

USER MANUAL

ANCHORAGE POINT VISION

FIXING IN CONTRETE

REF 1009975

COMPLIANCE WITH STATIC AND DYNAMIC TEST OF THE NORM EN 795

CLASSE A1

FIXING WITH
CHEMICAL CAP HILTI HVU M12 (or equivalent)
OR WITH RESIN HILTI HY 150 (or equivalent)
OR WITH ANY FIXATION PROVIDING AN EQUAL OR SUPERIOR
MECHANICAL AND CUTTING RESISTANCE



Date de fabrication date of manufacture: herstellungsdatum /Data di fabbricazione
fecha de fabrication : a data de fabricacao : datum van fabricage : produksjonsdato/...../.....

Date d'achat : date of purchase : kaufdatum : data di acquisto
fecha de compra : a data de compra : datum van aankoop : kjopt dato/...../.....

Date de mise en service : date of first use :datum der inbetriebnahme :
data di messa in servizio / fechade puesta en servicio :a data de primera utilizaçao :
datum i ingebruikname /Tatt i bruk dato/...../.....

Nom de l'utilisateur / Name of user / Name des benutzers / Nom dell'utilizzatore
Nombre del usuario / O nome do utilizador / Naam van de gerbruiker / Brukers navn

Numero de série / Serial number / Seriennummer / Numero di serie
Numero de serie / O numero de serie / Seriennummer / Seriennummer n°.....



35-37 rue de la Bidauderie BP 334 – 18104 VIERZON CEDEX
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BEFORE USING, MAKE SURE THAT :

- Using instructions of each equipment to be used with this material are respected
- This anchorage point is put out of service if it does not meet the inspection requirement before use and replace it immediately
- The anchorage point must be inspected once a year by a competent person, authorized by the Chief Executive of the company. The test results must be detailed in the safety register.
- The anchorage point is in good condition of use : no damage, no distortion, no corrosion
- The concrete on which the anchorage point will be fixed is in good quality without any cracks

NEVER :

- Working above the anchorage point.
- Using the anchorage point as a manutention point.
- Using more than one carabiner on the same anchorage point.
- Modifying the equipment in any way.
- Working without fall arrest device.
- Using a manual locking connector if you use it several times during the day.
- Directly linking a harness to an anchorage point with lanyard without shock absorber in compliance with EN 355.

THIS PRODUCT MUST BE :

- Always used above the operator.
- Inspected before each use.
- Used with components meeting EN 341, EN353/2, EN355, EN 360, EN 361 requirements
- Used by one person only equipped with an energy absorber meeting the above-mentioned norms.
- Used with self-locking connector following the EN 362.
- Used only by trained users.
- Destroyed after a fall.

INSTALLATION/ INSPECTION



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The anchor point is designed to be fixed with a M 12 stainless steel bolt A4 and a nut A4

Choose a good concrete support with a minimum mechanical resistance of 23 MPa

Drilling a hole Ø 14 mm depth 115 mm with appropriate tool

The anchorage must not be placed less than 143 mm of the concrete support edge

The minimum distance between two anchorages must be 165 mm

Placing the resin or the chemical cap delivered with the anchorage into the hole

Screwing the bolt with a drilling machine in order to mix the resin as homogeneous as possible

Leaving the resin become hard during one hour at least (check the time) before use.

Leaving drying during 12 hours.

When dried, screwing a eye bolt on the bolt and making a pulling test (500 daN during 15 seconds) then removing the eye bolt.

Installing the anchor point and blocking it with the self-braking nut.

The maximum strength applied on the anchorage point in case of fall is 600 daN, the minimum strength of wrench of the chemical cap is 3110 daN.

USE SECTORS :

WORKING AT HEIGHT

AFTER A FALL :

- The anchor point must be replaced
- The fixing point must be checked: screwing a eye bolt on the threaded shank and making a pulling test (**1000 daN during 1 minute**) and removing the eye bolt.
Installing a new anchor point and blocking it with the self-braking nut.

The 600 daN generated by a fall are supported by the bottom part. The breaking strength is more than 3500 daN.



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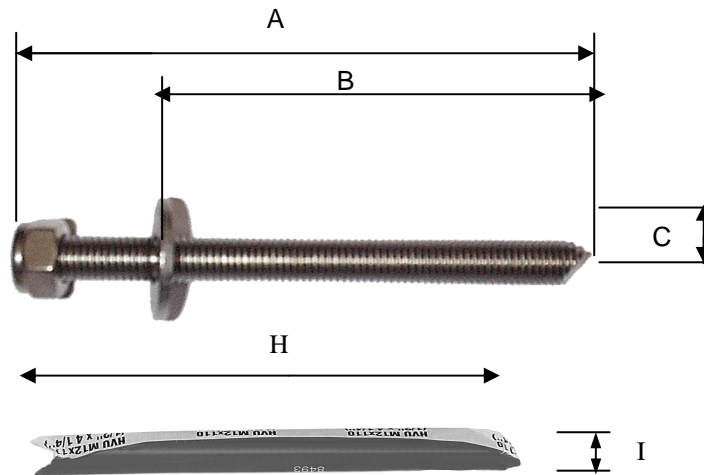
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CONCRETE SUPPORT

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EXAMPLE ET CHARACTERISTIC

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DIMENSIONS:

BOLD

| A (mm) | B (mm) | C (mm) |
|--------|--------|--------|
| 130 | 110 | 12 |

CHEMICAL CAP (resin)

| H (mm) | I (mm) |
|--------|--------|
| 127 | 13 |

MECHANICAL CHARACTERISTICS BY METAL BOLT (STAIN A4 70) IN CONCRETE MINIMUM 23 Mpa

| | |
|--|------|
| Rm (N/mm ²) Nominal pulling resistance | 700 |
| Re (N/mm ²) Nominal elastic limit | 450 |
| As (mm ²) Resistant section | 76.2 |
| Mf (N.m) Acceptable bending moment | 30.2 |



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SERVICE LOAD IN daN

SAFETY MARGIN : 5
MOUNTING HVU M12

| PULLING (angle 0° to 30°) CONCRETE >23 Mpa | OBLIQUE (angle 30° to 60°) CONCRETE >23 mPA | CUTTING (angle 60° to 90°) CONCRETE >23 mPA |
|---|--|--|
| 810 kg | 692 kg | 635 kg |

| SUPPORT TEMPERATURE | TIEM BEFORE HAVING THE RESIN HARD AND BEFORE FIXING THE ANCHOR POINT |
|---------------------|--|
| -5°C to 0°C | 5 hours |
| 0°C to 10°C | 1 hour |
| 10°C to 20°C | 30 minutes |
| >to 20°C | 20 minutes |

MOUNTING INFORMATION HVU M12 / HAS-R M12 (mm)

| | |
|--|-----|
| Minimum thickness of the support | 165 |
| Drilling diameter | 14 |
| Maximum hole diameter | 15 |
| Minimum drilling depth | 115 |
| Minimum distance between 2 points | 110 |
| Entraxe mini entre 2 points | 165 |
| Minimum distance between the concrete edge and the anchorage point | 143 |

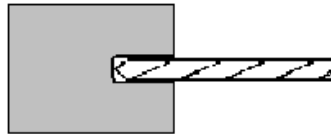


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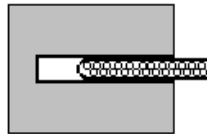
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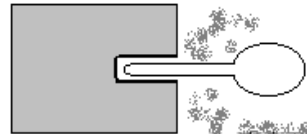
Mounting principal HVU M12 / HAS-R M12 (following the schema below)



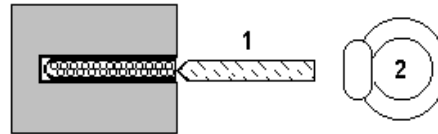
Drilling the hole perpendicular to the surface support



Placing into the hole the complete resin cap



Cleaning the hole in order to remove all dusts



Placing the bolt with a machine (percussion) in order to mix the chemical resin

