



TC-MA



TC-MP

**CHARACTERISTICS**

- 2 directions high expansion metal plug made of corrosion resistant zamak alloy
- Different diameters and lengths: Assembly flexibility. Inches and metric versions.
- Better temperature resistance than plastic plugs.
- Zamak alloy plug.
- Zinc-plated carbon steel nail.
- Hammer-in plug, no extra tools needed.
- Recommended for solid materials.

**BASE MATERIALS**



Concrete



Aerated concrete



Reinforced concrete

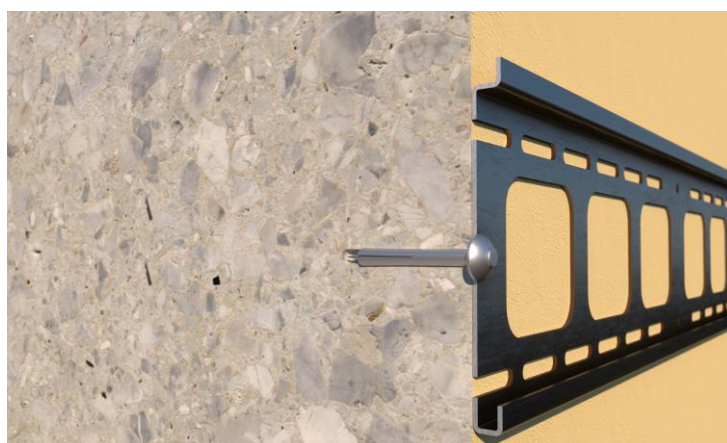


Solid brick



Stone

**APPLICATION EXAMPLE**



2. INSTALLATION DATA

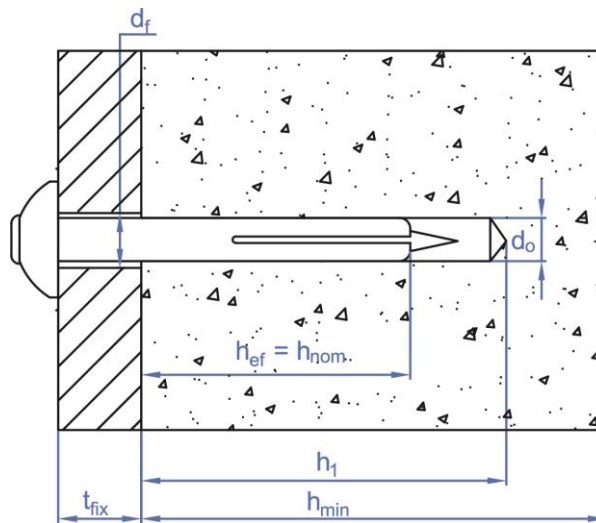
2.1 TC-MP

Inches metal hammer-in plug



Installation data

CODE	$d_o$ : Drill bit diameter	$d_f$ : Fixture clearance hole	Anchor length	$h_1$ : depth of drill hole	$h_{nom}$ : Installation depth	$h_{min}$ : Minimum base material thickness	$t_{fix}$ : Maximum thickness of fixture	Nail
ZNL014100	1/4"	5/16"	1"	1-5/8"	5/8"	4"	3/8"	5/32" x 1-3/8"
ZNL014114			1" x 1-1/4"	2"	1"		1/4"	5/32" x 1-5/8"
ZNL014112			1" x 1-1/2"	2-1/4"			1/2"	5/32" x 1-7/8"
ZNL014200			2"	2-3/4"	1"		5/32" x 2-3/8"	



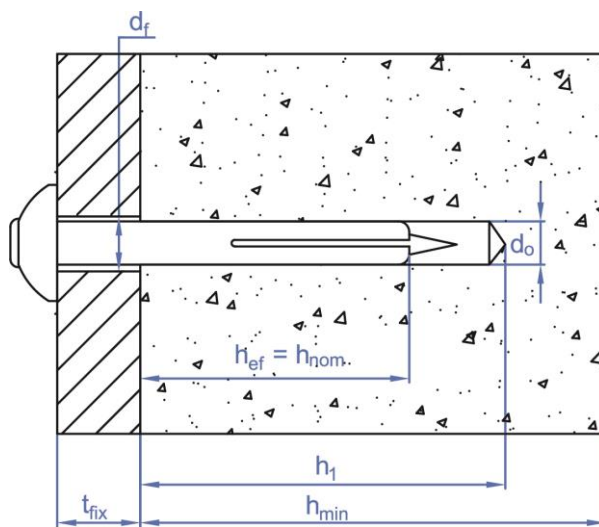
2.2 TC-MA

Metric metal hammer-in plug



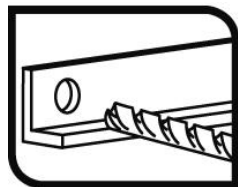
Installation data

CODE	$d_o$ : $\emptyset$ Drill bit diameter	$d_f$ : Fixture clearance hole	Anchor length	$h_1$ : depth of drill hole	$h_{nom}$ : Installation depth	$h_{min}$ : Minimum base material thickness	$t_{fix}$ : Maximum thickness of fixture	Nail
TCMA05022	5	6	22	37	15	100	7	5 x 32
TCMA06030	6	8	30	47	25	100	5	6 x 42
TCMA06040			40	55			15	6 x 50
TCMA06050			50	66			25	6 x 61



### 3. INSTALLATION PROCEDURE

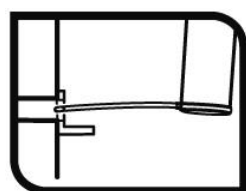
#### TCMA / TCMP



**1. DRILL**

Check concrete is well compacted and porosity insignificant.

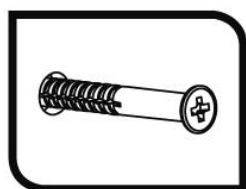
Drilling must be performed at the specified minimum depth and diameter in the previous table.



**2. BLOW AND CLEAN**

Clean hole of dust and debris.

Use blow-pump and cleaning brushes.



**3. INSTALL**

Insert hammering anchor through fixture and hammer in until it is completely inserted. In those applications where it is not possible to use the hammer, use a screwdriver.

### 4. RESISTANCES

The maximum recommended loads in C20/25 non-cracked concrete for an isolated anchor (without spacing and edge distance effects) once the partial safety factor ( $\gamma_f= 1.4$ ) is applied are specified in the table:

#### MAXIMUM RECOMMENDED LOADS

CODE	TENSION [kg]
TCMA M5	44
TC-MA M6 / TC-MP 1/4"	110