

*Safety Depends On Us*

## **FALL PROTECTION**

**The Deatherage Companies has adopted the “6 FOOT RULE”; which translates to any task on any project which requires the employee to work 6 feet or above on any given floor or ground level shall have some means of fall protection.**

### **TYPES OF FALL PROTECTION AND REQUIREMENTS**

#### **GUARD RAILS**

##### **Installation and Maintenance**

1. Subcontractors shall plan ahead for the prompt installation and maintenance of guarding as required in these requirements.
2. Subcontractors shall assign responsibilities for the installation and maintenance of guarding to the appropriate parties and enforce their compliance with these requirements.
3. Subcontractors shall provide for daily inspection of all areas where guarding is in place or may be required. He shall place particular emphasis on areas of high activity or rapidly changing conditions where the need for installation and maintenance may be most critical, and issue instructions for prompt corrections to guarding deficiencies found.
4. Subcontractors shall see that the design and installation of guarding is readily adaptable to the type of work to be performed in the guarded areas. The guarding shall facilitate removal and replacement where required, be readily maintainable, and provide maximum protection for employees engaged in the work.

5. Where guarding must be removed to facilitate the work in progress, the guarding shall be replaced in original condition upon completion of the work and the unguarded area shall not be left unattended until the guarding is replaced. Subcontractors shall enforce this requirement with the responsible parties.

## **GUARDING REQUIREMENTS**

1. Every open sided floor, balcony, mezzanine, platform or work surface **6 feet or more** above adjacent floor or ground level shall be guarded with a standard guardrail system.

2. Every floor opening measuring more than **2 inches** in its least dimension in any floor, roof or platform shall be guarded with a cover or a standard guardrail system.

3. Every stairway opening, ladder opening or ladder platform shall be guarded on all exposed sides with a standard guardrail system.

4. Every opening for manholes, pits, hatches, trapdoors, chutes, and skylights shall be guarded with a cover or standard guardrail system.

5. Every wall opening from which there is a drop of more than 6 feet above the floor shall be guarded with a standard guardrail.

6. Every extension platform outside an open floor or wall opening shall be guarded on all open sides with a standard guardrail.

7. Every ramp or runway 4 feet or more above the floor or ground level shall be guarded on all open sides with a standard guardrail.

8. The above guarding requirements are applicable to the completed sides and openings of decks and concrete formwork of all types. Perimeter guarding of formwork shall be installed as completed sides of the formwork are developed.

9. On temporary planked floors or temporary metal-decked floors, a single safety railing of wire rope cable installed approximately 42 inches above the floor, shall guard the periphery of the floor. Perimeter cable shall be installed as completed sides of the floor are developed.

10. Temporary planked or temporary metal-decked floors shall be covered over the entire surface. All unused openings shall be covered with plank or metal deck secured against accidental displacement.

11. The uncompleted or leading edge of any temporary floor whether of planking, metal deck or concrete formwork shall not be left unguarded or unattended for extended periods of time due to delay or interruption of the completed installation, in such cases, access to the open end of the floor shall be closed to employees by wire rope cable or barricading off the floor at least 10 feet back from the open end of the floor.

12. Where subcontractors install guarding on floors under their control, such guarding may be left in place to service the long-term needs for guarding of the project, providing that it meet all of the requirements of this Section of the Manual.

## **GUARDING STAIRWAYS**

1. Every flight of stairs having four (4) or more risers shall be equipped with stair railings or handrails as specified below:

a. A stair railing on each open side of the stairway.

b. Enclosed stairways less than 44 inches wide shall have at least one handrail. Enclosed stairways more than 44 inches wide shall have a handrail on each side.

2. Risers and treads on temporary stairs shall be of uniform height and width.

3. Permanent steel or metal stairways and landings with hollow pan type treads that are to be filled with concrete or other materials, when used during construction, shall be filled to the level of the nosing with solid materials.

## **GUARDING SPECIFICATIONS**

1. A standard guardrail shall consist of a top rail approximately 42 inches high, intermediate rail halfway between the floor and top rail, toe board, and posts.

2. For wood railings, the posts shall be of at least 2"x 4" spaced not to exceed 8 feet; the top rail shall be of at least 2" x 4"; the intermediate rail shall be of at least 1" x 4".

3. A standard toe board shall be 4 inches minimum height, and shall be securely fastened in place with not more than 1/4 inch clearance above floor level. It may be of any substantial material, either solid or with openings not more than over 1 inch in greatest dimension.

4. For pipe railings, posts, top and intermediate railings shall be at least 1 1/4 inches in diameter with posts spaced not more than 8 feet on center.

5. For structural steel railings, posts, top and intermediate railings shall withstand 200 lbs of force from any direction, with posts spaced not more than 8 feet on center.

6. For wire rope cable railing, top and intermediate railings, posts are not required providing that both rails do not sag more than 3 inches between attachment points and are capable of withstanding a load of 200 pounds applied in any direction at any point on the rails, with a minimum of deflection.

7. A stair railing and handrail shall be constructed similar to a guard rail but the vertical height shall be not more than 34 inches or less than 30 inches from the top of the riser.

8. The anchoring of posts, framing, and attachments for members of railings of all types shall be of such construction that the completed structures shall be capable of withstanding a load of 200 pounds applied in any direction at any point on the