

MSA FACILITIES SAFETY AND HEALTH INSPECTION PROGRAM

Fixed Stairways, Landings, and Ramps



Fixed Stairways, Landings, and Ramps

At the completion of this unit you shall be able to:

1. Utilize section G of the Safety and Health Hazard Inspection Program Checklist to identify compliant and non-compliant safety behaviors.
2. Identify areas of concern requiring immediate action to mitigate or prevent a possible injury.

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Fixed Stairways, Landings, and Ramps

- Section G of the checklist contains up to 4 items. Let's take a closer look at these.

MSA GENERAL INDUSTRY-BASED SAFETY AND HEALTH HAZARD INSPECTION CHECKLIST

| No. | Inspection Observations | Compliant? | See Comments (indicate with X) |
|--|--|------------|-----------------------------------|
| | | Y•N•N/A | |
| 4 | Materials stored in cabinets and book cases such that the heavier materials are closest to the floor. | | |
| 5 | Adequate space for egress (28") from behind desk to exit. | | |
| 6 | No burrs or sharp edges on office equipment or furnishings. | | |
| 7 | Cords and cables properly routed to prevent tripping hazard. | | |
| 8 | Sharp objects properly stored. | | |
| 9 | Other | | |
| E REQUIRED SAFETY POSTINGS (Main Administrative Buildings Only) | | | |
| 1 | Approved DOE OSHA poster informing employees of the Department of Energy OSHA Act protections and obligations is posted. | | |
| 2 | Worker Bill of Rights document is posted. *** | | |
| 3 | Master Safety Rules document is posted. *** | | |
| 4 | Stop Work Responsibility document is posted. *** | | |
| 5 | Building emergency plan is posted and current | | |
| 6 | Other. | | |
| F HOUSEKEEPING | | | |
| 1 | Employees maintain floors clean, dry, with no slippery areas. | | |
| 2 | Employees maintain aisles and passageways unobstructed. | | |
| 3 | Employees are using material control practices to keep work areas in safe configuration. | | |
| 4 | Work area lighting appears adequate. | | |
| 5 | Floor loading limits posted or understood and are not exceeded for material storage on structurally supported surfaces. | | |
| 6 | Employees control combustibles in work area. (Combustibles are not collected/stored under horizontal surfaces that cannot be reached by sprinkler heads) | | |
| 7 | Recycling containers are present, used and emptied on a regular basis. | | |
| 8 | Other. | | |
| G FIXED STAIRWAYS, LANDINGS, and RAMPs | | | |
| 1 | Stairs unobstructed and in good repair. | | |
| 2 | Railings and handrails provided on open sides and properly maintained. | | |
| 3 | Riser height is uniform and steps/landings are slip resistant. | | |
| 4 | Other. | | |
| H PORTABLE and FIXED LADDERS | | | |
| 1 | Portable and fixed ladders are inspected and maintained in safe condition. | | |
| 2 | Defective ladders are removed from service. | | |
| 3 | Ladder rungs are clean and free from oils, mud, and grease. | | |

Fixed Stairways, Landings, and Ramps

1. Stairs unobstructed and in good repair.
2. Railings and handrails provided on open sides and properly maintained.
3. Riser height is uniform and steps/landings are slip resistant.
4. Other.

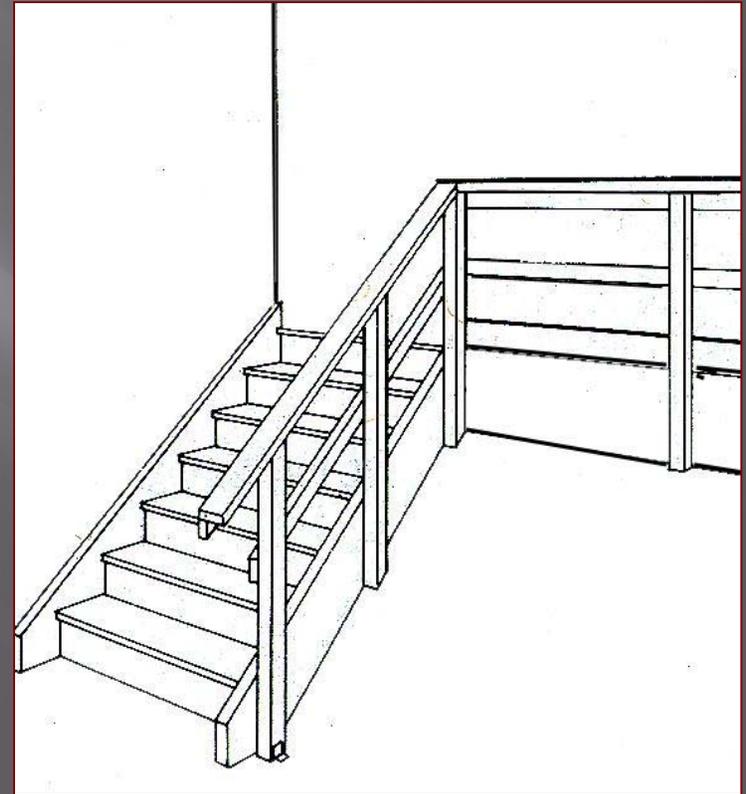
Fixed Stairways, Landings, and Ramps

1. Stairs unobstructed and in good repair.
- Materials on stairs can create a tripping hazard for personnel using them.



Fixed Stairways, Landings, and Ramps

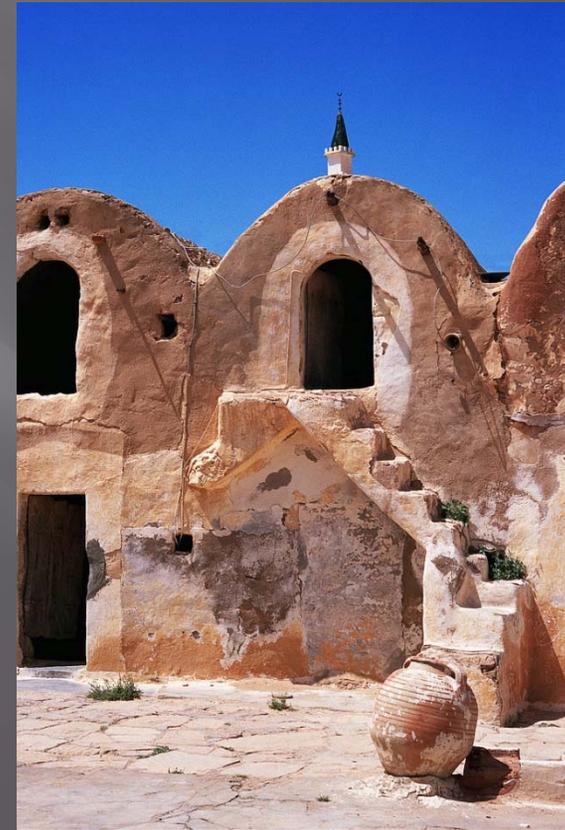
1. Stairs unobstructed and in good repair.
 - ▣ A compliant rating would indicate that all stairways in the facility were clear and in good repair.



Fixed Stairways, Landings, and Ramps

1. Stairs unobstructed and in good repair.

- ▣ A rating of non compliant would indicate that the stairs had issues. Along with a noncompliant rating you would need to ensure that a comment was included.



Fixed Stairways, Landings, and Ramps

2. Railings and handrails provided on open sides and properly maintained.
 - ▣ A compliant rating would indicate that the railings and handrails were in place and in good repair.



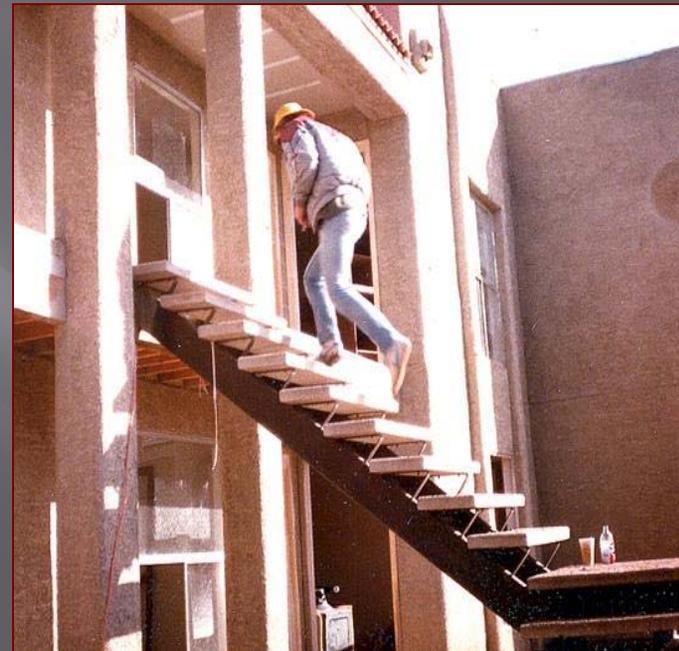
Fixed Stairways, Landings, and Ramps

2. Railings and handrails provided on open sides and properly maintained.
 - ▣ Stair rails are required on all open sides of fixed stairways if the stairs have 4 or more risers or if the height of the stairs is more than 30 inches.



Fixed Stairways, Landings, and Ramps

2. Railings and handrails provided on open sides and properly maintained.
 - ▣ A rating of non compliant would indicate that the railings and handrails were missing or damaged and not providing adequate protection to employees.



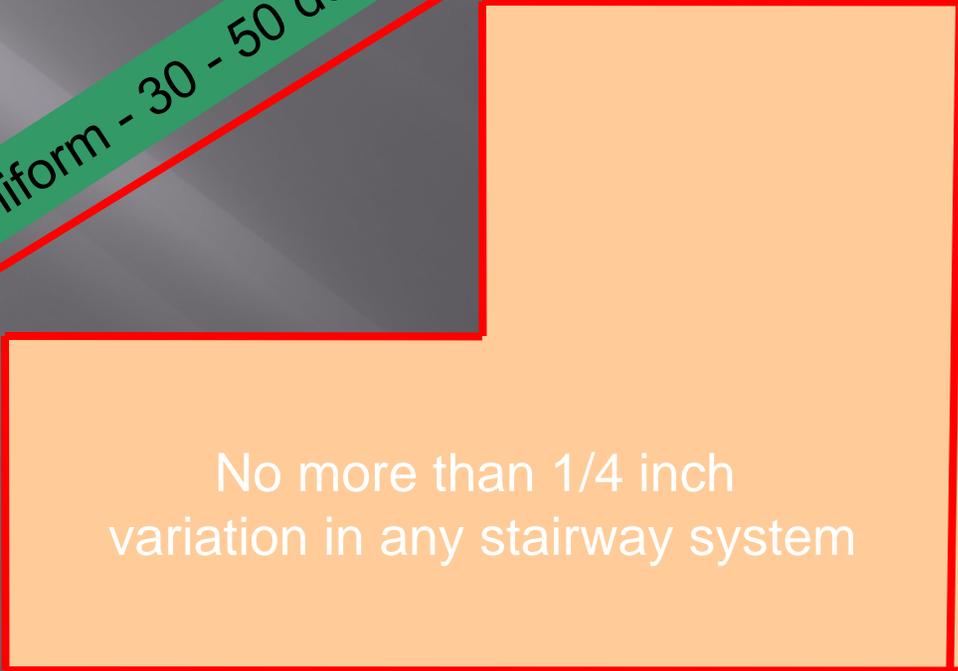
Fixed Stairways, Landings, and Ramps

3. Riser height is uniform and steps/landings are slip resistant.

- The steps of a stairway must be uniform in height (the rise) and depth (the run). It is allowable for a $\frac{1}{4}$ " difference maximum.
- The stairway must also be at an angle of 30 to 50 degrees.



Uniform - 30 - 50 deg. angle



No more than 1/4 inch variation in any stairway system

Fixed Stairways, Landings, and Ramps

3. Riser height is uniform and steps/landings are slip resistant.

•As an example this is from the OSHA standard and gives you the rise and run that will provide you with this angle. These are not the only numbers that can be used.

Table D-1

| Angle to horizontal | Rise (in inches) | Tread run (in inches) |
|---------------------|------------------|-----------------------|
| 30 deg. 35' | 6 1/2 | 11 |
| 32 deg. 08' | 6 3/4 | 10 3/4 |
| 33 deg. 41' | 7 | 10 1/2 |
| 35 deg. 16' | 7 1/4 | 10 1/4 |
| 36 deg. 52' | 7 1/2 | 10 |
| 38 deg. 29' | 7 3/4 | 9 3/4 |
| 40 deg. 08' | 8 | 9 1/2 |
| 41 deg. 44' | 8 1/4 | 9 1/4 |
| 43 deg. 22' | 8 1/2 | 9 |
| 45 deg. 00' | 8 3/4 | 8 3/4 |
| 46 deg. 38' | 9 | 8 1/2 |
| 48 deg. 16' | 9 1/4 | 8 1/4 |
| 49 deg. 54' | 9 1/2 | 8 |

Fixed Stairways, Landings, and Ramps

3. Riser height is uniform and steps/landings are slip resistant.
- A compliant rating would indicate that the condition of the steps, the tread, and the angle was correct and safe to be used.



Fixed Stairways, Landings, and Ramps

3. Riser height is uniform and steps/landings are slip resistant.

- A rating of non compliant would indicate that the condition of the steps, the tread, or the angle was incorrect and not safe to be used.



Fixed Stairways, Landings, and Ramps

- If at any time you have any questions about how to fill out the form or about the items on the form please contact your project safety group.

**MSA GENERAL INDUSTRY-BASED SAFETY AND HEALTH
HAZARD INSPECTION CHECKLIST**

| | | | |
|----------------------------|--------------------------|--|--|
| Facility: | Facility Representative: | | |
| Date: | Team Member: | | |
| Total Items Reviewed: | Team Member: | | |
| Total Non-Compliant Items: | Team Member: | | |

| No. | Inspection Observations | Compliant? | See Comments (indicate with X) |
|----------|---|------------|-----------------------------------|
| | | Y•N•N/A | |
| A | FIRE PROTECTION INSPECTION <i>(All issues must be observed as applicable see note 2)</i> | | |
| 1 | Emergency Lights - Each unit must be operable when tested. | | |
| 2 | Portable Fire Extinguishers (PFE) - Each unit is properly mounted, an inspection tag is in place and reflects through previous month, the pressure gauge is in the "green" zone (where applicable). | | |
| 3 | PFE is not obstructed, is visible, and the seal is not broken. | | |
| 4 | Sprinkler Clearance - Clearance between the sprinkler deflector and the top of any storage is 18 inches or greater. | | |
| 5 | Fire Riser Pressure Gauge Inspection - Inspect gauges to verify pressure to the building and pressure held in the fire system. Typically both gauges will have similar pressure readings. | | |
| 6 | Fire Risers - Access to fire system sprinkler risers and other system components must be unobstructed. | | |
| 7 | Fire Riser Valve Inspection - Check all seals, position and supervision for broken seals or possible tampering. | | |
| 8 | Post Indicating Valve Inspection - This valve will be located outside of the facility. It must be verified that the window on the side of the valve reads "OPEN". | | |
| 9 | Exit Signs - Exit signs with an internal lighting source must be checked to ensure all lamps are functional. - Exit signs that use Tritium must be observed that they have not been damaged, all applicable labels are present, the sign has not expired, and it is not covered with another sign. | | |
| 10 | Fire Doors - Identify that fire doors operate freely and latch securely upon closure. Fire doors must not be propped open. | | |
| 11 | Ceiling Tiles - Where automatic sprinklers are installed drop ceiling tiles are in place. Missing tiles slow response of fire suppression sprinklers. | | |
| 12 | Manual alarm stations are easily identified and readily accessible. | | |
| 13 | Other. | | |
| B | GENERAL SAFE BEHAVIORS | | |
| 1 | Employees are taking the necessary safety precautions for the work being performed. | | |
| 2 | Work is being performed such that collocated employees in the area are not exposed to occupational hazards or unsafe conditions. | | |

1 A-6004-299 (REV 2)

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Thank you for your time
and desire to help us have
a safer workplace