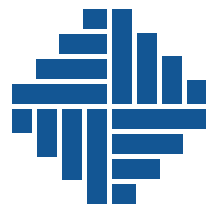
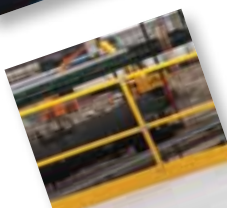


Application Showcase



***DIVERSIFIED FALL
PROTECTION***

LIFE MATTERS™





Diversified Fall Protection is an international engineering firm specializing in the design, development, and manufacture of highly engineered fall protection systems; a fall protection system is an engineered solution that keeps workers safe while working at heights. Since 1994, Diversified Fall Protection (DFP) has upheld its Life Matters™ promise by preventing the most common cause of work-related injuries by installing thousands of OSHA-compliant fall protection systems.

From our headquarters in Cleveland Ohio with offices in Florida and North Carolina, Diversified Fall Protection provides the expert knowledge and reliable resources to keep employees safe and organizations operating within federal regulation. For this and other information, discover more at www.FallProtect.com and purchase our guardrail online at www.PortableGuardrail.com.

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Search by Industry or Product

| | | Horizontal Lifelines Gallows Rigid Rail Guardrail Vertical Lifelines Rooftop Lifelines Access Platforms Transportable Rooftop Walkways, Stairs & Gangways Articulating Jib Systems Single Point Anchors Related Products | | | | | | | | | | | |
|-------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|
| | Page | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| INDUSTRIAL | | | | | | | | | | | | | |
| Automotive | | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Billboards | | ✓ | | | ✓ | ✓ | | | | | | ✓ | |
| Crane and Crane Rail | | ✓ | | | ✓ | | | | | | ✓ | ✓ | |
| General Industry | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Paint and Blast Booth | | ✓ | | ✓ | | | | ✓ | | | | ✓ | |
| Pulp and Paper | | ✓ | | ✓ | | | | ✓ | | | | ✓ | |
| Silos and Towers | | | | | | ✓ | | ✓ | | | | ✓ | |
| Warehousing and Conveyor | | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | |
| Window Washing | | ✓ | | | | | ✓ | | | | | ✓ | |
| OIL, GAS AND CHEMICAL | | | | | | | | | | | | | |
| Offshore and Oil Rigs | | ✓ | | ✓ | | ✓ | | ✓ | | | | ✓ | |
| Chemical and Petrochemical | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Refinery | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Silos and Towers | | ✓ | | | | ✓ | | | | | | ✓ | |
| UTILITIES AND ENERGY | | | | | | | | | | | | | |
| Hydroelectric | | ✓ | | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| Nuclear Energy | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power Transmission | | | | | | | | ✓ | ✓ | | | ✓ | |
| Solar Energy | | ✓ | | | | | | ✓ | | | | ✓ | ✓ |
| Water Tower | | | | | | ✓ | | | | | | ✓ | |
| Water Treatment | | | | | | | | ✓ | ✓ | | | ✓ | ✓ |
| Wind Energy | | | | | | ✓ | | ✓ | | | | ✓ | |
| AGRICULTURE & MINING | | | | | | | | | | | | | |
| Mining | | | | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | |
| Railcar Loading and Unloading | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | |
| Silos and Towers | | | | | | ✓ | | | | | | ✓ | |
| Truck Loading and Unloading | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | | |
| AIRCRAFT & AEROSPACE | | | | | | | | | | | | | |
| Aircraft Hangers | | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Aerospace | | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| ROAD AND RAIL | | | | | | | | | | | | | |
| Department of Transportation | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Railcar | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | |
| Regional Transit | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Ship and Barge | | ✓ | ✓ | ✓ | | | | ✓ | | | | ✓ | |
| Truck | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | |
| RECREATION | | | | | | | | | | | | | |
| Stadiums Arenas, Convention Centers | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| Theatres | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| Theme Parks | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| CONSTRUCTION | | | | | | | | | | | | | |
| Rooftop (Renovation) | | | | | ✓ | | ✓ | | | ✓ | | ✓ | ✓ |
| Rooftop (New Construction) | | | | | ✓ | | ✓ | | | ✓ | | ✓ | ✓ |
| Healthcare and Education | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Hospitals and, Medical Centers | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |

Horizontal Lifelines

Horizontal Lifeline Systems offer extensive flexibility over a wide range of fall protection hazards including rooftop, crane rail, and overhead applications.

Consisting of stainless steel cable attached to two end anchors with pass through intermediate brackets and used with personal protective equipment, a Horizontal Lifeline System can serve as either a fall arrest or fall restraint system.

- Greater Flexibility to meet your specific fall protection requirements
- Hands free travel along the entire length of system
- Stainless steel components for corrosion resistance





Above shows a lifeline system designed specifically for Silo applications.

Left highlights the "pass-through" design of the intermediate bracket of our lifeline systems.

Below shows a great depiction of a non OSHA approved system versus an engineered system.

Notice the sag in the cable at the bottom of the photo (non-engineered) versus the tensioned lifelines at the top of the photo (engineered).



Gallows

Gallows systems are used most often in outdoor applications that work with Trucking and Rail. Gallows systems always utilize overhead fall protection which reduces the fall distance since the anchorage is above the worker. Depending on the level of the working surface, gallows systems can be either rigid or lifeline systems.

- Rigid or Lifeline styles
- Gallows come in "L", "T", or "U" configurations
- Dual Track option for bypass capability





There are two very important design considerations when determining your gallows system. The height of your railcars or trucks establishes your fall clearance, this in turn determines if a rigid or cable system can be used. Also, it is important to know the soil compaction around your tracks so the foundations of the gallows can be designed correctly.



Rigid Rail

Rigid Rail systems are typically in any application where workers have a very limited fall clearance available. Where Lifeline systems, have deflection in the event of a fall which increases the total fall distance required, rigid rail systems, have little to no deflection giving the worker a safe fall distance in the event of a fall.

- Reduced Fall Distance Versus a Lifeline
- Better Suited for Multiple Users
- Dual Track option for bypass capability





When considering a rigid rail fall protection system, total working height is always the most important design consideration. It is imperative that the system can arrest a fall before a worker can come into contact with structure (e.g., equipment, support beams, pipes, floor) below the working surface. It is also important to take into account the total number of users connected to the system, and whether by-pass capability is required for workers to complete routine tasks or to perform basic job duties.



Guardrail



Care must be taken when specifying weighted base guardrail systems to consider loads applied to the deck. Regardless of location or mounting style, the top rail must be rated to withstand a force of at least 200lbs; the mid-rail must be rated at 150lbs. DFP can also make custom guardrail as shown in the photo to the left. The round guardrail was bent to match the radius of the tank.



Guardrail systems provide simple and easy-to-use leading edge fall protection for a variety of applications, including rooftops, mezzanines, stairs, access platforms, gangways, and loading docks just to name a few. From freestanding safety railing systems to permanent installations, the safety engineers at DFP can recommend a guardrail solution that will keep your employees safe and your facility in compliance with all OSHA fall protection regulations.

- Non Roof Penetrating or Fixed Mount Options
- Multiple Colors Available
- Lightest Base Plate on the Market



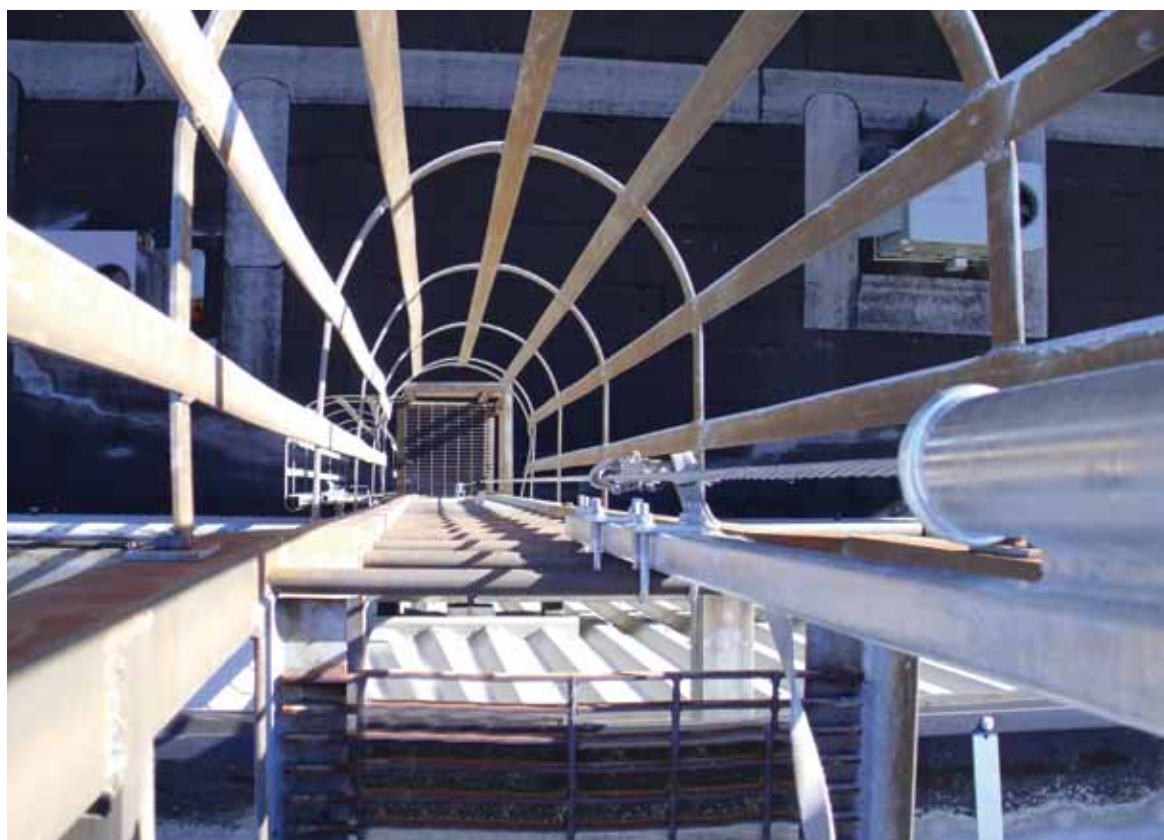


Whether your facility uses permanent ladder systems, portable ladders, or a combination of both, DFP fall protection engineers can help identify your ladder fall hazards, make specific recommendations to increase the safety of your ladder systems, and implement a safety and training program to ensure worker safety and OSHA compliance.



Vertical Lifeline Systems allows movement up and down the entire height of the line, eliminating the need to disconnect and find new tie-off points while ascending or descending from applications like a tower or ladder. By connecting to the vertical lifeline using a deceleration device, users may move as long as tension is slack on the lifeline.

- Greater security when climbing ladders
- Provides greater fall protection than cages
- Attachments to many forms of ladder rungs available



Rooftop Lifelines

Rooftop Lifelines are one of the most common types of fall protection systems. Many different occupations need to access roofs to do their specific job, and they all need to be protected. The versatility of rooftop lifelines allows for solutions on many different types of roofs.

- Flat or Sloped roof applications
- Built-up insulation, metal deck, standing seam, concrete roofs
- Tip-over or rigid post design

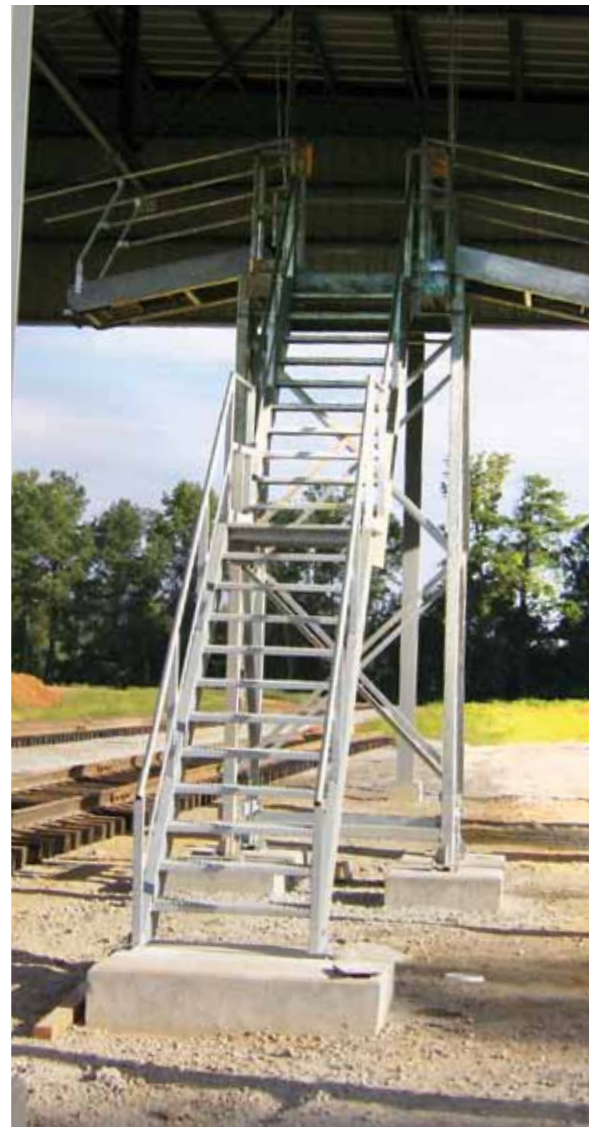




The slope and the construction of your roof are the two factors when determining your rooftop lifeline. No matter the style, all DFP lifelines are a continuous pass-through system that allow workers to travel the entire system length without disconnecting.



Access Platforms, Stairs, and Gangways



Access platform designs range from single station installations to complex, multi-unit systems. For loading and unloading applications, the access platform's height must allow sufficient clearance for railcars, tankers, and trucks commonly serviced."



Whether your employees need access to the top of a railcar or truck, monitoring station, or overhead equipment requiring maintenance, access platforms equipped with stairs, guardrails, stairs and a gangway system offer OSHA compliant fall protection that maximizes worker productivity. Access platforms, stairs, and gangways are simple, easy-to-use passive fall restraint systems designed to prevent slips and accidents before they happen.

- Can eliminate the need for workers to tie off
- Indoor and Outdoor applications
- Single or Multi Unit Systems





The Transportable Fall Protection offers fall protection solutions where a permanent system is simply not possible. Used indoor and outdoor in the field on mobile equipment, there are many different styles to meet your specific needs.

- Portability allows for use in multiple applications
- Lightweight designs allow for easy maneuverability
- Indoor and outdoor use

Offering both pre-engineered and custom-designed fall protection solutions, our OSHA-compliant Transportable Fall Protection is ideal for applications requiring a mobile solution due to location, lack of or limited overhead structure, or the need for multiple location usage which removes the need for permanent options.



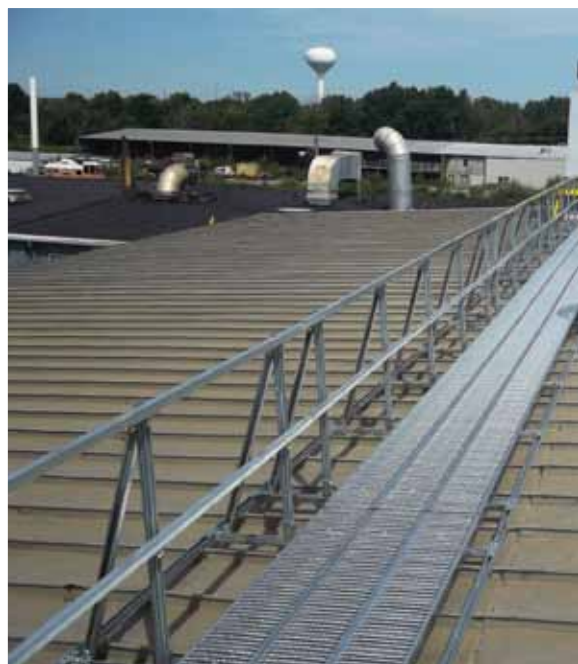
Rooftop Walkways and Crossovers



Resisting outdoor conditions in galvanized steel or aluminum finish and attaching to a variety of roof types, Rooftop Walkways and Crossovers are available factory-assembled or assembled on-site and these OSHA-compliant systems are ideal for most rooftop maintenance activities or traffic.

Roof top walkway systems, work platforms, and crossover platforms offer a solution to rooftop damage caused by foot traffic and the installation of heavy equipment. On membrane, built-up, foam and coated roofs, roof top walkway systems and roof top work platforms protect against puncture, abrasion and wear along with providing a safe, clearly defined, anti-skid walking surface.

- Provide a safe walkway for rooftop traffic
- Do not penetrate roof surface
- Protect the roof from foot traffic



Articulating Jib Systems



For articulating jib systems, one of the most important design considerations is assessing the total coverage area that will need fall protection to protect workers as they perform routine maintenance and daily job duties. The number of users and the potential need for by-pass capability is also an important factor when developing system specification and design features.



Jib Arm Systems are ideal for crane bay applications where fall protection is needed but could cause interference with day to day crane operations. The articulating feature allows the systems to be moved out of the way when not in use. The rigid style of these systems also reduces total fall distance.

- Fold away ability eliminates interference with cranes or other moving equipment
- Minimal system deflection leads to faster fall arrest
- Can be a single arm or a trolley beam style
- Dual Track option for bypass capability



Single Point Anchors

From rooftop tip over posts to specialty vacuum anchors, we offer a wide range of single point anchors (SPA) to meet the needs of different industries and applications. Single point anchors are cost effective and easy to use, making them an ideal fall protection solution for clearly designated work areas in which a wide range of motion is not required.

- Typically Rated for One User
- Customs Designs to Meet Your Needs
- Multiple finishes available

Non-engineered single point anchors must be rated at 5,000 for one user or 10,000lbs for two users. DFP's Engineered anchors are designed for 2 times the applied load in the event of a fall by a qualified person per OSHA reg 1910.66(c)(10). A single point anchor may be designed for single or dual tie-off as long as each user attaches to a designated D-Ring.





Related Products

Along with custom fall protection systems, DFP also provides off the shelf temporary fall protection solutions and other ancillary products such as sky-light screens, warning lines and rooftop support systems for pipework.





The portable truss anchor shown to the left is a perfect temporary anchor point for open angle truss roof structures. Warning lines and skylight screens are an important type of passive fall protection. Rooftop support structures are an ideal choice for pipe, duct, and conduit applications with a lightweight, recycled rubber base that is non-penetrating."



Capabilities and Services

- » Professional Workplace Assessment
- » Structural Engineering
- » Calculations
- » Sealed Drawings
- » AutoCAD Designing and Drafting
- » Project Management
- » Custom Fabrication
- » Installation
- » System Use Training
- » Recertification and Repair
- » Turnkey Fall Protection Services
- » System Specific Signage
- » Equipment Sales
- » Personal Protective Equipment



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