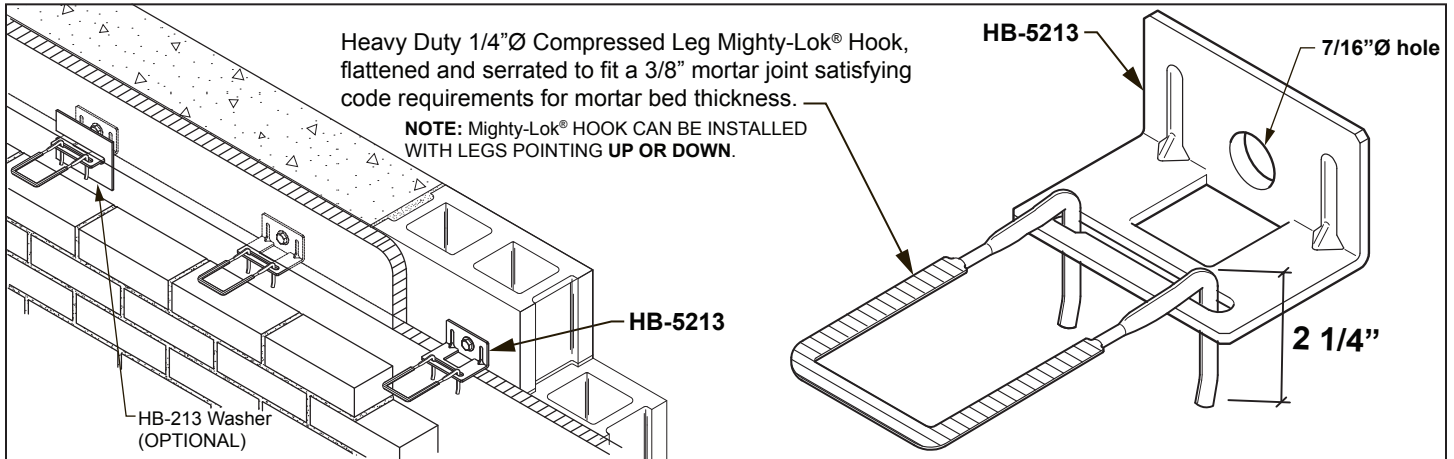


HOHMANN & BARNARD, INC.
a MiTek company

High Strength Systems: Veneer Anchor

HB-5213-HS with Mighty-Lok™ Hook

Adjustable Veneer Anchor w/Brass Expansion Bolt for Concrete & CMU



DRAWINGS FOR ILLUSTRATIVE PURPOSES ONLY

H&B RECOMMENDS 16" X 16" SPACING

Hohmann & Barnard's Mighty-Lok Hook has been tested and designed to withstand over 290-lbf, in tension and compression, at maximum allowed offset (TMS 402/ACI 530 6.2.2.5.5.4) of 1/4" (disengagement of the pintle from the veneer anchor). These results exceed BIA recommendations and the capabilities of standard "round wire" hooks/pintles by over 100%, while maintaining the ASTM A1064/1064M wire specification.

HB-5213 WITH MIGHTY-LOK HOOKS (WORKING LOAD*)

CAVITY	0" OFFSET		1 1/4" OFFSET		2 1/4" OFFSET		TEST
	14 GA	12 GA	14 GA	12 GA	14 GA	12 GA	
4 1/2"	630#	1051#	317#	325#	202#	223#	TENSION
4 1/2"	914#	1026#	293#	290#	191#	196#	COMPRESSION
7 1/2"	546#	921#	317#	331#	206#	217#	TENSION
7 1/2"	608#	920#	294#	270#	186#	192#	COMPRESSION

* WORKING LOAD DETERMINED AT .05" DEFLECTION
Tests were completed for 3" and 6" insulation with 1 1/2" air cavity.

523 Brass Expansion Bolt Technical Data:

Materials:

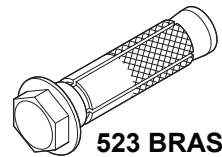
- Internal Bolt: Type 304 Stainless Steel
- Stainless Steel Washer: Type 18-8 Stainless Steel
- Knurled Expansion Sleeve: Brass 260 Alloy
- Expander Cone: Brass 260 Alloy

Ultimate Structural Values* (Tension):

- C-90 CMU Block (Shell) 1720#
- C-90 CMU Block (Rib) 2015#
- Brick Masonry 1550#
- Brick/CMU mortar joint 1435#
- Concrete (3000psi.) 1785#

Dimensions:

- ANSI drill bit size: 3/8"
- Fixture clearance hole: 7/16"
- Internal bolt size: 1/4" - 20
- Head height: 1/4"
- Washer O.D.: 3/4"



523 BRASS EXPANSION BOLT

* Full 1" Embedment. * The ultimate structural values listed above are ultimate load capacities, which should be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.

MATERIAL CONFORMANCE

Wire (Carbon Steel):

Cold-drawn steel wire conforming to **ASTM A1064/A1064M**:
Tensile Strength - 80,000 psi | Yield Point - 70,000 psi minimum
Zinc Coating:

Hot-Dip Galvanized after fabrication: **ASTM A153/A153M-B2** (1.5 oz/ft²)

Wire (Stainless Steel):

ASTM A580/A580M - AISI Type 304 & Type 316

H&B manufactures steel wire products from a minimum of 95% post-consumer recycled material.

Sheet Metal (Carbon Steel): **ASTM A1008/A1008M**

Zinc Coating: Hot-Dip Galvanized: (refer to wire above)

Sheet Metal (Stainless Steel):

ASTM A 666, ASTM A480/480M, and ASTM A240/A240M

AISI Type 304 or 316

U.S. Pat. No. 8,122,663 (Mighty-Lok Hook)

NOTES:

- State overall wall size & cavity or insulation thickness when ordering
- Needs 3/4 inch (19mm) to 1 inch (25mm) minimum air cavity

HB-5213 Anchor Backplate Finish:

Hot-Dip Galvanized | Stainless Steel Type 304 Type 316

H&B recommends Stainless Steel for maximum protection against corrosion

HB-5213 Backplate (Equal to thickness of insulation):

0" 1" 1 1/2" 2" 2 1/2" 3" 3 1/2"
 4" 4 1/2" 5" 5 1/2" 6"

HB-5213 Backplate Thickness:

12 ga. (2.7 mm) 11 ga. (3.1 mm) CUSTOM _____

1/4" Mighty Lok Hook Length:

3" 4" 5" Custom _____

Optional: HB-213 Washer to hold insulation to back-up

IMPORTANT: Since each construction project is unique, the appropriate selection and use of any product contained herein must be determined by competent architects, engineers and other appropriate professionals who are familiar with the specific requirements of the project in question.

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