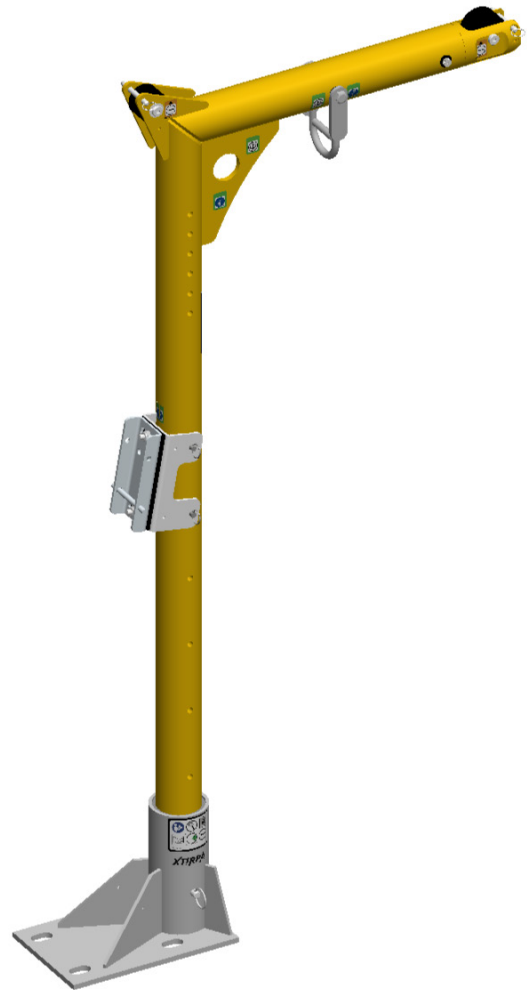




INSTRUCTION AND SAFETY MANUAL

IN-8003: XTIRPA™ Davit Arm and Mast & Mast / Davit System for PPE

EN

XTIRPA™

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1. THE XTIRPA SYSTEM

1.1 About

The XTIRPA™ system is an anchoring device part of an individual protection system designed for the prevention of falls, in case of emergency, for the best working position, for rope access and for access to confined spaces.

WARNING

The manufacturer of the Innova Public Utility Products, Inc. waives any warranty or responsibility in case of an unauthorized modification, of any improper use, of poor maintenance or of the replacement of a part of the equipment by non-original parts. These actions can lead to serious and possibly fatal injuries to the entire body, or even death.

Any alteration or addition to the equipment must not be carried out without Innova Public Utility Products, Inc.'s prior written consent. Any repair must be made in accordance with the operating procedures of the Innova Public Utility Products, Inc. manufacturer.

This Installation Manual as well as the technical drawings and installation instructions are provided at the time of purchase of the XTIRPA™ system. The user shall make sure these drawings and instructions are included and shall endeavor to keep all these elements for the entire lifetime of the equipment.

If the product is resold outside of the first destination country, it is essential for the user's safety that the reseller provides the user guide, instructions for maintenance, for periodic examination, in the language of the country where the product shall be used.

Please follow the measures detailed in the Work and Safety Code of the applicable country of province where you will be using this anchoring device.

For any question related to the use, maintenance or installation of the XTIRPA™ systems, please contact the Innova Public Utility Products, Inc manufacturer via the contact form on our website: <http://www.xtirpa.com>.

Please make sure that the following additional information is also provided by the manufacturer or by the authorized distributors:

- Technical drawings
- Installation instructions

1.2 Compliance

Manufacturer:

Innova Public Utility Product, Inc.
1040 boulevard Industriel,
Granby, Québec, Canada
J2J 1A4

EN 795 Configuration System: Type A

The XTIRPA™ system described in Chapter 4 complies with the requirements of the EN 795.2012 standard and the technical specifications of the TS16415.2013 standard. It has been tested by the independent ISO 17025 accredited laboratory:

Quintin Certifications (CE2927)
825 route de Romans
38160 Saint-Antoine-l'Abbaye
France

1.3 Capacity, Limits and Design

All the XTIRPA™ systems were designed to function for at least 10 years provided that they have been used, maintained, inspected and stored in accordance with this Manual. The XTIRPA™ system is one the lightest and most ergonomically designed anchorage device on the market today. The davit arm, masts and barricades are made of 6061-T6 aluminum. Some bigger davit arms are made of HSS A-500 stainless steel. The adapters are made of stainless steel SS 304, SS 316, galvanized steel 44 W, or galvanized steel 50 W. The pulleys are made of acetal.

Product Specifications

Manufacturer	Innova Public Utility Products, Inc.
Brand	XTIRPA™

Model	IN-8003	
Name	XTIRPA™ Davit Arm and Mast & Mast / Davit System for PPE	
Standards	EN 795 2012 Type A TS 16415 2013	
Equipment maximum arrest force:	8 kN / user	
Davit arm part no. 2210	Length min : 15 in. (381 mm) Length max : 24 in. (610 mm)	
	Minimum breaking strength for anchorage	Nº. 1 : 16.3 kN (3664 lbf) Nº. 2 : 16.3 kN (3664 lbf) Nº. 3 : 22.2 kN (5000 lbf) Nº. 4 : 8 kN (1800 lbf)
Davit arm part no. 2483	Length min : 24 in. (610 mm) Length max : 24 in. (610 mm)	
	Minimum breaking strength for anchorage	Nº. 1 : 16 kN (3600 lbf) Nº. 2 : 16 kN (3600 lbf) Nº. 3 : 22.2 kN (5000 lbf) Nº. 4 : 16 kN (3600 lbf)
Maximum service temperature	130 °F (54 °C)	
Minimum service temperature	-10 °F (-25 °C)	
Elastic deformation	N/A	
Maximum working load per anchor	360 lb (164 kg)	
System EN 795 2012 Type A	Maximum working moment (MWM)	Refer to adapter
	Maximum design moment	Refer to adapter
	Workspace allowed	Refer to adapter
	Maximum number of simultaneous users	2

The anchoring device must not be used beyond its limitations or for any purpose other than those for which it was originally intended, which means stopping a fall. It is understood that the anchoring device will only be used for an individual protection system against falls and not for a lifting equipment.

WARNING

This system was not designed to work with more simultaneous users than intended. A user is defined as being a person who is physically connected to the anchorage connector.

WARNING

This system cannot be used simultaneously to transport equipment it when the users are physically connected to the anchorage connector.

1.4 Warranty

The XTIRPA™ system, offered by the manufacturer, Innova Public Utility Products, Inc., is warranted against all defects in workmanship and materials for a (2) two-year period from the date of delivery, and this warranty only applies to the XTIRPA™ system's initial buyer. The manufacturer will quickly repair and replace all the components or pieces deemed to be faulty. The manufacturer reserves the right to choose to return any part deemed to be faulty to its plant/factory so that it may be inspected before any replacement or repair is made.

Only components and parts deemed faulty by the manufacturer, at its sole discretion, and further to any inspection required and performed by the manufacturer, shall be either repaired or replaced by the manufacturer.

Any claim must be sent in writing to the manufacturer immediately upon discovery of the problem by the owner and must be accompanied by a copy of the initial buyer's proof of purchase. The manufacturer will issue a claim number and give precise instructions that will have to be followed in order to successfully make a claim and return all the defective parts, at the manufacturer's request. The owner will collaborate with the manufacturer and its representatives in order to facilitate the inspection of all allegedly faulty parts. All the shipping costs to return the faulty parts and components to the manufacturer's factory shall be paid by the owner. The shipping costs for the replacement parts or components are paid by the manufacturer.

The Warranty does not cover damages caused by the equipment coming from any cause other than defects in material or workmanship including, but not limited to, any damage resulting from abuse, lack of maintenance, improper manipulation or storage, any voluntary damage, vandalism or accidental damage or damage resulting from a shock or a collision, any damage due to transport, any damage caused by a fire, an explosion, vapors, chemical substances or environments, toxic or corrosive, water, normal corrosion or rust, storms, hail or any other act of God, any war or insurrection, act of terrorism, or any other damage out of the Manufacturer's control. The warranty only applies to the initial Customer; it is the only warranty that applies to the XTIRPA™ system and replaces all other explicit or implicit warranties. Without limiting the generality of the foregoing, the Manufacturer will not be liable for any costs, damages, or claims, including special or consequential damages, accessory or indirect such as, but not limited to damages, shortfalls or losses in revenue, commercial interruptions, physical injuries because of the failure to respect all the obligations, including those made in good faith or because of due diligence, because of negligence and for any other pecuniary loss or any other loss, resulting from or associated with the use or the incapacity to use the XTIRPA™ system, even in the event of a failure, of tort (including negligence), of absolute liability, of a breach of contract or of breach of warranty, even if the Manufacturer was notified of the possibility of such damages. The manufacturer hereby disclaims all warranties and conditions, express, implied, or statutory, including, but not limited to, all implied warranties or conditions of merchantability, fitness for a particular purpose and freedom from negligence or professional effort.

The User must fill in and send the subscription form for the limited warranty of each product. Please make sure that the date of purchase of the Manufacturer's XTIRPA™ system or of the Service Center is indicated.

2. SYMBOLS

WARNING

Indicates a dangerous situation which, if it not avoided, could lead to death or a dangerous injury.

CAUTION

Indicates a dangerous situation which, if it not avoided, could lead to a minor or moderate injury.

Indicated the safe working condition.



Please read and understand this system's operating manual before using it.



An anchor point authorized on the system indicating the maximum number of simultaneous users, wearing their harness. The system can also be used to lift and lower users.



The system can be used to lift and lower users.



The system cannot be used to lift and lower users.



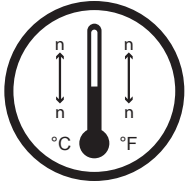
The system's equipment must be installed by a qualified person in accordance with the manufacturer's instructions.



Please perform a visual inspection before any use, in accordance with the manual's instructions. Please do not use the system in case of doubt regarding its safe use.



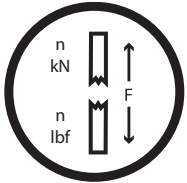
Maximum working moment (MWM).



Minimum and maximum service temperature.



Maximum working load.



Minimum breaking strength (MBS).



Required tightening for bolt.



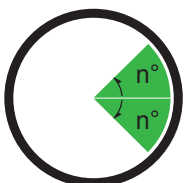
Equipment maximum arrest force (MAF).



The positioning pins must be installed before use.



Minimum breaking strength (MBS) of 22.2 kN (5 000 lbf).



Permissible working angle.



It is forbidden to install more than (1) user on the same anchor point.

3. REQUIREMENTS IN TERMS OF SAFETY

3.1 Training

To ensure safe work, each user must be trained and qualified. You can contact the Manufacturer Innova Public Utility Products, Inc., or the authorized Service Center in order to configure a training program.

The users must have read and understood the Manual. They must be in good health and judge to be mentally stable; they must not have vertigo and must not be under the influence of drugs or alcohol so that their safety may not be hindered during normal use of the equipment or in case of an emergency.

3.2 Precautions for Use

Before any use, a safety plan must be established in order to face any emergency that could arise during use. It should of course be noted that prior to and during the use of this equipment, that any eventual rescue must be done in a safe and efficient way. It is therefore important to always work in teams of at least two (2) people when you are using this anchoring device. One of the two (2) users can call the emergency services in case of a fall.

Each user must be equipped with a full body harness. This is the only body-gripping device that is permitted to be used in a fall arrest system (FAS) along with a means of limiting the maximum dynamic forces exerted on the body when stopping a fall. Refer to table "1.3 Capacity, Limits and Design" on page 5 for the equipment's maximum arrest force.

It is also not advisable to wear any additional work safety equipment such as, but not limited to a hard hat, safety glasses, leather gloves, protective clothing, work boots and any pocket lamps and any respiratory protective device available.

WARNING

Prior to any use and to ensure safety, it is imperative that you check the clearance below the user in the work place, so that in case of a fall, no collision with the ground can occur and no obstacle can be found on the trajectory.

In order to ensure that it is usable and that it functions correctly, the user will have to verify before each use that:

- The system does not present any excessive wear, cracks or traces of corrosion
- The anchoring plates (base) A2002-22N and the anchor points do not show any deformation.
- The connection pins are present and properly installed.
- The nuts and bolts are tightened properly
- The labels are present and can be read.
- The system is valid and the date of the last or next inspection is indicated.

WARNING

If the system has arrested a fall or has been damaged, it will then have to be immediately removed from service. Please state clearly that the fall protection system is "UNUSABLE." It will then have to go through a proper inspection and maintenance, in accordance with section "6. INSPECTION, MAINTENANCE AND STORAGE" on page 22. It can only be reactivated if a qualified person, a certified service center or the manufacturer authorizes its use in writing.

3.3 Authorized Connection

EN

This anchoring device can be used in conjunction with the following equipment:

- Automatic fall prevention device compliant with EN 360 in accordance with the Manufacturer's operating instructions.
- Lifting rescue device compliant with EN 1496 in accordance with the Manufacturer's operating instructions.
- Shock absorber compliant with EN 355 in accordance with the Manufacturer's operating instructions.

The above-mentioned equipment must be linked to the sternal and dorsal points noted in A or A/2 or the fall arrest harness compliant with EN 361 by a connection element compliant with EN 362.

WARNING

Please verify prior to any use that all of the equipment used in the fall arrest system (fall arrest full body harness compliant with EN 361, automatic fall prevention device compliant with EN 360, shock absorber compliant with EN355 and connection elements compliant with EN 362) is working properly as per the Manufacturer's operating instructions. Not all of the equipment used in the fall arrest system has been tested together. A hazard is likely to occur when using multiple items in which the security function of one of the items is affected by or interferes with the security function of another item.

3.4 Lifting of Materials

The anchor device should only be used for personal fall protection equipment and not for lifting equipment. The product shall not be used simultaneously to lift equipment (material) and as a PPE (Personal Protective Equipment). Some jurisdictions may prohibit the use of a PPE to lift equipment (material) altogether. If so, this product must be labeled as to be used only to lift equipment (material) and may no longer be used as a PPE. Never exceed the 328 kg (722 lbs) for lifting equipment (material).

3.5 Collective fall protection

Personal protective equipment (PPE) against falls is essential to ensure worker safety, but it alone does not guarantee complete protection for everyone near the area where there is a risk of falling. Collective protection therefore plays an equally crucial role in preventing accidents in the workplace.

Collective protection measures, such as guardrails, safety nets, barriers, etc., are designed to protect all workers on a site, including those who are not directly exposed to the risk of falling.

Used in conjunction, these protection strategies create a collective and structured approach that significantly improves worker safety and complies with occupational health and safety standards. For optimal safety, it is essential to assess and implement the collective protection measures available before using PPE.

4. INSTALLATION

Prior to any installation, please contact the manufacturer Innova Public Utility Products, Inc or one of its authorized distributors to determine the optimal installation process and configuration for your application. Please follow all the technical and fastening installation instructions provided by the manufacturer Innova Public Utility Products, Inc.

In certain applications, the commissioning of the XTIRPA™ system may require additional precautions to:

- Limit the risk of a fall during the installation by putting in place an additional anchoring device.
- Limit the possibility of damages to the system, as is the case when using the system under excessive heat or humidity, in a corrosive or chemical environment, in close proximity to a high voltage power line, in a toxic or explosive atmosphere (non-exhaustive list).
- Avoid any injury to the user by limiting the use when there is a risk of falling objects and by taking all the necessary precautions regarding the tilting effects in case of a fall.

WARNING

To ensure safety, the anchoring device must always be placed correctly, and the work must be performed in a way that reduces the risk of falls as well as the height of falls. To ensure optimal use, it is preferable that the anchoring device must imperatively be placed above the user's position.

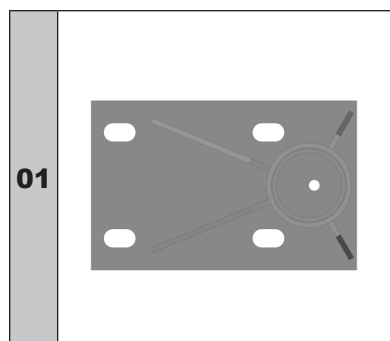
WARNING

We advise users to avoid environmental hazards. Frequent inspections are required during the presence of environmental risks. Please refer to section "5. USE" on page 16 to learn more.

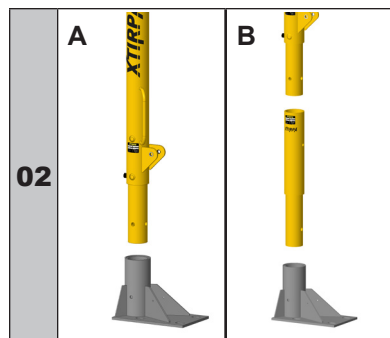
4.1 Type A System Installation with IN-2210

Contact the manufacturer or a distribution center for the moment, type of installation bolt and torque specifications of the single adapter. The installer must ensure that the receiving surface can withstand the system's moment applied on the adapter's fasteners in case of a fall. Refer to the minimum breaking strength (MBS) value (vertical) in section "1.3 Capacity, Limits and Design" on page 5.

Following the installation, it is important that a schematic plan be affixed on the building so that everyone can see it. An example of a layout plan is provided in the appendix. While several anchorage points must be photographed for identification purposes, it is recommended to mark the anchorage devices with numbers and write these numbers down in the anchorage device's inspection files, as well as the installation zone's ground plan.

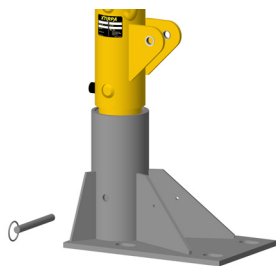


Please refer to the instructions above for the installation of the adapter. In addition, the adapter must be installed with the best angle of operation in mind, which is indicated on the label.



- A.** Insert the mast or the extension into the adapter.
- B.** If you use an extension, it must be installed first.

03



Insert the locking pin to secure it.

04



Remove the two handle pins from their locations.

05



Install the davit arm's receptacle on the mast.

06

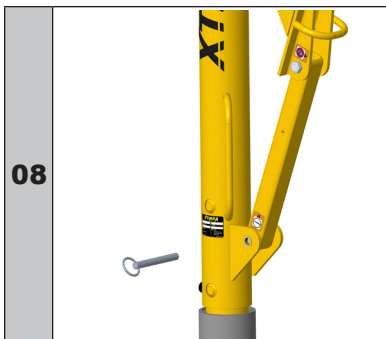


Insert the locking pin to secure it.

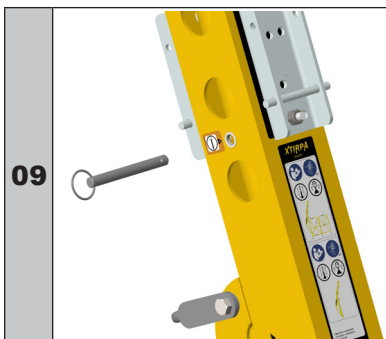
07



Install the lower leg of the davit arm between the eyelets of the mast.



Insert the locking pin to secure it.



The reach of the davit arm can be adjusted by first removing the locking pin from its location in the center of the davit arm.



Extend the davit arm as needed. It can extend from 15 in. (381 mm) to 24 in. (610 mm).

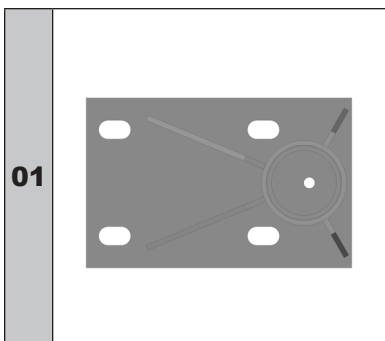


Insert the locking pin to secure it.

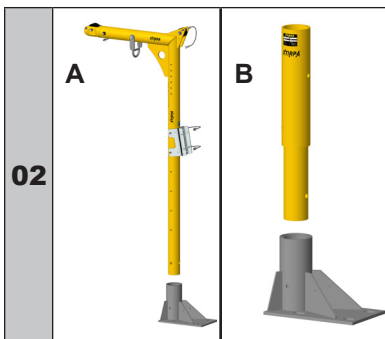
4.2 Type A System Installation with IN-2483

Contact the manufacturer or a distribution center for the moment, type of installation bolt and torque specifications of the single adapter. The installer must ensure that the receiving surface can withstand the system's moment applied on the adapter's fasteners in case of a fall. Refer to the minimum breaking strength (MBS) value (vertical) in section "1.3 Capacity, Limits and Design" on page 5.

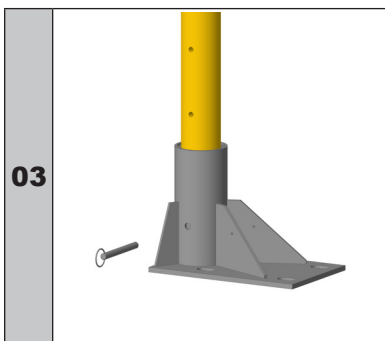
Following the installation, it is important that a schematic plan be affixed on the building so that everyone can see it. An example of a layout plan is provided in the appendix. While several anchorage points must be photographed for identification purposes, it is recommended to mark the anchorage devices with numbers and write these numbers down in the anchorage device's inspection files, as well as the installation zone's ground plan.



Please refer to the instructions above for the installation of the adapter. In addition, the adapter must be installed with the best angle of operation in mind, which is indicated on the label.

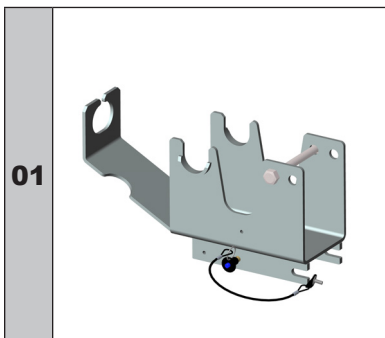


A. Insert the mast or the extension into the adapter.
B. If you use an extension, it must be installed first.

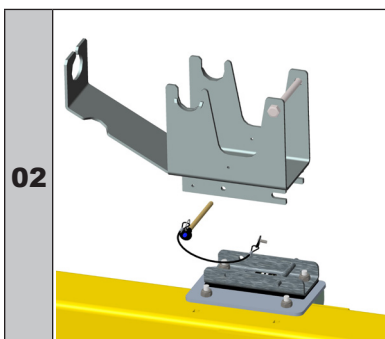


Insert the locking pin to secure it.

4.3 Installation of a self-retractable device for all system configurations



Make sure you have the right mounting bracket for the self-retracting model you want to use. Contact the manufacturer or a distribution center to obtain the correct mounting bracket.



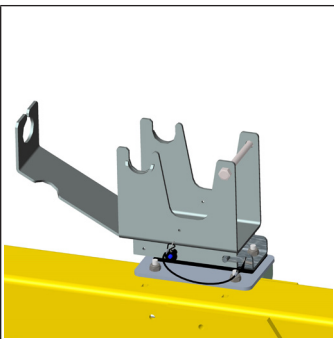
The installation of a self-retracting device will be done on anchor points. Please refer to "5.1 Anchor points" on page 16 or more information.

03



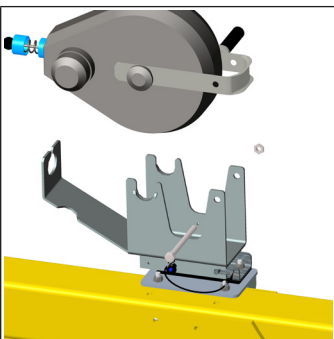
Several anchor points are equipped with mounting plates (A2002-22/G/N) that allow the installation of a mounting bracket.

04



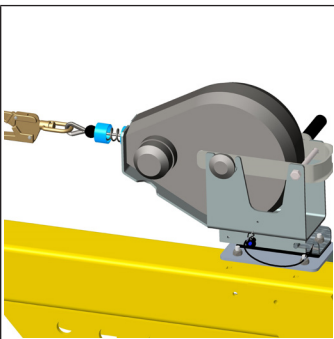
Install the mounting bracket for the self-retracting device and insert the pin to secure it.

05



Install the self-retracting device on the mounting bracket.

06



Insert the locking pin to secure it.

07



Please refer to the self-retracting device manual for operating instructions.

5. USE

WARNING

The section "3. REQUIREMENTS IN TERMS OF SAFETY" on page 9 must be read and followed closely. Not doing so may cause injuries, including death.

WARNING

Make sure you avoid any fall or impact coming from objects in trajectory of the fall or in its vicinity. Always remove any obstructions located under the work zone to ensure that the fall trajectory is clear. Please make sure that the work zones are free of debris, obstructions, tripping hazards, spills or any other risks that may hamper the safe use of the anti-fall system. DO NOT use the system before the work environment has been inspected by a qualified and competent person and he/she has determined that the risks identified could be eliminated and the exposure to could be avoided.

Work directly under the anchor/connector, if possible. The free fall distance and the risk of falls increases when you are not working directly under the anchor/connector. A full-body harness is the only acceptable body holding device that can be used in a fall arrest system.

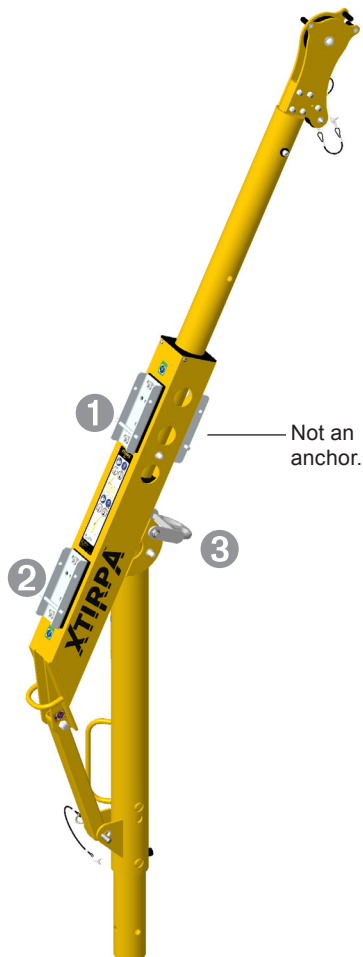
WARNING

This system cannot be used under the influence of drugs or alcohol.

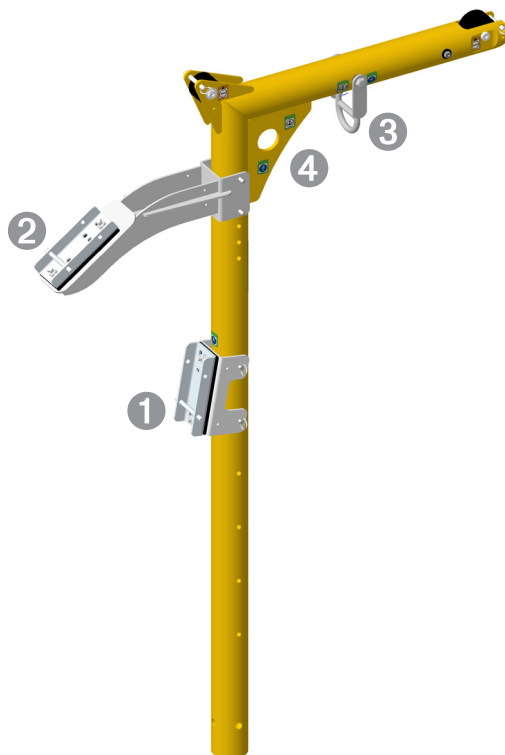
5.1 Anchor points

Here is a demonstration of all the anchor points for all configurations of this system. Each anchor point represents a unique anchor point to which a user can attach.

5.1.1 Type A System with IN-2210



5.1.2 Type A system with IN-2483

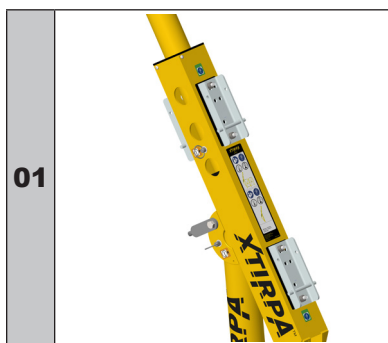


5.2 Multi-users

The maximum number of simultaneous users can change according to the system configuration. Please refer to "1.3 Capacity, Limits and Design" on page 5 for the maximum number of concurrent users for each system configuration.

5.3 Installation of a lifeline

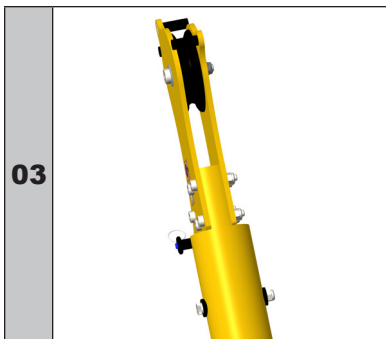
5.3.1 Type A System with IN-2210



The IN-2210 davit arm is equipped with two (2) mounting plates (A2002-22/G/N) on top, which allow the installation of a mounting bracket and a lifeline.

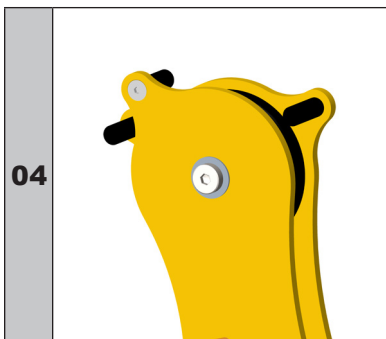


Only one top mounting plate (A2002-22/G/N) can be used at a time. Select the mounting plate (A2002-22/G/N) that best suits your application.



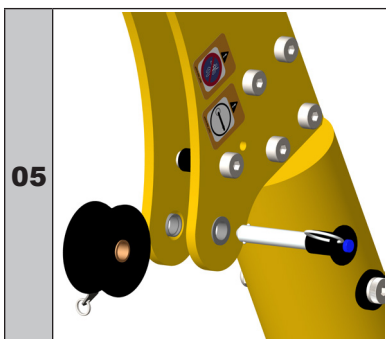
03

Pass the cable through the pulley at the end of the davit arm.



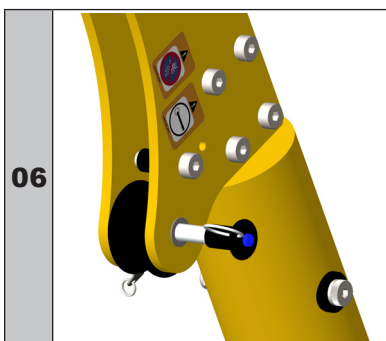
04

Make sure the cable is securely passed through and in place.



05

Pass the cable through the opening and reposition the pulley under the cable.



06

Insert the locking pin to secure it.

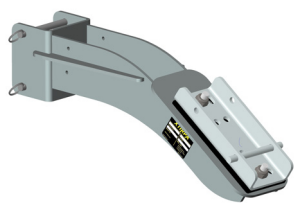
5.3.2 Type A system with IN-2483



01

The IN-2348 davit arm can be equipped with two (2) mounting plates (A2002-22/G/N), which allow the installation of a mounting bracket and a lifeline.

02



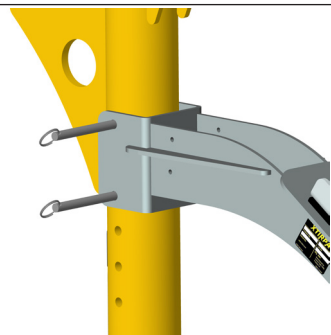
Part A2395-07, which contains the second mounting plate (A2002-22/G/N), must be purchased separately.

03



Part A2395-07, which contains the second mounting plate (A2002-22/G/N), must be purchased separately.

04



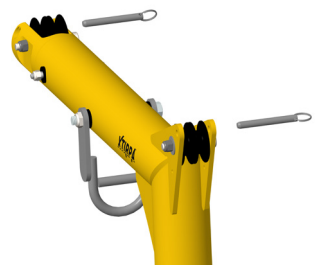
Insert the locking pins to secure part A2395-07.

05



The IN-2483 davit arm is equipped with two (2) sets of pulleys, which allow the installation of more than one line at a time.

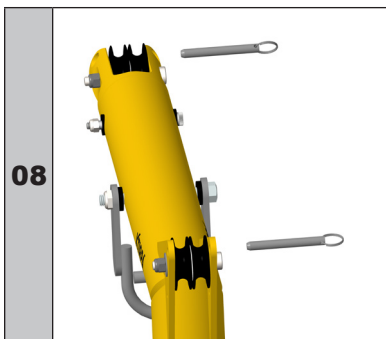
06



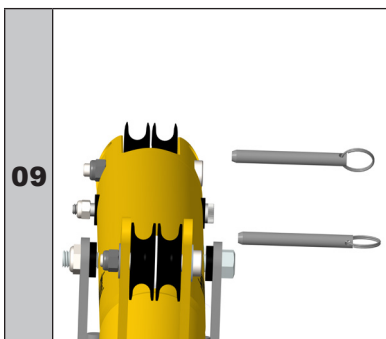
Remove the two pins at the ends of the davit arm.



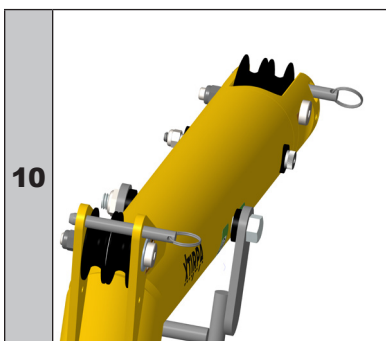
If you are using part A2395-07, the cable installed on the mounting plate below must pass through this opening.



Pass the cable through the pulley.

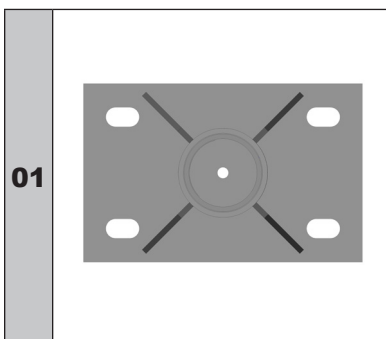


Make sure the cable is securely passed through and in place.



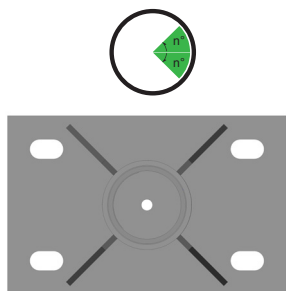
Insert the locking pin to secure it.

5.4 System orientation control for all system configurations



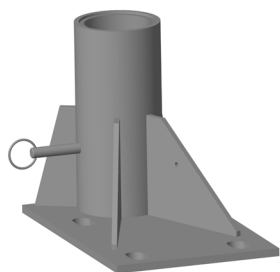
The operating angles of each system configuration are limited by the adapter limits in use.

02



Refer to the labels on the adapter in use for these operating angles. It is strictly forbidden to use the systems outside these limits.

03



It is important that all locking pins are inserted before using the system.

6. INSPECTION, MAINTENANCE AND STORAGE

All the systems were designed to function for at least 10 years provided that they have been used within the limits of its design, as well as maintained, inspected and stored in accordance with this manual. Any system must immediately be removed from circulation if the safety is questioned or if it was used to arrest a fall. It will then have to go through a proper inspection and maintenance, in accordance with this section.

6.1 Inspection

It is required to carry out a visual inspection of the anchoring device before using it to make sure it has no damage or defect. It is also required to carry out an annual inspection of the system by a qualified or competent person, according to the manufacturer's requirements or those of the service center. It is recommended to increase the frequency of these verifications when increasing the use of the system. These periodic verifications are necessary since user safety is directly related to regular maintenance or the repairing of system components.

Following every annual inspection, a label with the date of the last or the next annual inspection should be affixed on the equipment. If one of the damages or defects described above is observed, please contact a service center or the manufacturer to obtain help.

6.2 Maintenance

During a visual or annual inspection, the general condition of the system must be inspected, including the adapter, for the presence of cracks, excessive dirt, rust, warping or excessive wear. Make sure all necessary parts and components, including pins and straps are present. Ensure that all the bolts and nuts are properly tightened and all the labels can be read. Regularly clean the system components with water and a soft detergent. New labels can be obtained upon request. The results should be recorded in writing on the maintenance and inspection sheet.

Equipment maintenance can be done by a competent or qualified person, as well as a service center or the manufacturer. Equipment repair must be done exclusively by a service center or the manufacturer. Repairs will be supported for the design life of the system, after which they will no longer be supported.

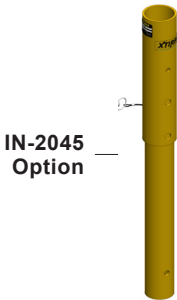
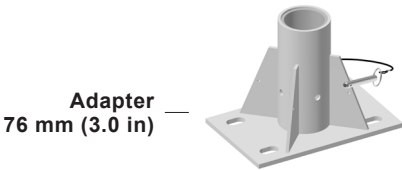
6.3 Storage

Store the system in a dry and clean place, away from direct sunlight. The system must not be in contact with corrosive or aggressive materials, nor stored in extreme temperatures. It is recommended to store and transport the anchoring device and its components in a specific packaging that can be obtained from the Manufacturer Innova Public Utility Products, Inc. or one of its authorized resellers.

7. COMPONENTS

7.1 Type A System with IN-2210

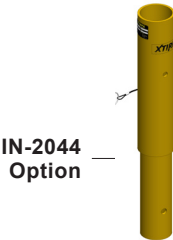
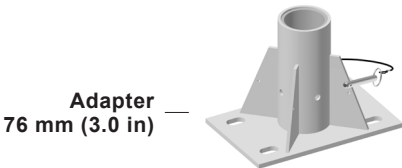
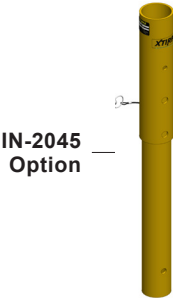
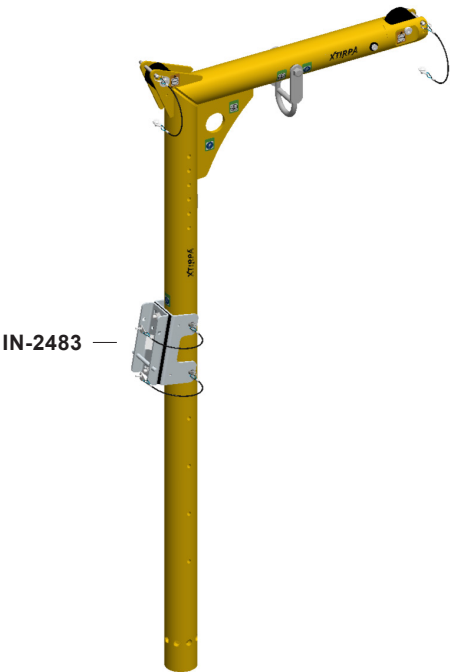
DA8003-01 to DA8003-13
and DA8003-27*



*Please see the table on page 25 for more information about the adapter for this system.

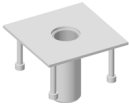
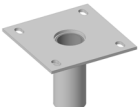
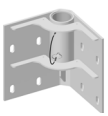
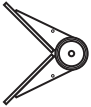
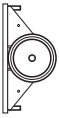
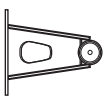
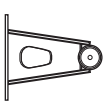
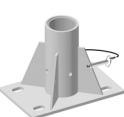
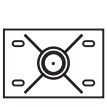
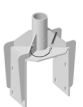
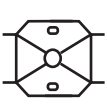
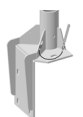
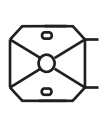
7.2 Type A system with IN-2483

DA8003-14 à DA8003-26
et DA8003-28*



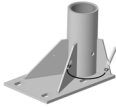
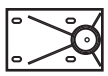
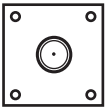
*Please see the table on page 25 for more information about the adapter for this system.

7.3 Type A System Adapter

ADAPTERS 76 MM (3.0 IN)				Material			
				STAINLESS STEEL		STEEL 50W	
Sub-group	Side view	Plan view	Parts No.	304	316	Zinc	Galvani.
1**			IN-2007	x			
			IN-2326		x		
2**			IN-2006	x			
			IN-2114			x	
			IN-2325		x		
3**			IN-2403	x			
4**			IN-2097	x			
			IN-2328		x		
5			IN-2133	x			
			IN-2134			x	
6			IN-2131	x			
			IN-2132			x	
7			IN-2013	x			
			IN-2107			x	
			IN-2327		x		
8			IN-2067	x			
			IN-2312		x		
9			IN-2124	x			
10			IN-2105	x			
			IN-2137			x	
			IN-2329		x		
11			IN-2205	x			
12			IN-2117	x			

**This equipment is not covered by EN 795 and TS 16415 but can be used with a XTIRPA™ personal protective equipment (PPE) system.

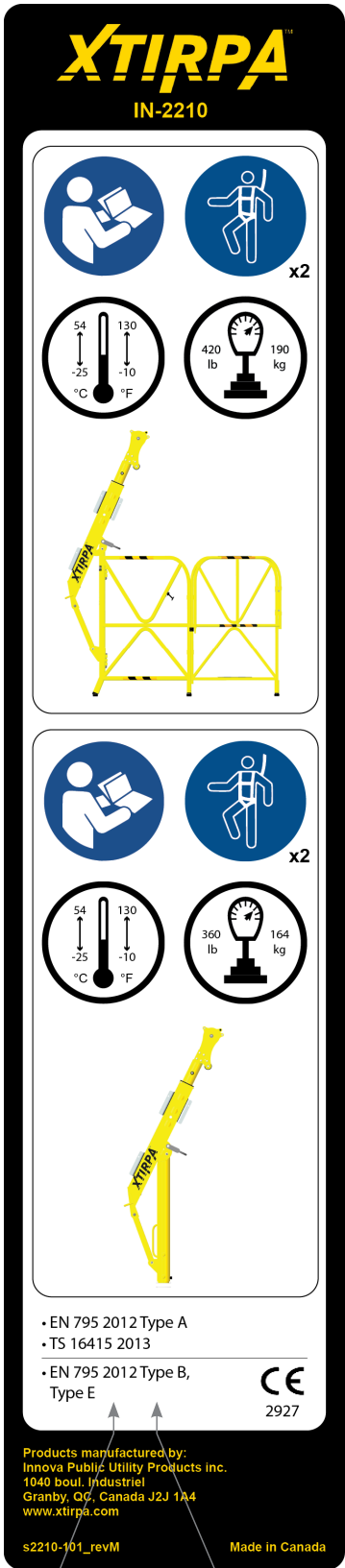
FOLLOWING

ADAPTERS 76 MM (3.0 IN)				Material			
				STAINLESS STEEL		STEEL 50W	
Sub-group	Side view	Plan view	Parts No.	304	316	Zinc	Galvani.
13			IN-2005	x			
			IN-2106			x	
			IN-2311		x		
14 **			IN-2594	x			

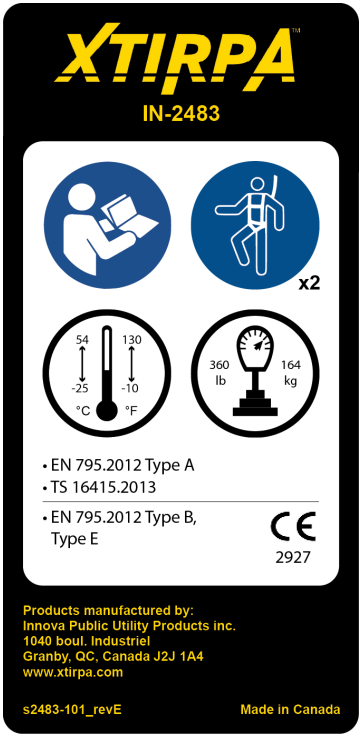
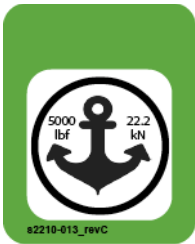
**This equipment is not covered by EN 795 and TS 16415 but can be used with a XTIRPA™ personal protective equipment (PPE) system.

8. APPENDIX

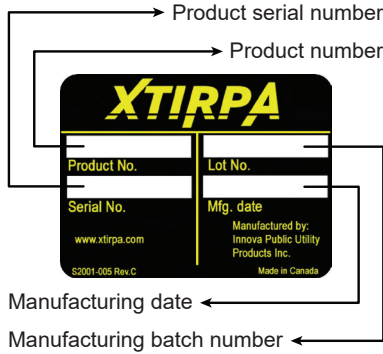
8.1 Labels

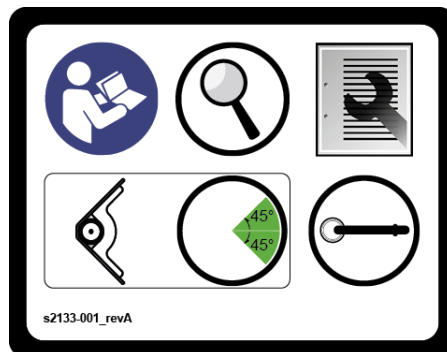
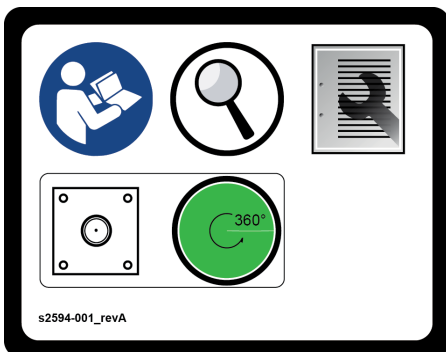
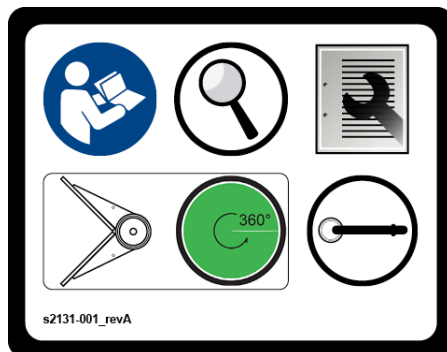
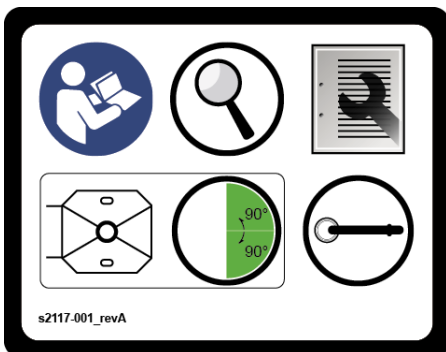
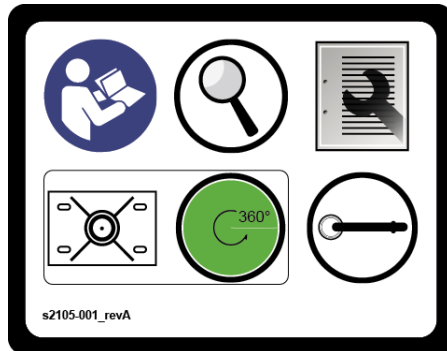
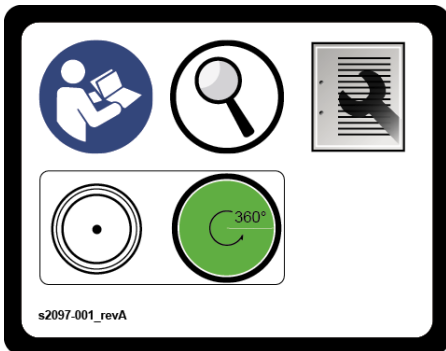
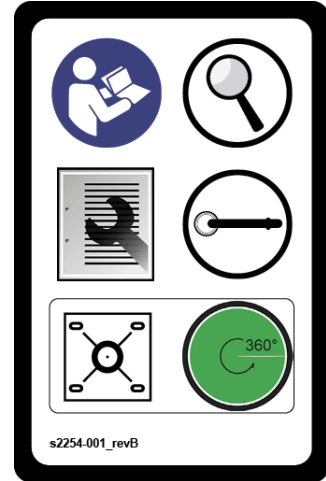
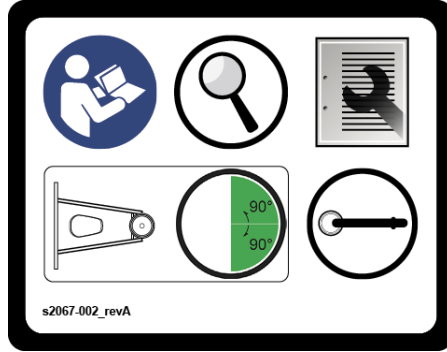
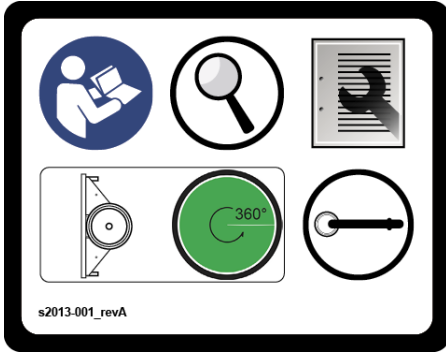
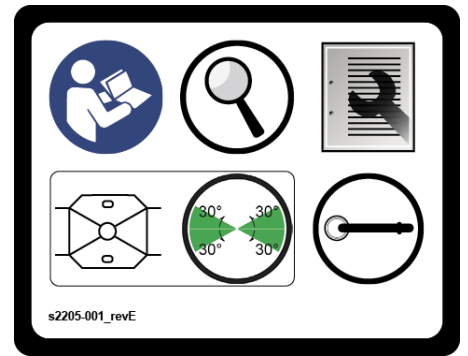
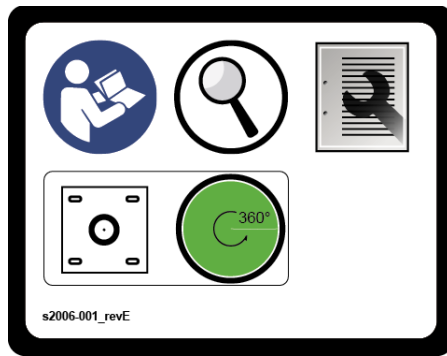
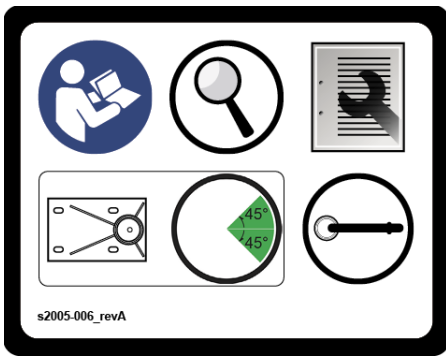


Accredited standard no. Product standard information

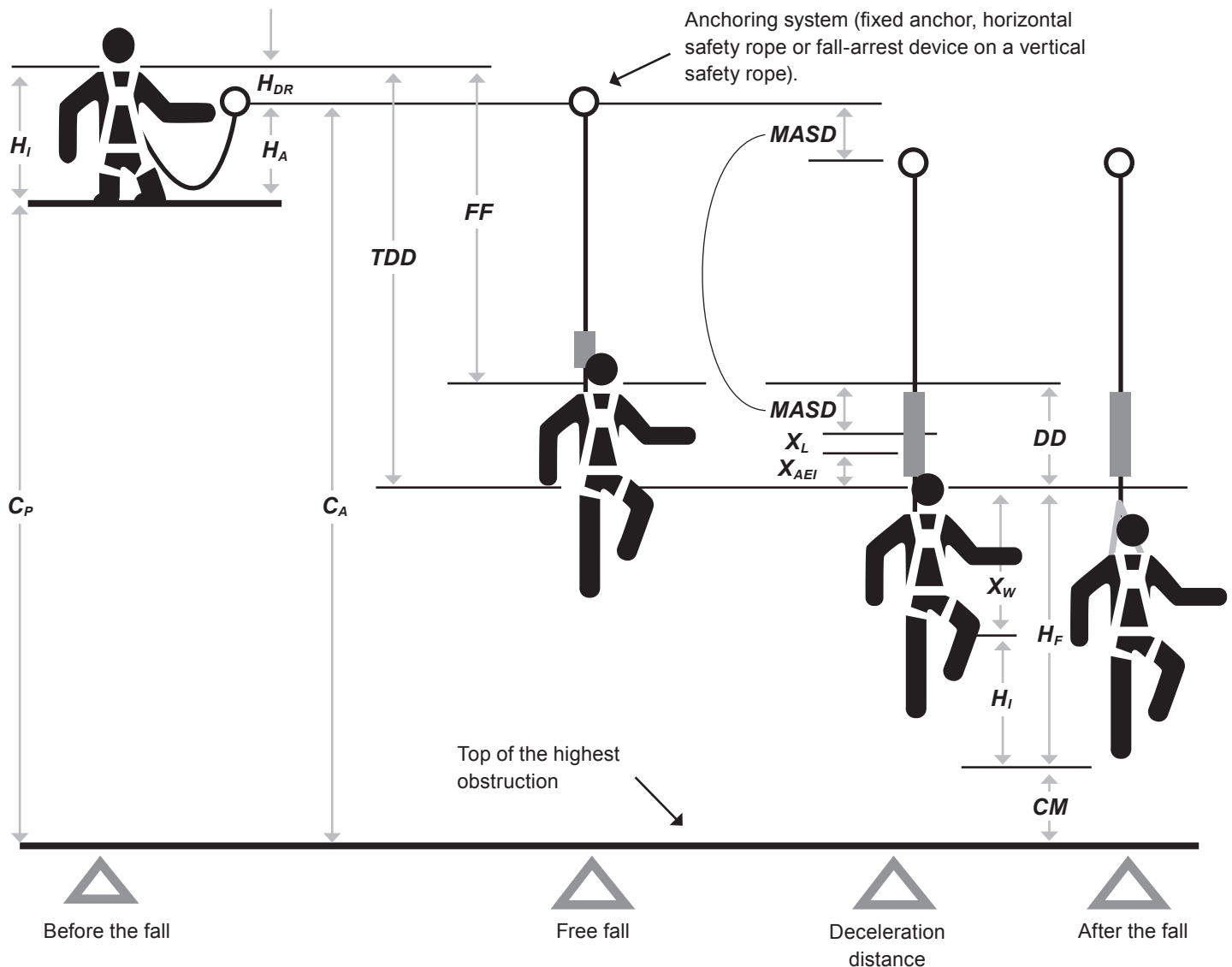


SERIAL NUMBER LABEL





8.2 Calculation for ground clearance



C_A Clearance required below anchor.
 $FF - H_{DR} + DD + H_F + CM$

FF Free fall.

C_P Clearance required below platform.
 $FF + DD + X_W + CM$
 $C_A - H_A$

DD Deceleration distance
 $MASD + X_L + X_{AEI}$

$MASD$ Maximum anchor system deflection (dynamic deflection of horizontal belay ropes, flexible anchors, vertical belay ropes, etc.).

TDD Total drop distance (from the worker's dorsal D-ring).
 $FF + DD$

CM Clearance margin.

H_A Height of anchor above work platform.

X_{AEI} Deployment of individual energy absorber or self-retracting safety cord with clutch.

H_{DR} D-ring height above anchor_{da} is negative if initially the D-ring is below the anchor).

H_F Final height of the D-ring (above the worker's toes) when the fall is arrested.

H_i Initial height of the D-ring (above the working surface) at the start of the drop.

X_L Stretching of the safety cord.

X_W Length after stretching (due to inversion and slippage of the D-ring, the entire harness and the elongation of the worker's body).

8.3 Inspection and maintenance form

Product:

Purchasing date:

Model number:

Manufacturing date:

Date of next inspection:

Date of 1st use:

INSPECTION DATE	LABELS	CORROSION	STRUCTURAL DAMAGE	WELDING	PINS & HARDWARE	OTHER (SPECIFY)	CORRECTIVE ACTION TAKEN (if required)	INSPECTED BY:
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
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	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			

COMMENTS:

*Any failure to follow the Manufacturer's instructions contained in the Instruction and safety manual, including with regard to the inspection and maintenance of the XTIRPA system and of components and parts there of, will cause warranty to become null and void and may result in serious injury or death of the user, for which the Manufacturer disclaims all warranties and liabilities whatsoever, user, owner and purchaser of the XTIRPA system waiving all claims, rights and recourses against Manufacturer and derived there from.

Manufactured by: INNOVA Public Utility Products Inc. 1040 boul. Industriel, Granby, Quebec, Canada J2J 1A4 Tel: (450) 777-1240 Fax: (450) 372-9936

8.4 Registration Form



REGISTRATION LIMITED WARRANTY FORM



This warranty applies only to the original purchaser and is the only one applicable to the Xtirpa System, and is in lieu of all other warranties, expressed or implied. The purchaser has to complete and return to INNOVA Public Utility Products Inc., all information within thirty days of purchase. Otherwise limited warranty will be void, if the product is not registered.

Register now : Mail or fax this registration form or visit our web site and register online.

Mail : Produits services publics Innova Inc., 1040, Boul. Industriel, Granby J2J 1A4

Fax : (450) 372-9936

Web site : www.xtirpa.com

XTIRPA PRODUCT

Product : _____

Purchasing date : _____

Model number : _____

Manufacturing date : _____

Serial number : _____

Supplier : _____

CUSTOMER / USER INFORMATION

Company : _____

Phone : _____

Street address : _____

Fax : _____

City : _____ State : _____

E-Mail : _____

Zip : _____

Name : _____

Do you wish to be on Innova's mailing for new product literature: :

Position : _____

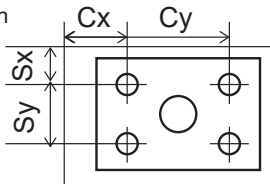
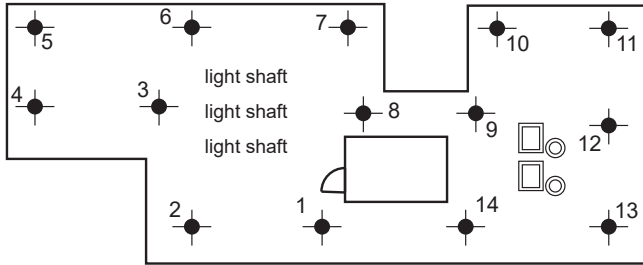
YES ☐ NO ☐

*Anyf allureto followth eM anufacturei-nss tructionso ntainenidn thel nstruction ds afetym anualln cludinwg lthtr egardt thel nspctioann dm aintenancoef theX TIRPAs systema ndo f componenatsn dp artst hereo f,w llic ausew arranttyo becomen ulla ndv oida nd mayr esultin seriousn junyo r deattho f theu ser,f or whichit he Manufactureis claimas l warrantieasn dl lialitiews hatsoevour s er,o wnena ndp urchaseorf theX TIRPAs systemw aivinga ll claimsr, ghtsa ndr ecourseasg ains/Mlt anufacturaent dd erivedth eref rom.

Manufactured by: INNOVA Public Utility Products Inc. 1040 boul. Industriel, Granby, Quebec, Canada J2J 1A4

Tel: (450) 777-1240 Fax: (450) 372-9936

8.5 Schematic plan of the installation

Schematic plan of the installation			
Building/Structure			
Address: _____		Type of order: _____	
Notes: _____		Shape of the roof: _____	
Order number: _____		Anchoring device: _____	
Client			
Name: _____		Telephone number: _____	
Address: _____		Contact: _____	
Installer			
Name: _____		Chief installer: _____	
Address: _____		Telephone number: _____	
Anchoring device			
Manufacturer: _____			
Model/type of identification: _____			
Building's component			
Component 1: for example, concrete ceiling _____		Minimal thickness: for example: 250mm _____	
Component 2: for example, concrete post _____		Minimal thickness: for example: 500mm _____	
Construction material: for example, reinforced concrete _____		Quality: for example: C25/30 _____	
Fasteners/studs			
☐ Data related to the fasteners Data not required in case of a transversal fastener Real situation		Diameter of the drill hole: _____ mm Depth of the drill hole: _____ mm Torque: _____ Nm Distance of the Cx edge: _____ Sx axial spacing: _____ Cy : _____ Sy : _____	
		Type : _____ Material: _____ Minimal distance from edge (c): _____ Minimal axial spacing (s): _____ Minimal thickness of the component: _____ Admissible tensile strength: _____ Admissible breaking strength: _____	
Notes: _____ Drilling method: _____ Trial device: _____		☐ Hammer ☐ Rotating ☐ Torque wrench ☐ Cleaning of the drill hole ☐ Trial device for the fasteners ☐ Impact	
☐ System ☐ Humid ☐ Dry ☐ Yes ☐ No ☐ Yes ☐ No		Floor plan of the roof: 	
Control list:			
☐ Substrate, subject to exceptions (no doubt on the capacity) ☐ The installation respects the manufacturer's instructions ☐ Recommended fasteners used ☐ All the fasteners photographed with an identification number ☐ Visible fasteners ☐ Installation plan affixed on site ☐ Immobilization of the screws by mounting holes ☐ Additional details _____			
Breakout strength (kN), torque required (Nm)?			
Anchorage point 1 _____		Anchorage point 5 _____	
Anchorage point 2 _____		Anchorage point 6 _____	
Anchorage point 3 _____		Anchorage point 7 _____	
Anchorage point 4 _____		Anchorage point 8 _____	
Anchorage point 9 _____		Anchorage point 10 _____	
Anchorage point 11 _____		Anchorage point 12 _____	
Anchorage point 13 _____		Anchorage point 14 _____	
Additional fasteners: _____			
Notes from the Chief installer: _____			
Date: _____		Signature: _____	

NOTES

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NOTES

[illegible]

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES

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NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



SAFETY SOLUTIONS FOR CONFINED AREAS

Headquarters and Manufacturing Plant

Innova Public Utility Products Inc.
1040, boulevard Industriel
Granby, Qc, Canada
J2J 1A4

Phone: 450.777.1240
Toll-free calls: 1.800.461.1937

www.xtirpa.com



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