



## Municipalities

Tractel® Safety Applications  
and Product Guide

# essential safety for municipal workers



In every town and city around the world, government administrative and infrastructure systems serve communities and their populations. Constructing, inspecting, and maintaining municipal buildings, facilities, and technological systems often involves hands-on tasks and potentially hazardous work areas in and around communities, putting workers at risk.

From rooftops to underground tunnels, on ladders and suspended from lifelines, these men and women provide essential services, infrastructure continuity, and smooth operations for municipalities around the world. Providing them with the equipment, protocols, and training needed to stay safe is always a top concern.

Whichever part of the local government they work for and whatever tasks they perform, municipal workers must be thoroughly familiar with the details of the safest work practices, as well as the protective equipment they must use. So must the municipalities who employ them.

Falls are among the most frequent hazards encountered by municipal workers, whether on rooftops, stairways, or ladders. Some municipal employees and contractors also routinely work in confined spaces, which are defined by restricted to entry and egress and include tunnels, manholes, and maintenance shafts.

This guide will focus on fall safety and confined space applications which are important to municipal workers, as well as examples of quality equipment specially engineered to provide the highest standards of performance and worker safety.

**below are sample situations that arise in municipal work, as well as recommended equipment solutions.**

Situation	Tractel Solutions
Providing passive fall protection around perimeter of municipal buildings	Architectural Series Rail (BlueWater)
Protecting workers on rooftops with skylights	Skylight Defender
Controlling access and providing passive fall protection for ladder on rooftop	Ladder Defender
Prevent ladder use and access by unauthorized personnel	LadderGuard
Providing a fall arrest on a fixed ladder	Stopcable® vertical lifeline
Comfortable, secure connection to ladder or lifeline safety systems	Safety harness
Establishing anchor point over a hatchway or manhole	Davitrac™
Creating temporary anchorage at edge of structure	Davitrac™ with portable anchor base
Providing anchorage point for temporary horizontal lifeline	Davimast™ with 360° rotating anchor points
Fall arrest and fall restraint for workers moving horizontally through a work area	Horizontal lifeline



# fall protection for municipal workers

Falls are among the most common and serious hazards encountered by municipal workers. Regulatory codes may have minor variations in how they identify and address falling hazards, but all require that municipal employers protect workers from the risk of falls when they are working even a short distance above the ground or the floor beneath them. This includes installing passive fall protection equipment in facilities and worksites, as well as providing workers with the proper personal fall prevention and fall arrest equipment where needed. This guide focuses on two of the most common locations in which workers encounter fall hazards: on rooftops and while using ladders. Work in confined spaces also frequently involves fall hazards and require specialized equipment (see page 6).

## rooftop fall prevention

Whether it is frequently accessed as part of normal operations or rarely visited except for repairs and maintenance, the rooftop of a municipal building presents falling hazards. While the edge of the rooftop presents the most obvious area of falls risk, features like skylights are also fall hazards which require protective equipment.

## rooftop safety railings

Safety rails are a regulation-compliant way to protect municipal workers on relatively flat rooftops. Railing systems can be permanently installed or positioned temporarily, and safety rails can even be designed to complement the architectural style and color scheme of a particular building. Consult with a safety and regulatory expert to ensure that you choose the right railings to keep workers safe.

## horizontal lifeline systems

On rooftops where the pitch or other factors prevent the use of railings, a horizontal lifeline system may be the right fall protection solution. Deciding whether a lifeline is appropriate requires expert evaluation of the roof structure, space constraints, and many other factors. There are a wide range of customizable horizontal lifeline systems available, as well as specialized safety harnesses and other equipment that are used with each system. The guidance of safety equipment experts when considering and installing a lifeline system is absolutely essential.



# BlueWater Architectural series rail

Effective, reliable passive fall protection in a customizable, versatile, non-penetrating system.

## FEATURES

---

- Installs with no drilling and no intermediate counterweights
- Can stay in place or be easily repositioned and reconfigured
- Customized colors and design options, including curved, inclined, or straight uprights

## BENEFITS

---

- Preserves roof integrity
- Protects workers without breaking the sightline of building rooftop
- Complements and enhances visual appeal of municipal buildings



# BlueWater<sup>®</sup> skylight Defender

This sturdy screen is specifically engineered to protect against falls through skylights.

## FEATURES

---

- Unique compression system for non-penetrating installation
- Available in customizable sizes for diverse skylight protection needs
- Strong wire construction can bear full weight of worker and equipment

## BENEFITS

---

- Preserves integrity of roof membrane and skylight
- Will not void your roof warranty
- Installs with basic tools in about 30 minutes



# ladders and fall protection

Municipal workers frequently use fixed ladders to access work sites. Preventing unsafe or unauthorized access to interior and exterior ladders at municipal buildings is also an important part of fall protection. Specialized devices and systems allow municipalities to fulfill all these safety obligations, easily and reliably.

## Stopcable® ladder safety system

This permanent wire rope fall protection system provides constant attachment to a steel cable. The integrated fall arrest system includes a close coupled assembly that minimizes freefall distance.

### FEATURES

---

- Galvanized or stainless-steel brackets and cable
- Brackets can be easily adapted to most ladders
- LT38E detachable traveler (sold separately)
- $\frac{3}{8}$  in. (9.5 mm) steel cable contained with intermediate brackets every 25 ft. (7.6 m)

### BENEFITS

---

- Compliant with ANSi, OSHA, and CSA standards
- Fall protection for individuals (including gear worn) up to 310 lb. (140 kg)
- Allows full use of both hands while on ladder
- Tension brackets minimize cable vibration and slack
- Minimizes freefall distance and absorbs energy of fall



# BlueWater® LadderGuard

This ladder door security system locks over the lower portion of a ladder, preventing use and access by unauthorized personnel.

## FEATURES

---

- Unique 16-gauge galvanized steel design
- Strong and rust-resistant
- Available in customizable sizes

## BENEFITS

---

- Installs easily
- Prevents trespassing and property damage
- Meets or exceeds regulatory requirements



# BlueWater® Ladder Defender

This controlled access and passive fall safety solution provides fall protection at the top of permanent rooftop access ladders.

## FEATURES

---

- Adjustable front bar enables quick alignment of the rail to the frame
- Finishing Rails come standard, allowing the system to extend over parapets
- Custom colors available
- The GuardDog Self-Closing Gate is available as an option

## BENEFITS

---

- Assembles in minutes
- Non-penetrating, will not damage roof or void roof warranty
- Cost-effective safety regulation compliance
- To passive fall safety and control access. Ensuring safe and easy egress and ingress to and from the rooftop.





# confined space safety for municipal workers



## confined space basics

Among the most important principles of confined space safety are:

1. Always create a detailed safety plan for every confined space job, including all tasks, equipment, and responsibilities. This plan must be shared and reviewed by everyone involved in the job.
2. Fully inspect the confined space before any work begins, and thoroughly monitor conditions inside the space during the job.
3. All equipment and personnel needed for a potential rescue must be on-site and ready to deploy throughout the job, and every worker within the confined space should wear a rescue harness and lifeline at all times.
4. Consult confined space safety experts to ensure that your plans and equipment fully comply with all regulations to keep your workers safe.



## safety harnesses

To provide full body support as well as aid in rapid non-entry rescue in the case of engulfment, injury, or other confined space accidents, harnesses are a mandatory, constantly required piece of safety equipment for all workers in all confined spaces. Harnesses engineered with different features to meet a wide range of uses are available. To make the best choice about the appropriate safety harnesses to provide your employees, consult an expert in the safety requirements and regulations pertaining to municipal work.

## anchorage solutions

To provide fall protection and to support confined space entry/rescue operations, municipal workers need one or more strong anchor points, each capable of supporting multiple workers and their gear. Access to each work area, particularly a confined space, may vary greatly. That means selecting the right anchoring equipment is vital both within municipal facilities and for work in the field.

## Davimast™ with two 360° anchor points for horizontal lifeline

For work in vertical confined spaces without a small, stable opening, workers must sometimes be supported by a horizontal temporary lifeline system. A pair of Davimast™ mast-style anchors can be equipped with double 360° rotating PPE anchor brackets to create temporary lifeline support for multiple workers.

### FEATURES

---

- Adjustable from 3 to 60 ft. (1 to 18 m)
- Maximum capacity of 2 operators of 310 lb. (140 kg) each
- Can be used with temporary lifeline Tempo III with 3 users of 310 lb. (140 kg)

### BENEFITS

---

- Lightweight, easy storage, transport and set-up with no tools required
- Compatible with Davitrac™ adapters for versatile placement



# Davitrac™

The Davitrac™ is a complete solution for safe vertical rope access in a confined space situation. Lightweight, easy to use, and versatile, it can be set up in minutes with no tools and equipped with accessories to serve a wide range of functions.

## FEATURES

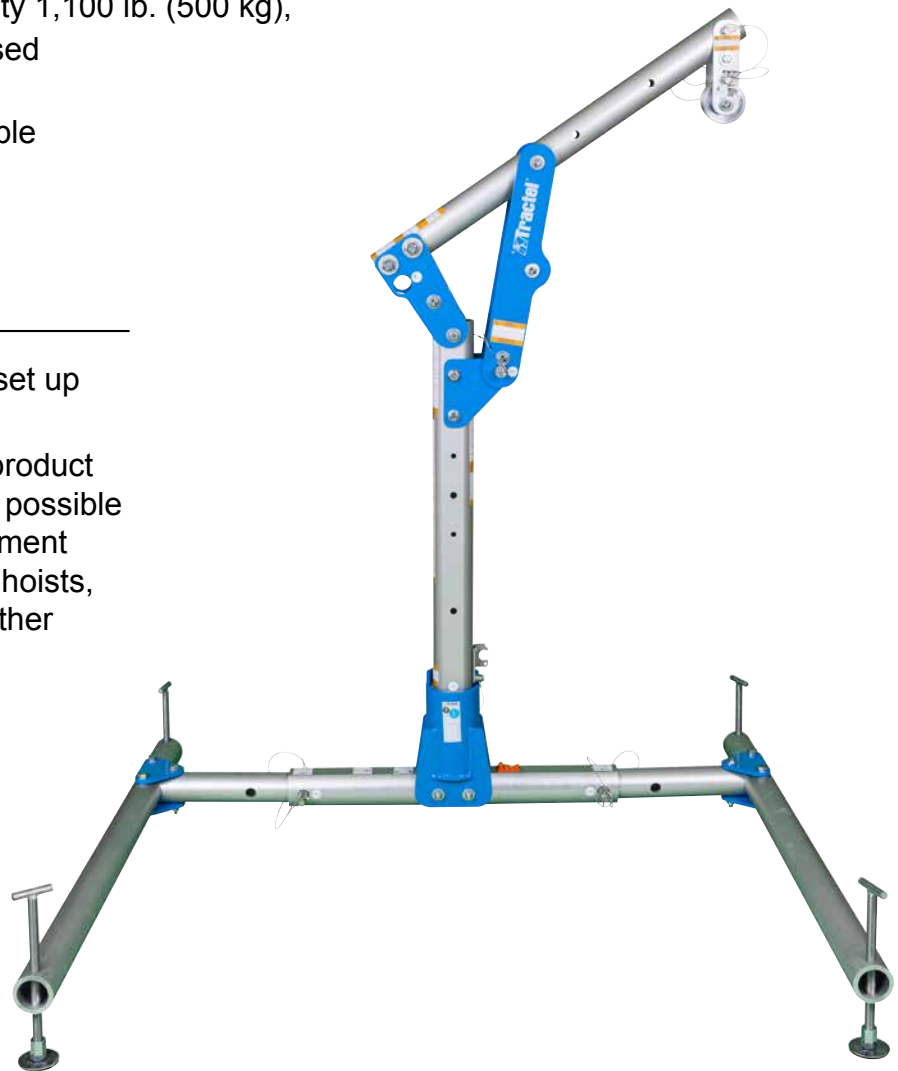
---

- Anchorage for up to two users and their gear, up to 330 lb. (150 kg) each
- Can serve as an anchor point for manual or motorized wire rope hoist
- Material lifting maximum capacity 1,100 lb. (500 kg), depending on the lifting tools used
- Portable anchoring base available (as seen in photo)

## BENEFITS

---

- Easy to handle, transport, and set up
- Compatibility with the Tractel® product range allows a large number of possible configurations, including attachment of additional wire rope or chain hoists, descent control systems, and other accessories



# tripod

To establish strong anchorage over an opening into a roof, manhole, or other vertical confined space, a tripod can be an excellent equipment choice.

## FEATURES

---

- Tested to stop the simultaneous fall of two operators weighing 300 lb. (150 kg) each
- Material lifting capability of 1,100 lb. (500 kg)
- Can be positioned over openings up to 6 ft. (1.85 m) wide

## BENEFITS

---

- Folds to fit in small vehicles
- Lightweight for easy carrying
- Can attach multiple hoists and other equipment at once



# safety and support for municipalities

The municipal government organizations that serve communities around the world and the workers they employ deserve to do their work as safely as possible. Tractel® provides safety and support for these through advanced solutions and innovative, specially engineered technologies. Tractel® offers a complete product range designed for municipal governments, agencies, and workers, including confined space safety equipment, evacuation and rescue devices, and active and passive fall protection products.

In addition, Tractel® provides comprehensive training and unparalleled global support for putting our products to the safest, most effective use under demanding conditions and occupational safety regulations, worldwide.

Choose the leader. Choose Tractel®

---

For details on Tractel® solutions and products for municipalities, visit [tractel.com](http://tractel.com) or contact your Tractel® specialist.



BOSTON  
**1 800 421-0246**  
[tractel.usa-east@tractel.com](mailto:tractel.usa-east@tractel.com)

LOS ANGELES  
**1 800 675-6727**  
[tractel.usa-west@tractel.com](mailto:tractel.usa-west@tractel.com)

MONTREAL  
**1 800 561-3229**  
[tractel.canada@tractel.com](mailto:tractel.canada@tractel.com)

[www.tractel.com](http://www.tractel.com)