

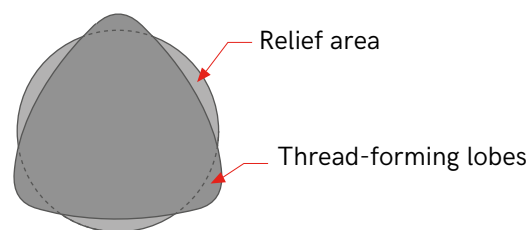
PLASTITE® 45

Screw for plastic

The Plastite® 45 fastener is designed to facilitate thread-forming in less-compressible plastics while providing high resistance to thread stripping and pull-out.

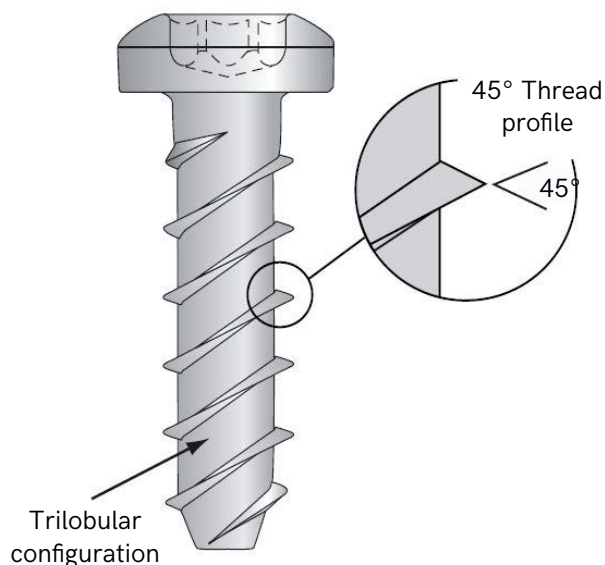
Main Properties

- Can be used in small bosses
- Increases product reliability
- Lowers screwing torques in stiffer plastics



Features

- Trilobular configuration allows displaced material to flow back into relief areas
- Minimizes radial stresses
- Reduces risk of boss failure
- Allows design of thinner bosses
- 45° thread profile allows threads to penetrate deeply into plastic material
- Suits a wide range of applications
- Generates strong mating threads
- Resists vibrational loosening
- Increases resistance to thread stripping
- Achieves wide differentials between drive and failure torque
- Single lead design and narrow helix angle lowers drive and failure torque in thermoplastics with a flexural modulus over 5800 N/mm²



Specifications

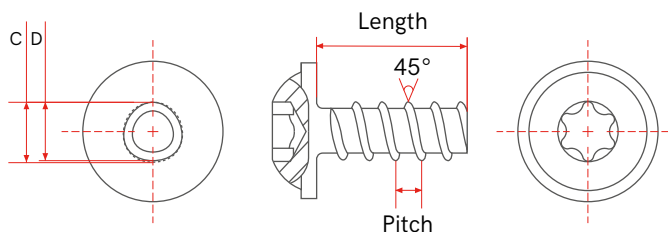
- Sizes: \varnothing 2.5 to 6 mm; other sizes may be available upon request.
- Head Styles: Can be used with any external or internal designs (Pan, hexagonal, round, flanged, etc.).
- Drive System: Can use any system.
- Finish: As required.
- Applications: Engineering-grade thermoplastics (with a flexural modulus over 5800 N/mm²)

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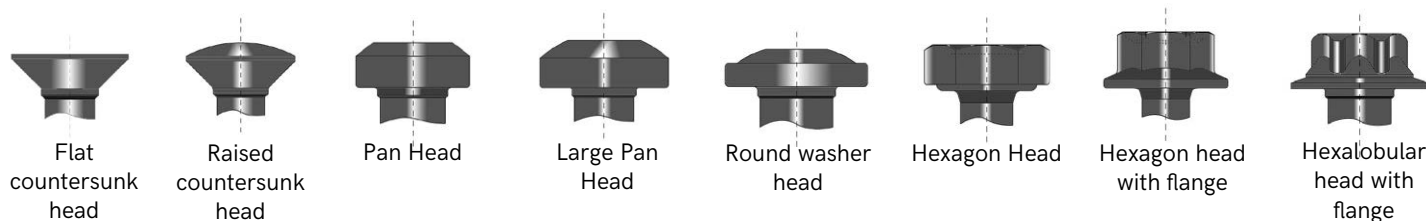
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Technical data sheet

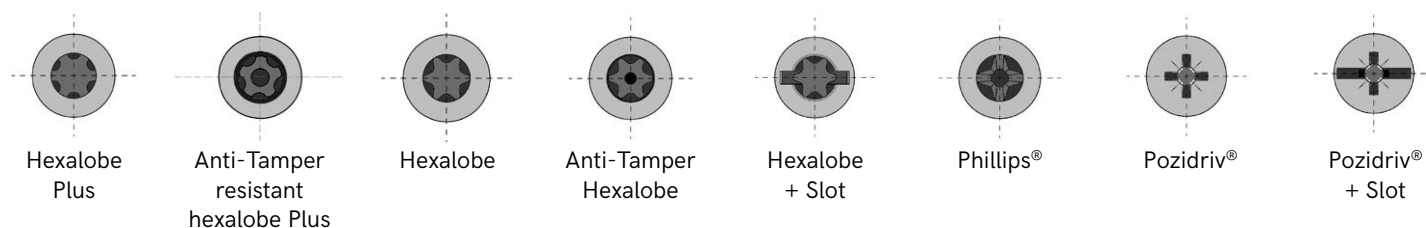
Material: Case-hardened steel
 Surface hardness: 500 to 650 HV0.3
 Core hardness: 270 to 390 HV10



Head shapes



Socket type



Dia nom.	2.5	3.0	3.5	4.0	5.0	6.0
C	2.41 - 2.53	2.92 - 3.04	3.42 - 3.54	3.89 - 4.04	4.89 - 5.04	5.89 - 6.04
D	2.37 - 2.49	2.87 - 2.99	3.34 - 3.48	3.79 - 3.94	4.79 - 4.94	5.78 - 5.93
Pitch	1.40	1.50	1.65	1.75	2.20	2.50
Length						
4 +/- 0.45						
6 +/- 0.45						
8 +/- 0.45						
10 +/- 0.45						
12 +/- 0.55						
16 +/- 0.55						
18 +/- 0.55						
20 +/- 0.65						
25 +/- 0.65						
30 +/- 0.65						
35 +/- 0.80						
40 +/- 0.80						
45 +/- 0.80						
50 +/- 0.80						
60 +/- 0.95						
70 +/- 0.95						

Values in mm