

### 3.3.17 Split Hit Anchor

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#### 3.3.17.1 Product Description

The Hilti Split Hit is a drive-in type anchor. The one-piece anchor is carbon steel with zinc plating and can be used for light duty fastening in concrete.

- Low profile mushroom and flat head style provides a clean, tamper resistant fastening
- Anchor design allows easy through-type fastenings even in bottomless holes
- Consistent load values provide light duty fastenings in concrete

#### Product Features

- Quick and easy fastening for maximum speed of installation

#### 3.3.17.2 Material Specifications

Carbon steel material with zinc coating conforming to ASTM B633 Type III SC1

#### 3.3.17.3 Technical Data

**Table 1 - Hilti Split Hit Anchor Allowable Tension Values in Normal Weight Concrete<sup>1</sup>**

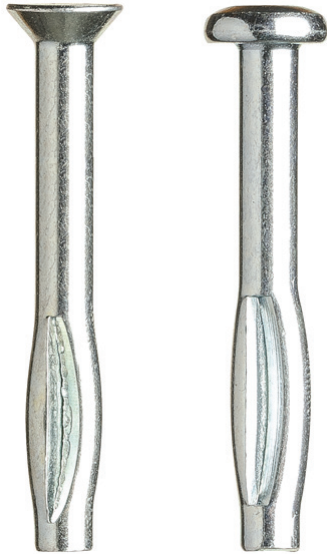
Allowable Tension values lb (kN)					
Concrete strength		2000 psi		4000 psi	
Minimum embedment in. (mm)		1 (25)	1.5 (38)	1 (25)	1.5 (38)
Minimum edge distance in. (mm)		2 (51)			
Spacing in. (mm)	1 (25)	100 (0.44)	150 (0.67)	125 (0.56)	175 (0.78)
	1-1/4 (32)	130 (0.58)	165 (0.73)	150 (0.67)	180 (0.80)
	1-1/2 (38)	135 (0.60)	170 (0.76)	180 (0.80)	215 (0.96)
	1-3/4 (44)	150 (0.67)	190 (0.85)	220 (0.98)	245 (1.09)
	2 (51)	170 (0.76)	200 (0.89)	250 (1.11)	290 (1.29)
	2-1/2 (64)	175 (0.78)	250 (1.11)	305 (1.36)	375 (1.67)

<sup>1</sup> Allowable values based on the average ultimate from testing, using a minimum safety factor of 4.

**Table 2 - Hilti Split Hit Allowable Shear Values in Normal Weight Concrete<sup>1</sup>**

Allowable shear values lb (kN)									
Concrete strength		2000 psi				4000 psi			
Minimum embedment in. (mm)		1 (25)		1.5 (38)		1 (25)		1.5 (38)	
Minimum edge distance in. (mm)		2 (51)	3 (76)	2 (51)	3 (76)	2 (51)	3 (76)	2 (51)	3 (76)
Spacing in. (mm)	1 (25)	110 (0.49)	125 (0.56)	145 (0.65)	180 (0.80)	145 (0.65)	170 (0.76)	190 (0.85)	240 (1.07)
	1-1/4 (32)	130 (0.58)	145 (0.65)	160 (0.71)	210 (0.93)	170 (0.76)	185 (0.82)	210 (0.93)	260 (1.16)
	1-1/2 (38)	145 (0.65)	170 (0.76)	190 (0.85)	240 (1.07)	195 (0.87)	200 (0.89)	225 (1.00)	280 (1.25)
	1-3/4 (44)	205 (0.91)	275 (1.22)	235 (1.05)	350 (1.56)	275 (1.22)	295 (1.31)	315 (1.40)	395 (1.76)
	2 (51)	265 (1.18)	375 (1.67)	280 (1.25)	460 (2.05)	350 (1.56)	390 (1.73)	410 (1.82)	510 (2.27)
	2-1/2 (64)	385 (1.71)	445 (1.98)	465 (2.07)	675 (3.00)	510 (2.27)	585 (2.60)	595 (2.65)	700 (3.11)

<sup>1</sup> Allowable values based on the average ultimate from testing, using a minimum safety factor of 4.



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### 3.3.17.4 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](http://www.us.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.

### 3.3.17.5 Ordering Information

Item No.	Description	Box Qty
2173472	Split bolt HSH 1/4" x 1-1/4" RH	100
2173473	Split bolt HSH 1/4" x 1-1/2" RH	100
2173474	Split bolt HSH 1/4" x 2" RH	100
2173475	Split bolt HSH 1/4" x 2-1/2" RH	100
2173476	Split bolt HSH 1/4" x 1-1/2" FH	100
2173477	Split bolt HSH 1/4" x 2" FH	100
2173478	Split bolt HSH 1/4" x 2-1/2" FH	100
2173479	Split bolt HSH 1/4" x 3" FH	100
2173640	Split bolt HSH 1/4" x 3-1/2" FH	100