



**2021 ICC CODE DEVELOPMENT CYCLE
UPDATES TO THE 2021 PROPOSED
CHANGES TO THE INTERNATIONAL
CODES**

**Update to the 2021 Group A – Consolidated Monograph
Updates 4/01/2021**

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See highlighted change to IFC portion of Cross Index

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INTERNATIONAL FIRE CODE	
Chapter 6	
601.1	G175-21 Part II
604.3.4	G181-21 Part II
604.4	E37-21 Part I
606.2	M35-21, M40-21, M41-21, M42-21, M43-21, M44-21, M45-21, & M46-21
608.9.1	G99-21 Part IX
[M] 608.17	M77-21 Part II
611	G175-21 Part II
611.1	G175-21 Part II
611.1.1	G175-21 Part II
611.1.2	G175-21 Part II

See highlighted change to IBC-E Committee Roster

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See highlighted change to ISPSC Committee Roster

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See highlighted change to IBC-FS Hearing Order

TENTATIVE ORDER OF DISCUSSION 2021 PROPOSED CHANGES TO THE INTERNATIONAL BUILDING CODE – FIRE SAFETY

The following is the tentative order in which the proposed changes to the code will be discussed at the public hearings. Proposed changes which impact the same subject have been grouped to permit consideration in consecutive changes.

Proposed change numbers that are indented are those which are being heard out of numerical order. Indentation does not necessarily indicate that one change is related to another. Proposed changes may be grouped for purposes of discussion at the hearing at the discretion of the chair. Note that some FS code change proposals may not be included on this list, as they are being heard by another committee.

Number Not Used

FS13-21

G4-21	FS25-21	FS154-21	FS87-21
G7-21 Part I	FS26-21	FS56-21	FS88-21
G8-21	FS27-21	FS57-21	FS89-21
G9-21	FS28-21	FS58-21	FS90-21
G18-21	FS29-21	FS59-21	FS91-21
G24-21	FS30-21	FS60-21	FS92-21
G27-21	FS31-21	FS61-21	FS93-21
FS1-21	FS32-21	FS62-21	FS94-21
FS2-21	FS33-21	FS63-21	FS95-21
FS3-21	FS34-21	FS64-21	FS96-21
FS4-21	FS35-21	FS65-21	FS97-21 Part I
FS5-21	FS36-21	FS66-21	FS98-21
FS6-21	FS37-21	FS67-21	FS99-21
FS7-21	FS38-21	FS68-21	FS100-21
FS8-21	FS39-21	FS69-21	FS101-21
FS9-21	FS40-21	FS70-21	FS102-21
FS10-21	FS41-21	FS71-21	G17-21
FS11-21	FS42-21	FS72-21	FS103-21
G29-21	FS43-21	FS73-21	FS104-21
FS12-21	FS44-21	FS74-21	FS105-21
FS13-21	FS45-21	FS75-21	FS106-21
FS14-21	FS46-21	FS76-21	FS107-21
FS15-21	G183-21 Part II	FS77-21	FS108-21
FS16-21	FS47-21 Part I	FS78-21	FS155-21
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FS19-21	FS50-21	FS81-21	FS111-21
FS20-21	FS51-21	FS82-21	FS112-21
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 S5-21
 S10-21
 F15-21 Part II
 F16-21 Part II
FS152-21
 G 122-21
FS153-21
 F60-21 Part II
 PM21-21

See highlighted change to IFC Hearing Order

TENTATIVE ORDER OF DISCUSSION 2021 PROPOSED CHANGES TO THE INTERNATIONAL FIRE CODE

The following is the tentative order in which the proposed changes to the code will be discussed at the public hearings. Proposed changes which impact the same subject have been grouped to permit consideration in consecutive changes.

Proposed change numbers that are indented are those which are being heard out of numerical order. Indentation does not necessarily indicate that one change is related to another. Proposed changes may be grouped for purposes of discussion at the hearing at the discretion of the chair. Note that some F and PC code change proposals may not be included on this list, as they are being heard by another committee.

ICCPC	F10-21	F44-21	F66-21
PC10-21	F11-21	F45-21	F67-21
PC12-21	F12-21	F46-21	F68-21
PC17-21	F13-21	F47-21	F69-21
PC18-21	F14-21	F48-21	F70-21
	F7-21	F49-21	F71-21
IWUIC	F15-21 Part I	F50-21	F72-21
WUIC1-21	F16-21 Part I	F51-21	F73-21
WUIC2-21	F17-21	G181-21 Part II	F74-21
WUIC3-21	F18-21	F52-21	F75-21 Part I
WUIC4-21	F19-21	F53-21 Part I	F76-21
WUIC5-21	F20-21	F54-21 Part I	F77-21
WUIC6-21	F21-21	F55-21	F78-21
WUIC7-21	F22-21	M8-21 Part II	F79-21
WUIC8-21	F23-21	M78-21 Part II	F80-21
WUIC9-21	G100-21 Part II	G99-21 Part IX	F81-21
WUIC10-21	F24-21	G99-21 PART VIII	F83-21
WUIC11-21	F25-21	F56-21	F84-21
WUIC12-21	F26-21	F57-21 Part I	F85-21
WUIC13-21	F27-21	G175-21 Part II	F86-21
WUIC14-21	F28-21	F58-21	F87-21
WUIC15-21	F29-21	F59-21	F88-21
WUIC16-21	F30-21	FS47-21 Part II	G126-21 Part II
WUIC17-21	F31-21	F4-21	G86-21 Part II
WUIC18-21	F32-21	F60-21 Part I	F89-21
	F33-21	FS160-21	G112-21 Part III
IFC	F34-21	G3-21 Part II	F90-21
G7-21 Part II	F35-21	PM22-21	F91-21
G44-21 Part II	F36-21	FS159-21	F92-21
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F6-21	F39-21	F62-21	F95-21
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F9-21	F43-21	F65-21	FS119-21

F97-21	G50-21	G55-21	F193-21
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G58-21	F147-21		F3-21
G204-21	F148-21		G41-21
G83-21	F149-21		F98-21
G84-21	F150-21		F194-21
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F125-21	F174-21		F218-21
F126-21	G199-21 Part II		F219-21
F127-21	F175-21		F220-21
E26-21 Part II	F176-21		F221-21
F128-21	F177-21		F222-21
F129-21	F178-21		F223-21
F130-21	F179-21		F224-21
F131-21	F180-21		F225-21
F132-21	F181-21		F226-21
F2-21	F182-21		F227-21
F133-21	F183-21		F228-21
F134-21	F184-21		F229-21
F135-21	F185-21		F230-21
F136-21	F186-21 Part I		F231-21
F137-21	G38-21		F232-21
F138-21	F187-21		F233-21
F139-21	F188-21		F234-21
F140-21	F189-21		F235-21
F141-21	F190-21		
F142-21	F191-21		
F143-21	F192-21		
F144-21	G36-21		

See highlighted change to IMC Hearing Order

TENTATIVE ORDER OF DISCUSSION 2021 PROPOSED CHANGES TO THE INTERNATIONAL MECHANICAL CODE

The following is the tentative order in which the proposed changes to the code will be discussed at the public hearings. Proposed changes which impact the same subject have been grouped to permit consideration in consecutive changes.

Proposed change numbers that are indented are those which are being heard out of numerical order. Indentation does not necessarily indicate that one change is related to another. Proposed changes may be grouped for purposes of discussion at the hearing at the discretion of the chair. Note that some M code change proposals may not be included on this list, as they are being heard by another committee.

M1-21	M36-21	M70-21
M2-21	M37-21	M71-21
M3-21	M38-21	M72-21
M4-21 Part I	M39-21	M73-21
M5-21	M40-21	M74-21
M6-21	M41-21	G99-21 Part X
M7-21	M42-21	G99-21 Part XI
M8-21 Part I	M43-21	G99-21 Part XII
M9-21	M44-21	M75-21
M10-21 Part I	M45-21	M76-21
M11-21	M46-21	FS53-21 Part II
M12-21	M47-21	F53-24 Part II
P621 Part III	M48-21	M77-21 Part I
G1-21 Part V	M49-21	M77-21 Part II
M13-21	M50-21	M78-21 Part I
M14-21	M51-21	M79-21
M15-21	M52-21	M80-21
M16-21	M53-21	M81-21
M17-21	M54-21	M82-21
M18-21	M55-21	M83-21
M19-21	M56-21	M84-21
M20-21	M57-21	M85-21
M21-21	M58-21	M86-21
M22-21	M59-21	M87-21
M23-21	M60-21	M88-21
M24-21	G3-21 Part III	M89-21
M25-21	FG7-21 Part II	M90-21
M26-21	M61-21	M91-21
M27-21	M62-21	M92-21
M28-21	M63-21	M93-21
M29-21 Part I	M64-21	M94-21
M30-21	M65-21	M95-21
FS47-21 Part III	M66-21 Part I	M96-21
M31-21	M67-21	M97-21
M32-21	M68-21	M98-21
M33-21	FS54-21 Part II	M99-21 Part I
M34-21	F54-21 Part II	M100-21 Part I
M35-21	M69-21	M101-21

PC14-21-21

See highlighted change to IPC Hearing Order

TENTATIVE ORDER OF DISCUSSION 2021 PROPOSED CHANGES TO THE INTERNATIONAL PLUMBING CODE

The following is the tentative order in which the proposed changes to the code will be discussed at the public hearings. Proposed changes which impact the same subject have been grouped to permit consideration in consecutive changes.

Proposed change numbers that are indented are those which are being heard out of numerical order. Indentation does not necessarily indicate that one change is related to another. Proposed changes may be grouped for purposes of discussion at the hearing at the discretion of the chair. Note that some P code change proposals may not be included on this list, as they are being heard by another committee.

IPSDC	P38-21	P58-21	P143-21 Part I
PSD1-21	P29-21	P59-21	P144-21
	P30-21	P60-21	P111-21
IPC	P31-21	P61-21 Part I	P120-21 Part I
P1-21	P32-21	P62-21 Part I	P124-21
P2-21	P33-21	P63-21 Part I	P66-21
P3-21	P34-21	P64-21 Part I	P69-21
FS47-21 Part IV	P35-21	P65-21	P70-21
P4-21	P36-21	P74-21 Part I	P71-21
P5-21 Part I	P37-21 Part I	P76-21 Part I	P72-21
P5-21 Part II	P37-21 Part II	P117-21 Part I	P73-21
P6-21 Part I	P39-21 Part I	P67-21	P7-21
P7-21	P39-21 Part II	P68-21 Part I	P77-21
P8-21	P49-21	P75-21 Part I	P78-21
P9-21	P40-21	P85-21	P79-21
P10-21	P41-21	P86-21	P80-21
P11-21	P42-21	P87-21 Part I	P81-21
P12-21	P43-21	P88-21	P82-21
P13-21	P44-21	P89-21	P83-21
P14-21	P45-21 Part I	P90-21	P84-21
P15-21	P45-21 Part II	P91-21	P104-21
P16-21	P46-21	P96-21 Part I	P105-21
P17-21 Part I	P47-21	P97-21	P109-21
P18-21	P48-21	P98-21	P110-21
P19-21	P50-21	P99-21	P112-21
P20-21	P51-21	P101-21	P113-21
P21-21	P93-21	P102-21	P114-21
P22-21	P94-21	P103-21	P115-21
P23-21	P95-21	P106-21	P116-21
G44-21 Part III	P92-21	P107-21	P118-21
G3-21 Part III	P100-21	P108-21	P119-21
P24-21 Part I	P52-21	P135-21	P121-21
P24-21 Part II	P53-21 Part I	P136-21	P122-21
P25-21	P54-21 Part I	P138-21	P123-21
P26-21	P55-21	P139-21	
P27-21	P56-21	P140-21 Part I	
P28-21	P57-21	P142-21	

P125-21
P126-21
P127-21
P128-21
 P137-21
 P141-21
P129-21 Part I
P130-21
P131-21
P132-21
P133-21 Part I
P134-21
 P146-21
 G1-21 Part IV
 PC15-21
P147-21 Part I

TENTATIVE ORDER OF DISCUSSION 2021 PROPOSED CHANGES TO THE INTERNATIONAL RESIDENTIAL CODE – MECHANICAL

The following is the tentative order in which the proposed changes to the code will be discussed at the public hearings. Proposed changes which impact the same subject have been grouped to permit consideration in consecutive changes.

Proposed change numbers that are indented are those which are being heard out of numerical order. Indentation does not necessarily indicate that one change is related to another. Proposed changes may be grouped for purposes of discussion at the hearing at the discretion of the chair. Note that some RM code change proposals may not be included on this list, as they are being heard by another committee.

M4-21 Part II	RM27-21
<u>M106-21 Part III</u>	
<u>M8-21 Part III</u>	
<u>M108-21 Part II</u>	
<u>M66-21 Part II</u>	
RM1-21	
RM2-21	
RM3-21	
RM4-21	
RM5-21	
RM6-21	
RM7-21	
RM8-21	
RM9-21	
RM10-21	
RM11-21	
RM12-21	
RM13-21	
<u>M30-21 Part II</u>	
<u>M29-21 Part II</u>	
RM14-21	
RM15-21	
RM16-21	
RM17-21	
RM18-21	
RM19-21	
RM20-21	
RM21-21	
RM22-21	
RM23-21	
RM24-21	
<u>M105-21 Part II</u>	
<u>M10-21 Part II</u>	
RM25-21	
M99-21 Part II	
M100-21 Part II	
RM26-21	

2021 PROPOSED CHANGES TO THE INTERNATIONAL BUILDING CODE – FIRE SAFETY

Updated 4/01/2021

FS67-21: Correction to item #7 (See highlighted text)

FS67-21

Proponents: Timothy Pate, Colorado Chapter ICC Code change Committee, representing City and County of Broomfield (tpate@broomfield.org)

Revise as follows:

714.5.2 Membrane penetrations. Penetrations of membranes that are part of a horizontal assembly shall comply with Section 714.5.1.1 or 714.5.1.2. Where floor/ceiling assemblies are required to have a fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.

Exceptions:

1. Membrane penetrations by steel, ferrous or copper conduits, pipes, tubes or vents, or concrete or masonry items where the annular space is protected either in accordance with Section 714.5.1 or to prevent the free passage of flame and the products of combustion. The aggregate area of the openings through the membrane shall not exceed 100 square inches (64 500 mm²) in any 100 square feet (9.3 m²) of ceiling area in assemblies tested without penetrations.
 2. Ceiling membrane penetrations of maximum 2-hour horizontal assemblies by steel electrical boxes that do not exceed 16 square inches (10 323 mm²) in area, provided that the aggregate area of such penetrations does not exceed 100 square inches (44 500 mm²) in any 100 square feet (9.29 m²) of ceiling area, and the annular space between the ceiling membrane and the box does not exceed 1/8 inch (3.2 mm).
 3. Membrane penetrations by electrical boxes of any size or type, that have been listed as part of an opening protective material system for use in horizontal assemblies and are installed in accordance with the instructions included in the listing.
 4. Membrane penetrations by listed electrical boxes of any material, provided that such boxes have been tested for use in fire-resistance-rated assemblies and are installed in accordance with the instructions included in the listing. The annular space between the ceiling membrane and the box shall not exceed 1/8 inch (3.2 mm) unless listed otherwise.
 5. The annular space created by the penetration of a fire sprinkler, provided that it is covered by a metal escutcheon plate.
 6. Noncombustible items that are cast into concrete building elements and that do not penetrate both top and bottom surfaces of the element.
 7. The ceiling membrane of a maximum 1-hour fire-resistance-rated horizontal assembly is permitted to be interrupted with a single 2 inch nominal thickness wood top plate and a maximum 2-hour fire-resistance-rated horizontal assembly is permitted to be interrupted with the double 2 inch nominal thickness wood top plate of a wall assembly that is sheathed with Type X gypsum wallboard, provided that all penetrating items through the double top plates are protected in accordance with Section 714.5.1.1 or 714.5.1.2 and the ceiling membrane is tight to the top plates.
 8. Ceiling membrane penetrations by listed luminaires (light fixtures) or by luminaires protected with listed materials, which have been tested for use in fire-resistance-rated assemblies and are installed in accordance with the instructions included in the listing.
-

FS110-21: IFC Section number added (See highlighted text)

FS110-21

IBC: 909.20.1; IFC: [BF] 909.20.1

Proponents: Ali Fattah, City of San Diego Development Services Department, representing City of San Diego Development Services Department (afattah@sandiego.gov)

FS111-21: IFC Section number added (See highlighted text)

FS111-21

IBC: 909.20.2, 909.20.2.1, 909.20.2.2 (New), ASTM Chapter 35 (New); IFC: [BF] 909.20.2, [BF] 909.20.2.1, [FS] 909.20.2.2 (New), ASTM Chapter 80 (New)

Proponents: Tony Crimi, representing International Firestop Council

FS112-21: IFC Section number added (See highlighted text)

FS112-21

IBC: 909.20, 909.20.4, 909.20.4.1, 909.20.4.2, 909.20.4.2.1, 909.20.4.3, 909.20.4.4, 909.20.7; IFC: [BF] 909.20, [BF] 909.20.4, [BF] 909.20.4.1, [BF] 909.20.4.2, [BF] 909.20.4.2.1, [BF] 909.20.4.3, [BF] 909.20.4.4

Proponents: Valarie Evans, representing SNICC, SNBO (evansv@cityofnorthlasvegas.com)

FS113-21: IFC Section number added (See highlighted text)

FS113-21

IBC: 909.20.5; IFC: [BF] 909.20.5

Proponents: Jeffrey S. Grove, P.E. FSFPE, Jensen Hughes, representing Jensen Hughes (jgrove@jensenhughes.com)

FS114-21: IFC Section number added (See highlighted text)

FS114-21

IBC: 909.20.5.1 (New); IFC: [FS] 909.20.5.1 (New)

Proponents: Valarie Evans, representing SNICC, SNBO (evansv@cityofnorthlasvegas.com)

FS115-21: IFC Section number added (See highlighted text)

FS115-21

IBC: 909.20.6.4 (New); IFC: [FS] 909.20.6.4 (New)

Proponents: Jeffrey S. Grove, P.E. FSFPE, Jensen Hughes, representing Jensen Hughes (jgrove@jensenhughes.com)

FS116-21: IFC Section number added (See highlighted text)

FS116-21

IBC: 909.21; IFC: [BF] 909.21

Proponents: Jeffrey S. Grove, P.E. FSFPE, Jensen Hughes, representing Jensen Hughes (jgrove@jensenhughes.com)

FS117-21: IFC Section number added (See highlighted text)

FS117-21

IBC: 909.21.3, ASTM Chapter 35 (New); IFC: [BF] 909.21.3, ASTM Chapter 80 (New)

Proponents: Tony Crimi, representing International Firestop Council

FS118-21: IFC Section number added (See highlighted text)

FS118-21

IBC: 909.21.6; IFC: [BF] 909.21.6

Proponents: Jeffrey S. Grove, P.E. FSFPE, Jensen Hughes, representing Jensen Hughes (jgrove@jensenhughes.com)

FS119-21: IFC Section number added (See highlighted text)

FS119-21

IBC: 910.2.1; IFC: 910.2.1

Proponents: Andrew Bevis, National Fire Sprinkler Association, representing National Fire Sprinkler Association (bevis@nfsa.org); Jeffrey Hugo, representing NFSA (hugo@nfsa.org)

Updated 4/01/2021

FS135-21: Staff analysis added

FS135-21

Proponents: Theresa Weston, The Holt Weston Consultancy, LLC, representing The Holt Weston Consultancy, LLC (holtweston88@gmail.com)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS136-21: Staff analysis added

FS136-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS137-21: Staff analysis added

FS137-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS138-21: Staff analysis added

FS138-21

Proponents: Rob Brooks, Rob Brooks and Associates LLC, representing DuPont Performance Building Solutions (rob@rtbrooks.com); Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS139-21: Staff analysis added

FS139-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS140-21: Staff analysis added

FS140-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS141-21: Staff analysis added

FS141-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS142-21: Staff analysis added

FS142-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

Updated 4/01/2021

FS143-21: Staff analysis added

FS143-21

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

Staff Analysis: This proposal includes published errata to the 2021 IBC. Please go to https://www.iccsafe.org/wp-content/uploads/errata_central/2021-IBC-Errata-Chapter-14.pdf to view this published errata.

2021 PROPOSED CHANGES TO THE INTERNATIONAL BUILDING CODE – GENERAL

Updated 4/01/2021

G121-21: Corrected the order of sections. See full code change below. **Section 406.2.8 was missing from the 1st Updates book.**

G121-21

Proponents: Shane Nilles, City of Cheney, WA, representing Self (snilles@cityofcheney.org)

Revise as follows:

302.1 Occupancy classification. Occupancy classification is the formal designation of the primary purpose of the building, structure or portion thereof. Structures shall be classified into one or more of the occupancy groups specified in this section based on the nature of the hazards and risks to building occupants generally associated with the intended purpose of the building or structure. An area, room or space that is intended to be occupied at different times for different purposes shall comply with all applicable requirements associated with such potential multipurpose. ~~Structures containing multiple occupancy groups shall comply with Section 508.~~ Where a structure is proposed for a purpose that is not specified in this section, such structure shall be classified in the occupancy it most nearly resembles based on the fire safety and relative hazard. Occupied roofs shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard, and shall comply with Section 503.1.4 .

1. Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5.
2. Business (see Section 304): Group B.
3. Educational (see Section 305): Group E.
4. Factory and Industrial (see Section 306): Groups F-1 and F-2.
5. High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5.
6. Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4.
7. Mercantile (see Section 309): Group M.
8. Residential (see Section 310): Groups R-1, R-2, R-3 and R-4.
9. Storage (see Section 311): Groups S-1 and S-2.
10. Utility and Miscellaneous (see Section 312): Group U.

SECTION 403 HIGH-RISE BUILDINGS.

Revise as follows:

403.1 General Applicability. *High-rise buildings* shall comply with Sections 403.2 through 403.6. Where high-rise buildings contain mixed use and occupancies, the most restrictive provisions of this section shall apply throughout the fire area of the high-rise building or portion thereof.

Exceptions: The provisions of Sections 403.2 through 403.6 shall not apply to the following buildings and structures:

1. Airport traffic control towers in accordance with Section 412.2.
2. Open parking garages in accordance with Section 406.5.
3. The portion of a building containing a Group A-5 occupancy in accordance with Section 303.6.

4. Special industrial occupancies in accordance with Section 503.1.1.
5. Buildings containing any one of the following:
 - 5.1. A Group H-1 occupancy.
 - 5.2. A Group H-2 occupancy in accordance with Section 415.8, 415.9.2, 415.9.3 or 426.1.
 - 5.3. A Group H-3 occupancy in accordance with Section 415.8.

SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES

Revise as follows:

406.2.8 Mixed occupancies and uses. Mixed uses shall be allowed in the same building provided that they are separated from as public parking garages and repair garages by 2-hour rated fire barriers or horizontal assemblies, in accordance with Section 508.4. Mixed uses in the same building as an open parking garage are subject to Sections 402.4.2.3, 406.5.11, 508.4, 510.3, 510.4 and 510.7.

Exception: The separation from public parking garages and repair garages shall be permitted to be reduced to 1-hour provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1

406.3.2 Separation. For other than *private garages* adjacent to dwelling units, the separation of *private garages* from other occupancies shall comply with Section 406.2.8 508. Separation of *private garages* from *dwelling units* shall comply with Sections 406.3.2.1 and 406.3.2.2.

406.5.3 Mixed occupancies and uses. Mixed uses shall be allowed in the same building as an *open parking garage* subject to the provisions of Sections 402.4.2.3, 406.5.11, 504.2, 506.2.2, 508.4, 510.3, 510.4 and 510.7.

406.5.4 Area and height. Area and height of *open parking garages* shall be limited as set forth in Chapter 5 for Group S-2 occupancies and as further provided for in Section 508.4.

SECTION 407 GROUP I-2

Revise as follows:

407.1.1 Group I-2, Condition 2 occupancies. The most restrictive requirements of Section 407, 509, and 712 shall apply throughout the entire fire area containing the Group I-2 occupancy. The most restrictive requirements of Chapter 10 shall apply to the path of egress from the Group I-2, Condition 2 occupancy up to and including the exit discharge.

SECTION 415 GROUPS H-1, H-2, H-3, H-4 AND H-5

415.6.4 Mixed-occupancies. Where located in the same building H-2, H-3, H-4, and H-5 occupancies shall each be individually separated from the rest of the building by fire barriers constructed in accordance with Section 707, horizontal assemblies constructed in accordance with Section 711, or combination thereof having a fire-resistance rating of no less than required by Table 415.6.4. H-1 shall not be located in buildings containing any other occupancies or uses.

Add new text as follows:

**TABLE 415.6.4
SEPARATION OF GROUP H OCCUPANCIES (HOURS)**

OCCUPANCY	H-2	H-3, H-4	H-5
A, E, I, R, F-2, S-2	<u>3</u>	<u>2</u>	<u>2</u>
B, F-1, M, S-1	<u>2</u>	<u>1</u>	<u>1</u>
H-2	<u>N</u>	<u>1</u>	<u>1</u>
H-3, H-4	<u>1</u>	<u>1^a</u>	<u>1</u>
H-5	<u>1</u>	<u>1</u>	<u>N</u>

N = No separation requirement

a. Separation is not required between occupancies of the same classification.

Revise as follows:

[F] 415.9.1.1 Mixed occupancies. Where the storage tank area is located in a building of two or more occupancies and the quantity of liquid exceeds the maximum allowable quantity for one *control area*, the use shall be completely separated from adjacent occupancies in accordance with the requirements of Section 415.6.4 508.4.

SECTION 428 HIGHER EDUCATION LABORATORIES

Revise as follows:

[F] 428.3.1 Separation from other nonlaboratory areas. *Laboratory suites* shall be separated from other portions of the building with fire barriers or horizontal assemblies as required in Table 428.3. Fire barriers shall be constructed in accordance with Section 707 and horizontal assemblies constructed in accordance with Section 711. ~~in accordance with the most restrictive of the following:~~

Exception: Where an individual laboratory suite occupies more than one story, the fire-resistance rating of intermediate floors contained within the laboratory suite shall comply with the requirements of this code.

~~1. Fire barriers and horizontal assemblies as required in Table 428.3. Fire barriers shall be constructed in accordance with Section 707 and horizontal assemblies constructed in accordance with Section 711.~~

~~**Exception:** Where an individual laboratory suite occupies more than one story, the fire-resistance rating of intermediate floors contained within the laboratory suite shall comply with the requirements of this code.~~

~~2. Separations as required by Section 508.~~

SECTION 504 BUILDING HEIGHT AND NUMBER OF STORIES

Revise as follows:

504.2 Mixed occupancy. In a building containing mixed occupancies ~~in accordance with Section 508~~, no individual occupancy shall exceed the height and number of story limits specified in this section for the applicable occupancies.

Exception: Accessory occupancies with an aggregate area that does not exceed 10% of the floor area of the story in which they are located, and does not exceed the tabular values for nonsprinklered buildings in Table 506.2 for such occupancy, the allowable height and number of stories of the accessory occupancy is permitted to be evaluated as part of one of the other occupancies on that story.

SECTION 506 BUILDING AREA

Revise as follows:

506.2.2 Mixed-occupancy buildings. The allowable area of each *story* of a mixed-occupancy building shall be determined in accordance with Section 506.2.2.1 ~~the applicable provisions of , Section 508.3.2 for nonseparated occupancies and Section 508.4.2 for separated occupancies.~~

For buildings with more than three *stories above grade plane*, the total *building area* shall be such that the aggregate sum of the ratios of the actual area of each *story* divided by the allowable area of such stories, determined in accordance with Equation 5-3 based on the ~~applicable provisions~~ of Section 506.2.2.1 ~~508-4~~, shall not exceed three.

$$A_a = [A_t + (NS \times I_f)]$$

(Equation 5-3)

A_a = Allowable area (square feet).

A_t = Tabular allowable area factor (NS, S13R, S13D or SM value, as applicable) in accordance with Table 506.2.

NS = Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building, regardless of whether the building is sprinklered.

I_f = Area factor increase due to frontage (percent) as calculated in accordance with Section 506.3.

Exception: For buildings ~~designed as separated occupancies under Section 508.4 and~~ equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.2, the total *building area* shall be such that the aggregate sum of the ratios of the actual area of each *story* divided by the allowable area of such *stories* determined in accordance with Equation 5-3 based on the ~~applicable provisions of Section 506.2.2.1 ~~508-4~~, shall not exceed four.~~

Add new text as follows:

506.2.2.1 Mixed-occupancy, stories. Where a building story contains more than one occupancy group, each portion of the building story shall be individually classified in accordance with Section 302.1. In each story, the building area shall be such that the sum of the ratios of the actual building area of each occupancy divided by the allowable building area of each occupancy shall not exceed 1.

Exception: Accessory occupancies with an aggregate area that does not exceed 10% of the floor area of the story in which they are located, and does not exceed the tabular values for nonsprinklered buildings in Table 506.2 for such occupancy, the area of the accessory occupancy is permitted to be included as part of the area for one of the other occupancies on that story.

Revise as follows:

~~506.2.2.1~~ **506.2.2.1.1 Group H-2 or H-3 mixed occupancies.** For a building containing Group H-2 or H-3 occupancies, the allowable area shall be determined in accordance with Section ~~506.2.2.1508.4.2~~, with the sprinkler system increase applicable only to the portions of the building not classified as Group H-2 or H-3.

SECTION 507 UNLIMITED AREA BUILDINGS

Revise as follows:

507.1.1 Accessory occupancies. Accessory occupancies shall be permitted in unlimited area buildings in accordance with the provisions of Section ~~504.2 and 506.2.2508.2~~, otherwise the requirements of Sections 507.3 through 507.13 shall be applied, where applicable.

507.4.1 Mixed occupancy buildings with Groups A-1 and A-2. Group A-1 and A-2 occupancies of other than Type V construction shall be permitted within mixed occupancy buildings of unlimited area complying with Section 507.4, provided that the following criteria are met:

1. Group A-1 and A-2 occupancies are separated from B, F, M, or S occupancies with 2-hour rated fire barriers or horizontal assemblies. Fire barriers shall be constructed in accordance with Section 707 and horizontal assemblies shall be constructed in accordance with Section 711 as required for separated occupancies in Section 508.4.4 with no reduction allowed in the fire-resistance rating of the separation based upon the installation of an automatic sprinkler system.
2. Each area of the portions of the building used for Group A-1 or A-2 occupancies shall not exceed the maximum allowable area permitted for such occupancies in Section 503.1.
3. Exit doors from Group A-1 and A-2 occupancies shall discharge directly to the exterior of the building.

Delete without substitution:

SECTION 508 MIXED USE AND OCCUPANCY.

~~**508.1 General.** Each portion of a building shall be individually classified in accordance with Section 302.1. Where a building contains more than one occupancy group, the building or portion thereof shall comply with the applicable provisions of Section 508.2, 508.3, 508.4 or 508.5, or a combination of these sections.~~

~~**Exceptions:**~~

- ~~1. Occupancies separated in accordance with Section 510.~~
- ~~2. Where required by Table 415.6.5, areas of Group H-1, H-2 and H-3 occupancies shall be located in a detached building or structure.~~

~~**508.2 Accessory occupancies.** Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. Accessory occupancies shall comply with the provisions of Sections 508.2.1 through 508.2.4.~~

~~**508.2.1 Occupancy classification.** Accessory occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space.~~

508.2.2 Allowable building height. The allowable height and number of stories of the building containing accessory occupancies shall be in accordance with Section 504 for the main occupancy of the building.

508.2.3 Allowable building area. The allowable area of the building shall be based on the applicable provisions of Section 506 for the main occupancy of the building. Aggregate accessory occupancies shall not occupy more than 10 percent of the floor area of the story in which they are located and shall not exceed the tabular values for nonsprinklered buildings in Table 506.2 for each such accessory occupancy.

508.2.4 Separation of occupancies. No separation is required between accessory occupancies and the main occupancy.

Exceptions:

1. Group H-2, H-3, H-4 and H-5 occupancies shall be separated from all other occupancies in accordance with Section 508.4.
2. Group I-1, R-1, R-2 and R-3 dwelling units and sleeping units shall be separated from other dwelling or sleeping units and from accessory occupancies contiguous to them in accordance with the requirements of Section 420.

508.3 Nonseparated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.

508.3.1 Occupancy classification. Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 that apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area.

508.3.1.1 High-rise buildings. Where nonseparated occupancies occur in a *high-rise building*, the most restrictive requirements of Section 403 that apply to the nonseparated occupancies shall apply throughout the *high-rise building*.

508.3.1.2 Group I-2, Condition 2 occupancies. Where one of the nonseparated occupancies is Group I-2, Condition 2, the most restrictive requirements of Sections 407, 509 and 712 shall apply throughout the *fire area* containing the Group I-2 occupancy. The most restrictive requirements of Chapter 10 shall apply to the path of egress from the Group I-2, Condition 2 occupancy up to and including the *exit discharge*.

508.3.2 Allowable building area, height and number of stories. The allowable *building area*, *height* and number of *stories* of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

508.3.3 Separation. No separation is required between nonseparated occupancies.

Exceptions:

1. Group H-2, H-3, H-4 and H-5 occupancies shall be separated from all other occupancies in accordance with Section 508.4.
2. Group I-1, R-1, R-2 and R-3 dwelling units and sleeping units shall be separated from other dwelling or sleeping units and from other occupancies contiguous to them in accordance with the requirements of Section 420.

508.4 Separated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall be considered as separated occupancies.

**TABLE 508.4
REQUIRED SEPARATION OF OCCUPANCIES (HOURS)^f**

OCCUPANCY	A, E		I-1 ^a , I-3, I-4		I-2		R ^a		F-2, S-2 ^b , U		B ^e , F-1, M, S-1		H-1		H-2		H-3, H-4		H-5	
	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS
A, E	N	N	1	2	2	NP	1	2	N	1	1	2	NP	NP	3	4	2	3	2	NP
I-1 ^a , I-3, I-4	1	2	N	N	2	NP	1	NP	1	2	1	2	NP	NP	3	NP	2	NP	2	NP
I-2	2	NP	2	NP	N	N	2	NP	2	NP	2	NP	NP	NP	3	NP	2	NP	2	NP
R ^a	1	2	1	NP	2	NP	N	N	1 ^e	2 ^e	1	2	NP	NP	3	NP	2	NP	2	NP
F-2, S-2 ^b , U	N	1	1	2	2	NP	1 ^c	2 ^c	N	N	1	2	NP	NP	3	4	2	3	2	NP
B ^e , F-1, M, S-1	1	2	1	2	2	NP	1	2	1	2	N	N	NP	NP	2	3	1	2	1	NP
H-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	N	NP	NP	NP	NP	NP	NP	NP
H-2	3	4	3	NP	3	NP	3	NP	3	4	2	3	NP	NP	N	NP	1	NP	1	NP
H-3, H-4	2	3	2	NP	2	NP	2	NP	2	3	1	2	NP	NP	1	NP	1 ^d	NP	1	NP
H-5	2	NP	2	NP	2	NP	2	NP	2	NP	1	NP	NP	NP	1	NP	1	NP	N	NP

S — Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

NS — Buildings not equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

N — No separation requirement.

NP — Not Permitted.

a. — See Section 420.

b. — The required separation from areas used only for private or pleasure vehicles shall be reduced by 1 hour but not to less than 1 hour.

c. — See Sections 406.3.2 and 406.6.4.

d. — Separation is not required between occupancies of the same classification.

e. — See Section 422.2 for ambulatory care facilities.

f. — Occupancy separations that serve to define fire area limits established in Chapter 9 for requiring fire protection systems shall also comply with Section 707.3.10 and Table 707.3.10 in accordance with Section 901.7.

508.4.1 Occupancy classification. Separated occupancies shall be individually classified in accordance with Section 302.1. Each separated space shall comply with this code based on the occupancy classification of that portion of the building. The most restrictive provisions of Chapter 9 that apply to the separate occupancies shall apply to the total nonfire barrier separated occupancy areas. Occupancy separations that serve to define fire area limits established in Chapter 9 for requiring a fire protection system shall also comply with Section 901.7.

508.4.2 Allowable building area. In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.

508.4.3 Allowable building height and number of stories. Each separated occupancy shall comply with the building height limitations and story limitations based on the type of construction of the building in accordance with Section 503.1.

~~**Exception:** Special provisions of Section 510 shall permit occupancies at *building heights* and number of *stories* other than provided in Section 503.1.~~

~~**508.4.4 Separation.** Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.4.~~

~~**508.4.4.1 Construction.** Required separations shall be *fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 711, or both, so as to completely separate adjacent occupancies. *Mass timber* elements serving as *fire barriers* or *horizontal assemblies* to separate occupancies in Type IV-B or IV-C construction shall be separated from the interior of the building with an *approved* thermal barrier consisting of *gypsum board* that is not less than $\frac{1}{2}$ -inch (12.7 mm) in thickness or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.~~

SECTION 510 SPECIAL PROVISIONS

Revise as follows:

510.4 Parking beneath Group R. Where a maximum one *story above grade plane* Group S-2 parking garage, enclosed or open, or combination thereof, of Type I construction or open of Type IV construction, with grade entrance, is provided under a building of Group R, the number of *stories* to be used in determining the minimum type of construction shall be measured from the floor above such a parking area. The floor assembly between the parking garage and the Group R above shall comply with the type of construction required for the parking garage and shall also provide a *fire-resistance rating* not less than 2 hours ~~the mixed-occupancy separation required in Section 508.4.~~

Exception: Where permitted by the type of construction, the floor assembly shall be permitted to be reduced to 1-hour provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

510.7.1 Fire separation. The parking occupancy shall be separated from the upper occupancy by 2-hour rated fire barriers or horizontal assemblies. *Fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 711 ~~between the parking occupancy and the upper occupancy shall correspond to the required *fire-resistance rating* prescribed in Table 508.4 for the uses involved.~~ The type of construction shall apply to each occupancy individually, except that structural members, including main bracing within the open parking structure, which is necessary to support the upper occupancy, shall be protected with the more restrictive fire-resistance-rated assemblies of the groups involved as shown in Table 601. *Means of egress* for the upper occupancy shall conform to Chapter 10 and shall be separated from the parking occupancy by *fire barriers* having not less than a 2-hour *fire-resistance rating* as required by Section 707 with *self-closing* doors complying with Section 716 or *horizontal assemblies* having not less than a 2-hour *fire-resistance rating* as required by Section 711, with *self-closing* doors complying with Section 716. *Means of egress* from the *open parking garage* shall comply with Section 406.5.

Exception: Where permitted by the type of construction, the separation between the parking occupancy and the upper occupancy shall be permitted to be reduced to 1-hour provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

SECTION 707 FIRE BARRIERS

Revise as follows:

~~**707.3.9 Separated occupancies.** Where the provisions of Section 508.4 are applicable, the *fire barrier* separating mixed occupancies shall have a *fire-resistance rating* of not less than that indicated in Table 508.4 based on the occupancies being separated.~~

SECTION 711 FLOOR AND ROOF ASSEMBLIES

Revise as follows:

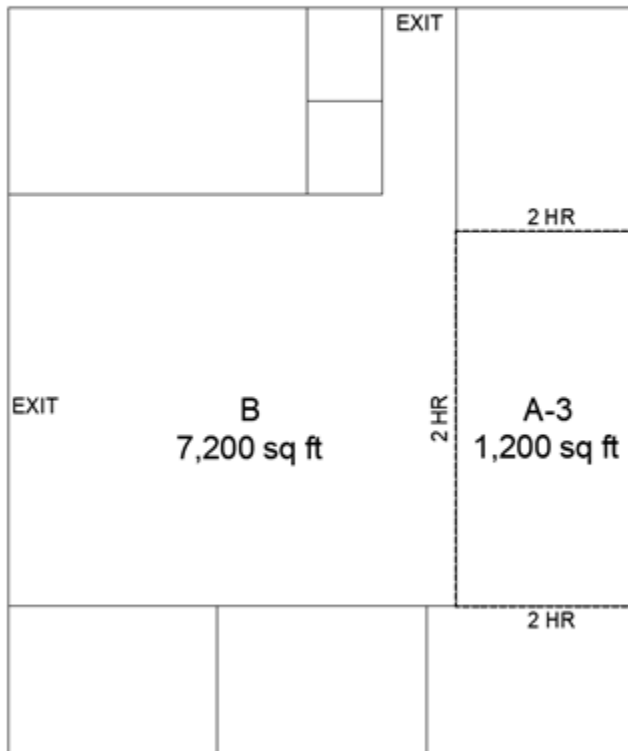
~~**711.2.4.1 Separating mixed occupancies.** Where the *horizontal assembly* separates mixed occupancies, the assembly shall have a *fire-resistance rating* of not less than that required by Section 508.4 based on the occupancies being separated.~~

SECTION C103 MIXED OCCUPANCIES

~~**C103.1 Mixed occupancies.** Mixed occupancies shall be protected in accordance with Section 508.~~

Reason: The way mixed-occupancy buildings are currently addressed for allowable area is confusing, misleading, commonly misapplied, and arbitrary. Designers are forced to analyze the building multiple ways and do multiple presentations on the cost of construction for each option and limitations in future building expansions. In unfortunate scenarios, designers, builders, and officials may even be misled to believe that the “separated” option is the only option, leading to a network of fire-rated separations, including all associated opening protectives, to be put into place where the “non-separated” option would work without even coming close to the maximum allowable area, which is a substantial penalty that is not necessary. Even more alarming is scenarios where a code user misapplies 508 to extend beyond its purpose, which is allowable height and area only, and uses it to justify not providing proper separations for “fire areas” or otherwise uses it to avoid sprinklers or fire alarms where they actually would be needed. More importantly, having two options, separated and nonseparated, is unnecessary as a single option can provide a logical allowable area without requiring separations that serve no actual life/safety function. As an example, a building that contains B/A-3 occupancies, non-sprinkled, Type VB construction, in order to be larger than the 6,000 square foot restriction where the non-separated option is used, the separated option requires a 2hr fire barrier between the B and A-3. Looking at the illustration below the question is, what does the fire barrier achieve? Are we protecting the occupants in the A-3 that are going to exit out through the B? Are we concerned about the storage of combustibles that wouldn’t actually occur in the A-3? How is the expense of the fire barrier in terms of materials, extra construction and design time to address all details therefore, and the cost to install and maintain all opening protectives justified in order to allow the allowable area to be ratio based, which logically should apply without any arbitrary separation? It makes sense to not penalize the building and code user.

**B/A-3, Type VB
No Sprinkler System
Separated to allow >6,000 sq ft**



This proposal simplifies and corrects these issues by taking height/area provisions from 508 and redistributing to 504.2 (new exception) and a new Section 506.2.2.1 which will govern limitations to all mixed occupancy buildings' height and area by allowing ratio method for allowable area, without the unnecessary separations, and providing for "accessory occupancies" as a permissible exception as appropriate. Additionally, there are many provisions that are currently in 508 that are unrelated to height and area, or are better located elsewhere in the code. This proposal relocates those provisions so that the information is in the place where the user is initially looking, and therefore prevents further misinterpretation:

- 302.1 (Occupancy classification), edited to remove no longer needed reference to 508.
- 508.2.4 exception #1 (requirement for H-2, H-3, H-4 and H-5 to always be separated from other occupancies) relocated as charging language in new section 415.6.4 and new table 415.6.4 (415 is H occupancy provisions)
- 508.3.1.1 (high-rise building provisions), provisions are moved to section 403.1 (403 is high-rise building provisions)
- 508.3.1.2 (Group I-2, Condition 2 occupancy provisions), provisions are moved to new section 407.1.1 (407 is Group I-2 provisions)
- 406.2.8 (mixed occupancies with garages), edited to specify 2 hour separation as is currently otherwise required by its pointing to 508 with exception for 1 hour if NFPA 13 system throughout.
- 406.3.2 (Non-private garage provisions), edited to remove no longer needed reference to 508.
- 406.5.3 (Mixed use building with open parking garages), edited to change the pointer from 508 to the new provision location of 504.2 and 506.2.
- 406.5.4 (Area and height of open parking garages), edited to remove no longer needed reference to 508.

- 428.3.1 (Separation from other nonlaboratory areas), edited to removed no longer needed reference to 508.
- 507.1.1 (Accessory occupancies in unlimited are buildings), edited to change the pointer from 508 to the new provision location of 504.2 and 506.2.
- 507.4.1 (Unlimited size mixed occupancy buildings with Groups A-1 and A-2), edited to specify 2 hour separation as is currently otherwise required by its pointing to 508.
- 510.4 (Special Height/Area provisions with parking beneath Group R), edited to specify 2 hour separation as is currently otherwise required by its pointing to 508 with exception for 1 hour if NFPA 13 system throughout.
- 510.7.1 (Special Height/Area provisions with open parking below provisions), edited to specify 2 hour separation as is currently otherwise required by its pointing to 508 with exception for 1 hour if NFPA 13 system throughout.
- 707.3.9 (Fire barriers separating mixed occupancies pointer), deleted entirely as it is only a reference to 508.
- 711.2.4.1 (Horizontal assemblies separating mixed occupancies pointer), deleted entirely as it is only a reference to 508.
- C103 and C103.1 (Mixed occupancies in agricultural buildings), deleted entirely as it is only a reference to 508.

Any situation where the code is not correctly applied leads to frustration, lack of proper life/safety features, and unnecessary costs; this proposal will lead to more consistent application of the codes which will prevent those issues.

There is a correlative change to move Section 508.5 back to Section 419 where it was in 2018 IBC.

Cost Impact:

The code change proposal will decrease the cost of construction

There is a reduction in cost of construction for mixed use buildings in cases where rated separations will no longer be required to use the ratio-calculation for allowable area.

Updated 4/01/2021

G182-21: See highlighted changes to the proposal

G182-21

Proponents: Mike Nugent, Chair, representing ICC Building Code Action Committee (bcac@iccsafe.org)

Revise as follows:

3006.2 Hoistway opening protection Elevator hoistway door required. Elevator hoistway doors ~~door openings~~ shall be protected in accordance with Section 3006.3 where an elevator hoistway connects more than three *stories*, is required to be enclosed within a *shaft enclosure* in accordance with Section 712.1.1 and any of the following conditions apply:

(No changes to remainder of section...)

1020.2.1 Hoistway opening protection. Elevator hoistway doors in elevators hoistway enclosures required to be fire resistance rated shall be protected in accordance with Section 716. Elevator hoistway doors ~~openings~~ shall also be protected in accordance with Section 3006.2 ~~3006.2.1~~.

2021 PROPOSED CHANGES TO THE INTERNATIONAL BUILDING CODE – STRUCTURAL

S4-21: Section 1510.4 did not show new underlined text. ASTM standard did not display. (See highlighted text)

S4-21

Proponents: Amanda Hickman, representing RIMA International (amanda@thehickmangroup.com)

THIS CODE CHANGE WILL BE HEARD BY THE IBC-FIRE SAFETY CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THAT COMMITTEE.

2021 International Building Code

Revise as follows:

SECTION 1510

RADIANT BARRIERS INSTALLED ABOVE OR BELOW ROOF DECK

[BF] 1510.1 General. Where a radiant barrier is installed above or below a roof deck it shall comply with Sections 1510.2 through ~~1510.4~~ 1510.5.

Add new text as follows:

1510.2 Material fire testing. The radiant barrier material shall have a flame spread index and a smoke-developed index determined in accordance with ASTM E84 or UL 723. Non-structural radiant barrier materials shall be mounted in accordance with ASTM Practice E2599.

Revise as follows:

[BF] ~~1510.2~~ 1510.3 Assembly fire testing. When installed, radiant barriers shall comply with the following:

1. Roof assemblies that include a radiant barrier shall comply with Section 1505.1.
2. Radiant barriers shall be permitted for use above decks where the radiant barrier is covered with an approved roof covering and the system consisting of the radiant barrier and the roof covering complies with the requirements of either FM 4450 or UL 1256.

[BF] ~~1510.3~~ 1510.4 Installation. The ~~low-emittance surface of the radiant barrier shall face the continuous airspace between the radiant barrier and the roof covering.~~ **When installed, radiant barriers shall comply with one of the following:**

1. Radiant barriers installed above roof deck are permitted for use where the roof covering requires a batten and a counter batten. When installed, radiant barriers shall be installed between the batten and a counter batten or above the counter batten with a low-emittance surface of the radiant barrier facing the airspace between the radiant barrier and roof deck.
2. Radiant barriers installed below deck shall be installed in accordance with ASTM C1744.

[BF] ~~1510.4~~ 1510.5 Material standards. A radiant *Radiant barrier materials* installed above a deck shall comply with ASTM C1313/1313M.

Add new standard(s) as follows:

ASTM

C1744-19: Standard Practice for Installation and Use of Radiant Barrier Systems (RBS) in Commercial/Industrial Building Construction

Updated 4/01/2021

S5-21: Sections did not show new underlined text. (See highlighted text)

S5-21

Proponents: Wesley Hall, representing Reflectix, Inc. (wes.hall@reflectixinc.com)

CODE CHANGE WILL BE HEARD BY THE IBC-FIRE SAFETY CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THAT COMMITTEE.

[BF] 1510.2-1510.3 Assembly fire testing. When installed, radiant barriers shall comply with the following:

1. Roof assemblies that include a radiant barrier shall comply with section 1505.1.
2. Radiant barriers shall be permitted for use above decks where the radiant barrier is covered with an approved roof covering and the system consisting of the radiant barrier and the roof covering complies with the requirements of either FM 4450 or UL 1256.

[BF] 1510.3-1510.4 Installation. The low-emittance surface of the radiant barrier shall face the continuous airspace between the radiant barrier and the roof covering. Radiant barriers installed above roof deck are permitted for use where the roof covering requires a batten and a counter batten. When installed, radiant barriers shall be installed between the batten and a counter batten or above the counter batten with a low-emittance surface of the radiant barrier facing the airspace between the radiant barrier and roof deck.

2021 PROPOSED CHANGES TO THE INTERNATIONAL FIRE CODE

F10-21: Section 318.1 did not show new underlined text. ASTM standard did not display. (See highlighted text)

F10-21

Proponents: Marcelo Hirschler, GBH International, representing self (mmh@gbhint.com)

318.1 Laundry carts with a capacity of 1 cubic yard or more. Laundry carts with an individual capacity of 1 cubic yard [200 gallons (0.76 m³)] or more, used in laundries within Group B, E, F-1, I, M and R-1 occupancies, shall be constructed of ~~noncombustible materials or materials having a peak rate of heat release not exceeding 300 kW/m at a flux of 50 kW/m where tested in a horizontal orientation in accordance with ASTM E1354~~ **materials that comply with the requirements of Section 808.5.**

Exceptions:

1. Laundry carts in areas protected by an approved automatic sprinkler system installed throughout in accordance with Section 903.3.1.1.
2. Laundry carts in coin-operated laundries.

F117-21 Part I: Replace entire code change. See below.

F117-21 Part I

Proponents: Cole Graveen, Structural Engineer, representing Self

THIS IS A TWO PART CODE CHANGE. PART 1 OF THIS PROPOSAL WILL BE HEARD BY THE FIRE CODE COMMITTEE AND PART II OF THIS PROPOSAL WILL BE HEARD BY THE PROPERTY MAINTENANCE & ZONING CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THESE COMMITTEES.

2021 International Fire Code

1104.6 Guards. Guards complying with this section shall be provided at the open sides of *means of egress* that are more than 30 inches (762 mm) above the floor or grade below.

Revise as follows:

1104.6.1 Height of guards. Guards shall form a protective barrier not less than 42 inches (1067 mm) high.

Exceptions:

1. Existing guards shall not be required to be higher than required by the adopted building code.
- 4 Existing guards on the open side of exit access and exit stairways and ramps shall be not less than 30 inch
- 2 Existing guards within dwelling units shall be not less than 36 inches (910 mm) high.
- 3 Existing guards in assembly seating areas.

Reason: This is the second of two proposals being submitted on the topic of existing guards. There are requirements for existing guards in both the IFC and the IPMC. The intent of these proposals is to A) Increase the coordination between the IFC and the IPMC on this topic, and B) Increase the coordination between the IFC and the IPMC with the IBC and the IRC.

In general, there are editorial differences between the IFC, IPMC, and the IBC which include the use of different terms and phrases as well as different organization, which can lead to confusion. There are also technical differences between the IFC and IPMC which creates a conflict when both codes are adopted by a jurisdiction.

This second proposal adds an exception to the required guard height in both the IFC and the IPMC. As a note to the ICC code committee reviewing this proposal, if both proposals are approved, the intent is for 307.1, Exception 2, to be placed as an exception to new section 307.2.1 as 307.2.1 addresses the guard height. This proposal adds a logical exception to the required existing guard height in both the IFC and the IPMC. Existing guards should not be retroactively required to be higher than the guard height permitted for new construction per the IBC or the IRC.

Content is empty

Cost Impact: The code change proposal will not increase or decrease the cost of construction. This proposal clarifies the required height for existing guards. It may decrease costs in jurisdictions that retroactively require an increase in guard heights, but most likely it does not impact the cost of construction.

Content is empty

F186-21 Part I: Table 4005.2.3.6 has some information cut off in the CAH monograph (See full table)

F186-21 Part I

Proponents: Michael O'Brian, representing FCAC (fcac@iccsafe.org); Mike Nugent, Chair, representing ICC Building Code Action Committee (bcac@iccsafe.org)

**TABLE 4005.2.3.6
RACK STORAGE OF DISTILLED SPIRITS IN WOODEN BARRELS**

<u>Barrel Arrangement</u>	<u>Sprinkler System Type</u>	<u>Maximum Ceiling Height (feet)</u>	<u>Maximum Storage Height</u>	<u>Minimum Aisle Width (feet)</u>	<u>Ceiling Sprinkler Protection</u>			<u>In-Rack Sprinkler Protection</u>			
					<u>Response / Nominal Temperature Rating / Orientation</u>	<u>K-factor (gpm/psi^{1/2})</u>	<u>Design, # of Sprinklers @ Pressure (psi)</u>	<u>Layout</u>	<u>Response / Nominal Temperature Rating</u>	<u>K-factor (gpm/psi^{1/2})</u>	<u>Design^a, # of Sprinklers @ Pressure (psi)</u>
On-Side	Wet	40	33 feet / 9 barrels	NA	QR / 165°F / Pendent	14.0	12 @ 37	None			
					SR / 286°F / Any	≥ 11.2	20 @ 7	Figures 4005.2.3.6(1) and 4005.2.3.6(2)	QR / 165°F / Any	8.0 (115)	6 @ 45 [one level of in racks] or 12 @ 45 [more than one level of in-racks]
	Dry	40	33 feet / 9 barrels	NA	SR / 286°F / Upright	16.8	24 @ 25	None			
					SR / 286°F / Upright	≥ 11.2	20 @ 7	Figures 4005.2.3.6(1) and 4005.2.3.6(2)	QR / 165°F / Upright	8.0 (115)	6 @ 45 [one level of in racks] Or 12 @ 45 [more than one level of in-racks]
On-End	Wet	30	25 feet / 5 barrels	8	SR / 286°F / Any	≥ 11.2	50 @ 7	Figures 4005.2.3.6(3), 4005.2.3.6(4),	QR / 165°F / Any	≥ 8.0 (115)	6 @ 25 [one level] or

									4005.2.3.6(5) and 4005.2.3.6(6)			12 @ 25 [more than one level of in-racks]
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For SI: 1 foot = 304.8 mm; 1 pound per square inch (psi) = 6.895 kPa; K-Factor of 1 gpm/psi^{0.5} = 14.395 L/min/bar^{0.5}; °C = [(°F)-32]/1.8; 1 gallon per minute per square foot = 40.75 L/min/m².

Notes: QR – quick response sprinkler; SR – standard response sprinkler.

- a. Sprinklers shall have a maximum coverage area of 100 square feet (9.3 m²).

Updated 4/01/2021

F227-21 Withdrawn by Proponent

Proponent: Toru Sugiura, Toyota Tsusho America, Inc., representing Toyota Tsusho America, Inc. (toru_sugiura@taiamerica.com)

2021 PROPOSED CHANGES TO THE INTERNATIONAL MECHANICAL CODE

M35-21: IFC Section number added (See highlighted text)

M35-21

MC: (New), 506.3, 506.3.1, 506.3.1.1, 506.3.2, 506.3.2.1, 506.3.2.2, 506.3.2.3, 506.3.2.4, 506.3.2.5, 506.3.3, 506.3.4, 506.3.5, 506.3.7, 506.3.7.1, 506.3.8, 506.3.8.1, 506.3.8.2, 506.3.9, 506.3.10, 506.3.11, 506.3.11.1, 506.3.11.2, 506.3.11.3, 506.3.12, 506.3.13, 506.5.1.2, 506.5.2, 506.5.4, 507.1 [IFC 606.2], 507.2.4, 506.3.1.2

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M40-21: IFC Section number added (See highlighted text)

M40-21

IMC: 507.1 [IFC 606.2], 507.1.1, 507.1.2, 507.4, 507.4.1, 507.4.2, 507.6, 507.6.1, 507.5.1, 507.5.2, 507.5.3, 507.5, 509.1, 507.3, 507.3.4 (New), 507.5.4, 507.5.5

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M41-21: IFC Section number added (See highlighted text)

M41-21

IMC: 507.1 [IFC 606.2], 507.3

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M42-21: IFC Section number added (See highlighted text)

M42-21

IMC: 507.1 [IFC 606.2]

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M43-21: IFC Section number added (See highlighted text)

M43-21

IMC: 507.1 [IFC 606.2]

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M44-21: IFC Section number added (See highlighted text)

M44-21

IMC: 507.1 [IFC 606.2], 507.2

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M45-21: IFC Section number added (See highlighted text)

M45-21

IMC: 507.1 [IFC 606.2], UL Chapter 15 (New)

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M46-21: IFC Section number added (See highlighted text)

M46-21

IMC: 507.1 [IFC 606.2], 507.3, 507.5.5

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

M66-21 Part I: Item #10 was missing underlining to the text (See highlighted text)

M66-21 Part I

Proponents: Joseph J Summers, Chair, representing Chair of PMGCAC (PMGCAC@iccsafe.org)

1006.6 Safety and relief valve discharge. Safety and relief valve discharge pipes shall be of rigid pipe that is approved for the temperature of the system. High-pressure-steam safety valves shall be vented to the outside of the structure. The discharge piping serving pressure relief valves, temperature relief valves and combinations of such valves shall:

1. Not be directly connected to the drainage system.
2. Discharge through an air break located in the same room as the appliance.
3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air break.
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.
5. Discharge to the floor, to the pan serving the boiler or storage tank, to a waste receptor or to the outdoors.
6. Discharge in a manner that does not cause personal injury or structural damage.
7. Discharge to a termination point that is readily observable by the building occupants.
8. Not be trapped.
9. Be installed so as to flow by gravity.
10. ~~Not terminate~~ Terminate not more than 6 inches (152 mm) and not less than two times the discharge pipe diameter above the floor or flood level rim of the waste receptor.
11. Not have a threaded connection at the end of such piping.
12. Not have valves or tee fittings.

13. Be constructed of those materials listed in Section 605.4 of the International Plumbing Code or materials tested, rated and approved for such use in accordance with ASME A112.4.1.
-

M75-21: New text should have displayed underlined (See highlighted text)

M75-21

Proponents: Helen Walter-Terrinoni, AHRI, representing AHRI (helen.a.walter-terrinoni@outlook.com); Julius Ballanco, representing Daikin US (JBENGINEER@aol.com); Andrew Klein, representing The Chemours Company (andrew@asklein.com); Joe Nebbia, Newport Partners, representing Natural Resources Defense Council (jnebbia@newportpartnersllc.com)

Revise as follows:

1104.3.1 Air conditioning for human comfort. ~~In other than industrial occupancies where the quantity in a single independent circuit does not exceed the amount in Table 1103.1, Group B1, B2 and B3 refrigerants shall not be used in high-probability systems for air conditioning for human comfort. High probability systems used for human comfort shall use Group A1 or A2L refrigerant.~~

Exceptions:

1. Listed equipment for residential occupancies containing a maximum of 6.6 pounds (3 kg) of refrigerant.
2. Listed equipment for commercial occupancies containing a maximum of 22 pounds (10 kg) of refrigerant.
3. Industrial occupancies.

Updated 4/01/2021

M77-21 Part II: Change to hearing order banner only. See below

M77-21 Part II

Proponents: Julius Ballanco, representing Daikin US (jbengineer@aol.com)

THIS IS A TWO PART CODE CHANGE. PART 1 WILL BE HEARD BY THE MECHANICAL CODE COMMITTEE. PART 2 WILL BE HEARD BY THE MECHANICAL CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THIS COMMITTEE.

2021 PROPOSED CHANGES TO THE INTERNATIONAL PLUMBING CODE

P24-21 Part I: Replace the proposal with the following:

P24-21 Part I

Proponents: Emma Gonzalez-Laders, NYS DOS Division of Building Standards and Codes, representing NYS DOS Division of Building Standards and Codes (emma.gonzalez-laders@dos.ny.gov); China Clarke, New York State Dept of State, representing New York State Dept of State (china.clarke@dos.ny.gov)

THIS IS A 2 PART CODE CHANGE. PART I AND PART II WILL BE HEARD BY PLUMBING CODE COMMITTEE.

2021 International Plumbing Code

Revise as follows:

403.1.1 Fixture calculations. To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with Table 403.1. Fractional numbers resulting from applying the fixture ratios of Table 403.1 shall be rounded up to the next whole number. For calculations involving multiple *occupancies*, such fractional numbers for each *occupancy* shall first be summed and then rounded up to the next whole number.

Exceptions:

1. The total occupant load shall not be required to be divided in half where *approved* statistical data indicate a distribution of the sexes of other than 50 percent of each sex.
2. Where multiple-user facilities are designed to serve all genders, the minimum fixture count shall be calculated 100 percent, based on total occupant load. In such multiple-user facilities, each fixture type shall be in accordance with ICC A117.1 ~~and each urinal that is provided shall be located in a stall.~~
3. Distribution of the sexes is not required where single-user water closets and bathing room fixtures are provided in accordance with Section 403.1.2.

403.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or fewer.
3. Separate facilities shall not be required in mercantile *occupancies* in which the maximum occupant load is 100 or fewer.
4. Separate facilities shall not be required in business *occupancies* in which the maximum occupant load is 25 or fewer.
5. Separate facilities shall not be required to be designated by sex where single-user toilet rooms are provided in accordance with Section 403.1.2.

6. Separate facilities shall not be required where rooms having both water closets and lavatory fixtures are designed for use by ~~both sexes~~ all persons regardless of sex and privacy is provided for water closets and urinals is provided in accordance with Section 405.3.4. ~~Urinals shall be located in an area visually separated from the remainder of the facility or each urinal that is provided shall be located in a stall.~~

405.3.5 Urinal partitions. Each urinal utilized by the *public* or employees shall occupy a separate area with walls or partitions to provide privacy. The horizontal dimension between walls or partitions at each urinal shall be not less than 30 inches (762 mm). The walls or partitions shall begin at a height not greater than 12 inches (305 mm) from and extend not less than 60 inches (1524 mm) above the finished floor surface. The walls or partitions shall extend from the wall surface at each side of the urinal not less than 18 inches (457 mm) or to a point not less than 6 inches (152 mm) beyond the outermost front lip of the urinal measured from the finished backwall surface, whichever is greater. Urinals located in facilities designed for the use of all persons regardless of sex shall be located in an area visually separated from the remainder of the facility or each urinal that is provided shall be located in a stall.

Exceptions:

1. Urinal partitions shall not be required in a single occupant or family/assisted-use toilet room with a lockable door.
2. Toilet rooms located in child day care facilities and containing two or more urinals shall be permitted to have one urinal without partitions.

Reason: Sections 1210 and 2902 of the 2021 IBC are complementary to each other, thus, pointers are provided in Sections 2902 and 1210.1. However, their focus and purpose are different. The purpose of Chapter 29 of the IBC, as stated in the commentary, is “to provide a building with the necessary **number** of plumbing fixtures of a specific type and quality.” The commentary explains in great detail the methodology and difficulties in establishing the appropriate number of fixtures for each type of facility. Those difficulties continue beyond the code books as code users attempt to establish the appropriate number of fixtures for specific buildings and facilities. Much clarification is still needed in this section to enable users to make the appropriate determination. On the other hand, and also according to the commentary, “the purpose of Chapter 12 is to establish minimum conditions for the **interior environment** of a building.” Conditions that include not only the physical but also the psychological needs of the occupants, including space perception and privacy. In keeping with that distinction, this proposal seeks to maintain issues pertaining to the interior environment of toilet facilities in Chapter 12 and to streamline Section 2902 to include only those requirements that address the calculation and the distribution of the number and type of plumbing fixtures required.

Also, in response to public comment received from design professionals, this proposal seeks to resolve the practical challenges and misuse that results from placing urinals in stalls and to remove unnecessarily repetitive language. Specifically, and in summary, this proposal seeks to:

1. Relocate the privacy requirements for urinals from exception 2 in 2902.1.1 to Section 1210.3.2 of the 2021 IBC.
2. Relocate the performance language to accomplish privacy for urinals from exception 6 in Section 2902.2 to Section 1210.3.2 of the 2021 IBC.
3. Modify Section 1210.3.2 by incorporating the differences in language that were made to Section 2903.1.5 of the 2021 IBC in the last code cycle.
4. Since Section 2903.1.4 pertaining to privacy for water closets is a duplicate of Section 1210.3.1 and Section 2901.1 already includes a pointer to Section 1210, to remove the duplicate section in Chapter 29 of the 2021 IBC.
5. Since Section 2903.1.5 pertaining to privacy for urinals is a duplicate of Section 1210.3.2 and Section 2901.1 already includes a pointer to Section 1210, to remove the duplicate section in Chapter 29 of the 2021 IBC.

Sections 2903.1.4 and 2903.1.5 were modified by public comment during the last code cycle as Code Change No: G133-18. According to the proponent's justification, the proposal intended to bring “*language*

from the IPC into the IBC where designers that utilize the IBC can find this information more readily. [since] Most architectural firms do not have an IPC in their office.” However, those provisions already existed in the IBC and adding them to Chapter 29 was unnecessary.

This proposal neither introduces new nor eliminates existing language or code requirements. It seeks instead to consolidate all privacy provisions into one place (Chapter 12) and to ensure that the provisions included in Chapter 29 are consistent with the stated Scope of the Chapter.

Bibliography:

Code Change Proposal G133-18 as Modified by Public Comment. Eirene Knott, representing Metropolitan Kansas City Chapter of the ICC; David Collins.

Cost Impact:

The code change proposal will not increase or decrease the cost of construction

This proposal neither adds nor subtracts code requirements and simply re-organizes existing provisions and deletes duplicate provisions within the IBC.

Content is empty

2021 PROPOSED CHANGES TO THE INTERNATIONAL PROPERTY MAINTENANCE CODE

PM17-21: See added correction to the standards (See highlighted text)

PM17-21

Proponents: Emily Toto, ASHRAE, representing ASHRAE (etoto@ashrae.org); David Bixby, representing ACCA (bixster1953@yahoo.com)

Add new standard(s) as follows:

ASME

~~ANSI/ACCA QM 4-2019: Quality Maintenance of Residential HVAC Systems~~

~~ANSI/ASHRAE/ACCA 180-2018: Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems~~

ACCA

Air Conditioning Contractors of America
2800 Shirlington Road, Suite 300
Arlington
VA
22206
USA

ANSI/ACCA .4 QM-2013 Maintenance of Residential HVAC Systems

ASHRAE

ASHRAE
1791 Tullie Circle NE
Atlanta
GA
30329
USA

ASHRAE .

180-2018: Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems

2021 PROPOSED CHANGES TO THE INTERNATIONAL SWIMMING POOL AND SPA CODE

SP16-21: See added text to the Cost Impact statement only (See highlighted text)

SP16-21

Proponent: Tommy Moberg, Town of Acton, representing Town of Acton

Cost Impact: The code change proposal will not increase or decrease the cost of construction. It would be a stretch to say this would make any statistical change to the average cost of construction considering the negligible differences in the gap requirements proposed.

2021 PROPOSED CHANGES TO THE INTERNATIONAL WILDLAND-URBAN INTERFACE CODE

WUIC8-21: Portions of text did not display in the monograph. Please see entire code change below.

WUIC8-21

Proponents: John Woestman, Kellen Company, representing Composite Lumber Manufacturers Association (CLMA) (jwoestman@kellencompany.com)

2021 International Wildland-Urban Interface Code

Revise as follows:

503.2 Ignition-resistant building material. Ignition-resistant building materials shall comply with any one of the following:

1. Material shall be tested on all sides with the extended ASTM E84 (UL 723) test or ASTM E2768, except panel products shall be permitted to test only the front and back faces. Panel products shall be tested with a ripped or cut longitudinal gap of 1/8 inch (3.2 mm). Materials that, when tested in accordance with the test procedures set forth in ASTM E84 or UL 723 for a test period of 30 minutes, or with ASTM E2768, comply with the following:
 - 1.1. Flame spread. Material shall exhibit a flame spread index not exceeding 25 and shall not show evidence of progressive combustion following the extended 30-minute test.
 - 1.2. Flame front. Material shall exhibit a flame front that does not progress more than 10 1/2 feet (3200 mm) beyond the centerline of the burner at any time during the extended 30-minute test.
 - 1.3. Weathering. Ignition-resistant building materials shall maintain their performance in accordance with this section under conditions of use. Materials shall meet the performance requirements for weathering (including exposure to temperature, moisture and ultraviolet radiation) contained in the following standards, as applicable to the materials and the conditions of use:
 - 1.3.1. Method A "Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing" in ASTM D2898, for fire-retardant-treated wood, ~~wood-plastic-composite and plastic lumber materials.~~
 - 1.3.2. ASTM D7032 for wood-plastic composite materials.
 - 1.3.3. ASTM D6662 for plastic lumber materials.
 - 1.4 Identification. Materials shall bear identification showing the fire test results.

Exception: Materials composed of a combustible core and a noncombustible exterior covering made from either aluminum at a minimum 0.019 inch (0.48 mm) thickness or corrosion-resistant steel at a minimum 0.0149 inch (0.38 mm) thickness shall not be required to be tested with a ripped or cut longitudinal gap.

2. Noncombustible material. Material that complies with the requirements for noncombustible materials in Section 202.
3. Fire-retardant-treated wood. Fire-retardant-treated wood identified for exterior use and meeting the requirements of Section 2303.2 of the International Building Code.
4. Fire-retardant-treated wood roof coverings. Roof assemblies containing fire-retardant-treated wood shingles and shakes that comply with the requirements of Section 1505.6 of the International Building Code and classified as Class A roof assemblies as required in Section 1505.2 of the International Building Code.

Reason: ASTM D2898 is not used to evaluate weathering of wood plastic composite materials nor plastic lumber. Item 1.3.2 includes the requirements for evaluating weathering of wood plastic composite materials. Item 1.3.3 includes the requirements for evaluating weathering of plastic lumber.

Wood plastic composite materials and plastic lumber are materials vulnerable to degradation by UV light, water exposure and drying, and thermal cycling. The weathering required by ASTM D7032 (for WPCs) and by ASTM D6662 (for plastic lumber) subjects WPCs and plastic lumber to these stressors for 2000 hours. ASTM D2898 Method A subjects fire-retardant-treated wood to 2016 hours water exposure and drying, and thermal cycling – but no UV exposure.

The current requirement to weather WPCs and plastic lumber to D2898 provides essentially no beneficial information not provided by weathering to ASTM D7032 (for WPCs) and by ASTM D6662 (for plastic lumber).

Cost Impact: The code change proposal will not increase or decrease the cost of construction. No changes to the cost of construction. Weathering wood plastic composites and plastic lumber to D2898 has not been a common practice.

WUIC16-21: Correction to representation. (See highlighted text)

WUIC16-21

Proponents: Thomas Daly, HSCG, representing, **Hospitality Security Consulting Group, LLC.**
(thomas.daly@myhscg.com)
