

INDE

Denomination: **HOLLOW WALL ANCHOR**

Codes: **INCO, INSI, INPISANIN, INPINZANI**

Reference: **FT INDE-en**

Date: **06/02/19**

Revision: 8

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IN-CO



IN-HE



IN-SI



INPISANIN



INPINZANI

CHARACTERISTICS

- Anchor for hollow elements as airbrick, dry wall, plaster wall, etc.
- Maximum load in thin walls due to its expansion design.
- Versions with Ph slotted recess screw, hexagonal head screw and without screw.
- Easy, fast and controlled installation. Requires a special tool.
- Previous installation or thought out the material to be fixed.
- Available special pliers to use in difficult accessibility places.
- After Installation screw can be replaced with another same metric size screw.

BASE MATERIAL



USE EXAMPLES



Examples: Fixing air conditioning systems, television devices, frames, furniture, etc.

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1. RANGE AND ACCESSORIES

CODE	PHOTO	ITEM	MATERIAL
IN-CO		Bolt Sleeve	Zinc plated steel ISO 4042 $\geq 5 \mu\text{m}$ Zinc plated steel ISO 4042 $\geq 5 \mu\text{m}$
IN-HE		Bolt Sleeve	Zinc plated steel ISO 4042 $\geq 5 \mu\text{m}$ Zinc plated steel ISO 4042 $\geq 5 \mu\text{m}$
IN-SI		Sleeve	Zinc plated steel ISO 4042 $\geq 5 \mu\text{m}$
INPISANIN		Body Handle	Steel Plastic covered steel For sizes M4, M5, M6, and M8
INPINZANI		Body Handle	Steel Plastic covered steel For sizes M4, M5 and M6

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2. INSTALLATION DATA

CODE			Bolt metric M [mm]	Ø Drillbit d ₀ [mm]	Bolt length* L [mm]	CASE 1**	CASE 2
Ph slotted recess Bolt	Hexagonal head Bolt	Sleeve only				Base Material h _{min} [mm]	Fixture thickness + Base material t _{fix} + h _{min} [mm]
INCO421	---	INSI421	M4	8	30	1 – 4	1 – 4
INCO432	---	INSI432			41	3 – 9	3 – 9
INCO438	---	INSI438			47	8 – 15	8 – 15
INCO446	---	INSI446			53	16 – 21	16 – 21
INCO459	---	INSI459			67	32 – 38	32 – 38
INCO537	---	INSI537	M5	10	46	5 – 13	5 – 13
INCO552	---	INSI552			59	5 – 16	5 – 16
INCO565	---	INSI565			72	16 – 32	16 – 32
INCO580	---	INSI580			89	32 – 45	32 – 45
---	---	INSI619			-	1 – 2	1 – 2
INCO637	---	INSI637	M6	12	46	5 – 13	5 – 13
INCO652	---	INSI652			59	5 – 16	5 – 16
INCO665	---	INSI665			72	16 – 32	16 – 32
INCO680	---	INSI680			89	32 – 45	32 – 45
---	INHE837	---			45	5 – 13	5 – 13
---	INHE855	INSI855	M8	14	60	5 – 16	5 – 16
---	INHE865	INSI865			73	16 – 32	16 – 32

<p>CASE 1</p> <p>Previous installation</p>	
<p>CASE 2</p> <p>Installation through the fixture</p>	

(*) Bolt is not included for INSI version

(**) t_{fix} depending on the screw used

Both cases, h₁ > L

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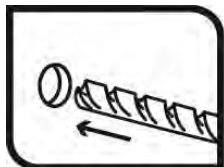
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3. PRODUCT INSTALLATION

3.1 PREVIOUS INSTALLATION



1. DRILL

Drill base material to the specified diameter. Do not use hammerdrill option.

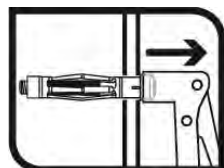


2. INSERT

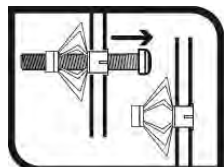
Insert the bolt with the hand until it is fully attached to the base material.



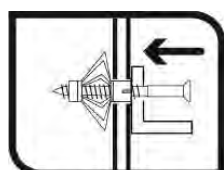
Hammer can be used if necessary.



Place the bolt into the installation gun. Push the trigger until the anchor is fully expanded.



Remove the gun and unthread the bolt.



3. FIXING THE OBJECT

Place the material to be fixed.

Introduce the bolt and fasten it.

In case of difficult access materials special installation gun (INPINZANI) is recommended instead of normal gun (INPISANIN).

In case of using non screw anchor (INSI) the minimum length of the screw to be used must fit the table described in part 2.

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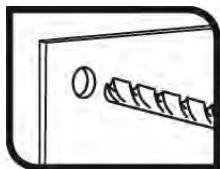
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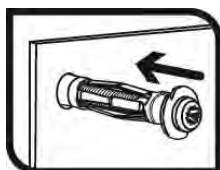
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3.2 INSTALLATION THROUGH THE MATERIAL TO FIX



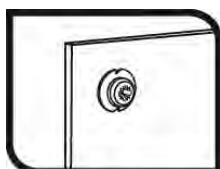
1. DRILL

Drill base material to the specified diameter. Do not use hammerdrill option. Material to fix can be used as template.

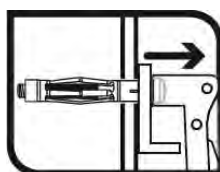


2. INSERT

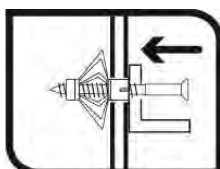
Insert the bolt with the hand until it is fully attached to the base material.



Hammer can be used if necessary.



Place the bolt into the installation gun. Push the trigger until the anchor is fully expanded.



3. FIXING THE OBJECT

Place the material to be fixed.
Introduce the bolt and fasten it.

In case of difficult access materials special installation gun (INPINZANI) is recommended instead of normal gun (INPISANIN).

In case of using non screw anchor (INSI) the minimum length of the screw to be used must fit the table described in part 2

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4. MAXIMUM RECOMMENDED LOADS

CODE			Plasterboard panels						Plaster					
			e = 10 mm		e = 12.5 mm		e = 2x12.5 mm		e = 10 mm		e = 12.5 mm		e = 2x12.5 mm	
Ph slotted recess Bolt	Hexagonal head Bolt	Sleeve only	N _{rec}	V _{rec}	N _{rec}	V _{rec}	N _{rec}	V _{rec}	N _{rec}	V _{rec}	N _{rec}	V _{rec}	N _{rec}	V _{rec}
INCO421	---	INSI421	0.20	0.50	0.20	0.50	---	---	0.20	0.50	0.30	0.60	---	---
INCO432	---	INSI432	0.20	0.50	0.20	0.50	---	---	0.20	0.50	0.30	0.60	---	---
INCO438	---	INSI438	0.20	0.50	0.20	0.50	---	---	0.20	0.50	0.30	0.60	---	---
INCO446	---	INSI446	0.20	0.50	0.20	0.50	---	---	0.20	0.50	0.30	0.60	---	---
INCO459	---	INSI459	0.20	0.50	0.20	0.50	0.30	0.90	0.20	0.50	0.30	0.60	0.50	0.80
INCO537	---	INSI537	0.20	0.50	---	---	---	---	0.25	0.50	---	---	---	---
INCO552	---	INSI552	0.20	0.50	0.20	0.50	---	---	0.30	0.60	0.50	1.00	---	---
INCO565	---	INSI565	0.20	0.50	0.20	0.50	0.40	1.00	0.30	0.50	0.50	1.00	0.90	1.10
INCO580	---	INSI580	0.20	0.50	0.20	0.50	0.40	1.00	0.30	0.50	0.50	1.00	0.90	1.10
---	---	INSI619	0.15	0.40	---	---	---	---	0.20	0.50	---	---	---	---
INCO637	---	INSI637	0.15	0.40	---	---	---	---	0.20	0.50	---	---	---	---
INCO652	---	INSI652	0.20	0.50	0.20	0.50	---	---	0.25	0.80	0.30	1.00	---	---
INCO665	---	INSI665	0.20	0.50	0.20	0.50	0.30	0.90	0.25	0.80	0.30	1.00	0.80	1.80
INCO680	---	INSI680	0.20	0.75	0.20	0.75	0.30	0.90	0.25	0.80	0.30	1.00	0.80	1.80
---	INHE837	---	0.20	0.50	0.20	0.50	---	---	0.40	0.90	0.80	1.20	---	---
---	INHE855	INSI855	0.20	0.50	0.20	0.50	---	---	0.40	0.90	0.80	1.20	---	---
---	INHE865	INSI865	0.20	0.50	0.20	0.50	0.40	1.00	0.40	0.90	0.80	1.20	0.90	1.70

Notes:

- 1kN ≈ 100 kg
- Tension and Shear values must be considered separately.