MN DOLI CODE REVISION.

DEPARTMENT OF LABOR AND INDUSTRY

CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

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Date: 3/20/2018

Model Code: IBC 2018

Code or Rule Section:

IBC 2603.5.5 Vertical and lateral flame propagation

Code or rule section to be changed: MR 1305

Intended for Technical Advisory Group ("TAG"): IBC and IBC/IFC Coordination

General Information

	Yes	No
A. Is the proposed change unique to the State of Minnesota?	☐	☒
B. Is the proposed change required due to climatic conditions of Minnesota?	☐	☒
C. Will the proposed change encourage more uniform enforcement?	☒	☐
D. Will the proposed change remedy a problem?	☒	☐
E. Does the proposal delete a current Minnesota Rule, chapter amendment?	☐	☒
F. Would this proposed change be appropriate through the ICC code development process?	☐	☒

Proposed Language

1. 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 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 Minnesota Rule? If so, list Rule part(s).

   ☐ add new language that is not found in the model code book or in Minnesota Rule.

2. Is this proposed code change required by Minnesota Statute? If so, please provide the citation.
   No

3. Provide *specific* language you would like to see changed. Indicate proposed new words with underlining and words proposed to be deleted. Include the entire code (sub) section or rule subpart that contains your proposed changes.

2603.5.5 Vertical and lateral fire propagation. The exterior wall assembly shall be tested in accordance with and comply with the acceptance criteria of NFPA 285.

Exceptions

1. One-story buildings ~~complying with Section 2603.4.1.1~~.
2. Wall assemblies where the foam plastic insulation is covered on each face by not less than 1-inch thickness of masonry or concrete and meeting one of the following:
   a. There is no air space between the insulation and the concrete or masonry.
   b. The insulation has a flame spread index of not more than 24 as determined in accordance with ASTM E84 or UL 723 and the maximum airspace between the insulation and the concrete or masonry is not more than 1 inch.
3. Exterior wall assemblies where all of the following criteria are met:
   a. The building does not exceed 4 stories in height.
   b. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
   c. Wall assemblies do not exceed 40 feet above finished grade.
   d. Wall assemblies are located where a fire apparatus access road is provided in accordance with Minnesota Fire Code Section 503 and fire department has direct access from the ground to the installation locations with not less than 30 feet fire separation distance to adjacent structures or properties.
   e. Foam thickness shall not exceed 4 inches.
   f. Air space shall not exceed 1 inch unless foam is provided with a foil face on the air space side.

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.
   No

Need and Reason

1. Why is the proposed code change needed?
   The energy code is driving exterior insulation installations and foam plastics offer one of the most economical insulation alternatives. Current limitations and exceptions are insufficient to address many designer/developer needs

2. Why is the proposed code change a reasonable solution?
   The proposed addresses the specific installation locations, fire department access to the installation locations, clearances for fire-fighting, and height limits specific to typical 35-foot fire department ladders.

3. What other considerations should the TAG consider?
   None

Cost/Benefit Analysis

1. Will the proposed code change increase or decrease costs? Please explain.
   Change will decrease costs. Foam plastics are some of the most economically viable insulations. Allowing expansion of their use under specific safety guidelines will save both initial installation costs and operating costs in the future.

2. If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain.

3. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
   No

4. 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? 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

1. What parties or segments of industry are affected by this proposed code change?
   Architects, Engineers, Construction Contractors, Building Officials and Inspectors.

2. What are the probable costs to the agency and to any other State agencies of implementing and enforcing of the proposed rule? Is there an anticipated effect on state revenues?
   None

3. Are there less costly intrusive methods for achieving the purpose of the proposed rule?
   No

4. Can you think of other means or methods to achieve the purpose of the proposed code change? If so, please explain what they are and why your proposed change is the preferred method or means to achieve the desired result.
   The proposed change is the lowest impact option with the potential to produce desired results.

5. What are the probable costs of complying with the proposed rule, including the portion of the total costs that will be borne by identifiable categories of affected parties, such as separate classes of governmental units, businesses, or individuals?
   None.

6. What are the probable costs or consequences of not adopting the proposed rule, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?
   Continued high cost of multi-story construction due to exterior insulation requirements.

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

8. Please include an assessment of the cumulative effect of the rule with other federal and state regulations related to the specific purpose of the rule.