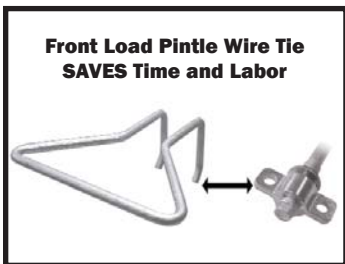
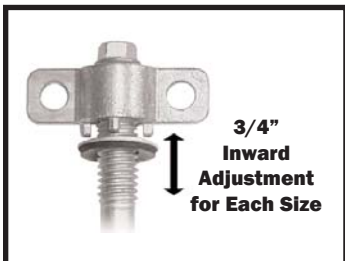
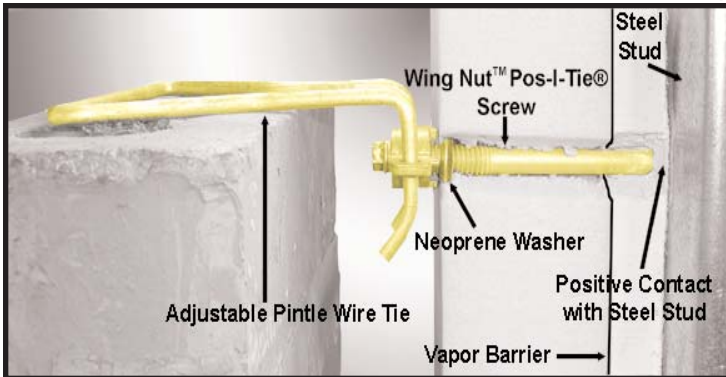


## ARCHITECTURAL SPECIFICATION INFORMATION

# THE WING NUT™ POS-I-TIE®

Patent Pending



### Wing Nut™ Pos-I-Tie® Features

1. *U-Seal Technology™* allows up to 3/4" inward adjustment to fit a variety of combinations of insulations and sheathing, and also creates a water-tight seal. Once installed, the Wing Nut™ is hand tightened to seal the factory-installed washer against the insulation.
2. Easy installation with standard 5/16" hex socket.
3. Front loading of Pintle Wire Tie to save time and labor.
4. The Pintle Wire Tie style allows full vertical adjustment of up to 1 1/4" up or down for easy and proper embedment in mortar bed.
5. The Pintle Wire Tie can be furnished with a seismic clip, where required.
6. Provides positive lateral support directly against the backup wall.
7. Delivers flexible connection to allow differential thermal expansion and bending.
8. Available in Zinc Plated Carbon Steel or Stainless Steel.

### WING NUT™ POS-I-TIE® 6 BARREL LENGTHS

Available  
 Self-Drilling Steel Stud screws  
 and Concrete/CMU screws



### Test Data

The Wing Nut™ Pos-I-Tie® fully complies with the requirements of ACI 530 Masonry Code.

Testing was performed in accordance to ASTM E754.

#### Materials:

Standard brick using type S mortar cured for 28 days.

Wing Nut™ Pos-I-Tie® Screw.

16 gage metal studs.

**Pullout Tension failure average 595 pounds** - Screw pullout of metal stud.

**Compression failure average 803 pounds** - Bond failure between brick and mortar.

### Installation Instructions for the Wing Nut™ Pos-I-Tie® to Steel Studs

\*Always wear eye protection.

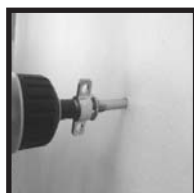
\*When using the drill, keep fingers away from rotating Wing Nut™.



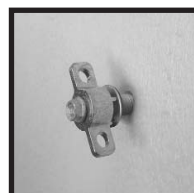
1. Line up screw at stud location



2. Push screw into insulation as far as possible with your hand



3. Use a standard drive for 5/16 hex head



4. Drill into stud



5. Hand tighten Wing Nut™ until washer dimples into the insulation



6. Install Pintle Wire Tie



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**Part 2 Products**

**2.01 Manufacturer**

Heckmann Building Products Inc. - 1501 N. 31st Avenue - Melrose Park, IL 60160-2911  
 800-621-4140 fax 708-865-2640

**2.02 Masonry Veneer Anchors and Ties**

**A. Wing-Nut™ Pos-I-Tie® Anchor Assembly** shall consist of:

Co-polymer coated, one-piece carbon steel screw with factory assembled Zinc alloy wing nut and metal backed neoprene washer. The anchor overall length to be [2-5/8"] [3-1/8"] [3-5/8"] [4-1/8"] [4-5/8"] to suit wall construction composed of [specify sheathing thickness] [specify insulation thickness] [specify airspace].

**B. Pintle Wire Tie** to be made of 3/16" diameter wire and to have overall length of [3"] [3-1/2"] [4"] [5"] [specify custom tie length]. The wire tie to be [Hot dip Galvanized conforming to ASTM A 153 Class B-2], [Mill Galvanized conforming to ASTM A 641], [made of Stainless Steel conforming to ASTM A 580 Type 304]. Embed wire ties a minimum of 1-1/2" into the veneer masonry wall mortar bed, with at least 5/8" mortar or grout cover to the outside face.

**Architectural Specification**

**Determining the Proper Wing Nut™ Pos-I-Tie® Length**

(See chart)

Add up the thickness of the sheathing (insulation + gypsum board). This will be the number that falls between the "Adjustable sheathing dimensions - gray shaded" area on the chart. Add in your airspace and make sure the total distance from the backup to the start of the veneer is less than the overall length of the screw from the backup. If two screws fit the criteria, choose the shorter overall length screw.

**Example:** 5/8" Dens-glass with 2" insulation and 2" airspace. Sheathing thickness is 2-5/8". Distance from backup to start of veneer is 4-5/8". Both the 3-5/8" screw and the 4-1/8" screw fit the criteria. Specify the 3-5/8" long screw.



**No. 77 Wing Nut™ Pos-I-Tie® System**

Wing-Nut™ Pos-I-Tie® Length Chart		5	4	3	2	1	Backup
Overall length of screw from backup	Adjustable sheathing dimensions from backup (gray shaded)						
51mm	13mm-28.5mm						
2-5/8"	1" - 1-3/4"						
67mm	25mm-44mm						
3-1/8"	1-1/2" - 2-1/4"						
79mm	38mm-57mm						
3-5/8"	2" - 2-3/4"						
92mm	51mm-70mm						
4-1/8"	2-1/2" - 3-1/4"						
105mm	63.5mm-83mm						
4-5/8"	3" - 3-3/4"						
117mm	76mm-95mm						

Dens Glass Gypsum Thickness	Insulation Thickness	Airspace	Wing Nut™ Length
0	2"	1"	2-5/8"
1/2"	1-1/2"	1"	2-5/8"
5/8"	1-1/2"	1"	2-5/8"
0	1-1/2"	2"	2-5/8"
1/2"	1"	2"	2-5/8"
5/8"	1"	2"	2-5/8"
0	2-1/2"	1"	3-1/8"
1/2"	2"	1"	3-1/8"
5/8"	2"	1"	3-1/8"
0	2"	2"	3-1/8"
1/2"	1-1/2"	2"	3-1/8"
5/8"	1-1/2"	2"	3-1/8"
0	3"	1"	3-5/8"
1/2"	2-1/2"	1"	3-5/8"
5/8"	2-1/2"	1"	3-5/8"
0	2-1/2"	2"	3-5/8"
1/2"	2"	2"	3-5/8"
5/8"	2"	2"	3-5/8"
0	3-1/2"	1"	4-1/8"
1/2"	3"	1"	4-1/8"
5/8"	3"	1"	4-1/8"
0	3"	2"	4-1/8"
1/2"	2-1/2"	2"	4-1/8"
5/8"	2-1/2"	2"	4-1/8"
0	4"	1"	4-5/8"
1/2"	3-1/2"	1"	4-5/8"
5/8"	3-1/2"	1"	4-5/8"
0	3-1/2"	2"	4-5/8"
1/2"	3"	2"	4-5/8"
5/8"	3"	2"	4-5/8"