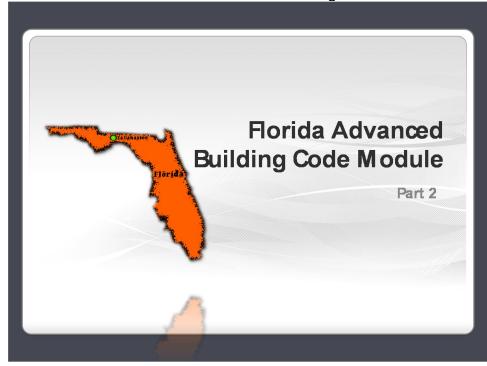
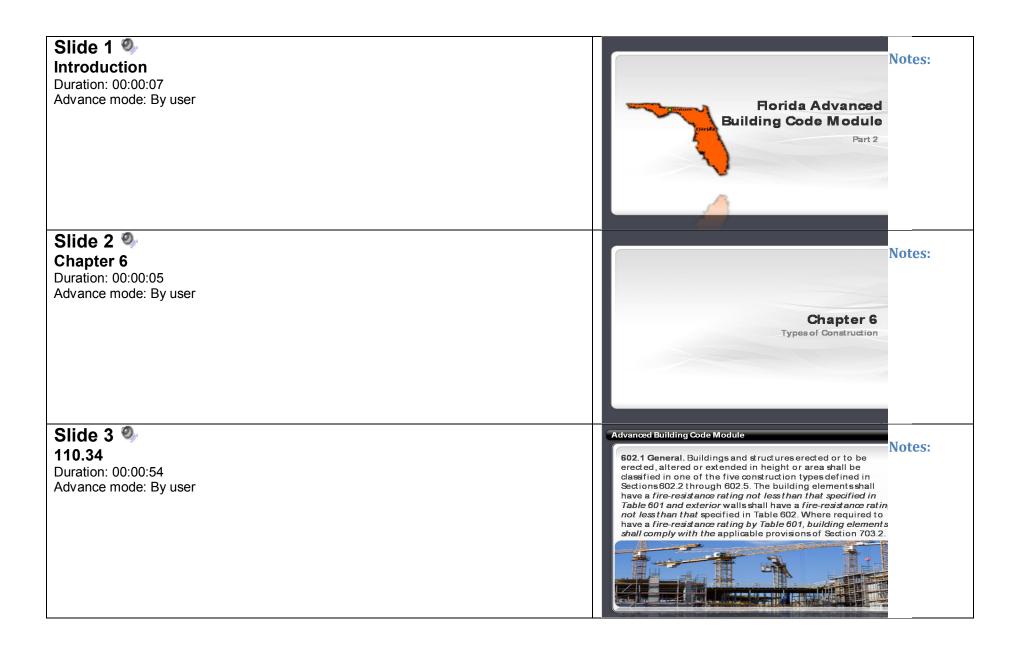
## **Presentation Details:**

Slides: 55

**Duration:** 00:34:13

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# Slide 4 🌯 Advanced Building Code Module Notes: 110.34 The protection of openings ducts and air transfer openings in building elements shall not be required unless required by Duration: 00:00:13 other provisions of this code. Advance mode: By user Slide 5 🌯 **Notes:** Chapter 7 Duration: 00:00:07 Advance mode: By user Chapter 7 Fire and Smoke Protection Features Slide 6 % Advanced Building Code Module Notes: 110.34 701.1 Scope. The provisions of this chapter shall govern the materials, systems and assemblies used for structural fire Duration: 00:00:28 resistance and fire-resistance-rated construction separation o Advance mode: By user adjacent spaces to safeguard against the spread of fire and smoke within a building and the spread of fire to or from buildings.

# Slide 7 🌯 Notes: **Chapter 7** Duration: 00:00:03 Advance mode: By user **Definitions** Slide 8 🌯 Advanced Building Code Module Notes: 110.34 BUILDING ELEMENT. A fundamental component of building construction, listed in Table 601, which may or may not be of Duration: 00:01:00 fire-resistance-rated construction and is constructed of Advance mode: By user materials based on the building type of construction. F RATING. The time period that the through-penetration firestop system limits the spread of fire through the penetration when tested in accordance with ASTM E 814 or UL 1479. FIRE PROTECTION RATING. The period of time that an opening protective will maintain the ability to confine a fire as determined by tests prescribed in Section 715. Ratings are stated in hours or minutes. Slide 9 🌯 Advanced Building Code Module Notes: 110.34 FIREBLOCKING. Building materialsor materialsapproved for use as fireblocking, installed to resist the free passage of Duration: 00:00:18 flame to other areas of the building through concealed Advance mode: By user

#### Slide 10 @ Advanced Building Code Module Notes: 110.34 703.2 Fire-resistance ratings. The fire-resistance rating of building elements, components or assemblies shall be Duration: 00:01:09 determined in accordance with the test procedures set forth Advance mode: By user in ASTM E 119 or UL 263 or in accordance with Section 703.3 Where materials, systems or devices that have not been tested as part of a fire-resistance-rated assembly are incorporated into the building element, component or assembly, sufficient data shall be made available to the building official to show that the required fire-resistance rating is not reduced. Materials and methods of construction used to protect joints and penetrations in fire-resistancerated building elements, components or assemblies shall not reduce the required fire-resistance rating. Slide 11 % Advanced Building Code Module Notes: 110.34 Exception: In determining the fire-resistance rating of exterior bearing walls, compliance with the ASTM E 119 or Duration: 00:01:18 UL 263 criteria for unexposed surface temperature rise and Advance mode: By user ignition of cotton waste due to passage of flame or gases is required only for a period of time corresponding to the required fire-resistance rating of an exterior nonbearing wal with the same fire separation distance, and in a building of the same group. When the fire-resistance rating determined in accordance with this exception exceeds the fire-resistance rating determined in accordance with ASTM E 119 or UL 263 the fire exposure time period, water pressure and application duration criteria for the hose stream test of ASTM E 119 or UL 263 shall be based upon the fire-resistance rating determined in accordance with this exception. Slide 12 ® Advanced Building Code Module Notes: 110.34 704.13.2 Manufacturer's installation instructions. The application of SFRM shall be in accordance with the Duration: 00:00:37 manufacturer's installation instructions. The instructions shall Advance mode: By user include, but are not limited to, substrate temperatures and surface conditions and SFRM handling, storage, mixing, conveyance, method of application, curing and ventilation.

#### Slide 13 🌯 Advanced Building Code Module Notes: 110.34 704.13.3 Substrate condition. The SFRM shall be applied to a substrate in compliance with Sections 704.13.3.1 through Duration: 00:01:11 704.13.3.2. Advance mode: By user 704.13.3.1 Surface conditions. Substrates to receive SFRM shall be free of dirt, oil, grease, release agents, loose scale and any other condition that prevents adhesion. The substrates shall also be free of primers, paints and encapsulants other than those fire tested and listed by a nationally recognized testing agency. Primed, painted or encapsulated steel shall be allowed, provided that testing ha demonstrated that required adhesion is maintained. Slide 14 % Advanced Building Code Module Notes: 110.34 704.13.3.2 Primers, paints and encapsulants. Where the SFRI isto be applied over primers, paints or encapsulants other Duration: 00:01:09 than those specified in the listing, the material shall be field tested in accordance with ASTME 736. Where testing of the Advance mode: By user SFRM with primers, paints or encapsulants demonstrates that required adhesion is maintained, SFRM shall be permitted to be applied to primed, painted or encapsulated wide flange steel shapes in accordance with the following conditions: The column flange The beam flange width does not exceed 12 inches (305 mm); or width does not exceed 16inches Slide 15 % Advanced Building Code Module **Notes:** 110.34 This 50 4 Duration: 00:01:09 minute (1 Advance mode: By user Hour) The average and minimum bond strength values advanced shall be determined based on a minimum of five bond tests conducted in accordance with ASTM E building 736. Bond tests conducted in accordance with ASTM E 736 shall indicate a minimum average code module bond strength of 80 percent and a minimum covers bond strength of 50 percent, when compared changes to the bond strength of the SFRM as applied to clean uncoated 1/8-inch-thick (3mm)steel plate. from the 2007 Florida Building Code to the 2010 Florida Building Code.

Slide 16  110.34 Duration: 00:00:57 Advance mode: By user	Advanced Building Code Module  704.13.4 Temperature. A minimum ambient and substrate temperature of 40°F (4.44°C) shall be maintained during and for a minimum of 24 hours after the application of the SFRM unless the manufacturer's installation instructions allow otherwise.  704.13.5 Finished condition. The finished condition of SFRM applied to structural members or assemblies shall not, upon complete drying or curing, exhibit cracks, voids, spalls, delamination or any exposure of the substrate. Surface irregularities of SFRM shall be deemed acceptable.
Slide 17 9 110.34 Duration: 00:01:01 Advance mode: By user	Advanced Building Code Module  705.2 Projections. Cornices, eave overhangs, exterior balconies and similar projections extending beyond the exterior wall shall conform to the requirements of this section and Section 1406. Exterior egress balconies and exterior exit stairways shall also comply with Sections 1019 and 1026, respectively. Projections shall not extend beyond the distance determined by the following three methods, whichever results in the lesser projection:  1. A point one-third the distance from the exterior face of the wall to the lot line where protected openings or a combination of protected and unprotected openings are required in the exterior wall.
Slide 18  110.34 Duration: 00:00:47 Advance mode: By user	Advanced Building Code Module  2. A point one-half the distance from the exterior face of the wall to the lot line where all openings in the exterior wall ar permitted to be unprotected or the building is equipped throughout with an automatic sprinkler system installed under the provisions of Section 705.8.2.  3. More than 12 inches (305 mm) into areaswhere openings are prohibited.  Buildings on the same lot and considered as portions of one building in accordance with Section 705.3 are not required to comply with this section.

#### Slide 19 🌯 Advanced Building Code Module Notes: 110.34 705.8.5 Vertical separation of openings. Openings in exterior walls in adjacent stories shall be separated vertically to Duration: 00:01:20 protect against fire spread on the exterior of the buildings Advance mode: By user where the openings are within 5 feet (1524 mm) of each other horizontally and the opening in the lower story is not protected opening with a fire protection rating of not less than 3/4 hour. Such openings shall be separated vertically at least 3 feet (914 mm) by spandrel girders, exterior walls or other similar assemblies that have a fire-resistance rating of at least 1 hour or by flame barriers that extend horizontally at least 30 inches (762 mm) beyond the exterior wall. Flame barriers shall also have a fire-resistance rating of at least 1 hour. The unexposed surface temperature limitations specified in ASTM E 119 or UL 263 shall not apply to the flame barriers or vertical separation unless otherwise required by the provisions of this code. Slide 20 🌯 Advanced Building Code Module Notes: 110.34 Exceptions: Duration: 00:00:33 This section shall not apply to buildings that are three stories or less above grade plane. Advance mode: By user This section shall not apply to buildings equipped throughout with an *automatic sprinkler system in* accordance with Section 903.3.1.1 or 903.3.1.2. Ž Open parking garages Slide 21 % Advanced Building Code Module Notes: 110.34 705.8.6 Vertical exposure. For buildings on the same lot, opening protectives having a fire protection rating of not Duration: 00:00:42 less than 3/4 hour shall be provided in every opening that is Advance mode: By user less than 15 feet (4572 mm) vertically above the roof of an adjacent building or structure based on assuming an imaginary line between them. The opening protectives are required where the fire separation distance between the imaginary line and the adjacent building or structure is less than 15 feet (4572 mm).

#### Slide 22 ® Advanced Building Code Module Notes: 110.34 706.5.1 Exterior walls. Where the fire wall intersect sexterior walls, the fire-resistance rating and opening protection of Duration: 00:00:56 the exterior walls shall comply with one of the following: Advance mode: By user 1. The exterior walls on both sides of the fire wall shall have a 1-hour fire-resistance rating with 3/4-hour protection where opening protection is required by Section 705.8. The fire-resistance rating of the exterior wall shall extend a minimum of 4 feet (1220 mm) on each side of the intersection of the fire wall to exterior wall. Exterior wall intersections at fire walls that form an angle equal to or greater than 180 degrees (3.14 rad) do not need exterior wa. protection. Slide 23 🌯 Advanced Building Code Module Notes: 110.34 2. Buildings or spaces on both sides of the intersecting fire wall shall assume to have an imaginary lot line at the fire Duration: 00:00:45 wall and extending beyond the exterior of the fire wall. The Advance mode: By user location of the assumed line in relation to the exterior walls and the fire wall shall be such that the exterior wall and opening protection meet the requirements set forth in Sections 705.5 and 705.8. Such protection is not required for exterior wallsterminating at fire wallsthat form an angle equal to or greater than 180 degrees (3.14 rad). Slide 24 ® Advanced Building Code Module Notes: 110.34 711.5.2 Smoke and draft control doors. Where required elsewhere in the code, doors in smoke partitions shall meet Duration: 00:00:49 the requirements for a smoke and draft control door Advance mode: By user assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot [0.015424m3/(s·m2)] of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature test and the elevated temperature exposure test. Installation of smoke doors shall be in accordance withNFPA105.

### Slide 25 🌯 Notes: **Chapter 8** Duration: 00:00:05 Advance mode: By user Chapter 8 Interior Finished Slide 26 🌯 Advanced Building Code Module Notes: 110.34 801.2 Interior wall and ceiling finish. The provisions of Section Duration: 00:00:41 803 shall limit the allowable fire Advance mode: By user performance and smoke development of interior wall and ceiling finish materials based on occupancy classification. 801.3 Interior floor finish. The provisions of Section 804 shall limit the allowable fire performance of interior floor finish materials based on occupancy classification. Slide 27 🌯 Advanced Building Code Module Notes: 110.34 803.5 Textile wall coverings. Where used as interior wall finish materials, textile wall coverings, including materials Duration: 00:01:18 having woven or nonwoven, napped, tufted, looped or Advance mode: By user similar surface and carpet and similar textile materials, shall be tested in the manner intended for use, using the product mounting system, including adhesive, and shall comply with the requirements of Section 803.1.2, 803.1.3 or 803.1.4 803.6 Textile ceiling coverings. Where used as interior ceiling finish materials, textile ceiling coverings, including materials having woven or nonwoven, napped, tufted, looped or similar surface and carpet and similar textile materials, shall be tested in the manner intended for use, using the product mounting system, including adhesive, and shall comply with the requirements of Section 803.1.2 or 803.1.4.

### Slide 28 🌯 Advanced Building Code Module Notes: 110.34 803.7 Expanded vinyl wall coverings. Where used as interior wall finish materials, expanded vinyl wall coverings shall be Duration: 00:01:00 tested in the manner intended for use, using the product Advance mode: By user mounting system, including adhesive, and shall comply with the requirements of Section 803.1.2, 803.1.3 or 803.1.4. 803.8 Expanded vinyl ceiling coverings. Where used as interior ceiling finish materials, expanded vinyl ceiling coverings shall be tested in the manner intended for use, using the product mounting system, including adhesive, and shall comply with the requirements of Section 803.1.2 or Slide 29 🌯 Notes: **Chapter 9** Duration: 00:00:05 Advance mode: By user Chapter 9 Fire Protection Systems Slide 30 🌯 Advanced Building Code Module Notes: 110.34 901.7 Fire areas. Where buildings, or portions thereof, are divided into fire areas so as not to exceed the limits Duration: 00:00:43 established for requiring a fire protection system in Advance mode: By user accordance with this chapter, such fire areas shall be separated by fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 712, or both, having a fire-resistance rating of not less than that determined in accordance with Section 707.3.9.

### Slide 31 @ Advanced Building Code Module Notes: 110.34 [F] AUTOMATIC SMOKE DETECTIONSYSTEM. A fire alarm system that has initiation devices that utilize smoke detector Duration: 00:00:20 for protection of an area such as a room or space with Advance mode: By user detectors to provide early warning of fire. Slide 32 🌯 Advanced Building Code Module Notes: 110.34 [F] 906.2 General requirements. Portable fire extinguishers shall be selected, installed and maintained in accordance Duration: 00:00:55 with this section and NFPA 10. Advance mode: By user Exceptions: 1. The travel distance to reach an extinguisher shall not apply to the spectator seating portions of Group A-5 occupancies. 2. Thirty-day inspections shall not be required and maintenance shall be allowed to be once every three years for dry-chemical or halogenated agent portable fire extinguishers that are supervised by a listed and approved electronic monitoring device, provided that all of the following conditions are met: Slide 33 🌯 Advanced Building Code Module Notes: 110.34 2.1. Electronic monitoring shall confirm that extinguishers ar properly positioned, properly charged and unobstructed. Duration: 00:00:58 2.2. Loss of power or circuit continuity to the electronic Advance mode: By user monitoring device shall initiate a trouble signal. 2.3. The extinguishers shall be installed inside of a building o cabinet in a noncorrosive environment. 2.4 Electronic monitoring devices and supervisory circuits shall be tested every three years when extinguisher maintenance is performed. 2.5 A written log of required hydrostatic test dates for extinguishers shall be maintained by the owner to verify that hydrostatic tests are conducted at the frequency required by NFPA10.

# Slide 34 🌯 Advanced Building Code Module Notes: 110.34 [F] 906.9 Extinguisher installation. The installation of portable fire extinguishers shall be in accordance with Duration: 00:01:16 Sections 906.9.1 through 906.9.3. Advance mode: By user [F] 906.9.1 Extinguishers weighing 40 pounds or less. Portable fire extinguishers having a gross weight not exceeding 40 pounds (18 kg) shall be installed so that their topsare not more than 5 feet (1524 mm) above the floor. [F] 906.9.2 Extinguishers weighing more than 40 pounds. Hand-held portable fire extinguishers having a gross weight exceeding 40 pounds (18 kg) shall be installed so that their topsare not more than 3.5 feet (1067 mm) above the floor. [F] 906.9.3 Floor dearance. The dearance between the floor and the bottom of installed hand-held portable fire extinguishers shall not be less than 4 inches (102 mm). Slide 35 🌯 **Notes: Chapter 10** Duration: 00:00:05 Advance mode: By user Chapter 10 Means of Egress Slide 36 🌯 **Notes: Chapter 7** Duration: 00:00:03 Advance mode: By user **Definitions**

### Slide 37 🌯 Advanced Building Code Module Notes: 110.34 EXIT. That portion of a means of egress system which is separated from other interior spaces of a building or Duration: 00:00:44 structure by fire-resistance-rated construction and opening Advance mode: By user protectives as required to provide a protected path of egresa travel between the exit access and the exit discharge. Exits include exterior exit doors at the level of exit discharge, vertical exit enclosures, exit passageways, exterior exit stairways, exterior exit ramps and horizontal exits. Slide 38 🌯 Advanced Building Code Module Notes: 110.34 EXIT ACCESS DOORWAY. A door or access point along the path of egress travel from an occupied room, area or space Duration: 00:00:24 where the path of egress enters an intervening room, Advance mode: By user corridor, unenclosed exit access stair or unenclosed exit acces Slide 39 🌯 Advanced Building Code Module Notes: 110.34 EXIT PASSAGEWAY. An exit component that is separated from other interior spaces of a building or structure by fire-Duration: 00:00:27 resistance-rated construction and opening protectives, and Advance mode: By user provides for a protected path of egress travel in a horizontal direction to the exit discharge or the public way.

### Slide 40 🌯 Advanced Building Code Module Notes: 110.34 FOLDING AND TELESCOPIC SEATING. Tiered seating having an overall shape and size that is capable of being reduced fo Duration: 00:00:29 purposes of moving or storing and is not a building element Advance mode: By user GRANDSTAND. Tiered seating supported on a dedicated structural system and two or more rowshigh and is not a building element (see "Bleachers"). Slide 41 🌯 Advanced Building Code Module Notes: 110.34 1005.1 Minimum required egress width. The means of egres width shall not be less than required by this section. The tota Duration: 00:01:03 width of means of egress in inches (mm) shall not be less Advance mode: By user than the total occupant load served by the means of egress multiplied by 0.3 inch (7.62 mm) per occupant for stairways and by 0.2 inch (5.08 mm) per occupant for other egress components. The width shall not be less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress. Slide 42 🌯 **Notes: Chapter 11** Duration: 00:00:06 Advance mode: By user Chapter 11

### Slide 43 🌯 Advanced Building Code Module Notes: 110.34 1101.1 Scope. This chapter governs the design and construction of buildings for accessibility. Duration: 00:00:27 1101.1.1 Criteria. Buildings shall be designed and constructed Advance mode: By user in accordance with the Horida Building Code, Accessibility. Slide 44 Notes: **Chapter 12** Duration: 00:00:06 Advance mode: By user Chapter 12 Interior Environment Slide 45 🌯 Advanced Building Code Module Notes: 110.34 1203.2 Attic spaces. Enclosed attics and enclosed rafter space formed where ceilings are applied directly to the underside Duration: 00:01:08 of roof framing members shall have cross ventilation for eacl Advance mode: By user separate space by ventilating openings protected against the entrance of rain and snow. Blocking and bridging shall be arranged so as not to interfere with the movement of air. A minimum of 1 inch (25 mm) of airspace shall be provided between the insulation and the roof sheathing. The net free ventilating area shall not be less than 1/300 of the area of the space ventilated, with 50 percent of the required ventilating area provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents.

### Slide 46 🌯 Advanced Building Code Module Notes: 110.34 1210.1 Floors and wall base finish materials. In other than dwelling units, toilet, bathing and shower room floor finish Duration: 00:00:59 materials shall have a smooth, hard, nonabsorbent surface. Advance mode: By user The intersections of such floors with walls shall have a smooth, hard, nonabsorbent vertical base that extends upward onto the walls at least 4 inches (102 mm). 1210.2Wallsand partitions. Wallsand partitions within 2 fee (610 mm) of urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet (1219 mm) above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture. Slide 47 🌯 Advanced Building Code Module Notes: 110.34 Exceptions: Duration: 00:00:37 1. Dwelling units and sleeping units. Advance mode: By user 2. Toilet rooms that are not accessible to the public and which have not more than one water doset. Accessories such as grab bars, towel bars, paper dispensers and soap dishes, provided on or within walls, shall be installed and sealed to protect structural elements from moisture. For walls and partitions also see Section 2903. Slide 48 🌯 **Notes:** Chapter 13 Duration: 00:00:06 Advance mode: By user Chapter 13 **Energy Efficiency**



### Slide 52 @ Advanced Building Code Module Notes: 110.34 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS). EIFS are nonstructural, nonload-bearing, exterior wall cladding Duration: 00:00:46 systems that consist of an insulation board attached either Advance mode: By user adhesively or mechanically, or both, to the substrate; an integrally reinforced base coat and a textured protective EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) WITH DRAINAGE. An EIFSthat incorporates a means of drainage applied over a water-resistive barrier. Slide 53 🌯 Notes: Quiz presented in the previous section. Duration: 00:00:48 This quiz has 5 questions and a time limit of 1 minute per Advance mode: By user question. The time remaining may be viewed at the bottom of the quiz. After you have completed each question, click the flashing submit button in the lower left hand corner. Upon completion, make sure you fill out the provided form to receive full credit for this section. If you encounter any technical difficulties, please feel free to use the contact us link at the top o Slide54 **Questions: Advanced Building Code Part 2** 1. A Interaction type: Choices minimum Passing score: 0 Learning Game Placeholde ambient and Instructions: None **Learning Game: Choices** substrate Custom Message: None temperature Title: Advanced Building Code of 40°F Part 2 (4.44°C) shall be maintained during and for a the application of the SFRM, unless the manufacture

	r's
	installation
	instructions
	allow
	otherwise.
	1) minimum
	of 48 hours
	after
	2) minimum
	of 24 hours
	after
	(Correct)
	3) maximum
	of 24 hours
	after
	4) maximum
	of 48 hours
	after
	2. Openings
	in exterior
	walls in
	adjacent
	stories shall
	be
	separated
	vertically to
	protect
	against fire
	spread on
	the exterior
	of the
	buildings
	where the
	openings are
	1) within 4
	feet of each
	other
	horizontally
	2) within 5
	feet of each
	other
	vertically

	3) within 15 feet of each other
	horizontally or vertically
	4) within 5 feet of each
	other
	horizontally (Correct)
	3. For buildings on
	the same lot,
	opening protectives
	having a fire protection
	rating of not less than 3/4
	hour shall be
	provided in every
	opening that is
	1) less than 15 feet
	vertically (Correct)
	2) less than
	15 feet horizontally
	3) less than 25 feet
	vertically 4) less than
	30 feet
	horizontally
	4shall not be
	required and maintenance

	shall be allowed to be once every three years for dry-chemical or halogenated agent portable fire extinguisher
	s that are supervised by an approved electronic monitoring device, provided that conditions are met. 1) 15 day
	inspections 2) 90 day inspections 3) 30 day inspections (Correct) 4) 60 day inspections 5. A
	minimum ofin. of airspace shall be provided between the insulation and the roof sheathing. 1) 1 (Correct)

		2) 2 3) 3 4) 4
Slide 55 Duration: 00:00:21 Advance mode: By user  URL: http://www.contractor-licensing.com/component/option,com_chronoforms/chronoform,Adv_BC_Part_2/lang,en?t mpl=idcheck Display: In Articulate player	Web Object Placeholder Address:http://www.contractor- licensing.com/component/option,com_chronoforms/chronoform,Adv_BC_P ang,en?tmpl=idcheck Displayed in: Articulate Player Window size:720 X 540	Notes: