

Author/requestor: Kyle Thrapp

Email address: kyle@mcmonigal.com

# **CODE CHANGE PROPOSAL FORM**

(Must be submitted electronically)

Date: 1/18/25

Model Code: 2024 IRC

Teleni	none number: 612-331-1244 (	Code or Rule Section.	R315	522
·				
	ssociation affiliation, if any: McMonigal Architects			
Code	or rule section to be changed: R315.5.2.2 Treads and Risers	(Sleeping Loft Egress	;)	
Intend	ed for Technical Advisory Group ("TAG"): 1309 Residential C	Code TAG		
Gener	al Information		Yes	<u>No</u>
B. C. D. E.	Is the proposed change unique to the State of Minnesota? Is the proposed change required due to climatic conditions of Will the proposed change encourage more uniform enforced Will the proposed change remedy a problem?  Does the proposal delete a current Minnesota Rule, chapter Would this proposed change be appropriate through the ICC development process?	nent? amendment?		
	sed Language The proposed code change is meant to:  Change language contained the model code book? If so,	list section(s).		
	change language contained in an existing amendment in	Minnesota Rule? If s	o, list F	Rule part(s).
	☑ delete language contained in the model code book? If so R315.5.2.2 Treads and Risers (Sleeping Lofts)	, list section(s).		
	$\hfill \Box$ delete language contained in an existing amendment in N part(s).	∕linnesota Rule? If so	, list Rı	ule
	add new language that is not found in the model code bo	ok or in Minnesota R	ule.	
2.	Is this proposed code change required by Minnesota Statute	? If so, please provid	e the c	citation.

3. Provide *specific* language you would like to see changed. Indicate proposed new words with <u>underlining</u> and <u>strikethrough</u> words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.

Strike entire section: R315.5.2.2 Treads and Risers

 Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.

No

#### **Need and Reason**

- 1. Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)

  See page 4.
- 2. Why is the proposed code change a reasonable solution?
  - -Removes possible dangerous egress condition from sleeping lofts.
  - -Even with this proposed change, code will still allow for:
  - 1) Code compliant stair, 2) Ships ladder, 3) Alternating tread device, 4) Ladder
- 3. What other factors should the TAG consider? N/A

## Cost/Benefit Analysis

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.

N/A

- 2. If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible.

  N/A
- 3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.

N/A

4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.

N/A

5. Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city (Minn. Stat. § 14.127)? A small business is any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.

N/A

## **Regulatory Analysis**

1.	What parties or segments of industry are affected by this proposed code change?  Public has safer egress from sleeping lofts.
	Can you think of other means or methods to achieve the purpose of the proposed code change? What might someone opposed to this code change suggest instead? Please explain what the alternatives are and why your proposed change is the preferred method or means to achieve the desired result.  N/A
	What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?  N/A
	Are you aware of any federal or state regulation or requirement related to this proposed code change? If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement.  N/A
	Note: Incomplete forms will be returned to the submitter with instruction to complete the form. Only appleted forms will be accepted and considered by the TAG.

#### R315.5.2.2 Treads and Risers (Sleeping Lofts)

#### Math explained:

Riser height is between 7" and 12" high. Tread depths using the provided formula are as follows:

### 7"H risers, 10 11/16"D treads

7"x 4/3 = 9 5/16" 20" - 9 5/16" = 10 11/16"D treads 33 degree incline

#### 8"H risers, 9 5/16"D treads

8"x 4/3 = 10 11/16" 20" - 10 11/16"= 9 5/16"D treads 41 degree incline

#### 9"H risers, 8"D treads

9"x 4/3 = 12" 20" – 12"= 8"D treads 48 degree incline

#### 10"H risers, 6 11/16"D treads

10"x 4/3 = 13 5/16", 20" – 13 5/16"= 6 11/16"D treads 56 degree incline

#### 11"H riser, 5 5/16"D treads

11"x 4/3 = 14 11/16", 20" - 14 11/16" = 5 5/16"D treads 64 degree incline

#### 12"H riser, 4"D treads

12"x 4/3 = 16", 20" - 16" = 4"D treads 72 degree incline

- "Shall be" means tread depths must be exactly those dimensions. Standard industry products do not typically come in those dimensions. Tolerances and rounding up or down are not addressed.
- These are steep and dangerous conditions for stairs. Handrails are only required to be on one side; compared to a ships ladder (similar incline and width) requires handrails on both sides.
- For perspective, Chichen Itza (Mayan temple) has incredibly steep-feeling stairs, and those are only 45 degree incline.
- With all the acceptable design options for egress from sleeping lofts:
   1) Code compliant stair, 2) Ships ladder, 3) Alternating tread device, 4) Ladder, this section should be eliminated.



# **CODE CHANGE PROPOSAL FORM**

(Must be submitted electronically)

Autho	r/requestor: C. Scott Anderson	Date: 9/19/24		
Email	address: c.scott.anderson@minneapolismn.gov	Model Code: 202	4 IRC	
Telepi	hone number: 612-246-7303	Code or Rule Sect	ion: R318	3.5.1
Firm/Association affiliation, if any: City of Minneapolis  Topic of proposal: f protection and Mean				
Code	or rule section to be changed: R318.5.1			
Intend	ded for Technical Advisory Group ("TAG"):			
Gene	ral Information		Yes	<u>No</u>
B. C. D. E.	Is the proposed change unique to the State of Minnesota? Is the proposed change required due to climatic condition. Will the proposed change encourage more uniform enforce Will the proposed change remedy a problem?  Does the proposal delete a current Minnesota Rule, chapt Would this proposed change be appropriate through the ledevelopment process?	s of Minnesota? cement? ter amendment?		
	osed Language The proposed code change is meant to:			
	⊠ change language contained the model code book? If s	o, list section(s). R3	18.5.1	
	change language contained in an existing amendment	in Minnesota Rule?	If so, list	Rule part(s).
	delete language contained in the model code book? If	so, list section(s).		
	delete language contained in an existing amendment in part(s).	n Minnesota Rule? If	so, list R	tule
	□ add new language that is not found in the model code     □ R318.5.1	book or in Minnesota	a Rule.	

- 2. Is this proposed code change required by Minnesota Statute? If so, please provide the citation.
- 3. Provide *specific* language you would like to see changed. Indicate proposed new words with <u>underlining</u> and <u>strikethrough</u> words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.

#### Add new section

#### R318.5.1 Landing, deck, balcony and stair construction at required egress door.

Exterior landings, decks, balconies, *stairs* and similar facilities shall be supported on footings protected from frost by one or more of the following methods:

- 1. Extending below the frost line in accordance with 1303.1600.
- 2. Erecting on solid rock.
- 3. Other approved methods of frost protection
- Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.
   No

#### **Need and Reason**

1. Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)

This additional text clarifies the need for frost protection of the landing at the required egress door. Other doors

- 2. Why is the proposed code change a reasonable solution? It addresses a life safety issue unique to cold weather climates.
- 3. What other factors should the TAG consider? None

#### **Cost/Benefit Analysis**

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.

This is an editorial change and should not impact the cost of construction.

- If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible.
   No cost change
- 3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.

NA

4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.

No

5. Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city (Minn. Stat. § 14.127)? A small business is any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.
No

### Regulatory Analysis

No

- 1. What parties or segments of industry are affected by this proposed code change?

  Architects, Contractors, Developers, Building Owners, Contractors, Building Officials
- Can you think of other means or methods to achieve the purpose of the proposed code change?
  What might someone opposed to this code change suggest instead? Please explain what the
  alternatives are and why your proposed change is the preferred method or means to achieve the
  desired result.

3. What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?

Potential conflicts in code requirements and possible miss application of frost protection requirements.

4. Are you aware of any federal or state regulation or requirement related to this proposed code change? If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement.
no

<sup>\*\*\*</sup>Note: Incomplete forms may be returned to the submitter with instruction to complete the form. Only completed forms can considered by the TAG.

Date: 11/14/2024



Author/requestor: Nathan Weber

# **CODE CHANGE PROPOSAL FORM**

(Must be submitted electronically)

Email	address: nweber@cityofdetroitlakes.com	Model Code: 2024 IF	RC	
Teleph	none number: 218-846-7136	Code or Rule Section: R319.5		
Firm/A	ssociation affiliation, if any:	Topic of proposal: Emergency Escape Replacement Window		
Code	or rule section to be changed: R319.5			
Intend	ed for Technical Advisory Group ("TAG"):			
Gener	al Information		<u>Yes</u>	<u>No</u>
B. C. D. E.	Is the proposed change unique to the State of Minnesota? Is the proposed change required due to climatic conditions Will the proposed change encourage more uniform enforce Will the proposed change remedy a problem?  Does the proposal delete a current Minnesota Rule, chapte Would this proposed change be appropriate through the IC development process?	of Minnesota? ement? er amendment?		
	sed Language The proposed code change is meant to:			
	x change language contained the model code book? If so, R319.5	. ,	l'at Da	d (/-)
	change language contained in an existing amendment in	Minnesota Rule? If so	), IIST RU	ile part(s).
	X delete language contained in the model code book? If se R319.5	o, list section(s).		
	delete language contained in an existing amendment in part(s).	n Minnesota Rule? If se	o, list R	ule
	add new language that is not found in the model code l	oook or in Minnesota F	Rule.	
2.	Is this proposed code change required by Minnesota Statu	ite? If so, please provi	de the d	citation.

- 3. Provide *specific* language you would like to see changed. Indicate proposed new words with <u>underlining</u> and <u>strikethrough</u> words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.
  - **R319.5** Replacement window for emergency escape and rescue openings. Replacement for emergency escape and rescue openings installed in buildings meeting the scope of this code shall be exempt from Sections 319.2 and 319.4.4, provided that the replacement window meets the following conditions:
  - 1. The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window shall be permitted to be of the same operating style as the existing window <u>as long as it does not reduce the clear</u> <u>opening width or height by more than 2"</u> or a style that provides for and equal or great window opening than the existing window.
  - 2. The replacement window is not part of a change of occupancy.
- Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.
   NO

#### **Need and Reason**

- Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)
   Will prevent contractors/suppliers from significantly reducing emergency escape and rescue openings.
- 2. Why is the proposed code change a reasonable solution? Yes
- 3. What other factors should the TAG consider?

#### **Cost/Benefit Analysis**

- 1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.
  - Potential cost increase
- 2. If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible. Maintains the same level of Life, Health and Safety the home currently has.
- 3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
  - Contractor will pass any potential costs to homeowner
- Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
   NO
- 5. Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city (Minn. Stat. § 14.127)? A small business is

any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.

I do not believe it will

## Regulatory Analysis

- 1. What parties or segments of industry are affected by this proposed code change? Building inspectors, Window replacement contractors
- Can you think of other means or methods to achieve the purpose of the proposed code change?
  What might someone opposed to this code change suggest instead? Please explain what the
  alternatives are and why your proposed change is the preferred method or means to achieve the
  desired result.

NO

An individual opposed would like to see it left as is.

- 3. What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?
  Potential loss of life because someone is unable to evacuate a building in an emergency
- 4. Are you aware of any federal or state regulation or requirement related to this proposed code change? If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement. NO

<sup>\*\*\*</sup>Note: The information you provide in this code change proposal form is considered Public Data and used by the TAG to consider your proposed modification to the code. Any code change proposal form submitted to DLI may be reviewed at public TAG meetings and used by department staff and the Office of Administrative Hearings to justify the need and reasonableness of any proposed rule draft subject to administrative review and is available to the public.

<sup>\*\*\*\*</sup>Note: Incomplete forms will be returned to the submitter with instruction to complete the form. Only completed forms will be accepted and considered by the TAG. The submitter may be asked to provide additional information in support of the proposed code change.



Author/requestor: Nick Erickson

Email address: nick@housingfirstmn.org

## **CODE CHANGE PROPOSAL FORM**

(Must be submitted electronically)

Date: 1/28/2025

Model Code: IECC

	-			
Telepi	none number:612-210-8332	Code or Rule Section	า: 1309	
Firm/Association affiliation, if any: Housing First MN  Topic of proposal: C		ommiss	ioning	
Code	or rule section to be changed: (1309) R325.8			
Intend	led for Technical Advisory Group ("TAG"): IECC			
Gene	al Information		Yes	<u>No</u>
B. C. D. E.	Is the proposed change unique to the State of Minnesota? Is the proposed change required due to climatic conditions Will the proposed change encourage more uniform enforce Will the proposed change remedy a problem?  Does the proposal delete a current Minnesota Rule, chapte Would this proposed change be appropriate through the IC development process?	of Minnesota? ement? er amendment?		
	sed Language The proposed code change is meant to:			
	☐ change language contained the model code book? If so	o, list section(s).		
	change language contained in an existing amendment	in Minnesota Rule? If	so, list	Rule part(s).
	delete language contained in the model code book? If s	so, list section(s).		
	delete language contained in an existing amendment in part(s).	n Minnesota Rule? If se	o, list R	ule
	$oxed{\boxtimes}$ add new language that is not found in the model code by	oook or in Minnesota F	₹ule.	
2.	Is this proposed code change required by Minnesota Statu	ite? If so, please provi	de the	citation.

3. Provide *specific* language you would like to see changed. Indicate proposed new words with <u>underlining</u> and <u>strikethrough</u> words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.

Installed heating, cooling and ventilation systems shall be performance-tested, in accordance with R.325.8. Documentation of results must be submitted to the building official prior to the issuance of the certificate of occupancy.

NOTE THIS REQUIRES THE ADOPTION OF THE CORRELATION CODE CHANGE SUBMITTED

4. Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.

Possible connection to the administrative portions. But that will need to be determined by technical

staff.

#### Need and Reason

1. Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)

Minnesota's home designs are becoming more complex, and homebuilders and their energy raters have reported that with the adoption of the 2024 IECC and beyond, performance path utilization will increase dramatically in MN. As Minnesota moves beyond the IECC standard through 2038, the performance path will be critical in achieving and consideration of affordability in the energy code.

With performance path adoption increasing, there will be less predictability in the home design and code officials will need to know that these homes are built in accordance with their design. Much of this work is already being done in conjunction with the energy rater during their work in the home.

This proposal not only

- 2. Why is the proposed code change a reasonable solution?

  This ensures that the system is installed and functioning as designed; the rater is most qualified to address this issue.
- 3. What other factors should the TAG consider?

  The amount of training and reinspections due to the proliferation of the performance path will place stress on the building officials and general contractors. This is the approach taken in several other markets and does function well. This language itself was inspired by Fort Collins.

#### **Cost/Benefit Analysis**

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.

This would eliminate the need for one inspection trip, so this cost savings estimate would be dependent on cities adjusting their fees accordingly. As the rater is already onsite performing this work, it should not increase costs on this e

- 2. If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible.

  n/a
- 3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.

  n/a

4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.

Cost decrease, see above point 1.

5. Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city (Minn. Stat. § 14.127)? A small business is any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.

### **Regulatory Analysis**

- 1. What parties or segments of industry are affected by this proposed code change? *Homebuilders, Raters, Code Officials.*
- 2. Can you think of other means or methods to achieve the purpose of the proposed code change? What might someone opposed to this code change suggest instead? Please explain what the alternatives are and why your proposed change is the preferred method or means to achieve the desired result.

No

- 3. What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?
  Confusion as the performance path proliferates. Delays in permitting and inspections due to the varying approaches taken. Confusion around possible re-inspections and change orders caused by misinterpretation of the performance path design.
- 4. Are you aware of any federal or state regulation or requirement related to this proposed code change? If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement.
  No

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## **CODE CHANGE PROPOSAL FORM**

(Must be submitted electronically)

Autho	r/requestor:	Date:		
Email	address:	Model Code:		
Telepi	hone number:	Code or Rule Sec	tion:	
Firm/A	Association affiliation, if any:	Topic of proposal:		
Code	or rule section to be changed:			
Intena	led for Technical Advisory Group ("TAG"):			
Genei	ral Information		<u>Yes</u>	<u>No</u>
B. C. D. E.	Is the proposed change unique to the State of Is the proposed change required due to climati Will the proposed change encourage more uni Will the proposed change remedy a problem? Does the proposal delete a current Minnesota Would this proposed change be appropriate the development process?	ic conditions of Minnesota? form enforcement? Rule, chapter amendment?		
	osed Language The proposed code change is meant to:			
	change language contained the model code	e book? If so, list section(s).		
	change language contained in an existing a	nmendment in Minnesota Rule?	If so, list	Rule part(s).
	delete language contained in the model coo	de book? If so, list section(s).		
	delete language contained in an existing an	nendment in Minnesota Rule? I	f so, list R	ule part(s).
	add new language that is not found in the n	nodel code book or in Minnesot	a Rule.	
2.	Is this proposed code change required by Minr	nesota Statute? If so, please pro	ovide the	citation.

3.	Provide <i>specific</i> language you would like to see changed. Indicate proposed new words with <u>underlining</u> and strikethrough words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.
4.	Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.

## **Need and Reason**

1.	Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)
2.	Why is the proposed code change a reasonable solution?
3.	What other factors should the TAG consider?
	Benefit Analysis  Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.
2.	If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible.
3.	If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
4.	Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
5.	Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city (Minn. Stat. § 14.127)? A small business is any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.

### **Regulatory Analysis**

1. What parties or segments of industry are affected by this proposed code change? 2. Can you think of other means or methods to achieve the purpose of the proposed code change? What might someone opposed to this code change suggest instead? Please explain what the alternatives are and why your proposed change is the preferred method or means to achieve the desired result. 3. What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals? 4. Are you aware of any federal or state regulation or requirement related to this proposed code change?If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement. \*\*\*Note: The information you provide in this code change proposal form is considered Public Data and used by the TAG to consider your proposed modification to the code. Any code change proposal form submitted to DLI may be reviewed at public TAG meetings and used by department staff and the Office of Administrative Hearings to justify the need and reasonableness of any proposed rule draft subject to administrative review and is available to the public.

additional information in support of the proposed code change.

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