

SAMMYS®

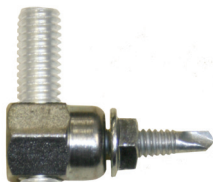
Anchors for Steel

*Installs into steel
structures easily
and quickly!*

*Available
in Vertical,
Horizontal and
Swivel Head*



VERTICAL MOUNT



SIDEWINDERS®
FOR STEEL
HORIZONTAL
MOUNT

DESCRIPTION/SUGGESTED SPECIFICATIONS

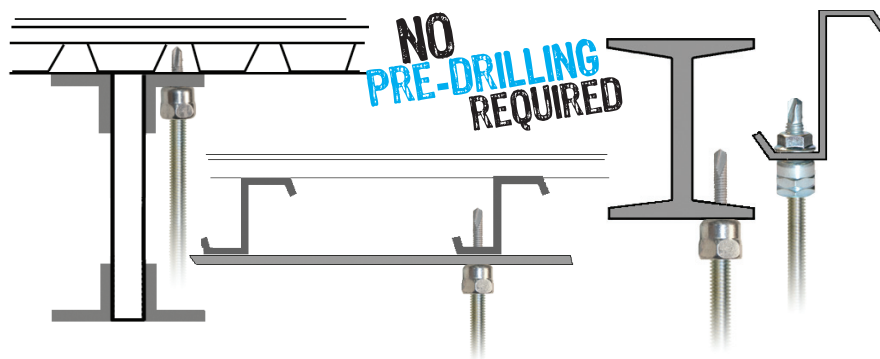
Self drilling & self tapping into steel up to 1/2" thick—

The Steel Sammy is made using Tek® self-drilling fasteners, perfect for Hanging Sprinklers, Pipes, Electrical Fixture or HVAC Equipment to steel purlin, structural beams, and open web joist. The Steel Sammy is available in vertical mount, horizontal mount, and Swivel mount to accommodate all fastening situations.

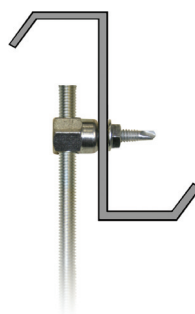
ADVANTAGES

- Made with Tek® self-drilling fasteners – no pre-drilling required.
- Install into steel range from 22 gauge – 1/2" thickness
- Saves time from traditional methods.
- Reduces installation cost.
- Quick to install using the Sammy Nut Driver with a no load speed 2000-2500 rpm, minimum 6 amps drill/driver.

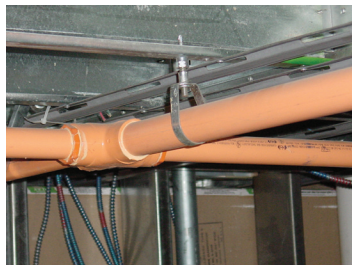
Sammy's Vertical Mount Product Features



Sammy's Sidewinder® Product Features



APPLICATIONS



Sprinkler Systems

Pipes/Plumbing

Electrical Lighting and Fixtures

HVAC Equipment and Fixtures



Sammy Swivel Head Product Features

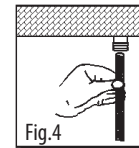
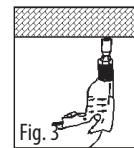
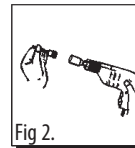
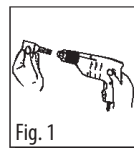
- Eliminates distortion of threaded rod in sloped roof applications.
- Accommodates up to 3 1/2" x 12 pitch.
- Installs into angled Z-Purlin; Allows threaded rod to hang plumb.
- Allows 17° deflection from vertical.



APPROVALS

See Selection Chart for items with approvals.

INSTALLATION INSTRUCTIONS VERTICAL MOUNT



1. Insert the appropriate nut driver into a 3/8" or 1/2" portable drill.
2. Insert the SAMMYS into the #14 (black) nut driver (p/n 8113910). Drill should be in a vertical position.
3. Push the face of the nut driver tight to the member. When the nut driver spins freely on the SAMMYS, stop drill and remove.
4. The SAMMYS is now ready to receive 1/4", 3/8", 1/2" or metric all thread rod, bolt stock. (The 1/2" requires the #14SW red nut driver)

Important Vertical Installation Notes

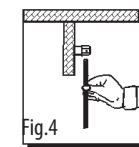
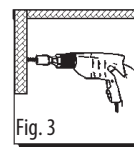
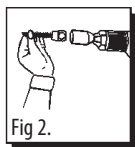
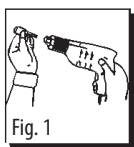
Warranty requires the use of appropriate nut drivers for installation.

Model #14 Nut Driver Item No: 100 Color: Black

Use With Sammys for 1/4" and 3/8" Rod PN 8113910

Eye protection should be worn at all times when installing this product.

INSTALLATION INSTRUCTIONS HORIZONTAL MOUNT



1. Insert the appropriate nut driver into a 3/8" or 1/2" portable drill.
2. Insert the SAMMYS into the #14W (red) nut driver (p/n 8114910). With drill unit in a horizontal position and at a right angle to the structural member, begin installation.
3. When the nut driver spins free on the SAMMYS, stop drill and remove.
4. The unit is now ready to receive 1/4", 3/8", or metric all thread rod, bolt stock.

Important Horizontal Installation Notes

Warranty requires the use of appropriate nut drivers for installation. Sidewinders must be

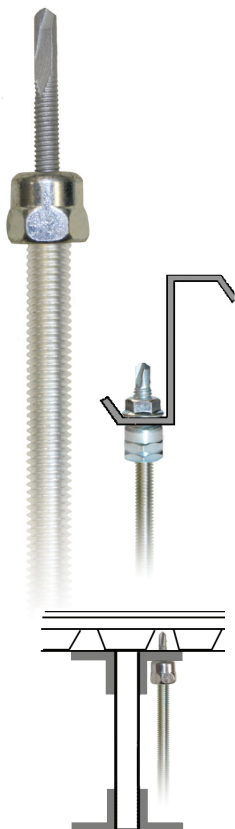
installed using Model #14SW (Red) nut driver only. Item No: 101 PN: 8114910

Eye protection should be worn at all times when installing this product.

SELECTION CHART

SAMMYS Vertical Mount

■ Part # 8113910 ■ Part # 8114910 ■ Part # 8273910



ROD SIZE	PART NUMBER	MODEL	DESCRIPTION	ULTIMATE PULLOUT (LBS)	UL LISTED	TEST LOAD (LBS)	FM APPROVED	TEST LOAD (LBS)	MIN THICKNESS	MAX THICKNESS	BOX QTY	CASE QTY	NUT DRIVER
1/4"	8024957	DSTR 100 *	1/4-20 x 1" TEKS 3	1510 (20 ga.)					.036"-20 ga	3/16"	25	125	Part # 8113910
1/4"	8025957	DST 100	1/4-14 x 1" TEKS 3	446 (20 ga.)					.036"-20 ga	3/16"	25	125	
1/4"	8030957	TEK 500	12-24 x 1-1/2" TEKS 5	3125 (3/16")					.187"-3/16"	1/2"	25	125	
3/8"	8038957	DSTR 1 *	1/4-20 x 1" TEKS 3	1510 (20 ga.)	1500	1475			.036"-20 ga	3/16"	25	125	
3/8"	8039957	DSTR 516 *	5/16-18 x 1-1/4" TEKS 3	2200 (20 ga.)	1500	1475			.036"-20 ga	1/8"	25	125	
3/8"	8040957	DST 10	1/4-14 x 1" TEKS 3	446 (20 ga.) 970 (16 ga.)					.036"-20 ga	3/16"	25	125	
3/8"	8077925	DST 10-SS	1/4-14 x 1" TEKS 3	446 (20 ga.) 970 (16 ga.)					.036"-20 ga	3/16"	25	125	
3/8"	8041957	DST 15	1/4-14 x 1-1/2" TEKS 3	446 (20 ga.) 970 (16 ga.)					.036"-20 ga	3/16"	25	125	
3/8"	8042957	DST 20	1/4-14 x 2 TEKS 3	446 (20 ga.) 970 (16 ga.)					.036"-20 ga	3/16"	25	125	
3/8"	8044957	DST 30	1/4-14 x 3" TEKS 3	446 (20 ga.) 970 (16 ga.)					.036"-20 ga	3/16"	25	125	
3/8"	8045957	DST 516	5/16-18 x 1-1/4" TEKS 3	1500 (3/16")	1500	1475			.125"-1/8"	1/8"	25	125	
3/8"	8046957	TEK 50	12-24 x 1-1/2" TEKS 5	3125 (3/16")	1500	1475			.187"-3/16"	1/2"	25	125	
1/2"	8034925	DSTR 5.16 *	5/16-18 x 1-1/4" TEKS 3	2220 (20 ga.)					.036"-20 ga	1/8"	25	125	Part # 8114910
1/2"	8036925	TEK 5.0	12-24 x 1-1/2" TEKS 5	3125 (3/16")					.187"-3/16"	1/2"	25	125	

*Includes retaining nut

SAMMYS Swivel Head®



ROD SIZE	PART NUMBER	MODEL	DESCRIPTION	ULTIMATE PULLOUT (LBS)	UL LISTED	TEST LOAD (LBS)	FM APPROVED	TEST LOAD (LBS)	MIN THICKNESS	MAX THICKNESS	BOX QTY	CASE QTY	NUT DRIVER
3/8"	8137957	SH-DSTR 1 *	1/4-20 x 1" TEKS 3	3220 (3/16")		1500	1475		0.35"	3/16"	25	125	Part # 8113910
3/8"	8268957	SH-TEK50	12-24 x 1-3/4" TEKS 5	2368 (1/2" steel Vertical) 1306 (45° off Vertical) 2281 (3/16" HSS) 1585 (3/16" HSS 45° off Vertical)		1500 (Vertical) 850 (45° off Vertical)	4" 2-1/2"		3/16"	1/2"	25	125	Part # 8273910
1/2"	8270957	SH-TEK 5.0	12-24 x 1-3/4" TEKS 5	2368 (1/2" steel Vertical) 1306 (45° off Vertical) 2281 (3/16" HSS) 1585 (3/16" HSS 45° off Vertical)					3/16"	1/2"	25	125	

*Includes retaining nut

SELECTION CHART

SAMMYS Horizontal Mount



■ Part # 8113910 ■ Part # 8114910 ■ Part # 8273910



ROD SIZE	PART NUMBER	MODEL	DESCRIPTION	ULTIMATE PULLOUT (LBS)	UL LISTED	TEST LOAD (LBS)	FM APPROVED	TEST LOAD (LBS)	MIN THICKNESS	MAX THICKNESS	BOX QTY	CASE QTY	NUT DRIVER
3/8"	8050957	SWD 10	1/4-14 x 1" TEKS 3	1477 (16 ga.)					.060"-16 ga	3/16"	25	125	Part # 8114910
3/8"	8080925	SWD 10-SS	1/4-14 x 1" TEKS 3	1477 (16 ga.)					.060"-16 ga	3/16"	25	125	
3/8"	8051957	SWD 15	1/4-14 x 1-1/2" TEKS 3	1477 (16 ga.)					.060"-16 ga	3/16"	25	125	
3/8"	8055957	SWDR 1 *	1/4-20 x 1" TEKS 3	1900 (20 ga.)		1500		1475	.036"-20 ga	3/16"	25	125	
3/8"	8054957	SWDR 1-1/2 *	12-24 x 1-1/2" TEKS 5	2375 (3/16")		1500		1475	.188"-3/16"	1/2"	25	125	
3/8"	8056957	SWDR 516 *	5/16-18 x 1-1/4" TEKS 3	2480 (20 ga.)		1500		1475	.036"-20 ga	1/8"	25	125	
3/8"	8057957	SWT 15	12-24 x 1-1/2" TEKS 5	2375 (3/16")					.187"-3/16"	1/2"	25	125	

SPECIAL NUT DRIVER SYSTEM: The nut drivers were designed with a unique spin-off feature which provides a fast and safe installation each time. When the face of the driver comes into contact with the material you are installing into, continue drilling until nut driver spins free. Installation is then complete. Warranty requires the use of the appropriate nut driver for installations.

PERFORMANCE TABLES

Sheet Steel Gauges

GAUGE NO.	26	24	22	20	18	16	14	12	3/16"	1/4"
Nominal Decimal Equivalent	.018	.024	.030	.036	.048	.060	.075	.105	.188	.250

Ultimate Pullout Values (avg. lbs. ultimate) - SAMMYS

FASTENER			STEEL GAUGE (lbs.)						
MODEL	DIA.	PT	20	18	16	14	12	3/16	1/4
DST	1/4	#3	446	613	970	1145	1544	3190	-----
DST 516	5/16	#3	457	568	1209	1712	2422	-----	-----
TEK 50	#12	#5	-----	487	699	913	1527	3270	3593
DSTR 1-1/2"	#12	#5	-----	-----	-----	-----	-----	3270	3593
DSTR 1"	1/4	#3	1510	-----	-----	-----	-----	-----	-----
DSTR 516	5/16	#3	2200	-----	-----	-----	-----	-----	-----

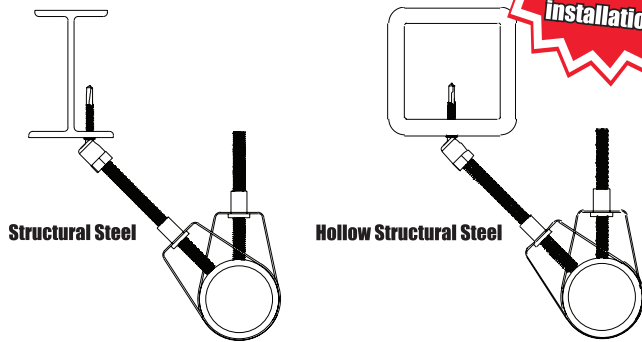
Aluminum Curtain Wall Extrusion Ultimate Pullout Values

(AVERAGE LBS. ULTIMATE)						
FASTENER			THICKNESS			
MODEL	DIA.	PT.	.114	.092	.365	.132
DST 10	1/4	#3	1265	-----	2750	-----
SWD 10	1/4	#3	-----	1120	-----	1420

Ultimate Pullout Values (avg. lbs. ultimate) - SIDEWINDERS

FASTENER			STEEL GAUGE (lbs.)						
MODEL	DIA.	PT	20	18	16	14	12	3/16	1/4
SWD	1/4	#3	-----	-----	1477	-----	-----	-----	-----
SWDR 1-1/2"	#12	#5	2375	-----	-----	-----	-----	-----	-----
SWDR 1"	1/4	#3	1900	-----	-----	1900	-----	-----	-----
SWDR 516	5/16	#3	2480	-----	-----	2480	-----	-----	-----

Swivel Head Tek® for Seismic Restraint



FOR 3/8" AND 1/2" RODS

SH-TEK 50 FOR 3/8" ROD

Structural attachment for installation of branch/end of line restraint using 3/8" all thread (.299" OD) or end thread rod (.374" OD).

Designed for use in bar joist, I-beam, rectangular, square, and circular hollow structural steel ranging from 1/8" to 1/2" in low slope or pitched roof designs (12/12). It may be used to attach short length of rod to eliminate lateral sway bracing per NFPA 13, 9.3.5.3.8, (2007).

Provides upper structural attachment in a wide range of steel thicknesses, from 1/8" through 1/2". This fastening system provides a secure and economical attachment to the structure.

SH-TEK 5.0 FOR 1/2" ROD

Structural attachment for installation of branch/end of line restraint using 1/2" all thread (.405" OD) or end thread rod (.500" OD).

Designed for use in bar joist, I-beam, rectangular, square, and circular hollow structural steel ranging from 1/8" to 1/2" in low slope or pitched roof designs (12/12). It may be used to attach short length of rod to eliminate lateral sway bracing per NFPA 13, 9.3.5.3.8, (2007).

Provides upper structural attachment in a wide range of steel thicknesses, from 1/8" through 1/2". This fastening system provides a secure and economical attachment to the structure.

DESCRIPTION

FEATURES

- Structural attachment and restraint component combined; ready for selected rod.
- No pre-drilling.
- Access to the back of fastener not required.
- Does not require use of a retaining nut.
- Quick and easy installation.

BENEFITS

- Reduced installation cost.
- Reduced material coordination.
- Less on site material (GO GREEN).
- Aesthetically pleasing.



SPECIFICATIONS

FOR 3/8" ROD AND 1/2" ROD

Restrained Pipe Size: Up to Schedule 40 pipe 2" or less

Max Length of

Restraint Material: See Maximum Horizontal Load Tables below.

Maximum Angle: 45° from horizontal

Material: Carbon Steel

Screw Description: 12-24 x 1-3/8" Tek® 5 milled point

Finish: Electro-zinc (cap), Climaseal® (fastener)

Testing: Tested to GR-63-CORE Standard for performance in structural steel in seismic restraint applications as outlined for use in NFPA 13 (2007), 9.3 at an independent test lab. The calculated force used for the testing was equal to that found in a Zone 4 and an 8.4 Richter scale seismic event.

Listing for 3/8" Rod: UL 203 listed as pipe hanger File EX 5098

- Perpendicular to structural member – 4" Schedule 40 pipe
- 45° off vertical – 2-1/2" Schedule 40 pipe



UL 203A File EX 15565



Listing for 1/2" Rod:

UL 203A File EX 15565



SELECTION CHART

SAMMYS Swivel Head Tek® - Seismic Restraint

ROD SIZE	PART NUMBER	MODEL	MIN THICKNESS	MAX THICKNESS	APPLICATION	BOX QTY	CASE QTY	INSTALLATION TOOL
3/8"	8268957	SH-TEK 50	1/8"	1/2"	Structural Steel*	25	125	Must be installed with #14 SH Nut Driver (ORANGE) (Part No. 8273910)
1/2"	8270957	SH-TEK 5.0	1/8"	1/2"	Structural Steel*	25	125	

* I-Beam, Bar Joist, Hollow Structural Steel

PERFORMANCE TABLES

Maximum Rod Length for l/r=100, 200, 300, and 400

Restraint Shape and Size	Nominal Diameter	Area (in. ²)	Least Radius of Gyration, r (in.)	Maximum Rod Length for l/r (ft)			
				l/r = 100	l/r = 200	l/r = 300	l/r = 400*
Rods (all thread)	3/8 in.	0.07	0.075	0.6	1.3	1.9	2.5
	1/2 in.	0.129	0.101	0.8	1.7	2.5	3.4
Rods (threaded at ends only)	3/8 in.	0.11	0.094	0.8	1.6	2.4	3.1
	1/2 in.	0.196	0.125	1.0	2.1	3.1	4.2

Reference: NFPA 13, (2007)

* Reference: NFPA 13, (2010)

DESCRIPTION (SIDEWINDER)


SWDR 1-1/2 AND SWDR 516 FOR 3/8" ROD

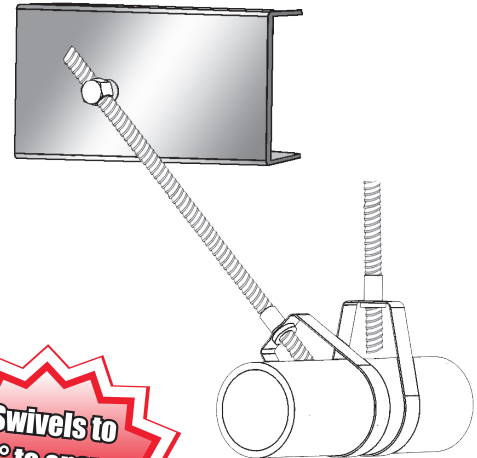
Structural attachment for installation of branch/end of line restraint using 3/8" threaded rod. Used primarily in purlin, bar joist, or other steel structural members. These fastening systems provide a secure and economical attachment to the structure.

The **SWDR 1-1/2** model provides upper structural attachment in a range of steel thicknesses, from 3/16" through 1/2". A retaining nut is included with each fastener.

The **SWDR 516** model provides upper structural attachment in a range of steel thicknesses, from 20 ga. through 1/8". A retaining nut is included with each fastener.

SPECIFICATIONS

Restrained Pipe Size:	Up to Schedule 40 pipe 2" or less
Max Length of	
Restraint Material:	See Maximum Horizontal Load Tables below.
Maximum Angle:	45° from horizontal
Material:	Carbon Steel
Screw Description:	(SWDR 1-1/2): 12-24 X 1-1/2" Tek® 5 (SWDR 516): 5/16"-18 X 1-1/4" Tek® 3
Finish (both):	Electro-Zinc (cap) Silver Climaseal® (screw)
Testing:	BX Report # R-1362
Listing:	UL 203 as a pipe hanger  UL 203A pending



SELECTION CHART

SAMMYS Sidewinders for Steel - Seismic Restraint

ROD SIZE	PART NUMBER	MODEL	MIN THICKNESS	MAX THICKNESS	APPLICATION	BOX QTY	CASE QTY	INSTALLATION TOOL
3/8"	8054957	SWDR 1-1/2	16 ga.	1/2"	Steel Purlin or Bar Joist	25	125	The SWDR 1-1/2 and SWDR 516 must be installed with #14 SW Red Nut Driver (Part No. 8114910). No pre-drilling required.
3/8"	8056957	SWDR 516	16 ga.	1/8"	Steel Purlin or Bar Joist	25	125	

PERFORMANCE TABLES

Maximum Horizontal Loads for Restraint with l/r=100, 200, 300, and 400

Restraint Shape and Size	Nominal Diameter	Area (in. ²)	Least Radius of Gyration, r (in.)	Maximum Rod Length for l/r (ft)			
				l/r = 100	l/r = 200	l/r = 300	l/r = 400*
Rods (all thread)	3/8 in.	0.07	0.075	0.6	1.3	1.9	2.5
	1/2 in.	0.129	0.101	0.8	1.7	2.5	3.4
Rods (threaded at ends only)	3/8 in.	0.11	0.094	0.8	1.6	2.4	3.1
	1/2 in.	0.196	0.125	1.0	2.1	3.1	4.2

Reference: NFPA 13, (2007)

* Reference: NFPA 13, (2010)