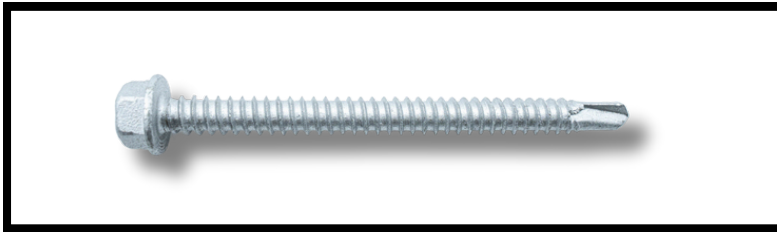




1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-14 HWH CARBON STEEL TYPE 3 XL COATED - SDWUCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375" (3/8")
Material Finish Coating	SAE 1022 steel
	CR6+ YELLOW DI-CHROMATE
	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.250"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	5,823 lbs.
Torque	223 in. lbs.
Shear	3,753 lbs.

### LENGTHS AVAILABLE

1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

### PULLOUT (Ultimate)

1/4"	5,153 lbs.
3/16"	4,233 lbs.
1/8"	2,171 lbs.
12 ga.	1,629 lbs.
14 ga.	1,166 lbs.
16 ga.	825 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-14 HWH CARBON STEEL TYPE 3 XL COATED - SDWUCST004S



**\*AVAILABLE w/ Bonded  
Neoprene Washer**

### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375" (3/8")
Material Finish Coating	SAE 1022 steel
	CR6+ YELLOW DI-CHROMATE
	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.250"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	5,823 lbs.
Torque	223 in. lbs.
Shear	3,753 lbs.

### LENGTHS AVAILABLE

1"
1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

### PULLOUT (Ultimate)

1/4"	5,153 lbs.
3/16"	4,233 lbs.
1/8"	2,171 lbs.
12 ga.	1,629 lbs.
14 ga.	1,166 lbs.
16 ga.	825 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-20 HWH CARBON STEEL TYPE 5 XL COATED - SDWUCST004C



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.243 - 0.250"
Head diameter across flats	0.367 - 0.375" (3/8")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to ½" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	5,418 lbs.
Torque	235 in. lbs.
Shear	3,163 lbs.

### LENGTHS AVAILABLE

		1 1/2" "
		2"
		3"
		4"
		5"
		6"
		7"
		8"
		10"

### PULLOUT (Ultimate)

1/2"	5260 lbs.
3/8"	5540 lbs. Exceeds tensile strength of screw
1/4"	5519 lbs. Exceeds tensile strength of screw

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-20 FASTSEAL CARBON STEEL TYPE 5 XL COATED - *SDHFCST004C*



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.243 - 0.250"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to ½" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	5,418 lbs.
Torque	235 in. lbs.
Shear	3,163 lbs.

### LENGTHS AVAILABLE

		1 1/2" "

### PULLOUT (Ultimate)

1/2"	5260 lbs.
3/8"	5540 lbs. Exceeds tensile strength of screw
1/4"	5519 lbs. Exceeds tensile strength of screw

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.





1/4-14x1 SQ. PANCAKE HD 304 SS FSI BI-METAL TEK 2 XL CTD - *SDSWMST004S*



Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

[illegible]

**\*PAINTING AVAILABLE**

Install with 1800 rpm screw gun with #2 square drive. Impact drivers are not recommended.

Fasteners conform to the SAE J78 and all applicable IFI Standards.

Fastener Systems Inc. 1210 American Blvd., West Chester PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

1/4-14 FASTSEAL CARBON STEEL TYPE 1 XL COATED - SDHFCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.018 – 0.090	<b>LENGTHS AVAILABLE</b>
<b>Strength (Lbs. / Ultimate):</b>		7/8"
Tensile	3,850 lbs.	
Torque	219 inch / lbs.	
Shear	3,431 lbs.	

### PULLOUT (Ultimate)

16 ga.	1325 lbs.
18 ga.	741 lbs.
20 ga.	463 lbs.
22 ga.	437 lbs.
24 ga.	324 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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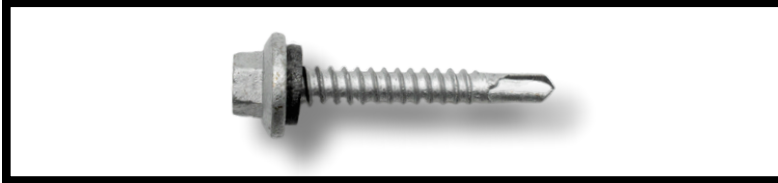
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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

#12–14 FASTSEAL CARBON STEEL TYPE 3 XL COATED- SDHFCST#12S



### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164" 0.209 - 0.215" 0.305 -
Major thread diameter	0.312" (5/16") SAE 1022 STEEL CR6+
Head diameter across flats	YELLOW DI-CHROMATE SILVER GRAY
Material Finish Coating	RUSPERT 1000 HOUR SALT SPRAY FSI

Headmark

### CAPACITIES

Drilling application	0.050 – 0.210"	<b>LENGTHS AVAILABLE</b>
<b>Strength (Lbs. / Ultimate):</b>		1"
Tensile	5,294 lbs.	1 1/4"
Torque	110 in. lbs.	1 1/2"
Shear	3,550 lbs.	2"

### PULLOUT (Ultimate)

3/16"	3,688 lbs.
1/8"	2,195 lbs.
12 ga.	1,635 lbs.
14 ga.	1,163 lbs.
16 ga.	977 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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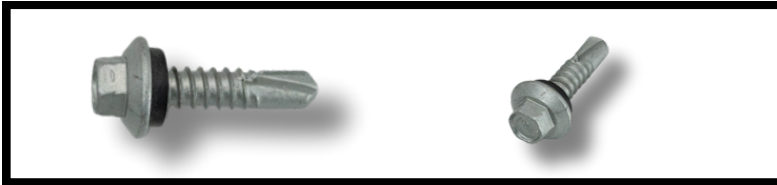
Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



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PHONE 800-232-5060

## TECHNICAL DATA SHEET

1/4-14 FASTSEAL CARBON STEEL TYPE 3 XL COATED - SDHFCST004S



### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.305-0.312" (5/16")
Material	SAE 1022 Steel
Finish	CR6+ YELLOW DI CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling Application		0.050 – 0.210"	LENGTHS AVAILABLE
<b>Strength (Lbs. / Ultimate):</b>			3/4"
Tensile	5,823 lbs.		1"
Torque	223 in. lbs.		1 1/4"
Shear	3,753 lbs.		1 1/2"
			2"
			3"
			4"
			5"
			6"
			7"
1/4"	5,153 lbs.		
3/16"	4,223 lbs.		
1/8"	2,171 lbs.		
12 ga.	1,629 lbs.		
14 ga.	1,666 lbs.		
16 ga.	825 lbs.		

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



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## TECHNICAL DATA SHEET

### #12-14 SQUARE DRIVE PANCAKE HEAD BI-METAL TYPE 3 XL COATED

- SDSWMST#12S



#### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.433 - 0.472"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE ZINC (.0002 MIN.)
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	2,820 lbs.
Torque	104 in. lbs.
Shear	2,146 lbs.

#### LENGTHS AVAILABLE

1"
2"

PULLOUT (Ultimate)	STEEL/ALUMINUM
3/16"	2,734 lbs./2,309 lbs.
1/8"	1,780 lbs./1,090 lbs.
12 ga.	1,288 lbs.
14 ga.	978 lbs.
16 ga.	713 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 2000 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

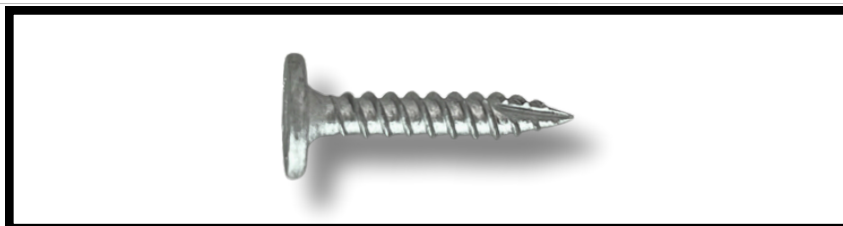
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1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### #10-13 ULTRA LOW PANCAKE HEAD CARBON STEEL TYPE 17 XL COATED



- SPSLCST#10S

#### SPECIFICATIONS

Minor thread diameter	.130 - .138"
Major thread diameter	.182 - .190"
Head diameter	.433 - .472"
Material	SAE 1022 STEEL
Finish and Coating	CR6+ YELLOW DI-CHROMATE BASE FINISH WITH RUSPERT 1000 HOUR SALT SPRAY SILVER GRAY
Headmark	FSI
Head height	.059 - .065"

#### CAPACITIES

Drilling application	0.018 – 0.036"
Strength (Lbs. / Ultimate):	
Tensile	2,100 lbs.
Torque	61 in. lbs.
Shear	1,400 lbs.

#### LENGTHS AVAILABLE

1"
1 1/4"
1 1/2"

#### PULLOUT (Ultimate)

5/8" Plywood	493 lbs.
3/4" Plywood	526 lbs.
2x4 Pine	778 lbs.
7/16" OSB	271 lbs.
21/32" OSB	493 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
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## TECHNICAL DATA SHEET

#12-11 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 17 - SPSWCST#12S



### SPECIFICATIONS

Minor thread diameter	.146 - .154"
Major thread diameter	.208 - .215"
Head diameter	.433 - .472"
Material	SAE 1022 STEEL
Finish	CR6+ YELLOW DI-CHROMATE BASE FINISH WITH RUSPERT 1000 HOUR SALT SPRAY SILVER GRAY
Headmark	FSI
Head height	.082 - .090"

### CAPACITIES

Drilling Capacity	0.018 - 0.036"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	2,820 lbs.
Torque	104 in. lbs.
Shear	2,146 lbs.

### LENGTHS AVAILABLE

1"
1 1/2"
2"

### PULLOUT (Ultimate)

5/8" Plywood	491 lbs.
3/4" Plywood	584 lbs.
2x4 Pine	980 lbs.
7/16" OSB	303 lbs.
21/32" OSB	383 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to all applicable IFI Standards.

### DISTRIBUTED BY:

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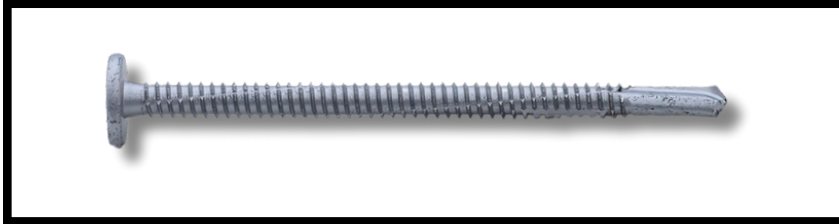
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

1/4-14 PANCAKE HEAD CARBON STEEL TYPE 5 XL COATED - SDSWCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.615 – 0.635"
Material Finish Coating	SAE 1022 steel
	CR6+ YELLOW DI-CHROMATE
	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 1/2" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	5,418 lbs.
	235 in. lbs.
	3,163 lbs.

### LENGTHS AVAILABLE

1 1/2"
3"
4"
5"
6"
8"

### PULLOUT (Ultimate)

1/2"	5,561 lbs.
3/8"	5,484 lbs.
1/4"	3,453 lbs.
3/16"	2,449 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with #3 Square drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.

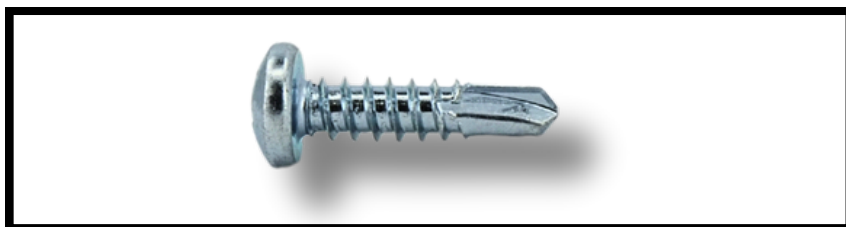




1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#10 – 16 PHILLIPS PAN HEAD CARBON STEEL TYPE 3 - SDPPCST#10S



### SPECIFICATIONS

Minor thread diameter	0.135 - 0.141"
Major thread diameter	0.183 - 0.189"
Head diameter across flats	0.357 - 0.373"
Material	SAE 1022 STEEL
Finish	CR6+ CLEAR CHROMATE
Coating	CLEAR ZINC .0002 MIN
Headmark	FSI

### CAPACITIES

Drilling application	18 to 22 gauge
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,089 lbs.
Torque	98 inch / lbs.
Shear	2,091 lbs.

### PULLOUT (Ultimate)

1/8"	2,080 lbs.
12 ga.	1,477 lbs.
14 ga.	970 lbs.
16 ga.	711 lbs.
18 ga.	502 lbs.
20 ga.	302 lbs.

### LENGTHS AVAILABLE

3/4"
1"
1 1/4"
1 1/2"
1 3/4"
2"
2 1/2"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Phillips drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#10-16 PHILLIPS PAN HEAD 410 STAINLESS STEEL TYPE 3 - SDPP410#10S



### SPECIFICATIONS

Minor thread diameter	0.135 - 0.141"
Major thread diameter	0.183 - 0.189"
Head diameter across flats	0.357 - 0.373"
Material	410 STAINLESS STEEL
Finish	BRIGHT HARDENED AND PASSIVATED
Headmark	FSI4

### CAPACITIES

Drilling application	0.035 – 0.187"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	3,089 lbs.
	98 in. lbs.
	2,091 lbs.

### PULLOUT (Ultimate)

1/8"	1,861 lbs.
12 ga.	1,357 lbs.
14 ga.	1,311 lbs.
16 ga.	895 lbs.
18 ga.	452 lbs.
20 ga.	302 lbs.

### LENGTHS AVAILABLE

3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Phillips drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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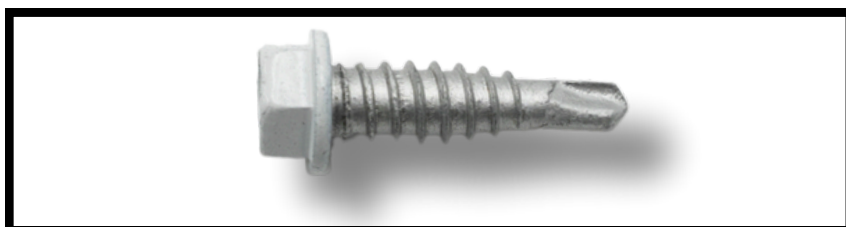
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1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-14 HWH CARBON STEEL TYPE 1 XL COATED - SDWUCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 Steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.018 – 0.090
Strength (Lbs. / Ultimate):	
Tensile	3,850 lbs.
Torque	219 inch / lbs.
Shear	3,431 lbs.

### LENGTHS AVAILABLE

7/8"
1 1/4"
1 1/2"

### PULLOUT (Ultimate)

16 ga.	1325 lbs.
18 ga.	741 lbs.
20 ga.	463 lbs.
22 ga.	437 lbs.
24 ga.	324 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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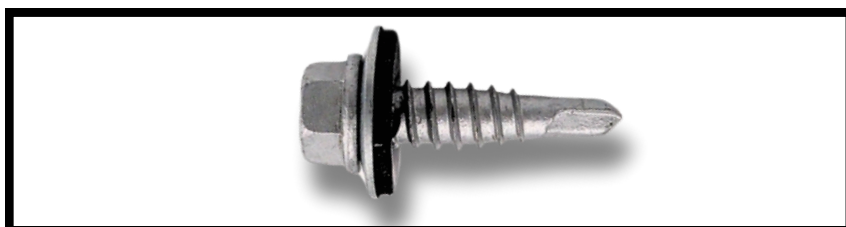
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-14 HWH CARBON STEEL TYPE 1 XL COATED - SDWUCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 Steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.018 – 0.090
Strength (Lbs. / Ultimate):	
Tensile	3,850 lbs.
Torque	219 inch / lbs.
Shear	3,431 lbs.

### LENGTHS AVAILABLE

7/8"
1 1/4"
1 1/2"

### PULLOUT (Ultimate)

16 ga.	1325 lbs.
18 ga.	741 lbs.
20 ga.	463 lbs.
22 ga.	437 lbs.
24 ga.	324 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#10–16 HWH CARBON STEEL TYPE 3 XL COATED - SDWUCST#10S



### SPECIFICATIONS

Minor thread diameter	0.135 - 0.141"
Major thread diameter	0.183 - 0.189"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 STEEL
Finish	CR6+ CLEAR CHROMATE (.0002 min.)
Coating	SILVER GREY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.035 – 0.187"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	3,089 lbs. 98
	inch / lbs.
	2,091 lbs.

### LENGTHS AVAILABLE

3/4"
1"
1 1/2"

### PULLOUT (Ultimate)

3/16"	2,670 lbs.
14 ga.	1,311 lbs.
16 ga.	895 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

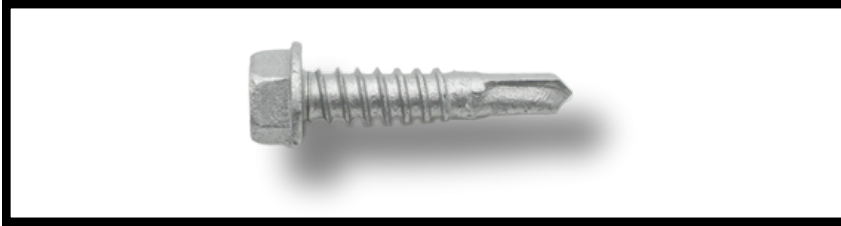
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## TECHNICAL DATA SHEET

#12-14 HWH CARBON STEEL TYPE 3 XL COATED - SDWUCST#12S



### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 STEEL
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.210"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	5,294 lbs.
	110 in. lbs.
	3,550 lbs.

### LENGTHS AVAILABLE

3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

### PULLOUT (Ultimate)

3/16"	3,688 lbs.
1/8"	2,195 lbs.
12 ga.	1,635 lbs.
14 ga.	1,163 lbs.
16 ga.	977 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.

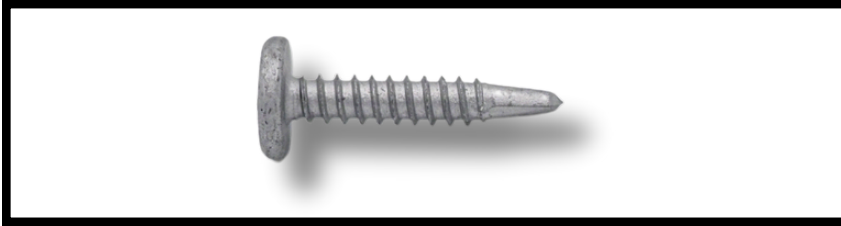


1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#10-16 SQUARE DRIVE PANCAKE HEAD CLIPFAST CARBON STEEL TYPE 3 XL COATED

- SDSWCST#10S



### SPECIFICATIONS

Minor thread diameter	0.135 - 0.141"
Major thread diameter	0.182 - 0.189"
Head diameter across flats	0.433 - 0.472"
Material	SAE 1022 STEEL
Finish and Coating	CR6+ YELLOW DI_CHROMATE WITH SILVER RUSPERT 1000 HOUR COATING
Headmark	FSI

### CAPACITIES

Drilling application	0.050 - 0.210"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	2,596 lbs.
	98 in. lbs.
	1,894 lbs.

### LENGTHS AVAILABLE

5/8"
1"
1 1/2"
2"

### PULLOUT (Ultimate)

3/16"	2,670 lbs.
1/8"	1,861 lbs.
12 ga.	1,357 lbs.
14 ga.	987 lbs.
16 ga.	623 lbs.
18 ga.	452 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with #2 square drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

### #12-14 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 3 XL COATED



- SDSWCST#12S

#### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.433 - 0.472"
Material	SAE 1022 CARBON STEEL
Finish	CR6+ CLEAR CHROMATE ZINC (.0002 MIN.)
Coating	SILVER GRAY RUSPERT 1000 HOUR SLAT SPRAY
Headmark	FSI

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	2,820 lbs.
Torque	104 in. lbs.
Shear	2,146 lbs.

#### LENGTHS AVAILABLE

1"
1 1/2"

PULLOUT (Ultimate)	STEEL/ALUMINUM
3/16"	2,734 lbs./2,309 lbs.
1/8"	1,939 lbs./1,090 lbs.
12 ga.	1,923 lbs.
14 ga.	938 lbs.
16 ga.	885 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 2000 rpm screw gun with #2 square drive. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

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Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.





1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

1/4 - 14 PANCAKE HEAD CARBON STEEL TYPE 3 XL COATED - *SDSWCST004S*



### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.615 - 0.635"
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 1/4" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,635 lbs.
Torque	150 inch / lbs.
Shear	3,897 lbs.

### LENGTHS AVAILABLE

1"
2"
3"
4"
5"
6"
8"
10"

### PULLOUT (Ultimate)

3/16"	3,695 lbs.
1/8"	2,088 lbs.
12 ga.	1,553 lbs.
14 ga.	1,153 lbs.
16 ga.	736 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with #3 square drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

#8 - 18 PHILLIPS MODIFIED TRUSS CARBON STEEL TYPE 2 - SDPWCST#08S



### SPECIFICATIONS

Minor thread diameter	0.116 - 0.122"
Major thread diameter	0.161 - 0.166"
Head diameter across flats	0.415 - 0.435"
Material	SAE 1022 steel
Finish	CR6+ CLEAR CHROMATE (.0002 MIN.)
Headmark	FSI

### CAPACITIES

Drilling application	0.035 – 0.100"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque	1,970 lbs. 60 inch / lbs.

### PULLOUT (Ultimate)

24 ga. to 24 ga.	528 lbs.
26 ga. to 26 ga.	325 lbs.

### LENGTHS AVAILABLE

1/2"
3/4"
1"
1 1/4"
1 5/8"
1 7/8"
2 1/4"
2 1/2"
3"

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Phillips Drive. Impact drivers are not recommended.

**\*PAINTING AVAILABLE**

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

### #8 - 18 SQUARE DRIVE MODIFIED TRUSS CARBON STEEL TYPE 1



- SDSWCST#08S

#### SPECIFICATIONS

Minor thread diameter	0.116 - 0.122"
Major thread diameter	0.161 - 0.166"
Head diameter across flats	0.415 - 0.435"
Material	SAE 1022 STEEL
Finish	CR6+ CLEAR CHROMATE (.0002 MIN.)
Headmark	FSI

#### CAPACITIES

Drilling application	0.035 – 0.100"
<b>Strength (Lbs. / Ultimate):</b>	
Torque	62 inch / lbs.

#### LENGTHS AVAILABLE

3/4"

#### PULLOUT (Ultimate)

24 ga. to 24 ga.	545 lbs.
26 ga. to 26 ga.	275 lbs.

#### INSTALLATION:

Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

**\*PAINTING AVAILABLE**

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

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## TECHNICAL DATA SHEET

#8 - 18 PHILLIPS MODIFIED TRUSS 410 STAINLESS STEEL TYPE 2 - SDPW410#08S



### SPECIFICATIONS

Minor thread diameter	0.116 - 0.122"
Major thread diameter	0.161 - 0.166"
Head diameter across flats	0.415 - 0.435"
Material	410 STAINLESS STEEL
Finish	PASSIVATED
Headmark	FSI4

### CAPACITIES

Drilling application	0.035 – 0.100"
<b>Strength (Lbs./Ultimate):</b>	
Tensile	1,970 lbs.
Torque	60 inch / lbs.

### PULLOUT (Ultimate)

24 ga. to 24 ga.	528 lbs.
26 ga. to 26 ga.	325 lbs.

### LENGTHS AVAILABLE

9/16"
3/4"
1/2"
1"
1 1/4"
2"

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Phillips Drive. Impact drivers are not recommended.

**\*PAINTING AVAILABLE**

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

#14-13 CLIPFAST PANCAKE HEAD CARBON STEEL TYPE 1 XL - SDSWCST#14S



### SPECIFICATIONS

Minor thread diameter	0.134 - 0.148"
Major thread diameter	0.230 - 0.235"
Head diameter across flats	0.490 - 0.510"
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 12 ga. steel (also works in wood)
<b>Strength (Lbs. / Ultimate):</b>	
Tensile Torque Shear	3,310 lbs.
	100 in. lbs.
	2,298 lbs.

### PULLOUT (Ultimate)

16 ga.	1,041 lbs.
18 ga.	948 lbs.
20 ga.	501 lbs.
22 ga.	415 lbs.
5/8" Plywood	558 lbs.
3/4" Plywood	590 lbs.
2x4 Pine Fir	1375 lbs.
7/16" OSB	458 lbs.
21/32" OSB	527 lbs.

### LENGTHS AVAILABLE

3/4"
1 1/2"
2"
3"
4"
5"
6"
7"
8"
9"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with #2 square drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-20 CLIPFAST CARBON STEEL TYPE 5 XL COATED - *SDSWCST004C*



Minor thread diameter	0.185-0.192"
Major thread diameter	0.243 - 0.250"
Head diameter across flats	0.625 (5/8")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to ½" Steel	10"
Strength (Lbs. / Ultimate):		
Tensile Torque Shear	5,418 lbs.	
	235 in. lbs.	
	3,163 lbs.	

### LENGTHS AVAILABLE

### PULLOUT (Ultimate)

1/2"	5260 lbs.
3/8"	5540 lbs. Exceeds tensile strength of screw
1/4"	5519 lbs. Exceeds tensile strength of screw

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with a #3 Square power drive bit.  
Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

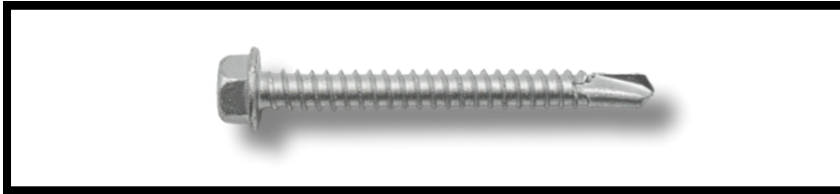
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#12-14 HWH SELF DRILLING BI-METAL TYPE 3 XL COATED - SDWUMST#12S



### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE ZINC (.0002 MIN.)
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	2,820 lbs.
Torque	104 in. lbs.
Shear	2,146 lbs.

### LENGTHS AVAILABLE

1"
1 1/2"
2"
3"

PULLOUT (Ultimate)	STEEL/ALUMINUM
3/16"	2,734 lbs./2,309 lbs.
1/8"	1,780 lbs./1,090 lbs.
12 ga.	1,288 lbs.
14 ga.	978 lbs.
16 ga.	713 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 3 XL COATED



- SDWUMST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (lbs. / Ultimate):</b>	
Tensile	3,492 lbs.
Torque	151 in. lbs.
Shear	2,594 lbs.

#### LENGTHS AVAILABLE

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

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/4"	3,433 lbs./2,975 lbs.
3/16"	3,291 lbs./2,808 lbs.
1/8"	2,285 lbs./1,211 lbs.
12 ga.	1,298 lbs.
14 ga.	948 lbs.
16 ga.	883 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

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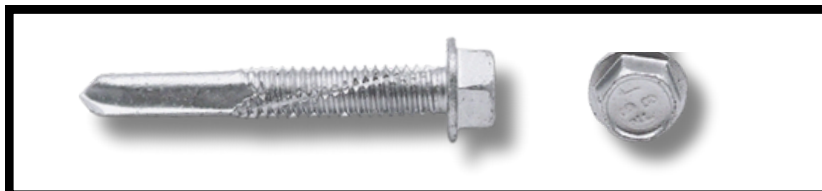




1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#12 - 24 HWH CARBON STEEL TYPE 5 XL COATED - SDWUCST#12F



### SPECIFICATIONS

Minor thread diameter	0.180 - 0.185"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 STEEL
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 1/2" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,991 lbs.
Torque	152 in. lbs.
Shear	2,762 lbs.

### LENGTHS AVAILABLE

1 1/4"
1 1/2"
2"
3"

### PULLOUT (Ultimate)

1/2"	4,622 lbs.
3/8"	4,579 lbs.
1/4"	4,179 lbs.
3/16"	2,698 lbs.
1/8"	1,952 lbs.
12 ga.	1,319 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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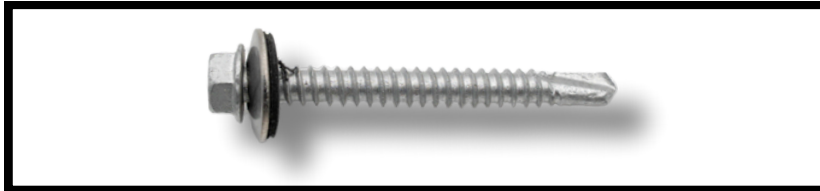
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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

#12-14 HWH SELF DRILLING BI-METAL TYPE 3 XL COATED - SDWUMST#12S



**\*AVAILABLE w/ Bonded  
Neoprene Washer**

### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE ZINC (.0002 MIN.)
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

### CAPACITIES

Drilling application	.050 - .234"
<b>Strength(Lbs./Ultimate):</b>	
Tensile Torque Shear	2,820 lbs. 104 in. lbs. 2,146 lbs.

### LENGTHS AVAILABLE

1"
1 1/2"
2"

### PULLOUT (Ultimate)

### STEEL/ALUMINUM

3/16"	2,734 lbs./2,309 lbs.
1/8"	1,780 lbs./1,090 lbs.
12 ga.	1,288 lbs.
14 ga.	978 lbs.
16 ga.	713 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 5 XL COATED



-SDWUCST004S

**\*AVAILABLE w/ Bonded  
Neoprene Washer**

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	Up to 1/2" steel
<b>Strength(Lbs./Ultimate):</b>	
Tensile Torque Shear	3,617 lbs.
	159 in. lbs.
	2,686 lbs.

#### LENGTHS AVAILABLE

1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/2"	3,589 lbs.
3/8"	3,365 lbs.
1/4"	3,346 lbs./3,238 lbs.
3/16"	1,999 lbs./2,254 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800rpm screw gun with a 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

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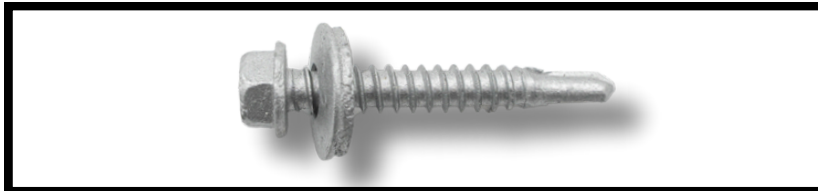
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WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#12–14 HWH CARBON STEEL TYPE 3 XL COATED - *SDWUCST#12S*



**\*AVAILABLE w/ Bonded  
Neoprene Washer**

### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1022 STEEL
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.210"
<b>Strength(Lbs./Ultimate):</b>	
Tensile	5,294 lbs.
Torque	110 in. lbs.
Shear	3,550 lbs.

### LENGTHS AVAILABLE

3/4"
1"
1 1/4"
1 1/2"
2"
3"

### PULLOUT (Ultimate)

3/16"	3,688 lbs.
1/8"	2,195 lbs.
12 ga.	1,635 lbs.
14 ga.	1,163 lbs.
16 ga.	977 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-20 HWH CARBON STEEL TYPE 5 XL COATED - SDWUCST004C



**\*AVAILABLE w/ Bonded  
Neoprene Washer**

### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.243 - 0.250"
Head diameter across flats	0.367 - 0.375" (3/8")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to ½" Steel
<b>Strength(Lbs./Ultimate):</b>	
Tensile	5,418 lbs.
Torque	235 in. lbs.
Shear	3,163 lbs.

### LENGTHS AVAILABLE

		2"
		3"
		4"
		5"
		6"
		7"
		10"
<b>PULLOUT (Ultimate)</b>		
1/2"	5260 lbs.	
3/8"	5540 lbs. Exceeds tensile strength of screw	
1/4"	5519 lbs. Exceeds tensile strength of screw	

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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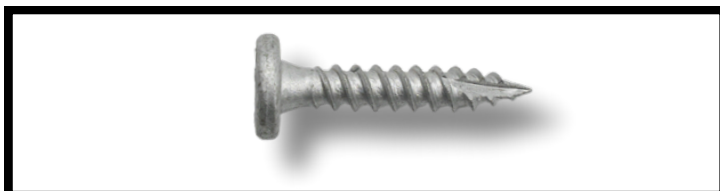
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## TECHNICAL DATA SHEET

### #10-13 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 17 XL COATED



- SPSWCST#10S

#### SPECIFICATIONS

Minor thread diameter	.130 - .138"
Major thread diameter	.182 - .190"
Head diameter	.394 - .433"
Material	SAE 1022 STEEL
Finish and Coating	CR6+ YELLOW DI-CHROMATE BASE WITH RUSPERT 1000 HOUR SALT SPRAY SILVER GRAY
Headmark	FSI
Head height	.082 - .090"

#### CAPACITIES

Drilling Capacity	0.018 - 0.036"
<b>Strength(Lbs./Ultimate):</b>	
Tensile Torque Shear	2,456 lbs.
	99 in. lbs.
	1,935 lbs.

#### LENGTHS AVAILABLE

1"
1 1/2"
2"

#### PULLOUT (Ultimate)

5/8" Plywood	493 lbs.
3/4" Plywood	526 lbs.
2x4 Pine	778 lbs.
7/16" OSB	271 lbs.
21/32" OSB	493 lbs.

**\*PAINTING AVAILABLE**

**INSTALLATION:** Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

**CONFORMANCE:** Fasteners conform to all applicable IFI Standards.

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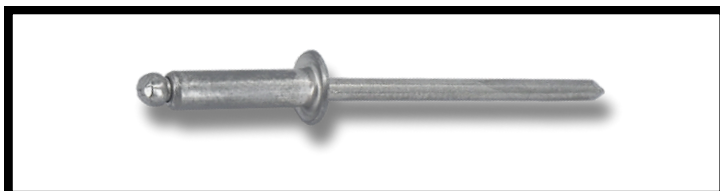
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## TECHNICAL DATA SHEET

#54 SS/SS POP RIVET DOME HD MILL FINISH - PRDH3040



**\*PAINTING AVAILABLE**

### SPECIFICATIONS

Grip Range	.188 - .250
Rivet Length	.425
Head Diameter	.312
Head Height	.050
Mandrel Diameter	.095
Dome Diameter	5/32"
Hole Size (Drill #)	.160 - .164 (#20)

### CAPACITIES

<b>Strength(Lbs./Ultimate):</b>	
Shear	650
Tensile	820

### CONFORMANCE:

Manufactured per IFI-114 Standards

### INSTALLATION:

#20 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

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## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 5 XL COATED



- SDWUCST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	Up to 1/2" steel
<b>Strength(Lbs./Ultimate):</b>	
Tensile Torque Shear	3,617 lbs. 159 in. lbs. 2,686 lbs.

#### LENGTHS AVAILABLE

1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/2"	3,589 lbs.
3/8"	3,365 lbs.
1/4"	3,346 lbs./3,238 lbs.
3/16"	1,999 lbs./2,254 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800rpm screw gun with a 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

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Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.

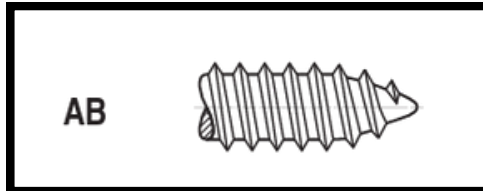




1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

#8-18 Phillips Pan Self Tapping Screw, Type AB, Fully Threaded, Zinc and Bake



### SPECIFICATIONS

Minor thread diameter	.116 - .122
Major thread diameter	.159 - .166
Head diameter across flats	.306 - .322
Material	AISI 1016 - 1024 or equivalent steel
Threads Per Pitch	18
Nominal Screw Size	8 - .1640
Finish	Zinc

### CAPACITIES

Strength	39 lb.-in
Phillips Drive Size	2

### LENGTHS AVAILABLE

1 1/2"

**\*PAINTING AVAILABLE**

**INSTALLATION:** Install with 2500 rpm screw gun with # 2 Phillips Drive. Impact drivers not recommended

**CONFORMANCE:** Fasteners conform to ASME B18.6.3 & SAE J933

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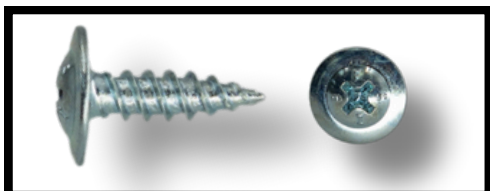
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## TECHNICAL DATA SHEET

### #8-15 Phillips Head Mod Truss Type A



#### SPECIFICATIONS

Minor thread diameter	.116-.123
Major thread diameter	.162-.168
Head diameter across flats	.415-.435
Material	C-1022
Threads Per Pitch	#8-15
Finish	Zinc Plated

#### CAPACITIES

Strength, Torque	42 in./lbs.
------------------	-------------

#### LENGTHS AVAILABLE

9/16"
3/4"
1"
1 1/4"
1 5/8"

**\*PAINTING AVAILABLE**

**CONFORMANCE:** Fasteners conform to ASME B18.6.3 & SAE J933

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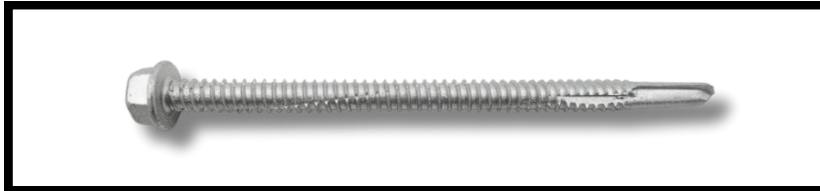
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## TECHNICAL DATA SHEET

¼-14 HWH CARBON STEEL TYPE 5 XL COATED - SDWUCST004S



### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375" (3/8")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to ½" Steel
<b>Strength (lbs. / Ultimate):</b>	
Tensile	5,418 lbs.
Torque	235 in. lbs.
Shear	3,163 lbs.

### PULLOUT (Ultimate)

1/2"	5,561 lbs.
3/8"	5,484 lbs.
1/4"	3,453 lbs.
3/16"	2,449 lbs.

### LENGTHS AVAILABLE

1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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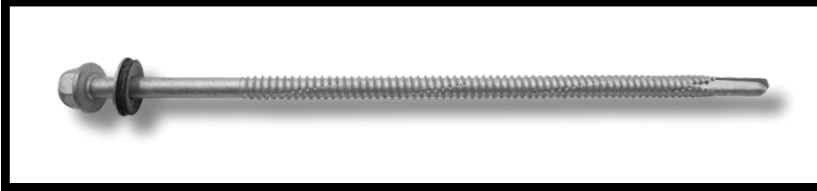
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1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

1/4-14 HWH CARBON STEEL TYPE 5 XL COATED - SDWUCST004S



**\*AVAILABLE w/ Bonded  
Neoprene Washer**

### SPECIFICATIONS

Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375" (3/8")
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 1/2" Steel
<b>Strength (lbs. / Ultimate):</b>	
Tensile	5,418 lbs.
Torque	235 in. lbs.
Shear	3,163 lbs.

### PULLOUT (Ultimate)

1/2"	5,561 lbs.
3/8"	5,484 lbs.
1/4"	3,453 lbs.
3/16"	2,449 lbs.

### LENGTHS AVAILABLE

1 1/2"
2"
3"
4"
5"
6"
7"
8"
10"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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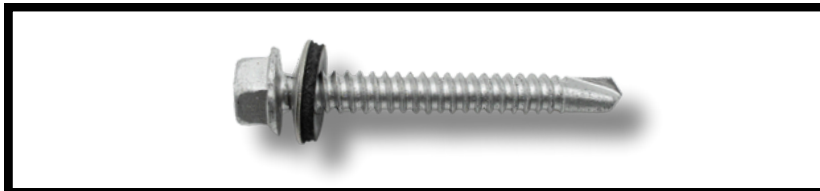
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## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 3 XL COATED



- SDWUCST004S

**\*AVAILABLE w/ Bonded  
Neoprene Washer**

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,492 lbs.
Torque	151 in. lbs.
Shear	2,594 lbs.

#### LENGTHS AVAILABLE

1"
1 1/2"
2"
3"
4"
6"
7"
8"
10"
12"

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/4"	3,433 lbs./2,975 lbs.
3/16"	3,291 lbs./2,808 lbs.
1/8"	2,285 lbs./1,211 lbs.
12 ga.	1,298 lbs.
14 ga.	948 lbs.
16 ga.	883 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

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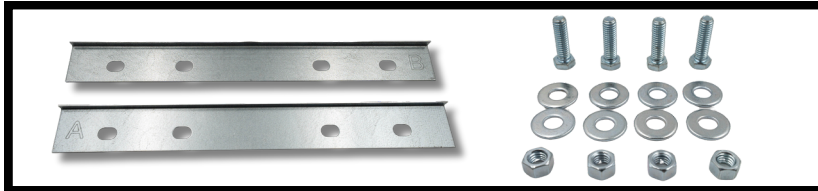
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1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### SPLICE PLATE KIT FOR 4" WIDE TEE - *CTSPL164HSKIT*



Part #	Material	Quantity in Kit
<u>HHCSGR5006C020ZN</u> 3/8-16x1-1/4 HEX HD CAP SCREW GR5 ZN	Carbon Steel	4
<u>NFHXR5006CZN</u> 3/8-16 FINISH HEX NUT GR5 ZINC PLTD	Carbon Steel	4
<u>WUSSCST006X016ZN</u> 3/8x1 FLAT WASHER USS ZINC PLTD	Carbon Steel	8
<u>CTSPL164HS-A</u> 4" Wide Ceiling Tee Splice Plate	16ga. Galvanized Steel	1
<u>CTSPL164HS-B</u> 4" Wide Ceiling Tee Splice Plate	16ga. Galvanized Steel	1

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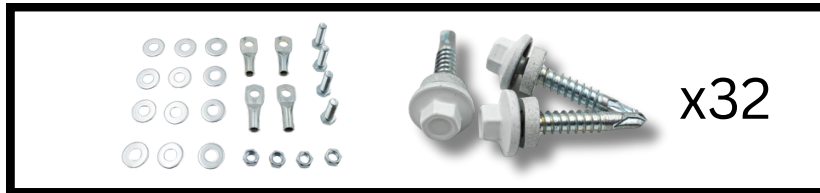
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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

### 4" WIDE CEILING TEE ACCESSORY KIT - CTACCKIT164HS\*



Part #	Material	Quantity in Kit
<u>HHCSGR5006C020ZN</u>  3/8-16x1-1/4 HEX HD CAP SCREW GR5 ZN	Carbon Steel	4
<u>NFHXR5006CZN</u>  3/8-16 FINISH HEX NUT GR5 ZINC PLTD	Carbon Steel	4
<u>SDWUSAC#12S020ZN3WH</u>  #12-14x1-1/4 HWH TEK 3 W/W & 18-8 SS CAP PAINTED WHITE	Stainless Steel Cap + Carbon Steel Shank Drill Point	32
<u>SFEC38</u>  3/8" EYE NUT CARBON ST ZN PLTD	Carbon Steel	4
<u>WUSSCST006X016ZN</u>  3/8x1 FLAT WASHER USS ZINC PLTD	Carbon Steel	12

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1210 AMERICAN BLVD.  
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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/4-28 HWH SELF-DRILLING SCREW CST TYPE 5 XL COATED



- SDWUCST004F

#### SPECIFICATIONS

Minor thread diameter	N/A
Major thread diameter	0.243 - 0.250"
Head diameter across flats	0.367 -0.375
Material	SAE 1022 CARBON STEEL
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

#### CAPACITIES

Drilling application	0.250- .500"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	5,577 lbs.
Torque	234 in. lbs.
Shear	3,310 lbs.

#### LENGTHS AVAILABLE

3"
4"
5"
6"

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/4"	5,059 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install: Standard screw gun w/ depth sensitive nosepiece 3/8" drive (Max. 1800 RPM) Impact drivers not recommended\*

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#12–14 HWH WITH STAINLESS STEEL CAP TYPE 3 ZINC - SDWUSAC#12S



### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.307 - 0.312"
Material	(5/16") SAE 1022 STEEL
Finish	CR6+ CLEAR CHROMATE
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.210"
<b>Strength(Lbs./Ultimate):</b>	
Tensile	3,696 lbs.
Torque	143 in. lbs.
Shear	2,186 lbs.

### LENGTHS AVAILABLE

1 1/4"

### PULLOUT (Ultimate)

1/4"	3,904 lbs.
3/16"	3,257 lbs.
1/8"	2,008 lbs.
12 ga.	1,647 lbs.
14 ga.	1,344 lbs.
16 ga.	1,104 lbs.
18 ga.	736 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

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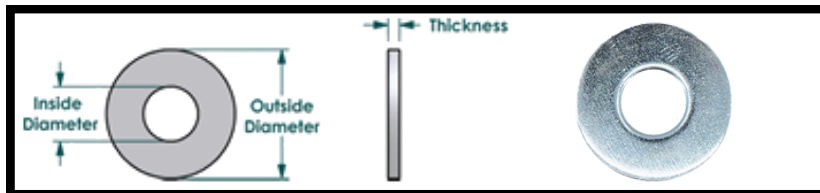
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### Carbon Steel Flat Washers - WUSSCST



Nominal Washer Size	Inside Diameter ( ID )			Outside Diameter ( OD )			Thickness		
	Basic	Max	Min	Basic	Max	Min	Basic	Max	Min
1/4	0.312	0.327	0.307	0.734	0.749	0.727	0.065	0.080	0.051
5/16	0.375	0.390	0.370	0.875	0.905	0.868	0.083	0.104	0.064
3/8	0.438	0.453	0.433	1.000	1.030	0.993	0.083	0.104	0.064
7/16	0.500	0.515	0.495	1.250	1.280	1.243	0.083	0.104	0.064
1/2	0.562	0.577	0.557	1.375	1.405	1.368	0.109	0.132	0.086
9/16	0.625	0.640	0.620	1.469	1.499	1.462	0.109	0.132	0.086
5/8	0.688	0.718	0.681	1.750	1.780	1.743	0.134	0.160	0.108
3/4	0.812	0.842	0.805	2.000	2.030	1.993	0.148	0.177	0.122
7/8	0.938	0.968	0.931	2.250	2.280	2.243	0.165	0.192	0.136
1	1.062	1.092	1.055	2.500	2.530	2.493	0.165	0.192	0.136
1-1/8	1.250	1.280	1.243	2.750	2.780	2.743	0.165	0.192	0.136
1-1/4	1.375	1.405	1.368	3.000	3.030	2.993	0.165	0.192	0.136
1-3/8	1.500	1.545	1.490	3.250	3.295	3.240	0.180	0.213	0.153
1-1/2	1.625	1.670	1.615	3.500	3.545	3.490	0.180	0.213	0.153

Properties	Zinc	Zinc Yellow	Hot Dip Galvanized
Type	Trivalent (Cr+3)	Hexavalent (Cr+6)	RoHS Compliant
Color	Clear	Yellow	
Minimum Coating Thickness	0.0001"/3 Microns or 0.0002"/5 Microns	0.0001"/3 Microns or 0.0002"/5 Microns	Washers under 3/16 inch in thickness : 0.0017" (43 microns) and washers 3/16 inch & 1/4 inch thickness : 0.0020" (50 microns)
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN ASTM B633 SC1 (0.0002" or 5 microns) Type III	ASTM F1941/F1941M Fe/Zn 3C or Fe/Zn 5C ASTM B633 SC1 (0.0002" or 5 microns) Type II	ASTM F2329/F2329M or ASTM A153/A153M

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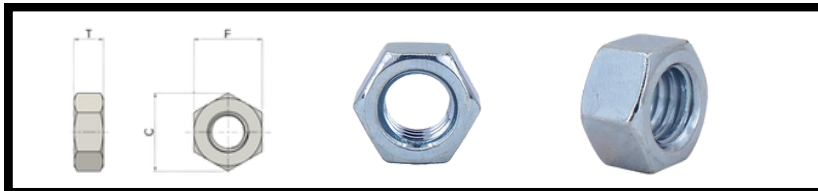
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### Carbon Steel Hex Nuts - *NFHXGR*



Nominal Size or Basic Major Diameter of Thread	F		C		T	
	Width Across Flats		Width Across Corners		Thickness	
	Max	Min	Max	Min	Max	Min
1/4	0.438	0.428	0.505	0.488	0.226	0.212
5/16	0.500	0.489	0.577	0.557	0.273	0.258
3/8	0.563	0.551	0.650	0.628	0.337	0.320
7/16	0.688	0.675	0.794	0.768	0.385	0.365
1/2	0.750	0.736	0.866	0.840	0.448	0.427
9/16	0.875	0.861	1.010	0.982	0.496	0.473
5/8	0.938	0.922	1.083	1.051	0.559	0.535
3/4	1.125	1.088	1.299	1.240	0.665	0.617
7/8	1.312	1.269	1.516	1.447	0.776	0.724
1	1.500	1.450	1.732	1.653	0.887	0.831
1-1/8	1.688	1.631	1.949	1.859	0.999	0.939
1-1/4	1.875	1.812	2.165	2.066	1.094	1.030
1-3/8	2.062	1.994	2.382	2.273	1.206	1.138
1-1/2	2.250	2.175	2.598	2.480	1.317	1.245

Style 1



Grade 2



Grade 5



Grade 8

Style 2



Grade 2



Grade 5



Grade 8

#### 2.1 Steel - SAE J995

Classification		Hardness	Proof Load Strength	
Grade	Nominal Size			
2	1/4" Thru 1-1/2"	32 HRC Maximum	UNC & 8UN	UNF, 12UN & Finer
			90,000 PSI	80,000 PSI
5	1/4" Thru 1-1/2"	32 HRC Maximum	1/4" Thru 1"	
			UNC & 8UN	UNF, 12UN & Finer
			120,000 PSI	109,000 PSI
			Over 1" Thru 1-1/2"	
			UNC & 8UN	UNF, 12UN & Finer
			105,000 PSI	94,000 PSI
8	1/4" Thru 1-1/2"	1/4" Thru 5/8" : 24-32 HRC	All Sizes and All Thread Pitches 150,000 PSI	
		Over 5/8" Thru 1" : 26-34 HRC		
		Over 1" Thru 1-1/2" : 26-36 HRC		

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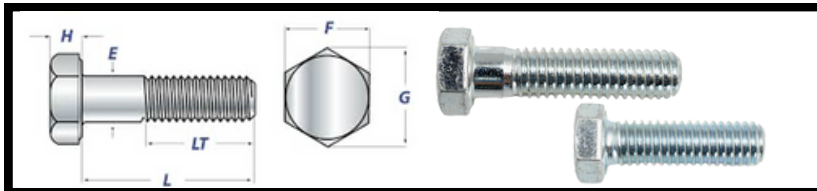
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WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

Hex Head Cap Screws - *This needs the part# to be found*



Nominal Size or Basic Product Diameter	E		F		G		H		LT	
	Body Diameter		Width Across Flats		Width Across Corners		Head Height		Thread Length	
									For Screw Lengths 6 Inches and Shorter	For Screw Lengths Over 6 Inches
									Ref	Ref
1/4	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Ref
1/4	0.2500	0.2450	0.438	0.428	0.505	0.488	0.163	0.150	0.750	1.000
5/16	0.3125	0.3065	0.500	0.489	0.577	0.557	0.211	0.195	0.875	1.125
3/8	0.3750	0.3690	0.562	0.551	0.650	0.628	0.243	0.226	1.000	1.250
7/16	0.4375	0.4305	0.625	0.612	0.722	0.698	0.291	0.272	1.125	1.375
1/2	0.5000	0.4930	0.750	0.736	0.866	0.840	0.323	0.302	1.250	1.500
9/16	0.5625	0.5545	0.812	0.798	0.938	0.910	0.371	0.348	1.375	1.625
5/8	0.6250	0.6170	0.938	0.922	1.083	1.051	0.403	0.378	1.500	1.750
3/4	0.7500	0.7410	1.125	1.100	1.299	1.254	0.483	0.455	1.750	2.000
7/8	0.8750	0.8660	1.312	1.285	1.516	1.465	0.563	0.531	2.000	2.250
1	1.0000	0.9900	1.500	1.469	1.732	1.675	0.627	0.591	2.250	2.500
1-1/8	1.1250	1.1140	1.688	1.631	1.949	1.859	0.718	0.658	2.500	2.750
1-1/4	1.2500	1.2390	1.875	1.812	2.165	2.066	0.813	0.749	2.750	3.000
1-3/8	1.3750	1.3630	2.062	1.994	2.382	2.273	0.878	0.810	3.000	3.250
1-1/2	1.5000	1.4880	2.250	2.175	2.598	2.480	0.974	0.902	3.250	3.500

### 2.1 Steel - SAE J429

Grade	Classification	Rockwell Hardness	Proof Load Strength	Tensile Strength Minimum	Grade Marking
	Nominal Size				
2	1 / 4 thru 3 / 4 (6 inch & shorter)	B80 to B100	55,000 psi	74,000 psi	None
	1 / 4 thru 3 / 4 (longer than 6 inch)	B70 to B100	33,000 psi	60,000 psi	
	Over 3 / 4 thru 1-1/2	B70 to B100	33,000psi	60,000 psi	
5	1 / 4 thru 1	C25 to C34	85,000 psi	120,000 psi	3 Radial Lines 120 degrees apart
	Over 1 thru 1 -1/2	C19 to C30	74,000 psi	105,000 psi	
8	1 / 4 thru 1-1/2	C33 to C39	120,000 psi	150,000 psi	6 Radial Lines 60 degrees apart

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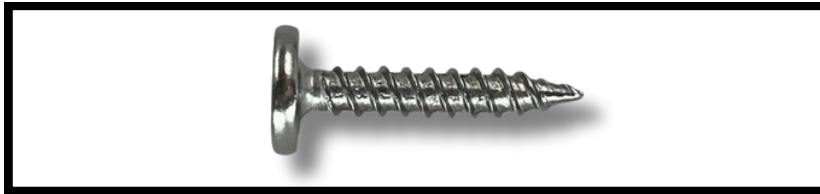
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## TECHNICAL DATA SHEET

#10-13 ULTRA LOW PANCAKE HEAD 304 SS TYPE 17 - *SPSL305#10S*



### SPECIFICATIONS

Minor thread diameter	.130 - .138"
Major thread diameter	.182 - .190"
Head diameter across flats	.433 - .472"
Material	304 STAINLESS STEEL
Finish	PASSIVATED
Headmark	FSI3

### CAPACITIES

Drilling application	0.018 – 0.036" ALUMINUM
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	1449 lbs.
Torque Minimum	54 in. lbs.
Shear	1243 lbs.

### LENGTHS AVAILABLE

1"
1 1/2"

### PULLOUT (Ultimate)

5/8" Plywood	493 lbs.
3/4" Plywood	526 lbs.
2x4 Pine	778 lbs
7/16" OSB	271 lbs.
21/32" OSB	493 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to all applicable IFI Standards.

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## TECHNICAL DATA SHEET

### #3 SQUARE POWER BIT - PDRS3X032



SPECIFICATIONS	
Drive Type:	Square
Shank Type:	Quick Change
Size:	#3 x 2"
Screw Size:	#12-14
Tip Size:	#3
Shank Size:	1/4" (Hex)
Length:	2"
Material:	S2 Carbon Steel
Rockwell Hardness:	58 - 62 HRC
Applications:	General Fastening
Package Weight:	0.1 lbs
Net Weight:	0.1 lbs
Standards:	ISO - 9002, RoHS Compliant
Additional Features:	Heat-treated for durability, designed for 3-jawed drill chucks and quick-release impact chucks, tapered square shape for one-handed driving and reduced camout.

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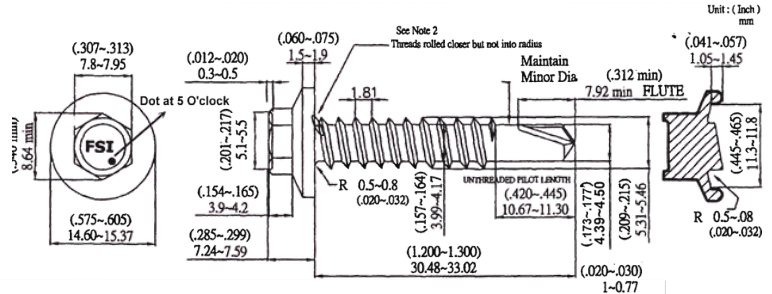
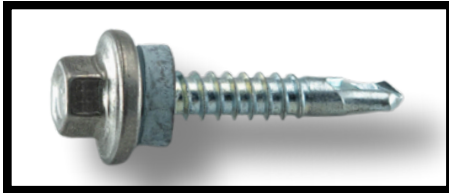
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## TECHNICAL DATA SHEET

#12-14 HWH STAINLESS STEEL CAP TYPE 3 ZINC COATED - SDWUSAC#12S



### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.307 - 0.312" (5/16")
Material	SAE/ 1022 Steel/304 Stainless Steel
Finish	CR6+ CLEAR CHROMATE
Headmark	FSI

### CAPACITIES

Drilling application	0.050 – 0.210
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,696 lbs.
Torque	143 inch / lbs.
Shear	2,186 lbs.

### PULLOUT (Ultimate)

1/4"	3,904 lbs.
3/16"	3,257 lbs.
1/8"	2,008 lbs.
12 ga.	1,647 lbs.
14 ga.	1,344 lbs.
16 ga.	1,104 lbs.
18 ga.	736 lbs.

### LENGTHS AVAILABLE

1 1/4"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

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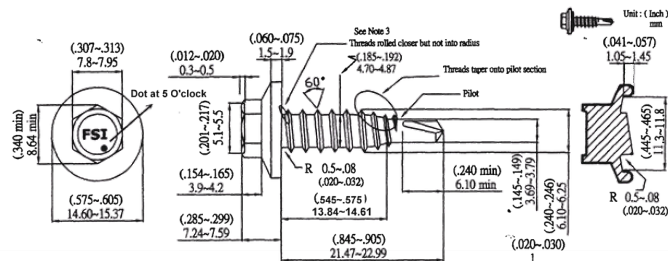




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## TECHNICAL DATA SHEET

### 1/4-14 HWH WITH STAINLESS STEEL CAP TYPE 1 ZINC - SDWUSAC004S



#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.307 - 0.312" (5/16")
Material	SAE/ 1022 Steel/304 Stainless Steel
Finish	CR6+ CLEAR CHROMATE W/304 SS CAPPED HEAD
Headmark	FSI

#### CAPACITIES

Drilling application	0.018 – 0.090"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,850 lbs.
Torque	220 inch / lbs.
Shear	3,470 lbs.

#### PULLOUT (Ultimate)

16 ga.	1,375 lbs.
18 ga.	1,042 lbs.
20 ga.	667 lbs.
22 ga.	557 lbs.
24 ga.	812 lbs.

#### LENGTHS AVAILABLE

7/8"

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

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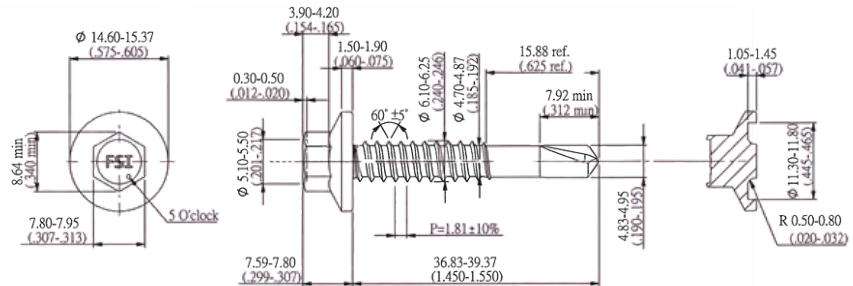




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## TECHNICAL DATA SHEET

¼-14 HWH WITH 304 STAINLESS STEEL CAP TYPE 2 ZINC PLATED - SDWUSAC004S



Minor thread diameter	0.185-0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.305 – 0.312"
Material	C1022 STEEL/304 SS CAPPED HEAD
Finish	CR6+ ZINC PLATED
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	0.036 – 0.125"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,850 lbs.
Torque	219 in. lbs.
Shear	3,431 lbs.

### PULLOUT (Ultimate)

20 ga.	437 lbs.
18 ga.	572 lbs.
16 ga.	939 lbs.
14 ga.	1,322 lbs.
12 ga.	2,306 lbs.
1/8	2,443 lbs.

### LENGTHS AVAILABLE

1 1/2"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

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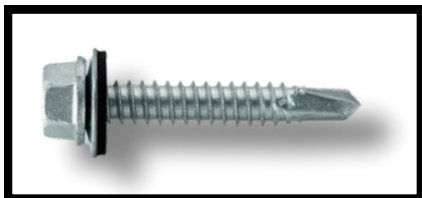
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## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 3 XL COATED



- SDWUMST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength(Lbs./Ultimate):</b>	
Tensile	3,492 lbs.
Torque	151 in. lbs.
Shear	2,594 lbs.

#### LENGTHS AVAILABLE

2"

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/4"	3,433 lbs./2,975 lbs.
3/16"	3,291 lbs./2,808 lbs.
1/8"	2,285 lbs./1,211 lbs.
12 ga.	1,298 lbs.
14 ga.	948 lbs.
16 ga.	883 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800 rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

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1210 AMERICAN BLVD.  
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## TECHNICAL DATA SHEET

### #44 Stainless Steel Open End Pop Rivet



- PRDH304044

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	1/8" (.122-.128)
Hole Size (Drill size)	.129-.133 (#30)
Mandrel Diameter nom.	.076
Head Diameter	.250
Head Height	.040
Rivet Length	.400
Grip Range	.188-.250
Finish	Mill Finish
Material	Body is 18-8 SS, Mandrel Is 18-8 SS

#### CAPACITIES

Tensile (Lbs)	530
Shear (Lbs)	420

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#30 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

#### DISTRIBUTED BY:

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## TECHNICAL DATA SHEET

### #43 Stainless Steel Open End Pop Rivet



- PRDH304043

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	1/8" (.122-.128)
Hole Size (Drill size)	.129-.133 (#30)
Mandrel Diameter nom.	.076
Head Diameter	.250
Head Height	.040
Rivet Length	.337
Grip Range	.126-.187
Finish	Mill Finish
Material	Body is 18-8 SS, Mandrel Is 18-8 SS

#### CAPACITIES

Tensile (Lbs)	530
Shear (Lbs)	420

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#30 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

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## TECHNICAL DATA SHEET

### #46 Stainless Steel Open End Pop Rivet



- PRDH304046

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	1/8" (.122-.128)
Hole Size (Drill size)	.129-.133 (#30)
Mandrel Diameter nom.	.076
Head Diameter	.250
Head Height	.040
Rivet Length	.525
Grip Range	.313-.375
Finish	Mill Finish
Material	Body is 18-8 SS, Mandrel Is 18-8 SS

#### CAPACITIES

Tensile (Lbs)	530
Shear (Lbs)	420

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#30 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

#### DISTRIBUTED BY:

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Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



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## TECHNICAL DATA SHEET

### #54 Stainless Steel Open End Pop Rivet



- PRDH304054

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	5/32"
Hole Size (Drill size)	.160-.164 (#20)
Mandrel Diameter nom.	.095
Head Diameter	.312
Head Height	.050
Rivet Length	.425
Grip Range	.188-.250
Finish	Mill Finish
Material	Body is 18-8 SS, Mandrel Is 18-8 SS

#### CAPACITIES

Tensile (Lbs)	820
Shear (Lbs)	650

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#20 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

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## TECHNICAL DATA SHEET

### #54 Aluminum Dome Head Pop Rivet Milled Finish



- PRDHALU054MF

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	5/32"
Hole Size (Drill size)	.160-.164 (#20)
Mandrel Diameter nom.	.095
Head Diameter	.312
Head Height	.050
Rivet Length	.425
Grip Range	.188-.250
Finish	Polished Aluminum
Material	Aluminum

#### CAPACITIES

Tensile (Lbs)	230
Shear (Lbs)	190

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#20 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

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## TECHNICAL DATA SHEET

### #54 Carbon Steel Dome Head Pop Rivet Zinc Plated



- PRDHCST054MF

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	5/32"
Hole Size (Drill size)	.160-.164 (#20)
Mandrel Diameter nom.	.095
Head Diameter	.312
Head Height	.050
Rivet Length	.425
Grip Range	.188-.250
Finish	Zinc Plated
Material	Carbon Steel

#### CAPACITIES

Tensile (Lbs)	470
Shear (Lbs)	370

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#20 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

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PHONE 800-232-5060

## TECHNICAL DATA SHEET

### #10-12 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 17



- SPSWCST#10C

#### SPECIFICATIONS

Minor thread diameter	.130 - .138"
Major thread diameter	.182 - .190"
Head diameter across flats	.433 - .472"
Material	SAE 1022 STEEL
Finish	CR6+ YELLOW DI-CHROMATE
Headmark	FSI

#### CAPACITIES

Drilling Capacity	.014 - .024"
<b>Strength (Lbs./Ultimate):</b>	
Tensile	2,456 lbs.
Torque	99 in. lbs.
Shear	1,935 lbs.

#### PULLOUT (Ultimate)

5/8" Plywood	493 lbs.
3/4" Plywood	526 lbs.
2x4 Pine	778 lbs.
7/16" OSB	271 lbs.
21/32" OSB	493 lbs.

**INSTALLATION:** Install with 2500 rpm screw gun with #2 Square Drive. Impact drivers are not recommended.

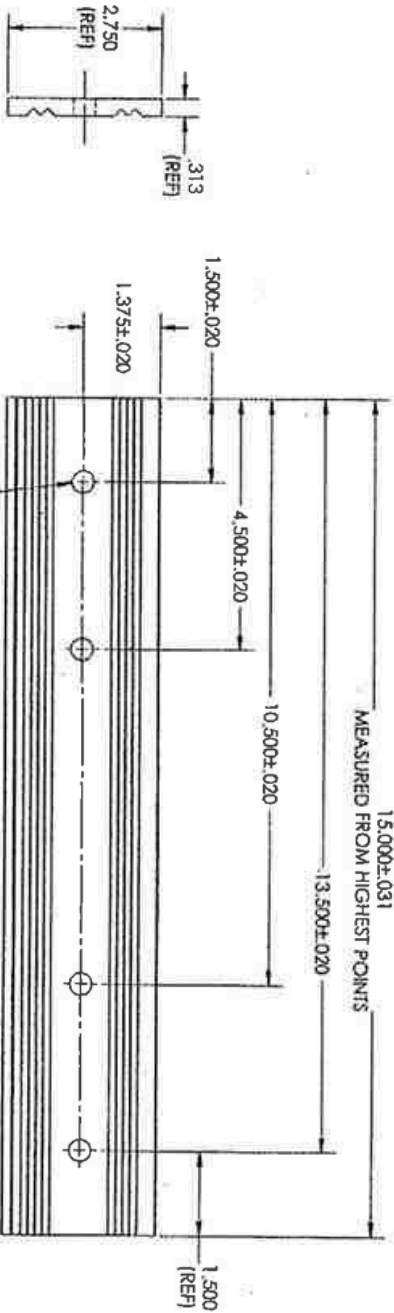
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2011.11.17	REV	11/17/11
REV	DESCRIPTION	REV
1	1	1

# NEED EXPOSED SURFACES



MAKE FROM  
SX-

PACKAGING SPECS:  
STANDARD BUNDLES  
1000 LBS  
CHIPBOARD BETWEEN ROWS  
BAND / STRETCH WRAP / LABEL

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APPROVED BY: *[Signature]* DATE: 11/17/11

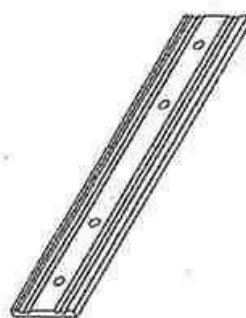
DATE: 11/17/11

COEFFICIENT OF THERMAL EXPANSION  
ALUMINUM: 13.1 x 10<sup>-6</sup> / °F  
STEEL: 6.5 x 10<sup>-6</sup> / °F  
COPPER: 16.5 x 10<sup>-6</sup> / °F  
BRASS: 10.5 x 10<sup>-6</sup> / °F  
INCONEL: 6.0 x 10<sup>-6</sup> / °F  
TITANIUM: 8.0 x 10<sup>-6</sup> / °F  
GLASS: 9.0 x 10<sup>-6</sup> / °F  
POLYMER: 15.0 x 10<sup>-6</sup> / °F  
COMPOUNDS BY PROPERTIES OF MATERIALS & IS IN ACCORDANCE WITH THE NOTED TOLERANCES.

ISO 9001/2008 CERTIFIED

REVISIONS AND COMMENTS	GENERAL NOTES	QUALITY CONTROL	DATE
1. SAW CUT ANGULARITY .112"			
2. SAW CUT DIMS & HOLES NOT DIMENSIONED			
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THE DEFAULT STAR PRINT POLICY IS THAT ALL DIMENSIONS AND TOLERANCES ARE BASED ON THE RAW PART, AND APPLY PRIOR TO FINISHING OPERATIONS SUCH AS: MILLING, TURNING, DRILLING, GRINDING, POLISHING, PLATING, ETC.



drawings depict a design desired and requested by the customer. NC. disclaims all expressed and/or implied warranties including the implied warranties of merchantability and fitness for a particular purpose. The ultimate design, testing, and selection of materials for construction rests solely with the customer.

CEILING TEE  
SIDE VIEW

DIE NO:

REV:

PRELIMINARY NO:

1612-059A-0

Print Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

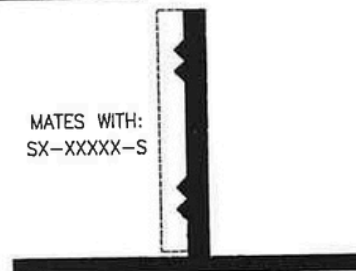
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DATE: \_\_\_\_\_

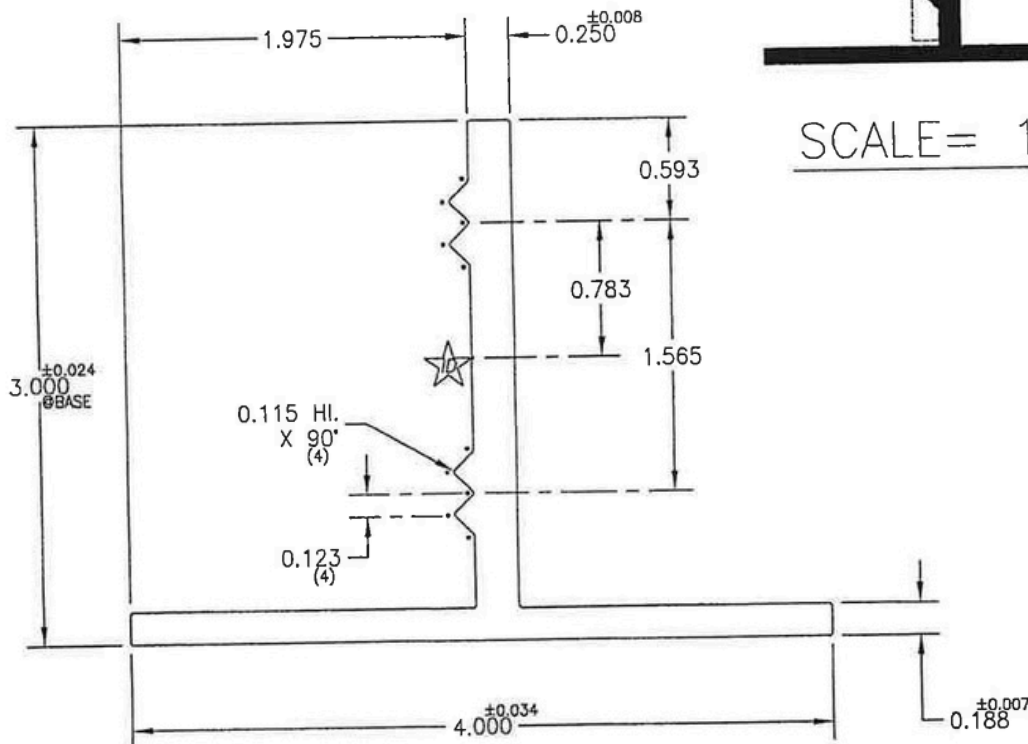
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FOR USE YET

PLEASE INDICATE  
EXPOSED SURFACES

MATES WITH:  
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SCALE = 1:2



THE DEFAULT STAR PRINT POLICY is that ALL Dimensions and Tolerances are based on the RAW PART, and apply PRIOR TO ANY surface preparation(s), coating(s), labeling, lamination(s), film(s), etching, finishing, etc.. This applies to BOTH profile extrusion and fabrication prints.

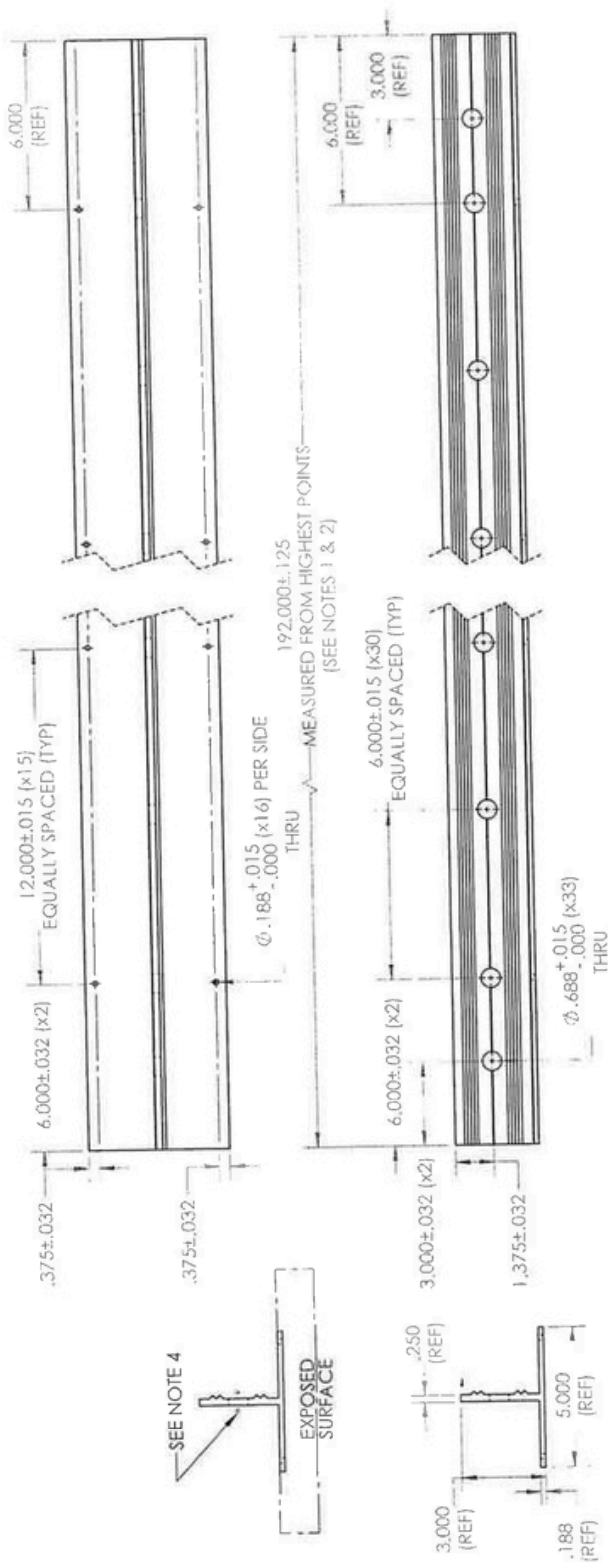
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WE CANNOT PROCEED		
WITH DIE CONSTRUCTION		
IF EXPOSED SURFACES		
ARE NOT ACKNOWLEDGED.		

SCALE: 1:1	C.S.: 4.332	DWN BY: WG	DATE: 12-09-16
AREA: 1.509	WT/FT: 1.811	PERIMETER: Full: 14.330 Fin: 14.330	FACTOR: 8
TITLE: SPlice - T			CUSTOMER NUMBER: PLEASE ADVISE

REV	DATE
-	



PACKAGING SPECS:  
FOAM INTERWEAVING  
42 PCS PER CARDBOARD ENCLOSED MASTER BUNDLE  
BATTEN & BANDED IN 5 SPOTS  
WITH 4X4'S ON BOTTOM

THE DEFAULT STAR PRINT POLICY IS THAT ALL DIMENSIONS AND TOLERANCES ARE BASED ON THE RAW PART, AND APPLY PRIOR TO ANY SURFACE PREPARATION(S), COATING(S), LABELING, LAMINATION(S), FILM(S), ETCHING, FINISHING, ETC..

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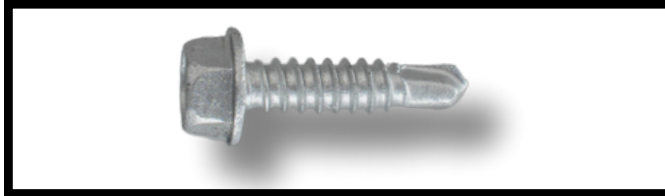
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 2 XL COATED



- SDWUMST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .210"
<b>Strength (Lbs./Ultimate):</b>	
Tensile	3,492 lbs.
Torque	151 in. lbs.
Shear	2,594 lbs.

#### LENGTHS AVAILABLE

1"
1 1/2"

PULLOUT (Ultimate)	STEEL
1/8"	2,443 lbs
12 ga.	2,305 lbs
14 ga.	1,372 lbs
16 ga.	939 lbs.
18 ga.	572 lbs.
20 ga.	437 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

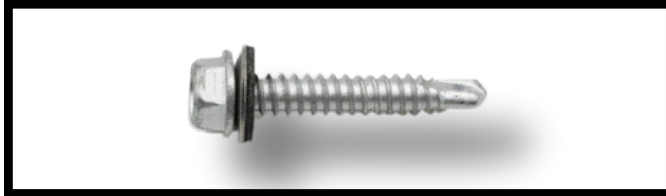
Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/4-14 HWH SELF-DRILLING BI-METAL SCREW TYPE 2 XL COATED W/ BONDED WASHER



- SDWUMST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375"
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

#### CAPACITIES

Drilling application	.050 - .210"
<b>Strength (Lbs./Ultimate):</b>	
Tensile	3,492 lbs.
Torque	151 in. lbs.
Shear	2,594 lbs.

#### LENGTHS AVAILABLE

1"
1 1/2"

#### PULLOUT (Ultimate)

#### STEEL

1/8"	2,443 lbs
12 ga.	2,305 lbs
14 ga.	1,372 lbs
16 ga.	939 lbs.
18 ga.	572 lbs.
20 ga.	437 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 1/2-13" Threaded Rod Zinc Plated



- *ATHRCST08C*

#### SPECIFICATIONS

Thread	1/2-13" Per ANSI B1.1-02 3A
Major Diameter	.488 - .500"
Material	GRADE A307
Finish	Zinc Plated

#### CAPACITIES

Mechanical Properties	ASTM A307-00 GR-A
Tensile Strength	60 Ksi Min Per ASTM F606
Core Hardness	69-100 HRB Per ASTM E18
Elongation	18% Min Per ASTM F606

#### LENGTHS AVAILABLE

3'
6'
10'
12'

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

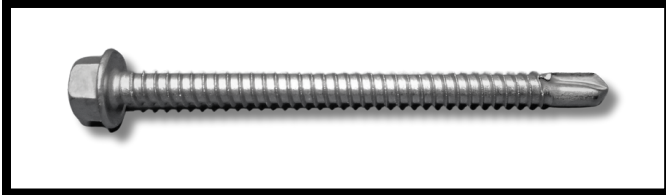
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1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼-14 HWH 410 STAINLESS STEEL TYPE 3 - SDWU410004S



### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.367 - 0.375" (3/8")
Material	410 Stainless Steel
Finish	Bright Hardened, Passivated
Coating	
Headmark	FSI4

### CAPACITIES

Drilling application	0.050 – 0.250"
<b>Strength (Lbs./Ultimate):</b>	
Torque	5,823 lbs.
Tensile	223 in. lbs.
Shear	3,753 lbs.

### PULLOUT (Ultimate)

1/4"	5,153 lbs.
3/16"	4,233 lbs.
1/8"	2,171 lbs.
12 ga.	1,629 lbs.
14 ga.	1,166 lbs.
16 ga.	825 lbs.

### LENGTHS AVAILABLE

3/4"
7/8"
1"
1-1/4"
1-1/2"
2"
3"
4"
5"
6"
7"
8"

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800rpm screw gun with 3/8" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd. West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



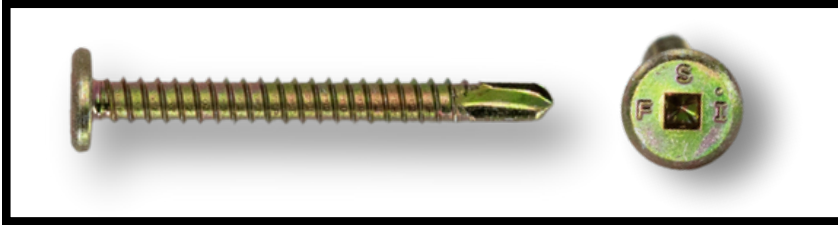


1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### #12-14 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 3 YELLOW ZINC

- SDSWCST#12S



#### SPECIFICATIONS

Minor thread diameter	0.157 - 0.164"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.433 - 0.472"
Material	SAE 1022 CARBON STEEL
Finish	CR6+ YELLOW DI-CHROMATE
Headmark	FSI

#### CAPACITIES

Drilling application	.050 - .234"
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	2,820 lbs.
Torque	104 in. lbs.
Shear	2,146 lbs.

#### LENGTHS AVAILABLE

2"

PULLOUT (Ultimate)	STEEL/ALUMINUM
3/16"	2,734 lbs./2,309 lbs.
1/8"	1,939 lbs./1,090 lbs.
12 ga.	1,923 lbs.
14 ga.	938 lbs.
16 ga.	885 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 2000 rpm screw gun with #2 square drive. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

¼ - 14 PANCAKE HEAD CARBON STEEL TYPE 3 XL COATED - *SDSWCST004S*



### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.615 - 0.635"
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

### CAPACITIES

Drilling application	Up to 1/4" Steel
<b>Strength (Lbs. / Ultimate):</b>	
Tensile	3,635 lbs.
Torque	150 inch / lbs.
Shear	3,897 lbs.

### LENGTHS AVAILABLE

1"
2"
3"
4"
5"
6"
8"
10"

### PULLOUT (Ultimate)

3/16"	3,695 lbs.
1/8"	2,088 lbs.
12 ga.	1,553 lbs.
14 ga.	1,153 lbs.
16 ga.	736 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 1800 rpm screw gun with #3 square drive. Impact drivers are not recommended. Maximum pullout strength is achieved once the forged threads are engaged in the terminating metal.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

#10-16 HWH BI-METAL 304 SS TYPE 2 XL COATED - SDWUMST#10S



### SPECIFICATIONS

Minor thread diameter	0.135 - 0.141"
Major thread diameter	0.182 - 0.189"
Head diameter across flats	0.305 - 0.312" (5/16")
Material	SAE 1035 CARBON STEEL DRILL POINT AND STARTER THREADS, 304 STAINLESS STEEL BODY AND HEAD
Finish	CR6+ CLEAR CHROMATE (.0002 min.)
Coating	SILVER GRAY RUSPERT 500 HOUR SALT SPRAY
Headmark	FSI3

### CAPACITIES

Drilling application	0.036 – 0.187"
<b>Strength(Lbs./Ultimate):</b>	
Tensile	1,997 lbs.
Torque	61 in. lbs.
Shear	1,506 lbs.

### LENGTHS AVAILABLE

3/4"

### PULLOUT (Ultimate) STEEL/ALUMINUM

1/8"	1,691 lbs./1013 lbs.
12 ga.	1,382 lbs.
14 ga.	1,009 lbs.
16 ga.	733 lbs.
18 ga.	553 lbs.
20 ga.	339 lbs.

**\*PAINTING AVAILABLE**

### INSTALLATION:

Install with 2500 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### #12-24 SQUARE DRIVE PANCAKE HEAD CARBON STEEL TYPE 5 XL COATED



- UPDATE

#### SPECIFICATIONS

Minor thread diameter	0.180 - 0.185"
Major thread diameter	0.209 - 0.215"
Head diameter across flats	0.305 - 0.312"
Material	SAE 1018 CARBON STEEL
Finish	CR6+ CLEAR CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

#### CAPACITIES

Drilling application	Up to 1/2" steel	
<b>Strength(Lbs./Ultimate):</b>		
Tensile	2,697 lbs.	
Torque	98 in. lbs.	
Shear	2,222 lbs.	

#### LENGTHS AVAILABLE

PULLOUT (Ultimate)	STEEL/ALUMINUM
1/2"	5,879 lbs.
3/8"	3,065 lbs.
1/4"	2,842 lbs./1,179 lbs.
3/16"	2,520 lbs./1,366 lbs.

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 2000 rpm screw gun with 5/16" nut setter. Impact drivers are not recommended.

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



## FSI – Aluminum Ceiling Tee (OEM Type)

FSI's Aluminum Ceiling Tee supports suspended architectural ceiling panel systems. The Ceiling Tee is an inverted "T" shape with a 5" wide flange (0.188" thick) and a 0.25" thick stem, available in a 3" vertical leg. It comes pre-drilled at intervals of 12" O.C. on the horizontal flange and 6" O.C. on the vertical flange, for quick installation. Supporting splice plate and accessory kits available. The Ceiling Tee has a proprietary powder coated white finish to match all major panel manufacturers' standard white.

### TECHNICAL DATA

PROPERTIES	
Material	6061-T6
Dimensions	Horizontal flange: 5" wide x 3/16" thick Vertical Flange: 3" high x 5/16" thick
Length	16' overall
For Use With	Suspended Ceilings
Color	Bone White
Tensile Strength	42,000 psi
Yield Strength	35,000 psi
Packaging	2 pcs per bundle

### 3" x 5" Tee Section

Deflection Limit	MAXIMUM UNIFORM LOAD (PLF)				
	4' Span	5' Span	6' Span	7' Span	8' Span
L/180	535	325	185	115	80
L/240	480	245	140	85	60
L/360	320	160	95	55	40
L/480	240	120	70	40	30

**WARRANTY:** We will warrant the product for (1) one year provided that it meets the specifications that are mutually agreed upon between the manufacturer and the customer.

### USES & APPLICATION AREAS

- Supports for suspended ceiling panel
- Fire-rated or general applications
- Controlled Environment
- Commercial Warehouse
- Retail

### ADVANTAGES

- Installed as part of a ceiling system which allows plenum access to utilities
- Aircraft Aluminum helps prevent corrosion
- Corrosion resistant
- White, clean look which matches all major ceiling panels
- Twist resistant offering professional grade finish
- Appropriate load carrying capacities



1210 AMERICAN BLVD.  
WEST CHSTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### 14-13 CLIPFAST PANCAKE HEAD CARBON STEEL TYPE 1 XL CTD



- SDSWCST#14S

#### SPECIFICATIONS

Minor thread diameter	0.134 - 0.148"
Major thread diameter	0.230 - 0.235"
Head diameter across flats	0.490 - 0.510"
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HR SALT SPRAY
Headmark	FSI

#### CAPACITIES

Drilling application	Up to 12 ga. steel (also works in wood/concrete)
<b>Strength(Lbs./Ultimate):</b>	
Tensile	3,310 lbs.
Torque	100 in. lbs.
Shear	2,298 lbs.

#### PULLOUT (Ultimate)

16 ga.	1,041 lbs.
18 ga.	948 lbs.
20 ga.	501 lbs.
22 ga.	415 lbs.
5/8" Plywood	558 lbs.
3/4" Plywood	590 lbs.
2"x4" Pine Fir	1375 lbs.
7/16" OSB	458 lbs.
21/32" OSB	527 lbs.

#### LENGTHS AVAILABLE

3/4"
1-1/2"
2"
3"
4"
5"
6"
7"
8"
9"

#### INSTALLATION:

Install with 1800 rpm screw gun with #2 square drive. Impact drivers are not recommended.

**\*PAINTING AVAILABLE**

#### CONFORMANCE:

Fasteners conform to the SAE J78 and all applicable IFI Standards.

#### DISTRIBUTED BY:

Fastener Systems Inc. 1210 American Blvd., West Chester, PA 19380

Disclaimer: All test results are based on testing done in a laboratory. Specific job conditions should be taken into consideration when specifying the proper fastener. Because applications vary, FSI assumes no liability for the use of this information.



1210 AMERICAN BLVD.  
WEST CHESTER, PA 19380  
PHONE 800-232-5060

## TECHNICAL DATA SHEET

### ¼-14 SQUARE TRUSS HEAD CARBON STEEL TYPE 1 XL COATED W/BN



- SDSTCST004S

#### SPECIFICATIONS

Minor thread diameter	0.185 - 0.192"
Major thread diameter	0.240 - 0.246"
Head diameter across flats	0.470 - 0.475"
Material	SAE 1022 steel
Finish	CR6+ YELLOW DI-CHROMATE
Coating	SILVER GRAY RUSPERT 1000 HOUR SALT SPRAY
Headmark	FSI

#### CAPACITIES

Drilling application	0.018 – 0.090"
<b>Strength(Lbs./Ultimate):</b>	
Tensile	3,850 lbs.
Torque	219 in. lbs.
Shear	3,431 lbs.

#### PULLOUT (Ultimate)

16 ga.	1365 lbs.
18 ga.	741 lbs.
20 ga.	463 lbs.
22 ga.	437 lbs.
24 ga. x 2 sheets	596 lbs.

#### LENGTHS AVAILABLE

7/8"

**\*PAINTING AVAILABLE**

#### INSTALLATION:

Install with 1800 rpm screw gun with #2 Square drive. Impact drivers are not recommended.

#### CONFORMANCE:

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## TECHNICAL DATA SHEET

### #48 Stainless Steel Open End Pop Rivet



- PRDH304048

**\*PAINTING AVAILABLE**

#### SPECIFICATIONS

Rivet Size	1/8" (.122-.128)
Hole Size (Drill size)	.129 - .133
Mandrel Diameter nom.	.076
Head Diameter	.250
Head Height	.040
Rivet Length	.650
Grip Range	.376 - .500
Finish	Mill Finish
Material	Body is 18-8 SS, Mandrel Is 18-8 SS

#### CAPACITIES

Tensile (Lbs)	530
Shear (Lbs)	420

#### CONFORMANCE:

Manufactured per IFI-114 Standards

#### INSTALLATION:

#30 High Speed Steel Drill Bit Required. Can be installed with battery powered or manual rivet installation tools

#### DISTRIBUTED BY:

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