

IBC®

INTERNATIONAL
BUILDING
CODE®

A Member of the International Code Family®



2021



2021 International Building Code Significant Changes

Chapter 4

Atriums

- Clarifications to atriums on when smoke control is required
- Clarifications on separations for atriums
- Egress elements



Chapter 4

Puzzle Rooms

- Define “puzzle rooms” or escape rooms
- Regulated as special amusement areas
- Sprinkler system required
- Smoke detection and fire alarm/voice required
- Egress elements tied to fire alarm



Chapter 4

- 414.2.3 Fire Wall use for control area
 - The scoping limitations of a fire wall's use to create separate buildings has been expanded through a new allowance for the number of control areas permitted.



Mass Timber Construction

- New mass timber construction types – Type IVA, IVB, IVC, IV-HT



Stairways in Podium Construction

- Interior exit stairways located within the Type IA building are permitted to be of combustible materials



Fire Curtains Assemblies

- UL 10 D
- Fire curtain assemblies added to code
- Smoke and draft control
- Alternative designs



Occupied roofs

- Elevator required for 4 stories or more
- Egress considerations
- More to come in 2024



Door Hardware Changes

- Panic hardware for
 - Electrical rooms with equipment rated at 800 A
 - Mechanical rooms >1,000 sf
 - Energy storage systems
- Locks in Educational Occupancies



Social Stairs

- Code recognizes social stairs
- Provide handrail requirements



Shipping Containers

- IBC allows shipping containers as building material
- Must meet labeling requirement
- Structural analysis needed
- Permanent foundation
- More to come in 2024



ICC A117.1-2017

Standard for Accessible
and Usable Buildings
and Facilities

American National Standard



Updated Standards – ICC A117.1-2017

- Updated accessibility standards
- New vs. Existing
- Larger spaces in restrooms
- Larger turning radius

Updated Standards – ICC 500

- Storm Shelter standard
- New 2020 Standard
- Provides revisions for many storm shelter requirements



ICC 500-2020

**ICC/NSSA Standard
for the Design and
Construction of Storm
Shelters**

American National Standard


National Storm Shelter Association

IRC[®]

INTERNATIONAL
RESIDENTIAL CODE[®]
for One- and Two-Family Dwellings

A Member of the International Code Family[®]



2021

INCLUDES

Residential requirements from
NFPA 70: National Electrical Code[®] 2020
The electrical code designated for

2021 International Residential Code- Significant Changes

Shipping Containers

- IRC allows shipping containers as building material
- IBC contains requirements
- Must meet labeling requirement
- Structural analysis needed
- Permanent foundation
- More to come in 2024



Stairways

- Clarifies stairways not within or attached to building, porch or deck are not regulated by IRC
- Stairway associated with landscaping in yard (Not IRC)



Egress Windows

- Add clarifications
- Required path to public way
- New bedrooms created in basement require egress window
- Existing windows 4 sf



Habitable Attics

- Limited to $\frac{1}{3}$ of the floor area below
- Can increase to $\frac{1}{2}$ of the floor area below if equipped with fire sprinklers



Carbon Monoxide

CO detectors required when alterations occur and attached garage or fuel fired appliances present

Consistent with smoke detector requirements



Smoke Alarms

- Additional clarifications for locations
- Cooking appliance nuisance alarms



Decks - 507

- New section in 2018
- Revised for 2021
- Specifies deck construction
- Footing sizes
- Posts can't be notched for guardrails



IEBC[®]

INTERNATIONAL
EXISTING BUILDING
CODE[™]

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2021



International Existing Building Code

- Numerous clarifications
- Align requirements of IBC & IFC

Next Steps

- CICC is recommending codes in early November
- MICCC group is meeting to discuss code adoptions
- Fire code and other PDC ordinance changes will be presented in November
- Targeted adoption is January/February 2023
- State legislation????

