

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.

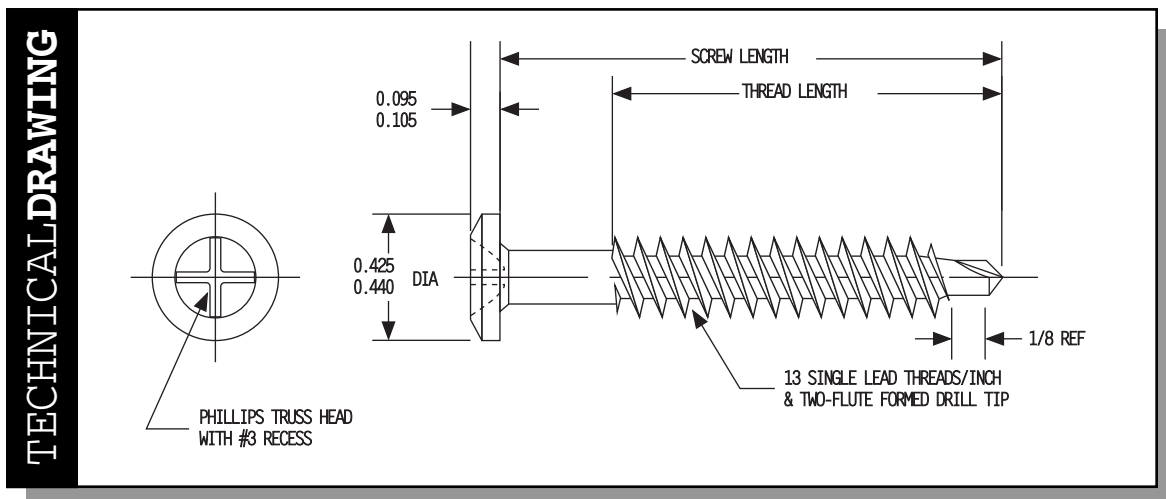
ASTMB368 (cass test) copper acidified salt spray (light staining allowed) 22 hours.

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.



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



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#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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