TECH

Denomination: **TIE WIRE ANCHOR**	Codes: **TWA**		
Reference: **FT TECH-en**	Date: **17/11/16**	Revision: **6**	Page: **1 of 4**

CHARACTERISTICS

Metal anchor: functioning by expansion

Easy installation.

Use in non-cracked concrete.

Use for medium loads

Previous installation.

WEB PROFILE

BASE MATERIAL

Concrete

Reinforced Concrete

Stone

APPLICATIONS

1. INSTALLATION DATA

1.1 TWA — Tie wire anchor

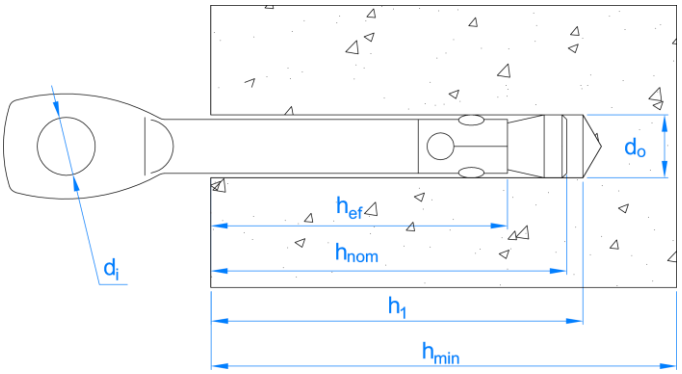
Properties

Carbon Steel

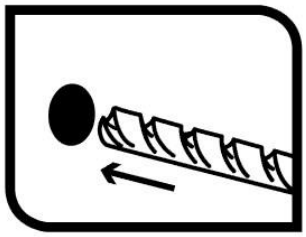
Zinc plated coating ≥ 5µm

Sizes

CODIGO		TWA06060
Ød$_o$: axis diameter	[mm]	6
h$_{ef}$: effective depth	[mm]	40
h$_{nom}$: embedment depth	[mm]	49,5
h$_1$: drill depth	[mm]	55
h$_{min}$: minimum concrete thickness	[mm]	100
d$_i$: hole diameter	[mm]	6
S$_{cr}$: critical spacing	[mm]	120
C$_{cr}$: critical edge distance	[mm]	60
S$_{min}$: minimum spacing	[mm]	50
C$_{min}$: minimum edge distance	[mm]	50



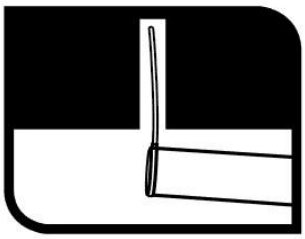
2. INSTALLATION PROCEDURE



1. DRILL

Check concrete is well compacted and porosity insignificant.

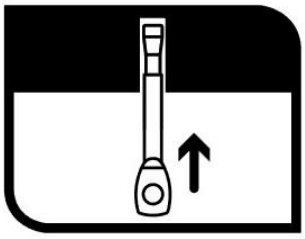
Drilling must be performed at the specified minimum depth and diameter, perpendicular to the base material surface.



2. BLOW AND CLEAN

Clean hole of dust and debris.

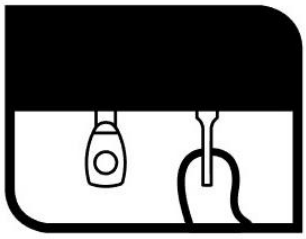
Use blow-pump and cleaning brushes.



3. INSTALL

Introduce anchor 40 mm with the ring just above the base material.

Use a hammer to ensure the required depth if necessary.



4. APPLY TORQUE

Pull the ring perpendicular to the base material expanding the anchor.

3. RESITANCES

3.1 Characteristic Resistance: The characteristic resistance* in C20/25** concrete for an isolated anchor (without spacing and edge distance effects) are specified in the table:

CODE	METRIC	RESISTANCES		
TWA06060	M6	Characteristic Resistance (N_{Rk})	[kN]	*3.51*
		Design Resistance (N_{Rd})	[kN]	*1.95*
		Recommended Resistance (N_{recom})	[kN]	*1.39*

1 KN ≈ 100 Kg