

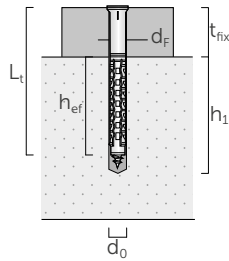
## CE NYLON PLUG WITH SCREW

- Certified use for cracked and uncracked concrete, solid and hollow brick masonry (categories of use a, b, c)
- R90 fire resistance for Ø10 mm
- Plastic anchor for use in concrete and masonry, in non-structural applications
- Complete with zinc plated steel screw with countersunk head
- Through fastening



**Zn**  
ELECTRO  
PLATED

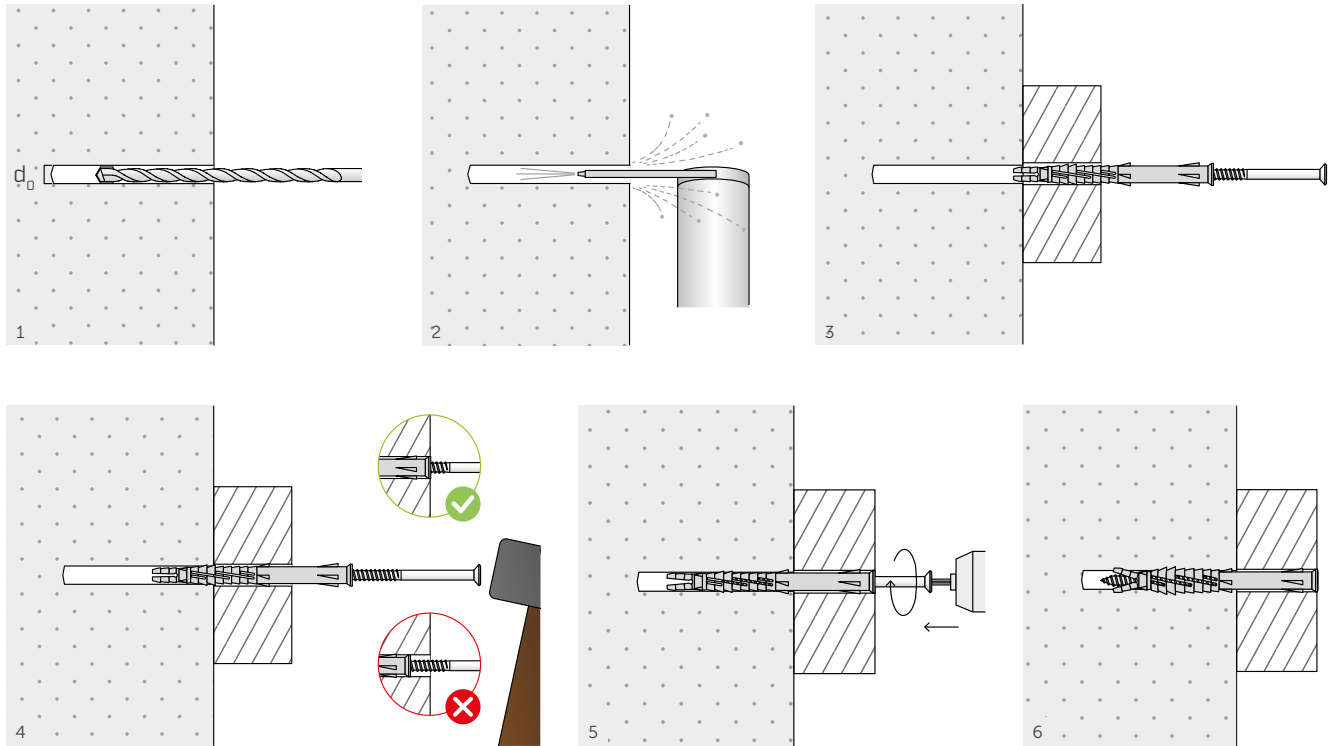
CODE	d <sub>0</sub>		L <sub>t</sub>		d <sub>SCREW</sub> x L <sub>SCREW</sub>		t <sub>fix</sub>		h <sub>1,min</sub>		h <sub>ef</sub>		d <sub>F</sub>	bit	pcs	
	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]				
NSP880	8	0.32	80	3 1/8	6x85	0.24 x 3 3/8	10	3/8	90	3 1/2	70	2 3/4	9	0.355	TX30	50
NSP8100			100	4	6x105	0.24 x 4 1/8	30	1 3/16	90	3 1/2	70	2 3/4	9	0.355	TX30	50
NSP8120			120	4 3/4	6x125	0.24 x 4 15/16	50	1 15/16	90	3 1/2	70	2 3/4	9	0.355	TX30	50
NSP8140			140	5 1/2	6x145	0.24 x 5 11/16	70	2 3/4	90	3 1/2	70	2 3/4	9	0.355	TX30	50
NSP10100	10	0.40	100	4	7x105	0.28 x 4 1/8	30	1 3/16	90	3 1/2	70	2 3/4	11	0.434	TX40	50
NSP10120			120	4 3/4	7x125	0.28 x 4 15/16	50	1 15/16	90	3 1/2	70	2 3/4	11	0.434	TX40	25
NSP10140			140	5 1/2	7x145	0.28 x 5 11/16	70	2 3/4	90	3 1/2	70	2 3/4	11	0.434	TX40	25
NSP10160			160	6 1/4	7x165	0.28 x 6 1/2	90	3 1/2	90	3 1/2	70	2 3/4	11	0.434	TX40	25
NSP10200			200	8	7x205	0.28 x 8 1/16	130	5 1/8	90	3 1/2	70	2 3/4	11	0.434	TX40	25
NSP10230			230	9 1/16	7x235	0.28 x 9 1/4	160	6 1/4	90	3 1/2	70	2 3/4	11	0.434	TX40	25



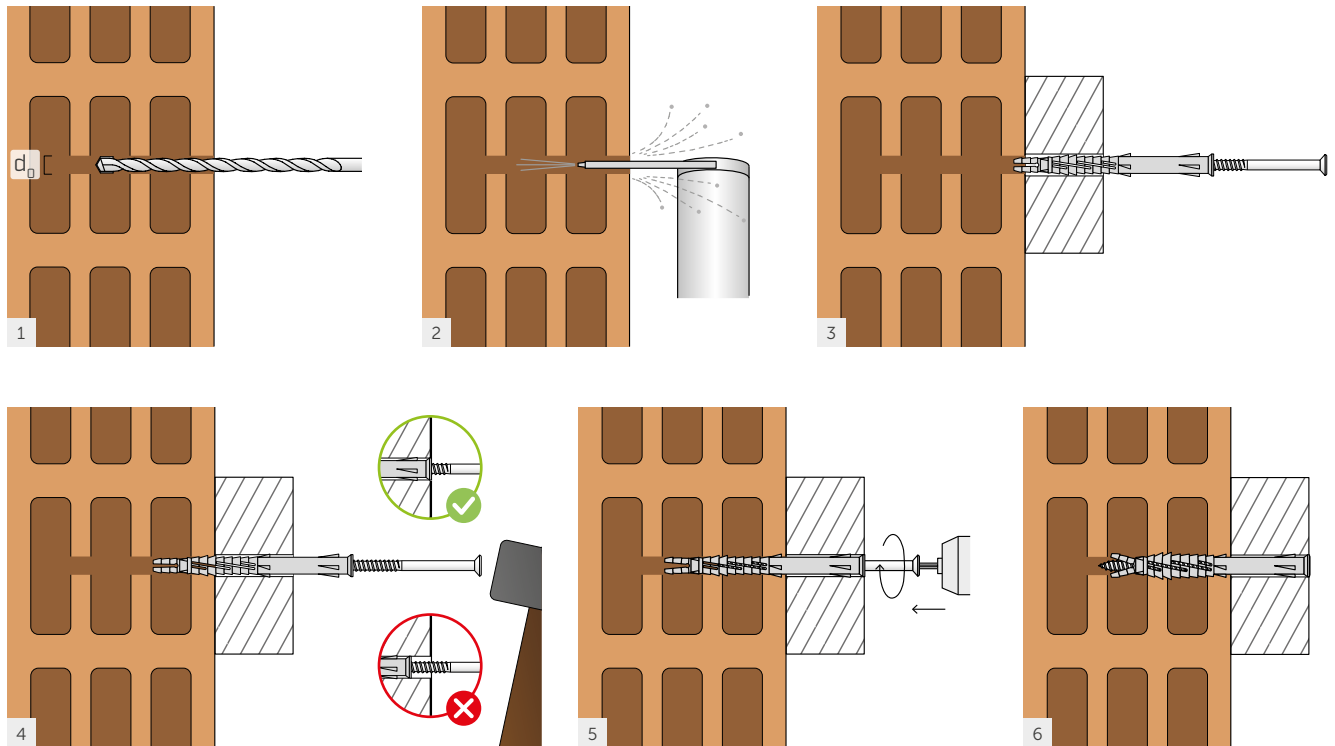
- d<sub>0</sub>** hole diameter in the concrete support
- d<sub>f</sub>** diameter hole in the element to be fastened
- h<sub>ef</sub>** effective anchor depth
- L** anchor length
- t<sub>fix</sub>** maximum fastening thickness
- h<sub>1</sub>** minimum hole depth

## ASSEMBLY

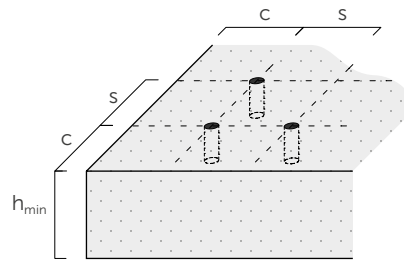
Concrete, solid bricks, autoclaved aerated concrete



Mattone forato



## INSTALLATION



			NSP	
Spacing and minimum distances on concrete $\geq$ C16/20			$\varnothing 8$	$\varnothing 10$
Minimum spacing	$s_{min}$	[mm]	90	100
Minimum edge distance	$c_{min}$	[mm]	90	100
Critical spacing	$s_{cr,N}$	[mm]	75	90
Critical edge distance	$c_{cr,N}$	[mm]	105	105
Minimum support thickness	$h_{min}$	[mm]	110	
Spacing and minimum distances on solid masonry			$\varnothing 8$	$\varnothing 10$
Minimum spacing	$s_{min,\perp}^{(1)}$	[mm]	240	
	$s_{min,\parallel}^{(2)}$	[mm]	480	
Minimum edge distance	$c_{min}$	[mm]	120	
Minimum support thickness	$h_{min}$	[mm]	110	
Spacing and minimum distances on hollow masonry			$\varnothing 8$	$\varnothing 10$
Minimum spacing	$s_{min,\perp}^{(1)}$	[mm]	250	
	$s_{min,\parallel}^{(2)}$	[mm]	500	
Minimum edge distance	$h_{ef}$	[mm]	125	
Minimum support thickness	$c_{cr,N}^{(1)}$	[mm]	120	
Spacing and minimum distances on autoclaved aerated concrete bricks			$\varnothing 8$	$\varnothing 10$
Minimum spacing	$s_{min,\perp}^{(1)}$	[mm]	240	
	$s_{min,\parallel}^{(2)}$	[mm]	480	
Minimum edge distance	$h_{ef}$	[mm]	120	
Minimum support thickness	$c_{cr,N}^{(1)}$	[mm]	240	

<sup>(1)</sup> spacing perpendicular to the edge

<sup>(2)</sup> spacing parallel to the edge

## STRUCTURAL VALUES<sup>(1)</sup>

Valid for a single anchor in thick grade concrete when spacing and edge-distance are not limiting parameters.

### CHARACTERISTIC VALUES

anchor	tension <sup>(2)</sup>			shear <sup>(3)</sup>	
	Temperature range		$\gamma_{Mp}$	$V_{Rk,s}$ [kN]	$\gamma_{Ms}$
	24°C/40°C	50°C/80°C			
$N_{Rk,p}$ [kN]	$N_{Rk,p}$ [kN]				
NSP8	3,5	3,0	1,8	5,6	1,25
NSP10	4,5	4,0		7,7	

#### NOTES

- (1) For the anchor calculation in masonry applications, see ETA-25/0966.
- (2) Nylon screw anchor pull-out, values valid for C16/20 grade concrete in accordance with EN 206:2013 + A1:2016.
- (3) Steel failure mode.

#### GENERAL PRINCIPLES

- Characteristic values according to ETA-25/0966.
- The design values are obtained from the characteristic values as follows:  $R_d = R_k / \gamma_M$ .
- Coefficients  $\gamma_M$  are listed in the table in accordance with the failure characteristics and product certificates.
- For the calculation of anchors with reduced spacing, or too close to the edge, please refer to ETA. Similarly, in case of fastening on concrete-supports with a better-grade, limited thickness or a thick reinforcing layer please see ETA.