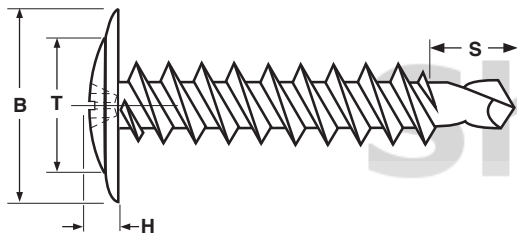


Modified Truss Phillips

SELF-DRILLING



MODIFIED TRUSS HEAD PHILLIPS SELF DRILLING SCREWS

| Nominal Size & Number of Threads per inch | B | | H | | D1 | | D2 | | Point Size | S | | Phillips Driver Size |
|---|-----------------------|------|-------------------|------|----------------|------|----------------|------|------------|----------------------|------|----------------------|
| | Overall Head Diameter | | Total Head Height | | Minor Diameter | | Major Diameter | | | Protrusion Allowance | | |
| | Max | Min | Max | Min | Max | Min | Max | Min | | Max | Min | |
| 4-24 | .261 | .242 | .079 | .066 | .086 | .081 | .114 | .109 | #2 | .112 | .082 | 1 |
| 6-20 | .401 | .385 | .099 | .070 | .104 | .098 | .139 | .131 | #2 | .158 | .117 | 2 |
| 8-18 | .433 | .409 | .086 | .074 | .141 | .133 | .166 | .161 | #2 | .197 | .137 | 2 |
| 10-16 | .441 | .425 | .098 | .079 | .141 | .135 | .189 | .183 | #2 | .228 | .118 | 2 |
| 10-16 | .441 | .425 | .098 | .079 | .141 | .135 | .189 | .183 | #3 | .307 | .256 | 2 |
| 12-14 | .464 | .440 | .124 | .101 | .164 | .156 | .215 | .208 | #2 | .250 | .205 | 2 |
| 12-14 | .464 | .440 | .124 | .101 | .164 | .156 | .215 | .208 | #3 | .315 | .275 | 2 |
| 1/4-14 | .484 | .459 | .144 | .121 | .192 | .185 | .246 | .239 | #3 | .374 | .334 | 3 |
| 1/4-14 | .583 | .551 | .134 | .118 | .192 | .185 | .246 | .239 | #3 | .374 | .334 | 3 |

| Tolerance on Length | Nominal Screw Size | Nominal Screw Length | | |
|---------------------|--------------------|----------------------|----------------------|-------------|
| | | Thru 1 in. | Over 1" to 2" incl. | Over 2 in. |
| | #4 thru #10 | +0, -.03" | +0, -.047 | +0, -.06 |
| | #12 thru 1/4" | Up to 3/4", incl. | 3/4 to 1 1/2", incl. | Over 1 1/2" |
| | #12 thru 1/4" | +0, -.03" | +0, -.05" | +0, -.06" |

NOTE: There is no single standard for Modified Truss self-drilling screws. These values are offered as a guide; deviations from these specifications may occur.

| | | | |
|---------------------------------|--|--|--|
| Description | A fastener with an extra wide head, twinfast thread and self drilling point. The head is an integrally formed round washer with a low rounded top that is approximately 75% the diameter of the washer. | | |
| Applications/ Advantages | Common usage is to attach wire or metal lath to metal studs of a thickness between 12 - 20 gauge. The head design offers low clearance and an extra large bearing surface. The recommended drive speed for installation is 2500 rpm. | Offers superior corrosion resistance, but can only be used in softer materials. Hardness of the material to be drilled should be a minimum of 10-20 Rockwell hardness points less than the fastener. | Not as corrosion-resistant as the 18-8 variety but will drill through harder materials than the 18-8 screw. The same hardness gradient rule applies: material drilled should be a minimum of 10-20 Rockwell hardness points less than the fastener. |
| Material | AISI 1016 - 1022 or equivalent steel. | 18-8 stainless | 410 stainless |
| Heat Treatment | Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum. | - | An ideal method of hardening 410 stainless screws is a bright hardening process, which typically involves a vacuum furnace. Another key factor affecting hardness is the chemistry of the fastener--most elements have maximum values but not minimums. This fact can contribute to hardness variance. |
| Surface Hardness | Rockwell C 52 - 58 | - | - |
| Case Depth | #4 & #6 diameters: .002 - .007 #8 thru #12 diameters: .004 - .009 1/4" diameter: .005 - .011 | - | - |
| Hardness | Core: Rockwell C 32 - 40 (after tempering) | - | Rockwell C38 - 46 (approx.) |
| Plating | Zinc and Bake & Black Phosphate | Usually supplied without a secondary finish. | |