

3.3.14 Metal Hit Anchor

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3.3.14.1 Product Description

The Hilti Metal Hit Anchor is a drive-in type expansion anchor consisting of a zinc plated or stainless steel drive pin and an alloy expanding body for light duty fastenings in concrete, masonry and brick.

Product Features

- Quick and easy fastening for maximum speed and installation
- Low profile mushroom head style provides a clean, tamper proof fastening
- Anchor design allows easy through-type fastenings even in bottomless holes
- Consistent load values provide light duty fastenings in concrete and masonry
- Choice of stainless steel or carbon steel finish allows outdoor or indoor use

3.3.14.2 Material Specifications

Body material: Aluminum/Zinc Alloy

Drive Pin: Zinc plated carbon steel conforming to AISI 1018. Type 304 Stainless Steel (Stainless Steel Version)

3.3.14.3 Technical Data

Metal Hit allowable loads in normal weight concrete, hollow concrete block and red Clay brick

Anchor size in.	Embed. depth in. (mm)		Concrete						Hollow concrete block				Red clay brick			
			Tension lb (kN)			Shear lb (kN)			Tension lb (kN)		Shear lb (kN)		Tension lb (kN)		Shear lb (kN)	
			2000psi		4000psi	2000psi										
3/16	5/8	(16)	-		-	-			180	(0.8)	180	(0.8)	-		-	
1/4	3/4	(19)	135	(0.6)	210	(0.9)	280	(1.2)	255	(1.1)	320	(1.4)	180	(0.8)	280	(1.2)
1/4	1	(25)	160	(0.7)	240	(1.1)	315	(1.4)	310	(1.4)	320	(1.4)	245	(1.1)	290	(1.3)

For overhead application reduce the allowable load values by a factor of 2.

3.3.14.4 Installation Instructions

Installation Instructions For Use (IFU) are included with each product package.

They can also be viewed or downloaded on line at www.us.hilti.com (US) and 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.

3.3.14.5 Ordering Information

Description	Carbon Item No.	Stainless Item No.	Bolt Diameter ¹ In.	Box Qty
Metal Hit 3/16" x 7/8"	66137	N/A	3/16	100
Metal Hit 1/4" x 3/4"	15538	N/A	1/4	100
Metal Hit 1/4" x 1"	66138	230567	1/4	100
Metal Hit 1/4" x 1-1/4"	66139	230568	1/4	100
Metal Hit 1/4" x 1-1/2"	66140	230569	1/4	100
Metal Hit 1/4" x 2"	45453	230570	1/4	100
Metal Hit 1/4" x 2-1/2"	2173408	2173260	1/4	100
Metal Hit 1/4" x 3"	2173409	2173261	1/4	100