon Structural Specialty
Code, Chapter 11**

1007.1 (Not adopted) Accessible means of egress required. *Accessible means of egress* shall comply with this section. *Accessible* spaces shall be provided with not less than one *accessible means of egress*. Where more than one *means of egress* are required by Section 1015.1 or 1021.1 from any *accessible* space, each *accessible* portion of the space shall be served by not less than two *accessible means of egress*.

Exceptions:

1. *Accessible means of egress* are not required in alterations to existing buildings.
2. One *accessible means of egress* is required from an *accessible mezzanine* level in accordance with Section 1007.3, 1007.4 or 1007.5.
3. In assembly areas with sloped or stepped *aisles*, one *accessible means of egress* is permitted where the common path of travel is *accessible* and meets the requirements in Section 1028.8.

1007.2 (Not adopted) Continuity and components. Each required *accessible means of egress* shall be continuous to a *public way* and shall consist of one or more of the following components:

1. *Accessible routes* complying with Section 1104 of the *International Building Code*.
2. *Interior exit stairways* complying with Sections 1007.3 and 1022.
3. *Exterior exit stairways* complying with Sections 1007.3 and 1026.

4. Elevators complying with Section 1007.4.
5. Platform lifts complying with Section 1007.5.
6. *Horizontal exits* complying with Section 1025.
7. *Ramps* complying with Section 1010.
8. *Areas of refuge* complying with Section 1007.6.

Exceptions:

1. Where the *exit discharge* is not *accessible*, an exterior area for assisted rescue must be provided in accordance with Section 1007.7.
2. Where the *exit stairway* is open to the exterior, the *accessible means of egress* shall include either an *area of refuge* in accordance with Section 1007.6 or an exterior area for assisted rescue in accordance with Section 1007.7.

1007.2.1 (Not adopted) Elevators required. In buildings where a required *accessible* floor is four or more stories above or below a *level of exit discharge*, at least one required *accessible means of egress* shall be an elevator complying with Section 1007.4.

Exceptions:

1. In buildings equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2, the

elevator shall not be required on floors provided with a *horizontal exit* and located at or above the *levels of exit discharge*.

2. In buildings equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2, the elevator shall not be required on floors provided with a ramp conforming to the provisions of Section 1010.

1007.3 (Not adopted) Stairways. In order to be considered part of an *accessible means of egress*, an *exit access stairway* as permitted by Section 1016.1 or *exit stairway* shall have a clear width of 48 inches (1219 mm) minimum between handrails and shall either incorporate an *area of refuge* within an enlarged floor-level landing or shall be accessed from either an *area of refuge* complying with Section 1007.6 or a *horizontal exit*.

Exceptions:

1. The *area of refuge* is not required at open *exit access* or *exit stairways* as permitted by Sections 1016.1 and 1022.1 in buildings that are equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2.
2. The clear width of 48 inches (1219 mm) between *handrails* is not required at *exit access stairway* as permitted by Section 1016.1 or *exit stairways* in buildings equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2.

3. *Areas of refuge* are not required at *exit stairways* in buildings equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2.
4. The clear width of 48 inches (1219 mm) between *handrails* is not required for *exit stairways* accessed from a *horizontal exit*.
5. *Areas of refuge* are not required at *exit stairways* serving *open parking garages*.
6. *Areas of refuge* are not required for smoke protected seating areas complying with Section 1028.6.2.
7. The *areas of refuge* are not required in Group R-2 occupancies.

1007.4 (Not adopted) Elevators. In order to be considered part of an *accessible means of egress*, an elevator shall comply with the emergency operation and signaling device requirements of Section 2.27 of ASME A17.1. Standby power shall be provided in accordance with Section 604.2.5 of this code and Section 3003 of the *International Building Code*. The elevator shall be accessed from either an *area of refuge* complying with Section 1007.6 or a *horizontal exit*.

Exceptions:

1. Elevators are not required to be accessed from an *area of refuge* or *horizontal exit* in *open parking garages*.
2. Elevators are not required to be accessed from an *area of refuge* or

horizontal exit in buildings and facilities equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2.

3. Elevators not required to be located in a shaft in accordance with Section 708.2 of the *International Building Code* are not required to be accessed from an *area of refuge* or *horizontal exit*.
4. Elevators are not required to be accessed from an *area of refuge* or *horizontal exit* for smoke-protected seating areas complying with Section 1028.6.2.

1007.5 (Not adopted) Platform lifts.

Platform (wheelchair) lifts shall not serve as part of an *accessible means of egress*, except where allowed as part of a required *accessible route* in Section 1109.7, Items 1 through 9, of the *International Building Code*. Standby power shall be provided in accordance with Section 604.2.6 of this code for platform lifts permitted to serve as part of a *means of egress*.

1007.5.1 (Not adopted) Openness.

Platform lifts on an *accessible means of egress* shall not be installed in a fully enclosed hoistway.

1007.6 (Not adopted) Areas of refuge.

Every required *area of refuge* shall be *accessible* from the space it serves by an *accessible means of egress*. The maximum travel distance from any *accessible space* to an *area of refuge* shall not exceed the travel distance permitted for the occupancy in accordance with Section 1016.1. Every required *area of refuge* shall have direct access to a *stairway* within an *exit*

enclosure complying with Sections 1007.3 and 1022 or an elevator complying with Section 1007.4. Where an elevator lobby is used as an *area of refuge*, the shaft and lobby shall comply with Section 1022.9 for *smokeproof enclosures* except where the elevators are in an *area of refuge* formed by a *horizontal exit* or *smoke barrier*.

Exceptions:

1. A *stairway* serving an *area of refuge* is not required to be enclosed where permitted in Sections 1016.1 and 1022.1.
2. *Smokeproof enclosure* is not required for an elevator lobby used as an *area of refuge* not required to be enclosed.

1007.6.1 (Not adopted) Size. Each *area of refuge* shall be sized to accommodate one *wheelchair space* of 30 inches by 48 inches (762 mm by 1219 mm) for each 200 occupants or portion thereof, based on the *occupant load* of the *area of refuge* and areas served by the *area of refuge*. Such *wheelchair spaces* shall not reduce the required *means of egress* width. Access to any of the required *wheelchair spaces* in an *area of refuge* shall not be obstructed by more than one adjoining *wheelchair space*.

1007.6.2 (Not adopted) Separation. Each *area of refuge* shall be separated from the remainder of the story by a *smoke barrier* complying with Section 710 of the *International Building Code* or a *horizontal exit* complying with Section 1025. Each *area of refuge* shall be designed to minimize the intrusion of smoke.

Exception: *Areas of refuge* located within an *exit enclosure*.

1007.6.3 (Not adopted) Two-way communication. *Areas of refuge* shall be provided with a two-way communication system complying with Sections 1007.8.1 and 1007.8.2.

1007.7 (Not adopted) Exterior area for assisted rescue. The exterior area for assisted rescue must be open to the outside air and meet the requirements of Section 1007.6.1. Separation walls shall comply with the requirements of Section 705 of the *International Building Code* for *exterior walls*. Where walls or openings are between the area for assisted rescue and the interior of the building, the building *exterior walls* within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall have a *fire-resistance rating* of not less than 1 hour. Openings within such *exterior walls* shall be protected by opening protectives having a *fire protection rating* of not less than ¾ hour. This construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower.

1007.7.1 (Not adopted) Openness. The exterior area for assisted rescue shall be at least 50 percent open, and the open area above the guards shall be so distributed as to minimize the accumulation of smoke or toxic gases.

1007.7.2 (Not adopted) Exterior exit stairway. *Exterior exit stairways* that are part of the *means of egress* for the exterior area for assisted rescue shall provide a clear width of 48 inches (1219 mm) between handrails.

1007.8 (Not adopted) Two-way communication. A two-way communication system shall be provided at the elevator landing on each *accessible* floor that is one or more stories above or below the *story of exit discharge* complying with Sections 1007.8.1 and 1007.8.2.

Exceptions:

1. Two-way communication systems are not required at the elevator landing where the two-way communication system is provided within *areas of refuge* in accordance with Section 1007.6.3.
2. Two-way communication systems are not required on floors provided with *exit ramps* conforming to the provisions of Section 1010.

1007.8.1 (Not adopted) System requirements. Two-way communication systems shall provide communication between each required location and the fire command center or a central control point location *approved* by the fire department.

Where the central control point is not constantly attended, a two-way communication system shall have a timed automatic telephone dial-out capability to a monitoring location or 911. The two-way communication system shall include both audible and visible signals.

1007.8.2 (Not adopted) Directions. Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system and written identification of the location shall be posted adjacent to the two-way communication system.

1007.9 (Not adopted) Signage. Signage indicating special accessibility provisions shall be provided as shown:

1. Each door providing access to an *area of refuge* from an adjacent floor area shall be identified by a sign stating: AREA OF REFUGE.
2. Each door providing access to an exterior area for assisted rescue shall be identified by a sign stating: EXTERIOR AREA FOR ASSISTED RESCUE.

Signage shall comply with the ICC A117.1 requirements for visual characters and include the International Symbol of Accessibility. Where exit sign illumination is required by Section 1011.2, the signs shall be illuminated. Additionally, tactile signage complying with ICC A117.1 shall be located at each door to an *area of refuge* and exterior area for assisted rescue in accordance with Section 1011.3.

1007.10 (Not adopted) Directional signage. Direction signage indicating the location of the other *means of egress* and which are *accessible means of egress* shall be provided at the following:

1. At *exits* serving a required *accessible* space but not providing an *approved accessible means of egress*.
2. At elevator landings.
3. Within *areas of refuge*.

1007.11 (Not adopted) Instructions. In *areas of refuge* and exterior areas for assisted rescue, instructions on the use of the area under emergency conditions

shall be posted. The instructions shall include all of the following:

1. Persons able to use the exit stairway do so as soon as possible, unless they are assisting others.
2. Information on planned availability of assistance in the use of stairs or supervised operation of elevators and how to summon such assistance.
3. Directions for use of the two-way communications system where provided.