

INSTRUCTION MANUAL

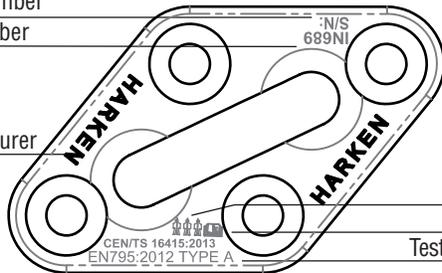
ANCHOR DEVICE - IN689

Part Number: IN689
Max number of users: 3
Rated load for 1 user, Max 150 kg

TRACEABILITY AND MARKINGS

Serial number
Part number

Manufacturer



Max users
Read manual
Testing standards

STANDARDS

Compliant to the tests set out by EN795:2012 Type A, CEN/TS 16415:2013. Max 3 users.

SPECIFICATIONS

Weight	135 grams
Material	316 stainless steel
Recommended Fasteners	4 x M8 (recommend A2 70 SS) Tightening torque 30 Nm
Static Strength	Tested at 24 kN
Life Span	Unlimited
Operating Temperature Range	-50°C to 100°C



WARNING!

This product is part of a personal fall arrest anchor.



WARNING!

This product shall not be used outside its limitation, or for any purpose other than that for which it is intended.

The anchor device should only be used for personal fall protection equipment and not for lifting equipment.



WARNING!

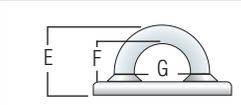
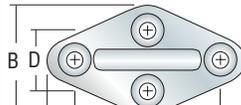
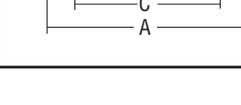
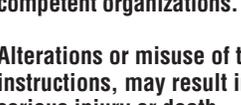
Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions and decisions.

This product must only be used by competent persons or expert users of PPE (Personal Protective Equipment), specially trained on the use of this product.

Before using this equipment, you must:

- Read and understand all instructions for use
- Get specific training in its proper use
- Become acquainted with its capabilities and limitations
- Understand and accept the risks involved

Failure to heed any of these warnings may result in severe injury or death.

	Dims	(mm)	(inches)
	A	98	3.87
	B	59	2.31
	C	73	2.87
	D	35	1.37
	E	40	1.56
	F	22	0.87
	G	27	1.06

It is the installer's responsibility to ensure the suitability of base materials into which the structural anchor device is fixed.

The anchor device should be installed only by competent persons or competent organizations.

Alterations or misuse of this equipment, or failure to follow these instructions, may result in a fall or failure to arrest a fall leading to serious injury or death.

Contact Harken if you have any questions about these instructions.

WARNING!



It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

1. APPLICATION

The IN689 stainless steel anchor device is designed to be an anchorage which can be secured to a structure to which a connection device or personal protective equipment can be attached thus facilitating safe working at height. The anchorage device has been subject to type testing and fully complies with the requirements of EN 795:2012 Type A, CEN/TS16415:2013. They must be used with a full body safety harness (EN361 certified), which is the only acceptable body holding device that can be used in a fall arrest system, a fall arrest device (EN353/2 certified) and an energy absorber (EN 355 certified). The user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 6 kN. Always check that this product is compatible with the other components of your equipment.

WARNING!



When using a combination of items of equipment, a dangerous situation may arise in which the safe function of any one item is affected by or interferes with the safe function of another item.

2. USE

Each time before use, the anchor device should be inspected to ensure that it is in good order. Before using this product, it is mandatory to organize the safety plan in case of emergency that could occur during the work. Inert suspension in a harness can result in serious injury or death. The product must be used only by physically and psychologically healthy personnel. Cardiac and circulatory problems, taking medications, alcohol and drugs could compromise the safety of the user when working at height. Should the equipment be subjected to the forces of arresting a fall, it should be removed from service immediately and replaced. The product must also be removed from service if it fails to pass the inspection, you don't know its full usage history, or you have any doubt as to its reliability.

WARNING!



Do not continue to use this product after a major shock loading or fall arrest, even if no visible signs are present.

3. INSTALLATION & ORIENTATION

It is the installer's responsibility to ensure the suitability of base materials into which the structural anchor device is fixed and that it is capable of sustaining the test forces as detailed in EN 795:2012, Type A, CEN/TS 16415:2013. (14 kN minimum strength). The weakest structural materials have been simulated in laboratory to evaluate the anchor device and its fastening. Anyway, the test results don't supply any information on the structure capability to bear the loads, which can occur during the use. The capability to bear the loads connected to a fall arrest is subjected to different assessments, which are excluded from the application of the Regulations for which the product is certified. The installation should be verified appropriately, e.g. by calculation or testing. The maximum load that can be transmitted to the structure by the anchor is on the order of 14 kN in the horizontal and perpendicular directions. The maximum value of deflection of the anchor device and displacement of the anchor point that can occur in service is 20 mm. Consider this value in order to evaluate the system fall clearance correctly. It is essential for safety that the anchor point should always be positioned, and the work carried out in such a way, as to minimise both the potential for falls and potential fall distance. The anchor point for the system should preferably be located above the user's position. It is essential for safety to verify the fall clearance required beneath the user at work place before each occasion of use so that, in case of a fall, there will be no collision with the ground or other obstacle in the fall path. The design of the fall arrest system must avoid pendulum falls, which could cause post-fall oscillation of the body with possible impact against obstacles. It is necessary to verify the absence of sharp edges, which could damage trailing or looping lanyards or lifelines.

If the marking of the anchor device is not accessible after installation, additional markings near the anchor device are recommended.

4. INSPECTION

Before each use it is necessary to check the condition of the product. Always scrap a product showing signs of wear, which might affect its strength. Ensure all markings/ labels are present and legible. Verify there are no cracks, deformation, corrosion etc. Inspect all pieces of the equipment in the system to ensure they are in good condition and correctly positioned while in use.

It is recommended a regular inspection of the installation, in order to detect possible corrosion and in a corrosive environment, inspect more frequently. An in-depth inspection must be carried out by a competent inspector, at least every 12 months. It is recommended the anchor device is marked with the date of the next or last inspection. This inspection must be recorded as per the example on the next page:

5. MAINTENANCE, STORAGE & TRANSPORTATION

Clean only using non-abrasive cleaning tools and mild liquid soaps. Use soapy water and flush thoroughly with water. Do not let the anchor device come into contact with concrete, asphalt, paints, acids, solvents and chemical reagents.

Store in a dry, ventilated, low humidity and not salty place in order to avoid corrosion and protect the product against impacts, chemical reagents, corrosive materials, solvents or possible damages which could reduce the life span or may affect the performance of the product.

During the storage and the transportation use the original packaging. Do not store at extreme temperatures.

6. WARRANTY

This product is under warranty for 24 months from the date of receipt of the product by the final customer. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed. See full warranty conditions on www.harkenindustrial.com

EU Representative

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