

THE EDGE90°

A ROPE ACCESS EDGE MANAGEMENT SYSTEM



**ROPES
EDGE**
EQUIPMENT CO.

The Edge 90° Parapet Clamp
Trade Marked™
Patent Pending
Part # AATE90°
Weight - 600g
Conformity - Non PPE

TECHNICAL DATA

The **Edge90°** Parapet Clamp is designed for use on varying sizes, depths and materials of parapets and on other 90° edges, commonly found on high-rise buildings and on industrial work sites. It should only be used if it is not possible to “remove” or “avoid” a hazard.

MATERIAL PROPERTIES

- **Material** - PA12 Nylon
- **Heat Deflection** - 175°C
- **Melting point** - 187°C
- **Low Temperature limit** - -40°C
- **Tensile Strength** - 48 Mpa / 6960 psi
- **Elongation** - 20%
- **Density** - 1.01 g/cm³
- **Impact resistant** to 1247 lbs per sq inch

PA12 Nylon holds excellent chemical resistance to oils, greases, aliphatic hydrocarbons & alkalis. However, **The Edge90°** should be inspected and removed from service in the event of heavy contamination or an unknown contaminant is present. “Vapor Smoothing”, a postproduction surface hardening method, is used for all the Ropes Edge products. This postproduction method adds impermeability to liquids and some additional strength.

The manufacturer makes no warranties of materials for any application, nor does it make a warranty of any type, expressed or implied, including, but not limited to, the warranties of merchantability for a particular purpose.

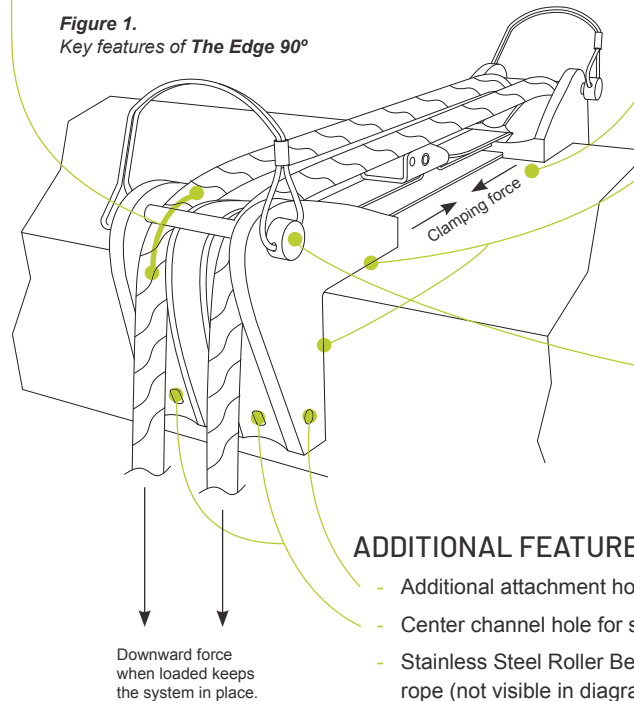
Note: Actual properties of the material may vary slightly from those listed based on processing parameters, operating conditions, age and usage.

KEY FEATURES OF THE EDGE 90°

INCREASED BEND RADIUS

- The increased bend radius ensures the maximum strength retention of the rope or sling that is used within it.
- They have been designed for use with nylon kernmantle rope or nylon slings as a physical barrier to a potential hazard or an abrupt 90° bend.

Figure 1.
Key features of *The Edge 90°*



CLAMPING SYSTEM

- When properly placed, the clamping system maintains **The Edge90°**'s position and reduces unintended movement.
- They may be used as a pair when clamping the Parapet or separated & used as a single on the varying types of 90° edges.

LOAD DISTRIBUTION & BUILDING PROTECTION

- **The Edge90°** has a grippy rubber base to distribute the load & forces on the parapet and maintain its position during installation, removal, and normal use.

ROPE RETENTION SYSTEM

- The Rope Retention system (clevis pin) keeps the ropes securely within the protector during normal use.

ADDITIONAL FEATURES

- Additional attachment holes for accessory cord tie-back points if needed.
- Center channel hole for securing the Edge90° to anything that will accept it with a screw or bolt.
- Stainless Steel Roller Bearings reduce friction during hauls & lowers of weighted or unweighted rope (not visible in diagram).
- RFID location tracking system tags can be added to ALL Ropes Edge products (not visible).
- Date of manufacture on each unit (not visible in diagram).

RECOMMENDED USE & LIMITATIONS

In Industrial Rope Access, all rigging equipment and ropes shall be rigged in such a way to remove or avoid potential hazards that threaten the integrity of the life supporting system.

The **Edge90°** Parapet Clamp is designed to remain firmly in place under the weight of the worker or load.

DO'S

- The **Edge90°** may be used with rope diameters of up to 7 to 15 mm.
- The **Edge90°** may also be used with nylon webbing & nylon slings.
- Engage the rope retention system when ropes permit its use (clevis pin).
- Prevent **The Edge90°** from encountering hash or corrosive chemicals.
- Limit the angles of entry in to & out of **The Edge90°**.
- Confirm the suitability of the parapet being used.

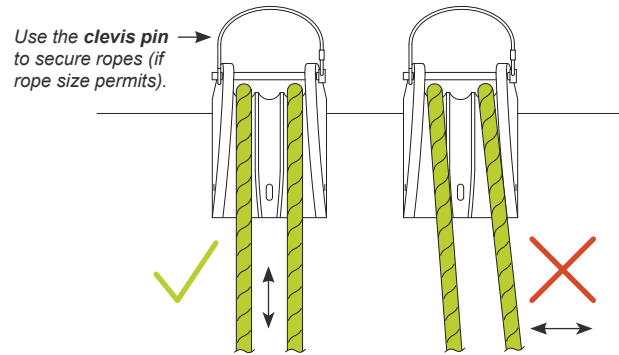


Figure 2. Correct use is having a 0° angle of entry and exit of the ropes in relation to the device (ropes should be directly in line with the rope channels). Limit the angle of entry/exit of the rope.

DON'TS

- The **Edge90°** is not designed for the use of wire rope or steel cable.
- The **Edge90°** should not be used if the potential load on the product could exceed 250 kg.
- The **Edge90°**, and all its parts are never to be considered, or used as, an anchoring device or as an anchor itself.
- Engage the rope retention system when ropes do not permit its use (clevis pin).
- Do not alter **The Edge90°**.

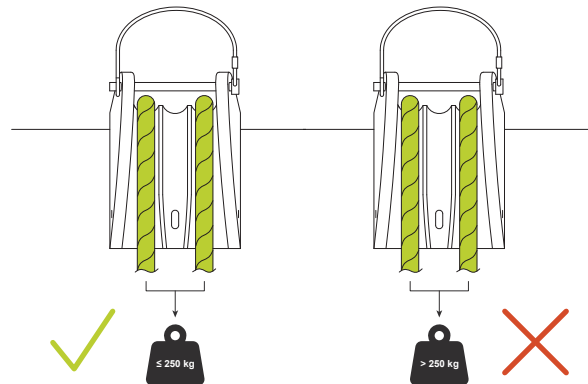


Figure 3. The total load on the device shall not exceed 250 kg.

LIMITATIONS

- The **Edge90°** is a barrier to a potential hazard, nothing more. Please perform a proper risk assessment for each application.
- The normal life Span of **The Edge90°** is 10 years from manufacture date or 5 years from first use, and entirely dependent on passing daily use checks and regular inspections.
- **The Edge90°** will not protect you or your rope from HOT surfaces of any kind. Normal avoidance practices of hot surfaces in Rope Access shall be observed while using **The Edge90°** and the RopesEdge line of products.

PRODUCT MAINTENANCE

- Keep **The Edge90°** free & clear excessive dirt, dust, and debris.
- Use warm water and a mild detergent to clean **The Edge90°**.
- However, do not immerse **The Edge90°** in water for long periods of time.
- Do not attempt to lubricate any parts **The Edge90°**.
- Visually inspect **The Edge90°** for damage & excessive wear before each use.
- Inspect the accessory cord knots are secure and do not need replacement.
- We recommend a minimum 6-monthly inspection of **The Edge90°** and before each use.



WARNING

Working at height is inherently dangerous. Risks and hazards are a common occurrence, some of which include equipment failure, malfunction or misuse, natural hazards, a changing environment and weather that may result in personal injury or death. It is the sole responsibility of the individual to learn, practice and understand the proper techniques for working at height safely. **The Edge90°** is intended for use by a competent person or team. Any individual or organization using this product accepts and assumes all risks and takes full responsibility for any damages, injury or death which may result. The following text and diagrams show some of the common correct, and incorrect methods of use; it is impossible to predict them all.

There is no substitute for proper training with a competent person.

Nothing can replace a thorough Risk Assessment.

This information is to be read and retained in conjunction with the User Instructions supplied with this product. If **The Edge90°** is to be used by someone other than the original purchaser, these documents and warnings must be read and understood by them as well.

Safety is everyone's responsibility.

