

HOUSE No. 2449

The Commonwealth of Massachusetts

PRESENTED BY:

Daniel M. Donahue and Joseph W. McGonagle, Jr.

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:
<i>Daniel M. Donahue</i>	<i>16th Worcester</i>	<i>2/11/2021</i>
<i>Joseph W. McGonagle, Jr.</i>	<i>28th Middlesex</i>	<i>2/11/2021</i>
<i>Tram T. Nguyen</i>	<i>18th Essex</i>	<i>2/26/2021</i>
<i>Jessica Ann Giannino</i>	<i>16th Suffolk</i>	<i>2/26/2021</i>
<i>Paul F. Tucker</i>	<i>7th Essex</i>	<i>2/26/2021</i>
<i>Kate Lipper-Garabedian</i>	<i>32nd Middlesex</i>	<i>2/26/2021</i>
<i>James J. O'Day</i>	<i>14th Worcester</i>	<i>2/26/2021</i>
<i>James Arciero</i>	<i>2nd Middlesex</i>	<i>2/26/2021</i>
<i>Carol A. Doherty</i>	<i>3rd Bristol</i>	<i>2/26/2021</i>
<i>Jon Santiago</i>	<i>9th Suffolk</i>	<i>2/26/2021</i>
<i>Antonio F. D. Cabral</i>	<i>13th Bristol</i>	<i>2/26/2021</i>
<i>Mary S. Keefe</i>	<i>15th Worcester</i>	<i>3/2/2021</i>
<i>David K. Muradian, Jr.</i>	<i>9th Worcester</i>	<i>3/2/2021</i>
<i>Michael S. Day</i>	<i>31st Middlesex</i>	<i>3/3/2021</i>
<i>Patrick M. O'Connor</i>	<i>Plymouth and Norfolk</i>	<i>3/4/2021</i>
<i>Daniel Cahill</i>	<i>10th Essex</i>	<i>3/11/2021</i>
<i>Daniel J. Ryan</i>	<i>2nd Suffolk</i>	<i>3/11/2021</i>
<i>David Biele</i>	<i>4th Suffolk</i>	<i>3/19/2021</i>

<i>Edward F. Coppinger</i>	<i>10th Suffolk</i>	<i>3/23/2021</i>
<i>Liz Miranda</i>	<i>5th Suffolk</i>	<i>6/8/2021</i>
<i>Natalie M. Higgins</i>	<i>4th Worcester</i>	<i>6/8/2021</i>
<i>Natalie M. Higgins</i>	<i>4th Worcester</i>	<i>6/8/2021</i>
<i>Brian M. Ashe</i>	<i>2nd Hampden</i>	<i>6/8/2021</i>

HOUSE No. 2449

By Messrs. Donahue of Worcester and McGonagle of Everett, a petition (accompanied by bill, House, No. 2449) of Daniel M. Donahue, Joseph W. McGonagle, Jr. and others relative to safe building materials. Public Safety and Homeland Security.

The Commonwealth of Massachusetts

**In the One Hundred and Ninety-Second General Court
(2021-2022)**

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:

1 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
10 more persons living as a single housekeeping unit, including permanent provisions for living,
11 sleeping, eating, cooking, and sanitation.

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

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

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

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

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

24 “Horizontal separation”, a floor assembly separating dwelling units in the same structure,
25 a floor assembly separating sleeping units in the same structure, and a floor assembly separating
26 dwelling or sleeping units from other occupancies contiguous to them in the same structure.

27 “Light frame construction”, a type or construction the vertical and horizontal structural
28 elements of which are primarily formed by a system of repetitive wood framing members or that
29 utilizes metal-plate-connected wood trusses, metal-plate-connected metal-web wood trusses, pin-
30 end connected steel-web wood trusses, wooden I-joists, solid-sawn wood joists, composite wood
31 joists as floor or roof system structural elements, or load bearing elements made of combustible
32 materials.

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

40 “Residential use structure”, a hotel, motel, resort, boarding house or inn as those terms
41 are defined in section 12A of chapter 140; a multiple dwelling, as that term is defined in section
42 13A of chapter 22; or rooming house, as that term is defined in section 199B of chapter 111.

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

46 (b) A new residential use structure containing more than two dwelling or sleeping units
47 under the R Occupancy in the International Building Code (IBC) may only be constructed
48 utilizing light frame construction if the following requirements are satisfied:

49 (1) Notwithstanding any other provision in this chapter, an automatic sprinkler system
50 shall be installed throughout the structure in accordance with the requirements of National Fire
51 Protection Association (NFPA) 13, Standard for the Installation of Sprinkler Systems.

52 (2) The number of stories permitted in the structure shall be measured from grade plane
53 and includes any pedestal or podium.

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

72 (6) (i) If any light framing of the structure is unprotected, the structure shall not have
73 more than three stories and shall not exceed 60 feet above grade plane.

74 (ii) If all light framing of the structure is protected, the structure shall not have more than
75 four stories and shall not exceed 70 feet above grade plane.

76 (7) If the structure has five or more dwelling or sleeping units, a horizontal assembly
77 shall not be considered to create separate and distinct structures for the purposes of determining
78 area limitations, continuity of fire walls, limitation of number of stories, and type of construction
79 as provided under this subsection and the code.

80 (c) The contractor, or subcontractor for a construction project proposed in accordance
81 with this section shall be registered with the board of building regulations.

82 (d) The construction of a new residential use structure containing more than two dwelling
83 or sleeping units utilizing light frame construction shall not commence unless a fire watch
84 warden who meets the requirements of paragraph (1) of this subsection is present 24 hours a day
85 to monitor the construction and alert firefighters, medical, rescue, or law enforcement personnel
86 if a fire or other emergency occurs.

87 (1) A person shall be eligible to be a fire watch warden shall be eligible to be a fire watch
88 warden if the person is qualified pursuant to regulations issued by the marshal and is an active or
89 retired firefighter, a retired or active building trades council member, retired or active police
90 officer or first responder or registered/certified security guard, retired or current building or
91 zoning code official, or is a current or retired fire inspector or fire marshal (or individual deemed
92 to comply) who is certified pursuant to regulations issued by the marshal.

93 (2) A developer or owner of a construction project subject to the provisions of this
94 subsection shall be responsible for hiring, training, and compensating the fire watch wardens,
95 and any expense to ensure that they are on site, including inspection by the department or the
96 local enforcing agency.

97 (3) A fire watch warden shall make regular inspections and patrols of the area assigned to
98 the fire watch warden for supervision by the developer or owner. A fire watch warden shall not
99 be assigned any other responsibilities that would interfere with or prevent the fire watch warden
100 from carrying out the fire watch warden’s responsibilities under this subsection.

101 (4) A fire watch warden shall maintain a record of activities performed in connection
102 with the construction project that constitute a potential threat to fire safety. The records shall be
103 submitted to the department on a weekly basis and the division may, in its discretion, take any
104 action appropriate to abate any fire safety issues, including, but not limited to, requesting that the
105 local enforcing agency revoke the construction permit for the project.

106 (5) A fire watch warden shall be present after 4pm Monday through Friday, 24-hours a
107 day on weekends, and all legal holidays where construction is not taking place throughout the
108 construction project and shall continue to monitor the construction project until the final
109 sprinkler inspection is completed and a certificate of occupancy is issued.

110 (6) The department may assess a developer or owner of a construction project, utilizing a
111 fire watch warden pursuant to this subsection, reasonable administrative fees incurred by the
112 division in performing its duties as set forth in this subsection.

113 (7) The provisions of this subsection shall not apply to a townhouse or other single-
114 family dwelling. For purposes of this section, “townhouse” means a single-family dwelling unit

115 constructed in a group of 3 or more attached units in which each unit extends from the
116 foundation to roof and with open space on a least 2 sides.

117 (e) The board and the marshal shall promulgate rules and regulations to effectuate the
118 provisions of this section, and shall revise any applicable codes accordingly.

119 (f) The marshal shall, promulgate rules and regulations to require that an identifying
120 emblem be affixed to the front of each exterior entrance of structures with light frame or truss
121 construction to clearly communicate that the structure in the affected area is combustible and
122 known to the State to pose a fire hazard. The emblem shall be of a bright and reflective color, or
123 made of reflective material. The shape of the emblem shall be an isosceles triangle and the size
124 shall be 12 inches horizontally by 6 inches vertically. The following letters, of a size and color to
125 make them conspicuous, shall be printed on the emblem: "LF" to signify light frame
126 construction; "F" to signify a floor with truss construction; "R" to signify a roof with truss
127 construction; or "F/R" to signify both a floor and roof with truss construction. The emblem shall
128 be permanently affixed to the left of the main entrance door at a height between four to six feet
129 above the ground and shall be installed and maintained by the owner of the building.

130 (d) Detached 1 and 2 family residential structures with truss construction which are not
131 part of a planned real estate development shall be exempt from the provisions of this section;
132 provided however, the legislative body of a municipality may require by ordinance that emblems
133 be affixed on structures with truss construction. Individual structures and dwelling units with
134 truss construction which are part of a planned real estate development shall not be required to
135 have an identifying emblem if there is an emblem affixed at each entranceway to the
136 development.

137 (e) The marshal shall, adopt regulations to require that placards identifying the primary
138 structural system of a structure are affixed adjacent to the fire alarm control panel and to an
139 exterior wall within 10 feet of the main entrance to the structure.

140 (f) The placards shall be 8 inches vertically by 11 inches horizontally and shall have a
141 white background, black letters, and a black border. The letters shall be in at least 72-point
142 boldface type. The letters and border shall be visible and readable from at 10 feet.

143 (g) One of the following descriptions shall be printed on a placard, as appropriate:

144 (1) “Load-bearing concrete walls”;

145 (2) “Load-bearing masonry walls”;

146 (3) “Load-bearing steel stud walls”;

147 (4) “Load-bearing light-framed combustible walls”;

148 (5) “Structural concrete frame”;

149 (6) “Structural steel frame”;

150 (7) “Timber or cross-laminated timber”; or

151 (8) if the primary structural system of the structure is not one of the foregoing, a
152 description approved by the enforcing agency shall be printed instead.

153 (h) The following language shall be printed on each placard following the description of
154 the structural system: “serves as the primary structural system of this structure”.