Compliance Made Easy with Low-Profile Fire Extinguishers

Webinar Presentation

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Who is required to comply?

- All healthcare organizations which receive moneys from the Centers for Medicare & Medicaid (CMS)
  - Accredited or non-accredited, same minimum requirements.
- Healthcare facilities include:
  - Hospitals
  - Ambulatory Surgical Centers
  - Behavioral Healthcare
  - Inpatient Hospices
  - Intermediate Care Facilities
  - Long Term Care Facilities
  - Assisted Living Facilities
  - Senior Living Facilities
  - Rehab Facilities

What is different from the prior requirements?

• 12 years of changes from the previously followed version (2000 edition).
• Protruding & projecting object dimensional limits.
• Clutter in path of egress.
• For Joint Commission Accredited Organizations, processes for compliance, documentation, remedial measures, and inventory have been updated.
  – For example, SAFER MATRIX is replacing Plan for Improvement (PFI).
  – To comply with the Element of Performance, extinguishers should be inventoried with unique ID, location, type, size, maintenance history, and deficiency history.
  – Inventory and identify any track record of deficiencies. This enables a focus for improvement of the recurring problem.
  – Environment of Care Committee reviews deficiency's, resolutions, and patterns.
  – BBI – Basic Building Information (Current as-built plans).
Oval Innovation Enables Easy Compliance with NFPA 101 (2012)

Here’s the First Problem Solved
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

- 7.3.2.2
- 7.3.2.3
- 18.2.3.4
- 18.2.3.5
- A.18.2.3.4(2)
- A.18.2.3.5(2)
- 19.2.3.4
- A19.2.3.4(2)
- 20.2.3.3
- 21.2.3.3
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

18.2.3.4* Aisles, corridors, and ramps required for exit access in a hospital or nursing home shall be not less than 8 ft (2440 mm) in clear and unobstructed width, unless otherwise permitted by one of the following:

(1)* Aisles, corridors, and ramps in adjunct areas not intended for the housing, treatment, or use of inpatients shall be not less than 44 in. (1120 mm) in clear and unobstructed width.

(2)* Noncontinuous projections not more than 6 in. (150 mm) from the corridor wall, positioned not less than 38 in. (965 mm) above the floor, shall be permitted.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

**A.18.2.3.4(2)** The intent of 18.2.3.4(2) is to permit limited non-continuous projections along the corridor wall. These include hand-rub dispensing units complying with 18.3.2.6, nurse charting units, wall-mounted computers, telephones, artwork, bulletin boards, display case frames, cabinet frames, fire alarm boxes, and similar items. It is not the intent to permit the narrowing of the corridor by the walls themselves. The provision of 7.3.2.2 permits projections up to 4½ in. (114 mm) to be present at and below the 38 in. (965 mm) height specified in 18.2.3.4(2), and it is not the intent of 18.2.3.4(2) to prohibit such projections. Permitting projections above the 38 in. (965 mm) handrail height complies with the intent of the requirement, as such projections will not interfere with the movement of gurneys, beds, and wheelchairs. Projections below handrail height for limited items, such as fire extinguisher cabinets and recessed water coolers, also will not interfere with equipment movement.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

18.2.3.5 Aisles, corridors, and ramps required for exit access in a limited care facility or hospital for psychiatric care shall be not less than 6 ft (1830 mm) in clear and unobstructed width, unless otherwise permitted by one of the following:

(1) Aisles, corridors, and ramps in adjunct areas not intended for the housing, treatment, or use of inpatients shall be not less than 44 in. (1120 mm) in clear and unobstructed width.
(2) Noncontinuous projections not more than 6 in. (150 mm) from the corridor wall, positioned not less than 38 in. (965 mm) above the floor, shall be permitted.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

A.18.2.3.5(2) The intent of 18.2.3.5(2) is to permit limited non-continuous projections along the corridor wall. These include hand-rub dispensing units complying with 18.3.2.6, nurse charting units, wall-mounted computers, telephones, artwork, bulletin boards, display case frames, cabinet frames, fire alarm boxes, and similar items. It is not the intent to permit the narrowing of the corridor by the walls themselves. The provision of 7.3.2.2 permits projections up to 4½ in. (114 mm) to be present at and below the 38 in. (965 mm) height specified in 18.2.3.5(2), and it is not the intent of 18.2.3.5(2) to prohibit such projections. Permitting projections above the 38 in. (965 mm) handrail height complies with the intent of the requirement, as such projections will not interfere with the movement of gurneys, beds, and wheelchairs. Projections below handrail height for limited items, such as fire extinguisher cabinets and recessed water coolers, also will not interfere with equipment movement.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

19.2.3.4* Any required aisle, corridor, or ramp shall be not less than 48 in. (1220 mm) in clear width where serving as means of egress from patient sleeping rooms, unless otherwise permitted by one of the following:

(1) Aisles, corridors, and ramps in adjunct areas not intended for the housing, treatment, or use of inpatients shall be not less than 44 in. (1120 mm) in clear and unobstructed width.

(2)*Where corridor width is at least 6 ft (1830 mm), noncontinuous projections not more than 6 in. (150 mm) from the corridor wall, above the handrail height, shall be permitted.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

Sections of NFPA 101 (2012) that define the rules for non-continuous projections into corridors:

A.19.2.3.4(2) The intent of 19.2.3.4(2) is to permit limited non-continuous projections along the corridor wall. These include hand-rub dispensing units complying with 19.3.2.6, nurse charting units, wall-mounted computers, telephones, artwork, bulletin boards, display case frames, cabinet frames, fire alarm boxes, and similar items. It is not the intent to permit the narrowing of the corridor by the walls themselves. The provision of 7.3.2.2 permits projections up to 4½ in. (114 mm) to be present at and below the 38 in. (965 mm) handrail height, and it is not the intent of 19.2.3.4(2) to prohibit such projections.
Problem #1

Protruding Object Violations – Greater than 4-1/2” & 4”

• When surface mounted, round fire extinguishers violate the 4-1/2” protruding object limit* when any portion of the extinguisher is located below 38” or the handrail height in existing facilities. (* Per NFPA-101).
  – Some existing fire extinguishers cabinets project greater than 4-1/2” where any portion is lower than 38” or the handrail height in existing facilities.

• When surface mounted all currently manufactured round fire extinguishers violate the 4” protruding object limit** if the bottom edge is higher than 27” above the floor. (**Per ADA, IFC, IBC, ANSI/ICC A117.1, AODA).
  – Some existing fire extinguishers cabinets project greater than 4” when the bottom leading edge is higher than 27”.

Innovating Unparalleled Fire Protection Products
Problem #1

Protruding Object Violations – Following ADA is also Required By CMS

HTTPS://WWW.FEDERALREGISTER.GOV/DOCUMENTS/2016/05/04/2016-10043/MEDICARE-AND-MEDICAID-PROGRAMS-
FIRE-SAFETY-REQUIREMENTS-FOR-CERTAIN-HEALTH-CARE-FACILITIES

“NFPA 101 (2012) SECTIONS 18.2.3.4(2) AND 19.2.3.4(2)—CORRIDOR PROJECTIONS

This provision requires noncontinuous projections to be no more than 6 inches from the corridor wall. In addition to
following the requirements of the LSC, health care facilities must comply with the requirements of the ADA, including the
requirements for protruding objects. The 2010 Standards for Accessible Design (2010 Standards) generally limit the
protrusion of wall-mounted objects into corridors to no more than 4 inches from the wall when the object's leading edge is
located more than 27 inches, but not more than 80 inches, above the floor. See Sections 204.1 and 307 of the 2010
Standards”). This requirement protects persons who are blind or have low vision from being injured by bumping into a
protruding object that they cannot detect with a cane.

Although the LSC allows 6-inch projections, under the ADA, objects mounted above 27 inches and no more than 80 inches
high can only protrude a maximum of 4 inches into the corridor beyond a detectable surface mounted less than 27 inches
above the floor (except for certain handrails which may protrude up to 4-1/2“). See section 307 of the 2010 standards for
requirements for handrails and post-mounted objects. CMS intends to provide technical assistance regarding strategies for
how to avoid noncompliance with the ADA's protruding objects requirement, as well as how to modify non-compliant
protruding objects.”
Solution #1

Only Oval Brand extinguishers never protrude more than 4” when surface mounted!
Life Safety Q&A: Four-inch corridor projection

By Brad Keyes / Special to Healthcare Facilities Today
August 2, 2017

Q: With the adoption of the new 2012 Life Safety Code by CMS, we had a discussion about projections from the corridor wall. Since the LSC only allows projections to be 4 inches, the question that came up was in regards to fire extinguishers mounted to the wall and not recessed as they project out from the wall about 7 inches. Will we be required to recess them or will they be allowed? The same question was raised about wall mounted telephones?

A: Actually, the 2012 LSC allows a 6-inch projection into the corridor [see 19.2.3.4(4)], but CMS’ Final Rule published April 4, 2016 said they will enforce the more restrictive 4-inch maximum projection into the corridor, based on the Americans with Disabilities Act (ADA). For all healthcare facilities that receive Medicare & Medicaid funds, they must comply with CMS’ exception to the 2012 LSC.

To answer your question, there are no exceptions to the 4-inch maximum projection rule. So, anything projecting more than 4 inches into the corridor, including fire extinguishers and telephones, would likely be cited by a surveyor or inspector.

Brad Keyes, CHSP, is the owner of Keyes Life Safety Compliance, and his expertise is in the management of the Life Safety Program, including the Environment of Care and Emergency Management programs.
Solution #1

Only Oval Brand extinguishers never protrude more than 4” when surface mounted!
Compliance Options

Surface mount a low-profile fire extinguisher.

OR

Retrofit a recessed cabinet.
Compliance Options

Surface mount a low-profile fire extinguisher.
$289 MSRP

OR

Retrofit a recessed cabinet.
$500 to $750 each when installed into drywall.
$750 to $1,250 when installed into masonry
Compliance Options

Quick, easy, & dust-free

OR

Generates dust and clean-up.
Requires coordination of contractors
Need to find locations without conduit, pipe, or obstructions in walls to install.
What is the Cost of Non-Compliance?

In Nursing Homes:

• Fines for extinguisher and corridor projections can range from $150 to $10,050 per day until brought into compliance.

In all Other Healthcare Facilities

• Fix it within allotted time frame (often 45 days) once identified by either in-house staff, fire equipment inspection personnel, or Surveyor.

• If not fixed, receive a Provider Agreement Termination Letter which contains a deadline for remedial measures.

• Either fix it in the allotted timeframe or apply for a time extension by waiver.

• Still not fixed? Then get terminated by CMS.
We Also Found Another Solution
Problem #2

When installing standard, round 5 lb and 10 lb fire extinguishers into flush (recessed) fire extinguisher cabinets, walls must be framed deeper with either 6” or 8” studs.
Solution #2

Fully Recessed Cabinets Always Comply with 4” & 4-1/2” Projection Limits

Oval Brand fire extinguishers enable a fully recessed, flush door, fire-rated cabinet to fit into a standard 3-5/8” metal stud partition.

Fully recessed cabinets also receive much less damage over time from carts, gurneys, etc.
Solution #2

Fully recessed, non-fire-rated cabinets can now also fit into a standard 2-1/2” metal stud partitions and 6” masonry.

*Existing semi-recessed & surface mounted cabinets can now be easily retrofitted to fully recessed style cabinets.*

Oval Brand extinguishers are UL and ULC listed.
Solution #2

• Fully recessed, *non-fire-rated cabinets* can now fit into a standard 2-1/2” metal stud partitions and 6” masonry.

• Keeping walls at their standard depth saves a minimum of three square feet of usable space per Oval Brand fire extinguisher.


• Cabinets now available from Oval, JL Industries, and Strike First in a fully array of options.
We Also Hope to Reduce Broken Toes (and Lawsuits & Settlements)
Problem #3

Fire Extinguishers Fall on People!

Our Competitors’ Hooks
Solution #3

The Solution – The Patented Oval Button Hook
Solution #3

The Solution – The Oval Button Hook
(U.S. Patent No. D777,566)

Unlike our competitors’ standard hooks, Oval Brand extinguishers don’t easily dislodge and fall when bumped into.
MR Conditional Testing Complete

MRI SAFETY INFORMATION

MR CONDITIONAL

The Dry Chemical Fire Extinguishers, Models OVAL-10HABC and OVAL-10IABC, are MR Conditional. Testing demonstrated that each product can be used in the MRI environment according to the following condition:
- Static magnetic field of 3-Tesla or less

IMPORTANT NOTE: This fire extinguisher product is intended for use inside of the magnetic resonance imaging (MRI) environment (e.g., in the MR system room). However, it is not intended for use directly inside of the MR system (e.g., inside of the bore of the scanner), during the operation of the scanner (i.e., during an MRI procedure). As such, the assessment of MRI issues for this product entailed an assessment of translational attraction in relation to exposure to a 3-Tesla MR system, only.

Innovating Unparalleled Fire Protection Products
BIM Content / Specs / Design Tools

• Product information and files are hosted on Oval Brand website & BIMobject.
  – For both extinguishers and cabinets
    • Revit, SketchUp, and AutoCAD files
    • Specifications
    • Submittal Sheets
• Specifications are also available via Arcom® Product MasterSpec® and SpecAgent®.
• Need to calculate the minimum proper quantity of ABC fire extinguishers for your facility? Try our online fire extinguisher calculator.
American Innovation

Made in the USA from 85%+ domestic content

Assembled in Illinois

All components except for the powder are manufactured in the USA & Canada

Oval Brand’s patented innovations are defended by UPR technology
Tradeshow Schedule 2017

NAFED Las Vegas March 2 & 3
NAFED Cleveland May 4 & 5
AIA Expo in Orlando April 27, 28 & 29
NFPA Expo in Boston June 4, 5 & 6
ASHE Annual Conference in Indy August 7 & 8
Special Offers for Webinar Attendees

Free shipping & returns on initial orders of 1 to 6 extinguishers placed in the next 30 days. Try Oval extinguishers in your facility, and return them within 30 days at no cost if not completely satisfied.

Contact Oval direct for high volume discount pricing! We will fulfill the order with your local value-added Oval distributor!

Please contact our sales team at sales@ovalfireproducts.com

or

630.635.5000 x 1006
Thank You from the Entire Oval Brand Team!

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