HOUSE No. 3844

The Commonwealth of Massachusetts

PRESENTED BY:

Daniel M. Donahue

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled:

The undersigned legislators and/or citizens respectfully petition for the adoption of the accompanying bill:

An Act relative to safe building materials.

PETITION OF:

NAME:	DISTRICT/ADDRESS:	DATE ADDED:
Daniel M. Donahue	16th Worcester	1/16/2019
James Arciero	2nd Middlesex	1/28/2019
F. Jay Barrows	1st Bristol	1/24/2019
Tackey Chan	2nd Norfolk	1/28/2019
Edward F. Coppinger	10th Suffolk	1/30/2019
Michael S. Day	31st Middlesex	1/31/2019
David F. DeCoste	5th Plymouth	1/24/2019
Michael J. Finn	6th Hampden	1/24/2019
Stephan Hay	3rd Worcester	2/1/2019
Daniel J. Hunt	13th Suffolk	1/25/2019
Louis L. Kafka	8th Norfolk	1/29/2019
Joseph W. McGonagle, Jr.	28th Middlesex	2/1/2019
David K. Muradian, Jr.	9th Worcester	2/1/2019
David M. Nangle	17th Middlesex	1/30/2019
James J. O'Day	14th Worcester	1/29/2019
Angelo J. Puppolo, Jr.	12th Hampden	1/24/2019

HOUSE No. 3844

By Mr. Donahue of Worcester, a petition (accompanied by bill, House, No. 3844) of Daniel M. Donahue and others relative to safe building materials. Public Safety and Homeland Security.

The Commonwealth of Alassachusetts

In the One Hundred and Ninety-First General Court (2019-2020)

An Act relative to safe building materials.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

- SECTION 1. Section 96 of chapter 143 of the General Laws, as appearing in the 2016
- 2 Official Edition, is hereby amended by inserting after the word code, in line 8, the following
- 3 words: –, light frame construction code under section 26J of chapter 148.
- 4 SECTION 2. Chapter 148 of the General Laws, as so appearing, is hereby amended by
- 5 inserting after section 26I the following section: –
- 6 Section 26J. Light Frame Construction Code.
- 7 (a) As used in this section the following terms shall, unless the context clearly requires
- 8 otherwise, have the following meanings: –
- 9 "Dwelling unit", a single unit providing complete, independent living facilities for one
- or more persons living as a single housekeeping unit, including permanent provisions for living,
- sleeping, eating, cooking, and sanitation.

"Fire barrier", a fire-resistance rated wall assembly of materials designed to restrict
the spread of fire in which continuity is maintained.

"Fire partition", a vertical assembly of materials designed to restrict the spread of fire in which openings are protected.

"Fire wall", a fire-resistance rated wall having protected openings, which restricts the spread of fire and extends continuously from the foundation to or through the roof, with sufficient structural stability under fire conditions to allow collapse of construction on either side without collapse of the wall.

"Fire watch warden", an individual hired to monitor new residential use structure construction projects that utilize light frame construction.

"Horizontal assembly", a fire-resistance rated floor or roof assembly of materials designed to restrict the spread of fire in which continuity is maintained.

"Horizontal separation", a floor assembly separating dwelling units in the same structure, a floor assembly separating sleeping units in the same structure, and a floor assembly separating dwelling or sleeping units from other occupancies contiguous to them in the same structure.

"Light frame construction", a type or construction the vertical and horizontal structural elements of which are primarily formed by a system of repetitive wood framing members or that utilizes metal-plate-connected wood trusses, metal-plate-connected metal-web wood trusses, pin-end connected steel-web wood trusses, wooden I-joists, solid-sawn wood

joists, composite wood joists as floor or roof system structural elements, or load bearing elements made of combustible materials.

"Planned real estate development" or "development", any real property, whether contiguous or not, which consists of or will consist of, separately owned areas, irrespective of form, be it lots, parcels, units, or interest, and which are offered or disposed of pursuant to a common promotional plan, and providing for common or shared elements or interests in real property. This definition shall not apply to any form of timesharing but it shall include; condominiums, any form of homeowners' association, any housing cooperative or any community trust or other trust device.

"Residential use structure", a hotel, motel, resort, boarding house or inn as those terms are defined in section 12A of chapter 140; a multiple dwelling, as that term is defined in section 13A of chapter 22; or rooming house, as that term is defined in section 199B of chapter 111.

"Sleeping unit", a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both, but does not include such a room or space that is also part of a dwelling unit.

- (b) A new residential use structure containing more than two dwelling or sleeping units under the R Occupancy in the International Building Code (IBC) may only be constructed utilizing light frame construction if the following requirements are satisfied:
- (1) Notwithstanding any other provision in this chapter, an automatic sprinkler system shall be installed throughout the structure in accordance with the requirements of National Fire Protection Association (NFPA) 13, Standard for the Installation of Sprinkler Systems.

53	(2) The number of stories permitted in the structure shall be measured from grade plane
54	and includes any pedestal or podium.
55	(3) Each fire partition shall:
56	(i) be constructed of noncombustible materials or fire retardant treated wood as per the
57	current edition of NFPA 703;
58	(ii) be constructed with a fire-resistance rating of at least one hour; and
59	(iii) comply with all other requirements for fire partitions under the IBC.
60	(4) Each horizontal assembly installed between floors separating dwelling or sleeping
61	units shall:
62	(i) be constructed of noncombustible materials or fire retardant treated wood as per the
63	current edition of NFPA 703;
64	(ii) be constructed as a horizontal assembly with a fire-resistance rating of at least one
65	hour; and
66	(iii) comply with all other requirements for horizontal assemblies under the code.
67	(5) Each fire wall shall:
68	(i) be constructed of noncombustible materials or fire retardant treated wood as per the
69	current edition of NFPA 703;
70	(ii) not be adversely affected by moisture;
71	(iii) be capable of passing the hose stream test in accordance with the code; and

72 (iv) shall be a minimum of a 2-hour rated assembly (per the IBC).

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- 73 (6) (i) If any light framing of the structure is unprotected, the structure shall not have 74 more than three stories and shall not exceed 60 feet above grade plane.
 - (ii) If all light framing of the structure is protected, the structure shall not have more than four stories and shall not exceed 70 feet above grade plane.
 - (7) If the structure has five or more dwelling or sleeping units, a horizontal assembly shall not be considered to create separate and distinct structures for the purposes of determining area limitations, continuity of fire walls, limitation of number of stories, and type of construction as provided under this subsection and the code.
 - (c) The contractor, or subcontractor for a construction project proposed in accordance with this section shall be registered with the board of building regulations.
 - (d) The construction of a new residential use structure containing more than two dwelling or sleeping units utilizing light frame construction shall not commence unless a fire watch warden who meets the requirements of paragraph (1) of this subsection is present 24 hours a day to monitor the construction and alert firefighters, medical, rescue, or law enforcement personnel if a fire or other emergency occurs.
 - (1) A person shall be eligible to be a fire watch warden shall be eligible to be a fire watch warden if the
 - person is qualified pursuant to regulations issued by the marshal and is an active or retired firefighter, a retired or active building trades council member, retired or active police officer or first responder or registered/certified security guard, retired or current building or

zoning code official, or is a current or retired fire inspector or fire marshal (or individual deemed to comply) who is certified pursuant to regulations issued by the marshal.

- (2) A developer or owner of a construction project subject to the provisions of this subsection shall be responsible for hiring, training, and compensating the fire watch wardens, and any expense to ensure that they are on site, including inspection by the department or the local enforcing agency.
- (3) A fire watch warden shall make regular inspections and patrols of the area assigned to the fire watch warden for supervision by the developer or owner. A fire watch warden shall not be assigned any other responsibilities that would interfere with or prevent the fire watch warden from carrying out the fire watch warden's responsibilities under this subsection.
- (4) A fire watch warden shall maintain a record of activities performed in connection with the construction project that constitute a potential threat to fire safety. The records shall be submitted to the department on a weekly basis and the division may, in its discretion, take any action appropriate to abate any fire safety issues, including, but not limited to, requesting that the local enforcing agency revoke the construction permit for the project.
- (5) A fire watch warden shall be present after 4pm Monday through Friday, 24-hours a day on weekends, and all legal holidays where construction is not taking place throughout the construction project and shall continue to monitor the construction project until the final sprinkler inspection is completed and a certificate of occupancy is issued.
- (6) The department may assess a developer or owner of a construction project, utilizing a fire watch warden pursuant to this subsection, reasonable administrative fees incurred by the division in performing its duties as set forth in this subsection.

(7) The provisions of this subsection shall not apply to a townhouse or other single-family dwelling. For purposes of this section, "townhouse" means a single-family dwelling unit constructed in a group of 3 or more attached units in which each unit extends from the foundation to roof and with open space on a least 2 sides.

- (e) The board and the marshal shall promulgate rules and regulations to effectuate the provisions of this section, and shall revise any applicable codes accordingly.
- (f) The marshal shall, promulgate rules and regulations to require that an identifying emblem be affixed to the front of each exterior entrance of structures with light frame or truss construction to clearly communicate that the structure in the affected area is combustible and known to the State to pose a fire hazard.

The emblem shall be of a bright and reflective color, or made of reflective material. The shape of the emblem shall be an isosceles triangle and the size shall be 12 inches horizontally by 6 inches vertically. The following letters, of a size and color to make them conspicuous, shall be printed on the emblem: "LF" to signify light frame construction; "F" to signify a floor with truss construction; "R" to signify a roof with truss construction; or "F/R" to signify both a floor and roof with truss construction.

The emblem shall be permanently affixed to the left of the main entrance door at a height between four to six feet above the ground and shall be installed and maintained by the owner of the building.

(d) Detached 1 and 2 family residential structures with truss construction which are not part of a planned real estate development shall be exempt from the provisions of this section;

136	provided however, the legislative body of a municipality may require by ordinance that emblems
137	be affixed on structures with truss construction.
138	Individual structures and dwelling units with truss construction which are part of a
139	planned real estate development shall not be required to have an identifying emblem if there is an
140	emblem affixed at each entranceway to the development.
141	(e) The marshal shall, adopt regulations to require that placards identifying the primary
142	structural system of a structure are affixed adjacent to the fire alarm control panel and to an
143	exterior wall within 10 feet of the main entrance to the structure.
144	(f) The placards shall be 8 inches vertically by 11 inches horizontally and shall have a
145	white background, black letters, and a black border. The letters shall be in at least 72-point
146	boldface type. The letters and border shall be visible and readable from at 10 feet.
147	(g) One of the following descriptions shall be printed on a placard, as appropriate:
148	(1) "Load-bearing concrete walls";
149	(2) "Load-bearing masonry walls";
150	(3) "Load-bearing steel stud walls";
151	(4) "Load-bearing light-framed combustible walls";
152	(5) "Structural concrete frame";
153	(6) "Structural steel frame";

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(7) "Timber or cross-laminated timber"; or

- 155 (8) if the primary structural system of the structure is not one of the foregoing, a
 156 description approved by the enforcing agency shall be printed instead.
- 157 (h) The following language shall be printed on each placard following the description of 158 the structural system: "serves as the primary structural system of this structure".