

TECHNICAL

DATA

#14 HD Stainless Steel Drill Point Fastener

- **Alloy:** Stainless steel (TrimRite®) UNS 42010. The alloy used in HD Drill Point Stainless Steel Fasteners is generically called 14Cr-1ni-1mo. (14% Chrome - 1% Nickel - 1% Molybdenum).

Compositional requirements meet ASTM 493 alloy S42010.

TrimRite® stainless is balanced to be fully martensitic in the hardened condition and is magnetic in all conditions.

- **Corrosion Resistance:** ASTM-B117 - 95°F 5% salt (NACI) for 200 hours.

ASTMB368 (cass test) copper acidified salt spray (light staining allowed) 22 hours.

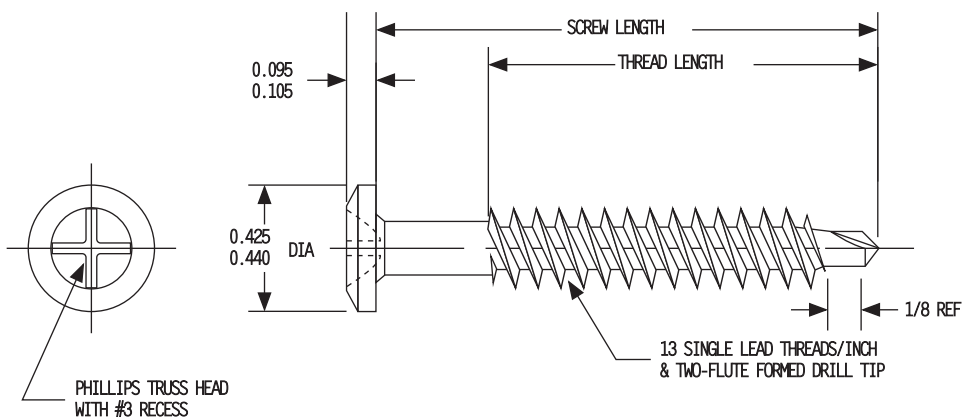
Kesternich - DIN 50018 SFW 2.0S 30 cycles

- **Drilling Capability:** RC 50-52 Hardness Self drilling point

Factory Mutual Systems Approved: JI-1H2Ao.AM, JI-0J9A1.AM, JI-1G1A6.AM. 18 ga.- 20 ga. - 22 ga. metal decks, wood decks and reroof steel decks.

- **Uses:** Predominately steel (18 ga. - 22 ga.). Also Factory Mutual approved for wood decks.

TECHNICAL DRAWING



Subject to the condition of Approval as a roofing component when installed as shown in the current edition of the Factory Mutual Research Approval Guide



TRUFAST, LLC
02105 Williams Cty. Rd. 12-C
Bryan, Ohio 43506-9804
1-800-443-9602 • 419-636-6715 • Fax: 419-636-1784
WebSite: www.trufast.com • E-mail: sales@trufast.com

#14 HD Stainless Steel Drill Point Fastener

Part No.	Screw Length*	Thread Length*	Pieces/Box	Weight/Box
HD-1500-SS	1 1/2	FULL	1000	14#
HD-2000-SS	2	FULL	1000	18#
HD-3000-SS	3	FULL	1000	26#
HD-4000-SS	4	3 7/8	1000	31#
HD-5000-SS	5	3 7/8	1000	42#
HD-6000-SS	6	3 7/8	1000	47#
HD-7000-SS	7	3 7/8	500	27#
HD-8000-SS	8	3 7/8	500	30#
HD-9000-SS	9	3 7/8	500	34#
HD-10000-SS	10	3 7/8	500	38#
HD-11000-SS	11	3 7/8	500	43#
HD-12000-SS	12	3 7/8	500	45#

Pull-out Values in Steel	Pull-out Values in Wood
18 Ga. - 830 lbs.	1/2" Plywood-442 lbs.
20 Ga. - 656 lbs.	3/4" Plywood-495 lbs.
22 Ga. - 472 lbs.	Wood Plank
24 Ga. - 347 lbs.	1" Embedment-517 lbs.

- A threaded fastener at root diameter .150 nominal = **4500 lbs. ultimate tensile force.**
- A threaded fastener at root diameter .150 nominal = **3000 lbs. ultimate shear force.**

Note: All tests were conducted by an independent testing laboratory. Results of these tests are offered only as a guide and are not guaranteed in any way by TRUFAST, LLC. Designated holding values depend on the quality of materials being anchored to. TRUFAST, LLC recommends that pull-out tests be conducted to verify that the substrate provides adequate pull-out values.

* Screw length = ± 1/16"
Thread length = ± 1/16"

Room Temperature Mechanical Properties:

(wire and small bar 1/2" diameter and less)

Properties	Annealed	Hardened*
02% Yield Strength		
KSi	57	184
MPa	394	1270
Tensile Strength		
KSi	94	260
MPa	650	1800
% Elongation (in 1")	35	14
% Reduction of Area	68	52
Hardness	B87	C50
*1900°F 15 minute aircool plus 400°F hr, AC		



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