



Attached are page(s) from the 2014 Hilti North American Product Tech Guide. For complete details on this product, including data development, product specifications, general suitability, installation, corrosion, and spacing and edge distance guidelines, please refer to the Technical Guide, or contact Hilti.

HDI-P Drop-in Anchor 3.3.12

3.3.12.1 Product description

The Hilti HDI-P drop-in anchor is an internally threaded, flush mounted expansion anchor for solid and hollow concrete.

Product features

- Optimized anchor length to allow reliable fastenings in hollow core panels, precast plank and post tensioned slabs
- Shallow drilling enables fast installation
- Lip provides flush installation, consistent anchor depth and easy rod alignment

- Setting tool leaves mark on flange when anchor is set properly to enable inspection and verification of proper expansion

Guide specifications

Expansion anchor shall be flush or shell type and zinc plated in accordance with ASTM B633, SC 1, Type III.

Anchors shall be Hilti HDI-P anchors as supplied by Hilti.

Install shell or flush type anchors in holes drilled with Hilti carbide tipped drill bits. Install anchors in accordance with manufacturer's instructions.

3.3.12.1 Product description

3.3.12.2 Material specifications

3.3.12.3 Technical data

3.3.12.4 Installation instructions

3.3.12.5 Ordering information



Listings/Approvals

FM (Factory Mutual) for 3/8-in. model



3.3.12.2 Material specifications

The HDI-P is manufactured from mild carbon steel, which is zinc plated for corrosion protection in accordance with ASTM B633, SC 1, Type III.

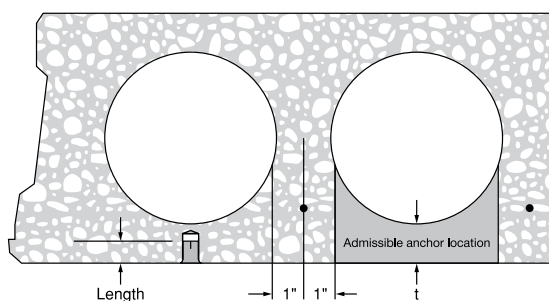
3.3.12.3 Technical data

Table 1 - HDI-P loads in normal-weight concrete and hollow core concrete panels

Nominal anchor diameter	Length in. (mm)	Nom. bit dia. in.	Ultimate loads, lb (kN)				Allowable loads, lb (kN) ³			
			$f'_c = 4000$ psi concrete		Hollow core ^{1,2}		$f'_c = 4000$ psi concrete		Hollow core ^{1,2}	
			Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
1/4	5/8 (15.9)	3/8	1,430 (6.4)	1,870 (8.3)	1,550 (6.9)	2,275 (10.1)	285 (1.3)	375 (1.7)	310 (1.4)	455 (2.0)
3/8	3/4 (19.1)	1/2	1,900 (8.5)	3,000 (13.3)	2,100 (9.3)	4,000 (17.8)	380 (1.7)	600 (2.7)	420 (1.9)	800 (3.6)
1/2	1 (25.4)	5/8	3,000 (13.3)	6,075 (27.0)	3,110 (13.8)	5,495 (24.5)	600 (2.7)	1215 (5.4)	620 (2.8)	1,100 (4.9)

- The Admissible Anchor Location must be established to prevent damage to the prestressed cable during the drilling process. Verify the location and height of the cable with the hollow core plank supplier to confirm Admissible Anchor Location.
- Minimum compressive strength of hollow core panels is 7,000 psi at the time of installation. The minimum thickness "t" is 1 3/8 inches.
- Allowable loads calculated with a 5:1 factor-of-safety.

Figure 1 - Installation of HDI-P in hollow core concrete



3.3.12.4 Installation instructions

Installation Instructions For Use (IFU) are included with each product package. They can also be viewed or downloaded online 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.

3.3.12.5 Ordering information

HDI-P anchor

Description	Bit diameter	Qty / box
HDI-P 1/4	3/8	100
HDI-P 3/8	1/2	100
HDI-P 1/2	5/8	50

Setting tools for HDI-P anchors

Description

HST-P 1/4 Hand Setting Tool
HST-P 3/8 Hand Setting Tool
HSD-G 3/8 Hand Setting Tool with hand guard
HST-P 1/2 Hand Setting Tool