Vorpa **AC M12 hook- AC Ø10 wood hook**

Steel anchor for anti-fall nets

concrete | solid brick | natural stone | boards and panels | glulam GL24h

products group

* **AC TOP with TOP M12 Ø18 anchor**

* **TOP anchor certified for non cracked concrete**

Suitable for
- concrete
- solid brick
- natural stone
- boards and panels
- glulam GL24h

To fix
- anti-fall nets
- ropes

* **Test report n° 327950 According to EN 1263**

* **ETAG 001-02 for non cracked concrete**

AC VA with VA M12 Ø15 anchor

AC M12 hook

AC LEGNO hook with wood screw

Test report n° 332232 According to EN 1263

Test report available

product information

Characteristics
- safety hook with an innovative concept. The particular fold given to the hook ensures closure of the same, once the load of fall on the network it reaches the value of 700 daN on concrete and 450 daN on laminated wood
- possibility to insert and unfasten the fall prevention cable on the hook once made the fixing
- the hook is recovered once the work is finished
- high loadability thanks to the adaptation of the eyelet to the anchor
- wide selection of expanding bodies
- wide range of assortment of hooks and anchors

Installation
- to be mounted aligned the wall

Suggestion for use
- always check load bearing capacity values in the table
- respect the installation data
- **clean the hole before the installation**

Examples of applications

Revision 11-2021

Vorpa **AC M12 hook**

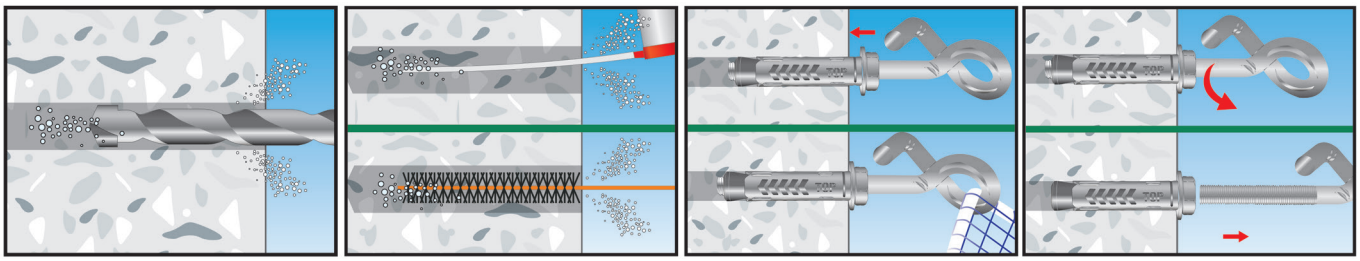
Steel anchor for anti-fall nets

concrete | solid brick | natural stone | boards and panels

installation sequence

1) installation procedure

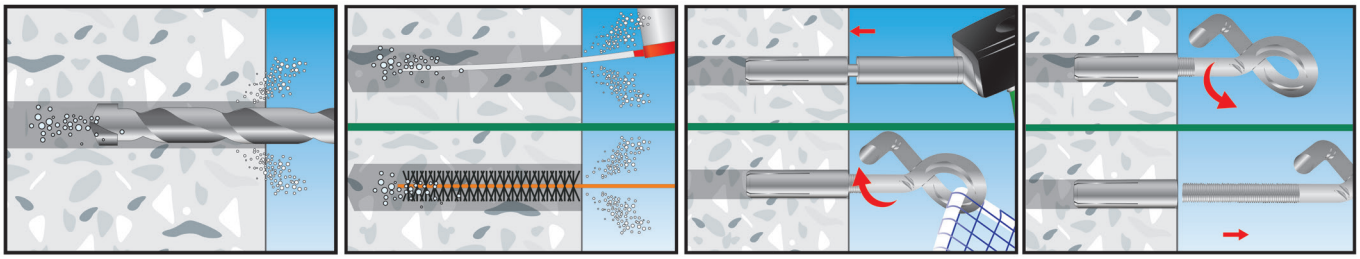
2) to re-use the eyebolt



AC TOP anchor on solid brick

1) installation procedure

2) to re-use the eyebolt



AC VA anchor on thin solid brick

product code and technical data

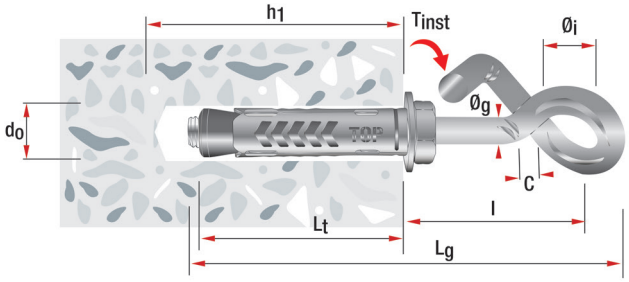
AC TOP * *
with TOP M12 Ø18 anchor

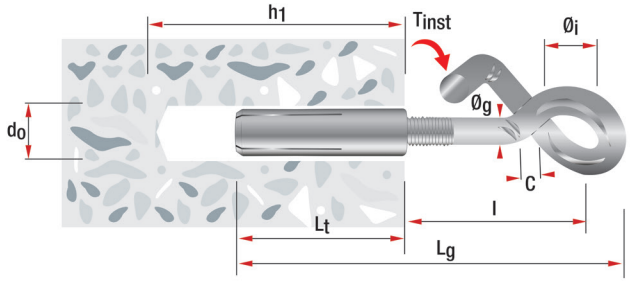
ETAG 001-02 * for non cracked concrete

ISTITUTO GIORDANO — Test report n° 327950 * According to EN 1263

AC VA
with VA M12 Ø15 anchor

Code	Description	d_o mm	L_t mm	h_1 mm	l mm	Øg mm	Thread mm	Øi mm	L_g mm	C mm	T_{inst} mm
9315	AC TOP Ø18	18	75	85	60	10,7	M12	26	160	13	50
9317	AC VA Ø15	15	50	55	55	10,7	M12	26	140	13	35





Accessories

TOP

VA

Code	Description	L_t mm	d_o mm	h_1 mm	For screws Ø mm
713	TOP 12 Ø18	75	18	85	M12
593	VA 12 Ø15	50	15	55	M12
299	VA IMPACTING TOOL				

d_o = Hole diameter
L_t = Anchor length
h_1 = Min. hole depth
l = Axial spacing
$Ø_g$ = Stem of the hook
$Ø_i$ = Internal eyebolt diameter
L_g = Total length of the hook
C = Passage of the rope
T_{inst} = Torque

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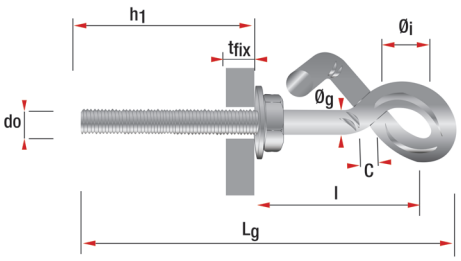
Vorpa **AC M12 hook**

Steel anchor for anti-fall nets

boards and panels

product code and technical data

AC M12 hook



d_o = Hole diameter
h_1 = Min. hole depth
l = Axial spacing
$Ø_g$ = Stem of the hook
$Ø_i$ = Internal eyebolt diameter
L_g = Total length of the hook
C = Passage of the rope
t_{fix} = Fixture thickness

ISTITUTO GIORDANO **Test report n° 327950 According to EN 1263**

Code	Description	do mm	h_1 mm	l mm	$Ø_g$ mm	$Ø_i$ mm	L_g mm	C mm	T_{fix} max mm	Thread mm	Thread length mm
9334	AC GANCIO M12	12	55	55	10,7	26	140	13	35	M12	65

Examples of applications

AC TOP 12 - AC VA 12

Determination of the resistance at the safety hook opening on concrete C20/25 — **1 daN≈1 kg**

720

Notice:

- **the hook is closed at the indicated load (1)**
- **the complete opening of the hook is determined at the maximum load of 1500 daN (2)**

1) Behavior of the hook with pull-out up to 720 daN

2) Behavior of the hook with pull-out 1500 daN

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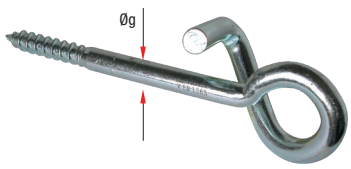
Vorpa **AC Ø10 wood hook**

Steel anchor for anti-fall nets

glulam
GL24h

product code and technical data

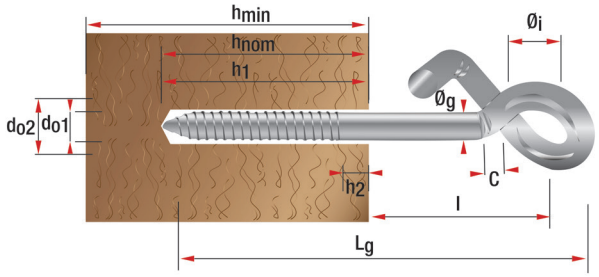


AC LEGNO
hook with wood screw

ISTITUTO GIORDANO

Test report n° 332232
According to EN 1263

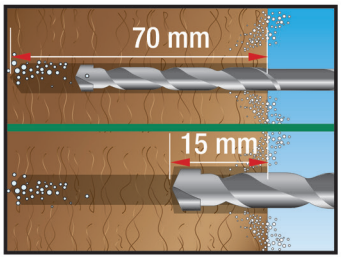
Code	Description	do1 x h1 Øxmm	do2 x h2 Øxmm	hmin mm	hnom mm	Thread length mm	Øg mm	Øi mm	Lg mm	C mm
9322	AC LEGNO Ø10x160	Ø7x70	Ø10x15	80	70	45	10	22	160	13



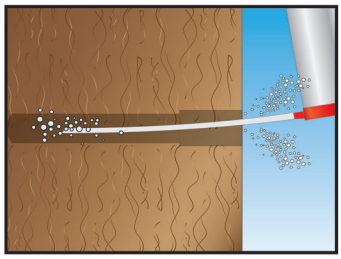
d_{o1} **x** h_1 = Pre-hole diameter x length
d_{o2} **x** h_2 = Second pre-hole diameter x length
h_{min} = Minimum thickness in the wood/beam
h_{nom} = Minimum embedment in the beam
$Ø_g$ = Stem of the hook
$Ø_i$ = Internal eyebolt diameter
L_g = Total length of the hook
C = Passage of the rope

installation sequence

1) installation procedure

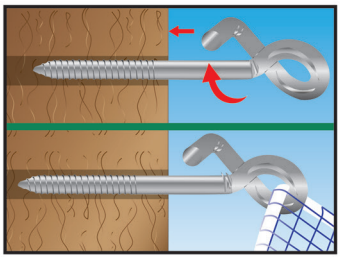


Pre hole with drill Ø7.
Pre hole with drill Ø10

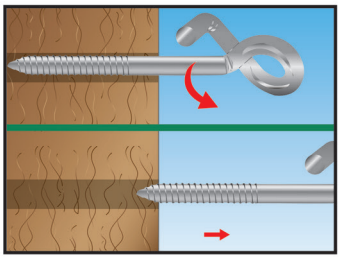


Clean the hole by using proper cleaning brushes and pump

2) to re-use the eyebolt



Thighten up to the dark.
Insert the cable into the hook.



Unscrew the hook and pull it out.

Examples of applications

AC LEGNO Ø10

Determination of the resistance at the safety hook on laminated wood GL 24h	1 daN≃1 kg
	700

ATTENTION: An appropriate safety factor ≥ 3 should be applied on these values

- **It is suggested to always make pull out tests before using the anchors**

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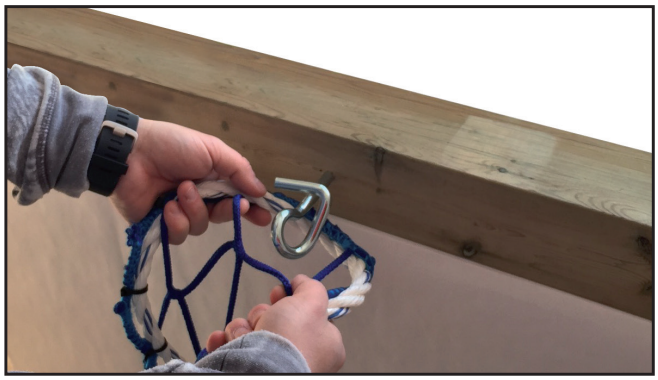
Vorpa **Gancio AC M12 - AC legno Ø10**

Steel anchor for anti-fall nets

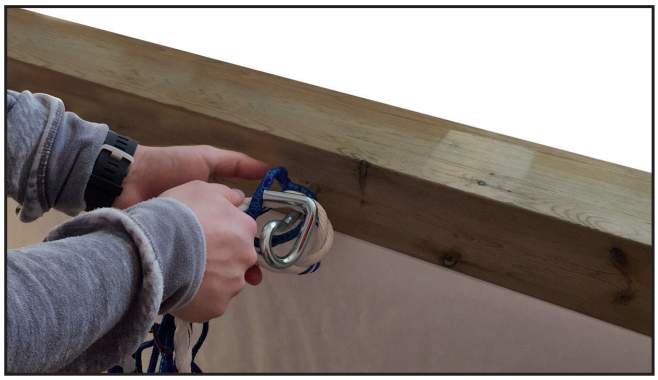
concrete | solid brick | natural stone | boards and panels | glulam GL24h

installation sequence

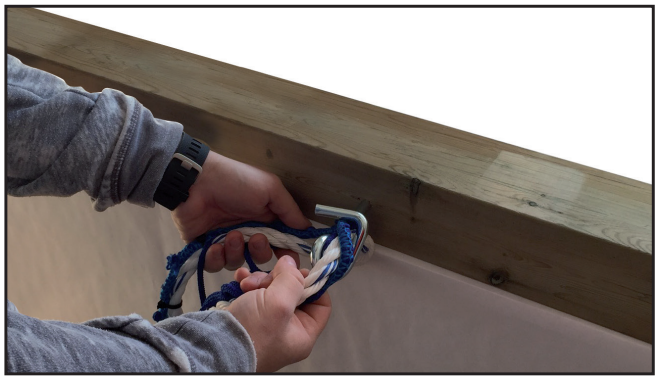
Correct sequence



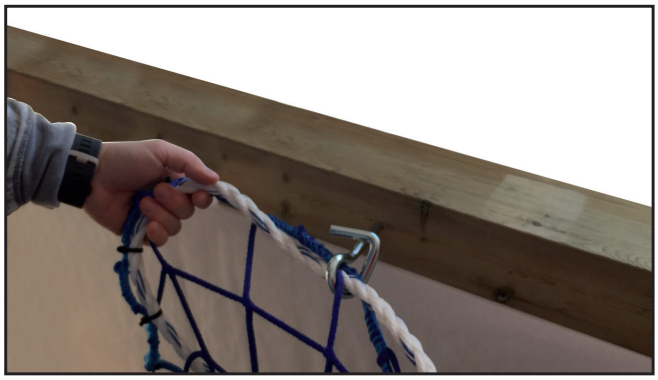
1) Standing in front of the hook, grab the net with both hands and place it under the hook opening



2) The part of the network, held by the right hand, must enter the open hook on the left



3) Hold the net with both hands pulling the ends to facilitate the move into the hook

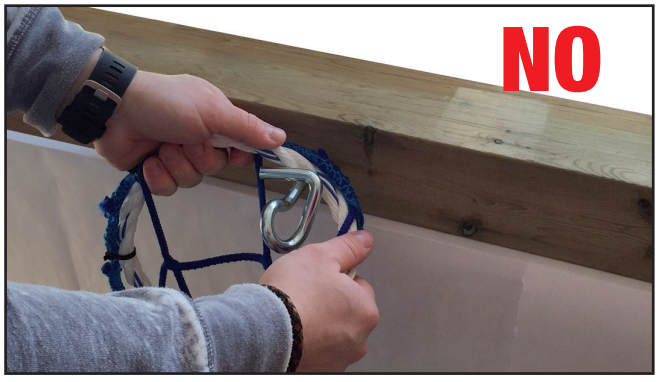


4) The network has entered into the hook. proceed to the next hook

5) The network is entered correctly into the support hooks

Wrong sequence

1) The network is placed in front of the hook opening. NO



2) The network is placed behind the opening of the hook. NO