



# ECONOMICAL METAL ANCHOR FOR DRYWALL AND HOLLOW BLOCK

Hollow wall metal anchor  
HTB-3 technical supplement



## PRODUCT DESCRIPTION

The Hilti hollow wall anchor HTB-3 consists of a metal channel threaded to accept a machine bolt, and a plastic leg with a locking cap to provide a reliable fastening point for anchoring to drywall and hollow block walls.

## PRODUCT FEATURES

- Plastic leg and locking cap facilitate fastening in a wide range of drywall and hollow wall materials up to 3" thick.
- Spring type mechanism helps ensure the metal channel engages the base material, making installation easy every time.
- Metal teeth increase grip on the base material to prevent metal channel from spinning during installation.
- Remains mounted in the wall without screw for convenient handling, installation, and screw removal and replacement.
- Comprehensive offering with and without machine screws.

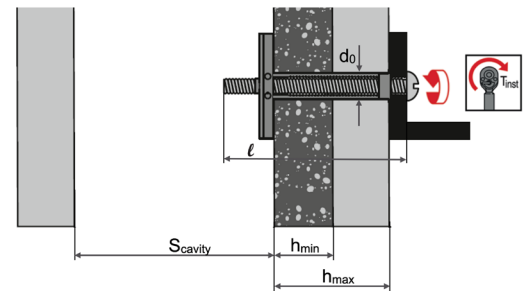


## MATERIAL SPECIFICATIONS

Part	Material
Metal channel	Carbon steel galvanized to 5 microns
Cap washer	Polyamide
Leg	Polystyrene
Screw	Carbon steel galvanized to 5 microns

## INSTALLATION PARAMETERS

Setting Information	Symbol	Units	Nominal Screw Diameter (in)		
			3/16	1/4	3/8
Nominal drill bit diameter	$d_0$	in.	1/2	1/2	3/4
Minimum thickness of drywall	$h_{min}$	in. (mm)	1/2 (12.7)		
Minimum face shell thickness of hollow CMU <sup>1</sup>	$h_{min}$	in. (mm)	1-1/4 (32)		
Maximum thickness of wall	$h_{max}$	in. (mm)	3 (76)		
Minimum space of cavity	$s_{cavity}$	in. (mm)	2-3/8 (60)		
Screw length	$l$	in. (mm)	$1/2 + h + t_{fix}$ (12 + h + $t_{fix}$ )		
Installation torque	$T_{inst}$	ft-lb (Nm)	2 (3)	4 (5)	6 (8)



<sup>1</sup> Applicable for nominal 8" x 8" x 16" lightweight, medium-weight or normal-weight concrete masonry units conforming to ASTM C90.

## TECHNICAL DATA

Allowable Loads For Hilti HTB-3 Hollow Wall Anchor <sup>1</sup>						
Nominal Anchor Diameter (in)	1/2" Drywall		5/8" Drywall		8" Hollow Concrete Block <sup>2</sup>	
	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)
3/16	55 (0.2)	70 (0.3)	85 (0.4)	120 (0.5)	220 (1.0)	255 (1.1)
1/4	55 (0.2)	70 (0.3)	85 (0.4)	120 (0.5)	220 (1.0)	310 (1.4)
3/8	55 (0.2)	90 (0.4)	85 (0.4)	120 (0.5)	220 (1.0)	600 (2.7)

<sup>1</sup> Loads based on a factor of safety of four.

<sup>2</sup> Values are for nominal 8" x 8" x 16" lightweight, medium-weight or normal-weight concrete masonry units conforming to ASTM C90 with  $f'_m = 1,500$  psi minimum.

## INSTALLATION INSTRUCTIONS

Installation Instructions For Use (IFU) are included with each product package. They can also be viewed or downloaded online at [www.hilti.com](http://www.hilti.com) (US) and [www.hilti.ca](http://www.hilti.ca) (Canada). Because of the possibility of changes, always verify that downloaded IFU are current when used. Proper installation is critical to achieve full performance. Training is available on request. Contact Hilti Technical Services for applications and conditions not addressed in the IFU.

## ORDERING INFORMATION

Description	Machine Screw Diameter (in.)	Machine Screw Length (in.)	Bit Diameter (in.)
HTB-3-S Anchor 3/16" SRH <sup>1</sup>	3/16	2-1/2	1/2
HTB-3-S Anchor 3/16" PH <sup>2</sup>	3/16	2-1/2	1/2
HTB-3 Anchor 3/16" <sup>3</sup>	3/16	-	1/2
HTB-3 Anchor 1/4" <sup>3</sup>	1/4	-	1/2
HTB-3-S Anchor 1/4" SRH <sup>1</sup>	1/4	2-1/2	1/2
HTB-3-S Anchor 1/4" PH <sup>2</sup>	1/4	2-1/2	1/2
HTB-3 Anchor 3/8" <sup>3</sup>	3/8	-	3/4
HTB-3-S Anchor 3/8" SRH <sup>1</sup>	3/8	2-1/2	3/4

<sup>1</sup> Slotted round head (combination slotted/Phillips)

<sup>2</sup> Phillips head

<sup>3</sup> Machine screws not included