

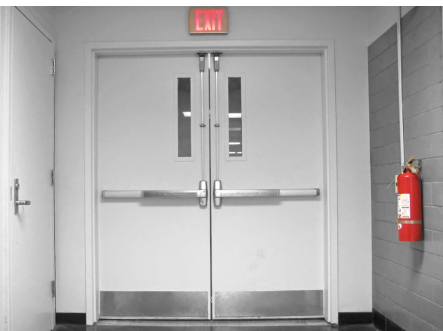


Fire Door Inspections, Repairs and Re-Labeling

INTRODUCTION

Now that the 2012 edition of the Life Safety Code has been adopted by the Centers for Medicare Services (CMS), the following accreditation organizations; The Joint Commission, AOA Healthcare Facilities Accreditation Program and Det Norske Veritas have also adopted the Life Safety Code 2012 edition. One of the most significant changes affects fire rated doors and the hardware on those doors. Healthcare organizations are now required to test and inspect all fire rated doors on an annual basis. This annual inspection requirement cannot be taken lightly; actual inspections must be performed by a qualified hospital employee that has an understanding of the operating components of fire rated doors or by a certified third-party life safety inspector. REMEDI8™ has developed services and repair products to assist hospitals and medical facilities with establishing a foundation to adhere to these new Life Safety Codes as it relates to inspecting, educating, and performing repairs/maintenance on fire rated doors. Fire Door Solutions has positioned itself as the leader in providing these services to ensure your fire doors are compliant with the new 2012 Life Safety Codes.

Healthcare organizations will be required to test and inspect all fire rated doors on an annual basis.



SOLUTIONS FOR BRINGING YOUR FACILITY'S FIRE RATED DOORS INTO COMPLIANCE

The initial step is to begin with a fire door inspection of all the fire rated doors designated on your facility's Life Safety plans. Upon the completion of the inspection, a complete inventory of the fire rated doors will be provided in a reporting method accepted by the Joint Commission, Authorities Having Jurisdiction (AHJ) and the Fire Marshal. In addition to the fire door inventory report, a separate deficiencies report will be provided listing all of the non-compliant fire rated doors with a recommendation of how to bring them into compliance. The deficiencies report generated will detail each of the repairs to be made to each fire rated door that are non-compliant.

The next step would be to do the necessary fire door repairs to bring them into compliance. Be aware that there are limited approved products on the market to repair the fire rated doors. If some of the fire doors cannot be repaired, then the fire doors will have to be replaced. A fire door repair report will be generated noting each fire door repair or replacement completed for each fire door opening. After the repairs are completed, the final step is to replace any missing or illegible fire door labels. A separate fire door re-labeling report will be provided noting each fire door or frame label that has been replaced.

Be aware that there are limited approved products on the market to repair the fire rated doors.



Fire Door Inspections, Repairs and Re-Labeling

Documentation is an important part of the Life Safety Code regarding fire door inspections, repairs and the relabeling process. REMEDIA8™ developed software to make the documentation process easier to manage and to comply with CMS, state, and local fire codes. Upon completion of this entire process, your facility will be provided the following reports regarding your fire doors:

- **Fire Door Inspection Report**
- **Fire Door Deficiency Report**
- **Fire Door Compliance Report**
- **Fire Door Field Re-Labeling Report**
- **Labeled Life Safety Plan**

FIRE DOOR INSPECTION SERVICES

Annual Fire Door Inspections – Fire rated doors are integral components of any passive fire-protection design in the health care environment. Without proper design specifications and comprehensive inspection and maintenance procedures, fire doors are significantly less likely to effectively protect the opening.

To protect against the spread of fire and smoke maintenance and engineering managers need to implement a preventive maintenance program for fire doors in accordance with locally adopted codes and national standards.

The NFPA claims failure to close is the most common failure mode of fire doors in actual fires. Contributing factors include: lack of maintenance; physical damage to the closure, door, guides, or tracks; and doorway blockages. Some common faults observed on swinging fire doors include inoperative latches and improperly adjusted closing devices.

The 2010 edition of the NFPA 80 mandates facilities to use only labeled fire doors, and a label must be affixed permanently to the door or frame. Doors, shutters, and windows must be operable at all times and kept closed and latched or arranged for automatic closing.

To minimize failures and improve reliability, NFPA 80 states, “Fire door assemblies shall be inspected and tested not less than annually, and a written record of the inspection shall be signed and kept for inspection by the Authority Having Jurisdiction (AHJ).”

REMEDIA8™ strictly follows the NFPA 80 guidelines for swinging doors with building hardware or fire door hardware, including visual inspections of fire doors covering both sides to assess the overall condition of the assembly. Our fire door assembly inspection service not only ensures that your facility’s fire rated doors operate properly.

Our inspections include the validation of the frame, hinges, bolts, locks, exit hardware as well as other components. We are committed to making fire door compliance easy for facility and engineering directors. As part of our fire door inspection services, we educate and train your personnel on factors which identify fire doors that might have the greatest potential for failure due to high use frequency.



Fire Door Inspections, Repairs and Re-Labeling

REMEDI8™ inspections verifies the following items:

1. No open holes or breaks exist in surfaces of the door or frame.
2. Glazing, vision light frames, and glazing beads are intact and securely fastened, if so equipped.
3. The door, frame, hinges, hardware, and non-combustible threshold are secured, aligned, and working, with no visible damage.
4. No parts are missing or broken.
5. Door clearances at the door edge to the frame on the pull side of the door do not exceed 1/8-inch or 3/4-inch undercut.
6. The self-closing device works; that is, the active door completely closes when operated from the full open position.
7. If a coordinator is in place, the inactive leaf closes before the active leaf.
8. Latching hardware operates and secures the door when it is in the closed position.
9. The door or frame has no auxiliary hardware items that interfere or prohibit operation.
10. The door assembly has no field modifications that void the label.
11. Inspections verify the integrity of gasketing and edge seals, where required.
12. Meeting edge protection, gasketing and edge seals, where required, are inspected to verify their presence and integrity.
13. Signage affixed to a door meets the requirements listed in 4.1.4.



Fire Door Repairs

Inspections are critical, but they are only the first step toward fire door compliance. REMEDI8™ offers an efficient and effective turnkey solution for both inspections and repairs. Our knowledge gained during the inspection process helps us estimate repairs quicker and more accurately and engineer more cost-effective solutions. Instead of having to study and translate someone else's work, REMEDI8™ can immediately begin repair work and get you to full compliance quicker and for less money.

REMEDI8™ Technicians are trained to repair door deficiencies first; not replace items unless necessary for compliance to NFPA 80. We can order parts or use parts out of your inventory, further reducing your cost of repairs.

Our REMEDI8™ Caulk, Gap Gauges, Thru-bolts, and Shims are used to repair the following list of deficiencies. Any tools and supplies remaining from this REMEDI8™ Repair Kit are left for you to use in case a between-inspection repair needs to be made by your facilities team. Of course, REMEDI8™ is at your service if you prefer, we do interim repairs as the need arises.

Ensure nothing is lost in translation between companies and leverage the knowledge gained by our Inspection Team. Let REMEDI8™ get your fire doors into full compliance, quickly! REMEDI8™ – compliance made easy.

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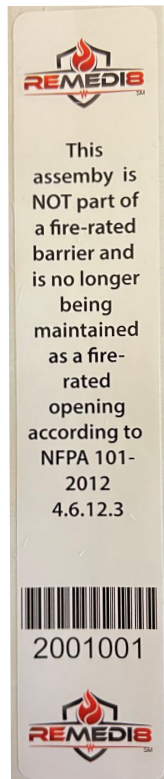


Fire Door Inspections, Repairs and Re-Labeling

Fire Door, Frame and Fire Exit Hardware Field Re-Labeling

The purpose of the fire door, frame and fire exit hardware label is to document and signify to building owners and AHJ that the opening meets the stated fire resistance rating. Missing, damaged or painted fire door frame, and exit device labels are often a common deficiency encountered during an inspection of the fire door assemblies. A qualified field re-labeling service helps you avoid removal and replacement of unlabeled fire doors frames and exit devices. REMEDI8™ understands the regional codes and specifications you need to meet, and we are committed to keeping your fire doors in compliance.

Our inspectors will conduct a comprehensive review of all the fire door components in question and provide a deficiency report upon completion of the inspection. REMEDI8™ will recommend solutions regarding the needed modifications and corrections. Upon the completion of the modifications and corrections, our re-label technicians will evaluate the fire doors for the placement of the certification labels. The proper re-labeling of fire door assemblies is a vital part of life safety. The use of approved third party agencies to perform field re-labeling for fire doors and frames is often a cost-effective alternative to replacing non-complaint components while ensuring the integrity of the opening.





Fire Damper Inspection and Repairs

Fire Damper Services

Fire and Smoke Damper Inspection – Fire and smoke damper inspections are critical to ensure the safety of the lives within your care. When a fire or smoke emergency strikes, dampers provide critical protection by constricting the flow of air a fire can use as fuel, and by mitigating the spread of smoke to areas away from the fire source, limiting damage to facilities, and danger to personnel and clientele. Inspections are required one year after new installations and then 4-6 years thereafter to ensure proper operation and function.

REMEDIS™ will follow your life safety plans to locate and label all fire and smoke dampers. We will label ceiling grids, with a concern for aesthetics, just below where dampers are located so that AHJ's or your building maintenance team can locate them easily for testing or maintenance.

Our professional Damper Inspectors will test the actuation of every manual, mechanical, pneumatic, and electric damper and recommend ways in which actuation and testing can be made more efficient to ensure the safety of personnel, reduce the costs of future inspections, and protect the lives of others. We will label each damper with a unique bar code. In this way, all inspection and repair activities and related notes are stored in our cloud database for future reference and retrieval by simply using a tablet to scan the barcode.



Fire and Smoke Damper Repair – Though only required to be inspected every 4-6 years, the damage inoperable dampers can cause in a fire emergency can be catastrophic. With all the above ceiling pipes, vents, and cabling, access to dampers can impair required actuation and may require new access doors to be installed before testing electronic actuators, pneumatics, and fusible links. Proper infection control when working above -ceiling, leading tablet software for capturing damper assets and their location above ceiling, and best-in-industry reporting for internal compliance teams and external surveyors make REMEDIS™ your choice for damper repairs.

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Fire & Smoke Barrier Inspections and Repairs

Fire Stopping

With the constant expansion and upgrade of hospitals and the frequent enhancement of technology throughout their facilities, hospitals leave themselves exposed with non-compliant holes and barrier penetrations that can lead to both infectious and smoke/fire risks. REMEDIA8™ can assess, inspect, repair, report-on, and design solutions to minimize smoke and fire barrier deficiencies. This is part of REMEDIA8™'s turn-key service and commitment to **making compliance easy**.

REMEDIA8™ can participate in the design and provide advice on planned barrier walls pre-construction and can provide post-construction inspections for compliance to life safety codes. When a Joint Commission visit is pending, call us to mitigate any risks of non-compliance with fire/smoke barriers.

Our complete inspections will provide the Facility Director with specific visual evidence of deficiencies, whether fire-stopping, wall assemblies, open junction boxes, or untreated breaches and penetrations above the ceiling. Our services include:

- Budgeting for scope and schedule of repair activities post-inspection
- Repairs to get the facility into compliance with life safety codes
- Properly labeled and marked life safety plans
- Critical area review and related training for facility operations staff or vendors





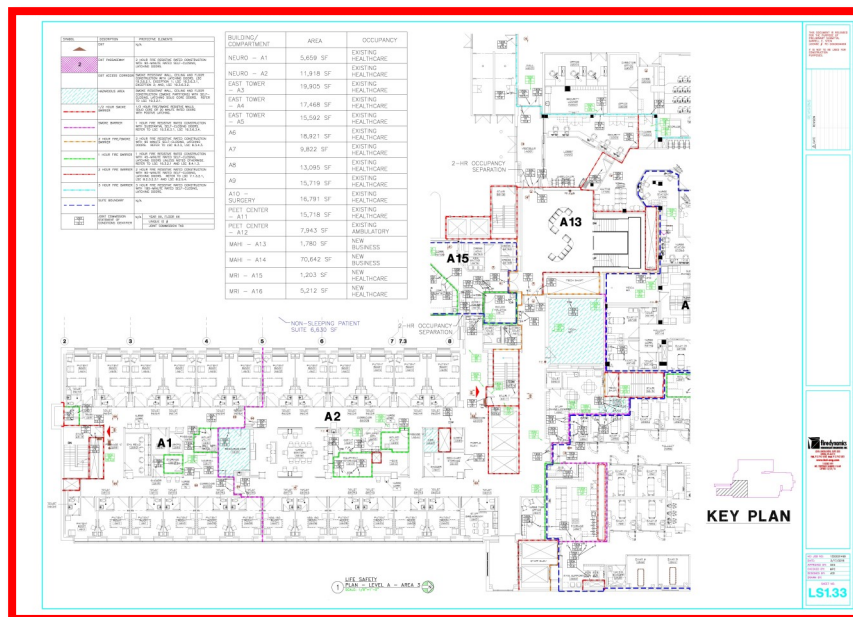
Life Safety Prints Design/Update

Life Safety Prints

With the CMS adoption of the 2012 Life Safety Code, having your life safety assets and life safety plans in good order has never been more important. Authorities Having Jurisdiction (AHJ's) are holding Facility Directors accountable for knowing the status of their life safety assets, the status and resolution of identified deficiencies, and the adequate documentation of both.

REMEDIA8™ offers original and updated Life Safety Prints, Life Safety Surveys to assess the status of a client's life safety preparedness. Life Safety Surveys include the assessment of everything from fire-rated construction (above the ceiling), exit signage, emergency lighting, all fire/smoke doors, sprinkler protection fire alarm systems and any other life safety assets subject to AHJ surveys. Confusing, conflicting, or incomplete drawings are a scorable item during accreditation surveys.

Our expert knowledge of the Life Safety Codes assists clients with establishing a baseline for measuring Life Safety compliance progress, and well as offers the opportunity for educating facility personnel on the key code sections and requirements that can make the difference toward a positive outcome during an AHJ survey. Our presence nationwide makes access to you and availability quick and efficient.





Fire Door Repair Products

APPROVED FIRE DOOR REPAIR PRODUCTS

Fire Door Caulk - Fire Door Caulk is the only tested and approved filler material for filling voids and through penetrations for wooden fire-rated doors. Fire Door Caulk can be used for holes or through penetrations up to 3/4" in wood doors rated up to 90 minutes. Using any other type of material in your doors can void your labeled assembly.

Fire Door Thru-Bolt - The Fire Door Thru-Bolts are used for holes in steel hollow or wooden solid core fire rated doors. The Thru-Bolt is an aesthetically pleasing solution compared to unsightly normal bolts. The Fire Door Thru-Bolt is a simple male and female type application that is available in 1/4" and 1/2" widths for both 1-3/4" and 2" fire rated doors. The Fire Door Thru-Bolt meets the NFPA 80 5.2.15.4 requirements to protect your UL Label.

Fire Door Gap Gauge - The Fire Door Gap Gauge is a simple tool used by fire door industry inspectors to measure clearance requirements per NFPA 80. Clearance requirements are the most recognized issue for fire door deficiencies. The Fire Door Gap Gauge will speed up your fire door inspections, is more accurate than a tape measure, and is compact and easy to use. The Fire Door Gap Gauge is too valuable to do without.

Fire Door Shims - During fire door inspections, clearance issues generally are one of the major noncompliant deficiencies that a facility has to address. Our Fire Door Shims are removable, restickable and stackable. Simply place them behind the hinge to push door towards the strike or to pull away from strike. Doors can be shimmed in less than a minute. Our Fire Door Shims are only 1/16" thick and can be applied to any fire rated door.



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