

Pan Hd Type-Z Plastite® /
Plas-Fix®-45 Alternatives

THREAD FORMING SCREWS



PAN TYPE-Z PLASTITE® PLAS-FIX® 45° ALTERNATIVE THREAD ROLLING SCREWS

| Nominal Screw Size | G | | T | | P | Recess Size | C | | D | | Recommended Pilot Hole Sizes | |
|--------------------|---------------|------|-------------|------|---------------------------------|-------------|-----------------------------------|------|----------------------------|------|------------------------------|------|
| | Head Diameter | | Head Height | | Recess Penetration Gaging Depth | | Diameter of Circumscribing Circle | | Measurements Across Center | | | |
| | Max | Min | Max | Min | Min | | Max | Min | Max | Min | | |
| M2.2 | 4.24 | 3.94 | 1.57 | 1.43 | 1 | 1 | 2.25 | 2.15 | 2.15 | 2.05 | 1.47 | 1.79 |
| M2.5 | 4.00 | 3.70 | 1.60 | 1.46 | 1.1 | 1 | 2.55 | 2.41 | 2.5 | 2.37 | 1.85 | 2.05 |
| M3 | 5.00 | 4.70 | 1.95 | 1.81 | 1.35 | 1 | 3.05 | 2.92 | 3 | 2.87 | 2.30 | 2.50 |
| M3.5 | 6.00 | 5.70 | 2.30 | 2.16 | 1.45 | 1 | 3.55 | 3.42 | 3.5 | 3.34 | 2.75 | 3.00 |
| M4 | 7.00 | 6.61 | 2.45 | 2.31 | 1.9 | 2 | 4.06 | 3.89 | 4 | 3.79 | 3.20 | 3.45 |
| M5 | 8.00 | 7.64 | 2.80 | 2.66 | 2.3 | 2 | 5.06 | 4.89 | 5 | 4.79 | 3.70 | 4.10 |
| M6 | 10.00 | 9.64 | 3.50 | 3.32 | - | 2 | 6.06 | 5.89 | 5.95 | 5.78 | 4.70 | 5.10 |

| | | | | |
|----------------------------|--------------------------|--------------------------------|-------------------------------|------------------------|
| Tolerance on Length | M2.2 (All Lengths): ±0.8 | M2.5 thru M5, up to 20mm: ±0.8 | M2.5 thru M5, Over 20mm: ±1.3 | M6 (All Lengths): ±1.3 |
|----------------------------|--------------------------|--------------------------------|-------------------------------|------------------------|

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|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Trilobular thread-rolling screw with extra wide spacing between 45° profile threads and a single lead thread that extends from the blunt point. Head is gently rounded. Recess features a large center opening; wide, straight wings; and a blunt bottom. |
| Applications/Advantages | Thermoplastics, engineering resins and certain thermosets. Sharper thread profile increases holding strength while reducing material displacement. Drive and strip torques are higher, reducing the need for inserts or reinforcing clips. |
| Material | <i>Steel</i> AISI 1022 steel |
| Heat Treatment | Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum. |
| Case Hardness | HV 450 minimum |
| Case Depth | M2 thru M3.5 diameters: 0.05 - 0.18 mm M4 & M5 diameters: 0.10 - 0.25 mm M6 diameter: 0.13 - 0.28 mm |
| Core Hardness (after tempering) | HV 250 - 380 |
| Plating | Screws have a RoHS-compliant zinc finish. |

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