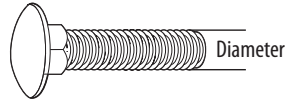


Carriage Bolts — Also known as Carriage Screws

- Common applications include: deck building, fence construction and patio furniture.
- Smooth round head for appearance, security and safety.
- Square shank under the head pulls into the wood as nuts are tightened preventing the bolt from turning in wood.

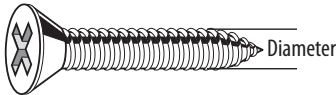


US Sheet Metal Screw Diameter

| Size | #0 | #1 | #2 | #3 | #4 | #5 | #6 | #8 | #10 | #12 | #14 |
|------------|------|------|------|------|------|------|------|------|------|------|------|
| Decimal | 0.06 | 0.07 | 0.08 | 0.09 | 0.11 | 0.12 | 0.13 | 0.16 | 0.19 | 0.21 | 0.24 |
| Fractional | 1/16 | 5/64 | 3/32 | 7/64 | 7/64 | 1/8 | 9/64 | 5/32 | 3/16 | 7/32 | 1/4 |

Sheet Metal Screws — Also known as Tapping Screws

- Used to join and draw sheet metal together or to attach metal hardware to wood.
- Made from hardened steel this highly versatile screw can be used in wood, fiberglass and metal.



Pilot Hole Size for Sheet Metal Screws

| Screw Diameter | Metal Thickness (USS Gage No) | Equivalent | Drill Size |
|----------------|-------------------------------|------------|------------|
| #4 | 28 | .0156 | 44 |
| | 26 | .1088 | 44 |
| | 24 | .0250 | 43 |
| | 22 | .0313 | 42 |
| | 20 | .0375 | 42 |
| #6 | 28 | .0156 | 37 |
| | 26 | .0188 | 37 |
| | 24 | .0250 | 36 |
| | 22 | .0313 | 36 |
| | 20 | .0375 | 35 |
| #8 | 26 | .1088 | |
| | 24 | .0250 | 32 |
| | 22 | .0313 | 32 |
| | 20 | .0375 | 32 |
| | 18 | .0500 | 30 |
| #10 | 26 | .1088 | 27 |
| | 24 | .0250 | 27 |
| | 22 | .0313 | 27 |
| | 20 | .0375 | 27 |
| | 18 | .0500 | 27 |
| #12 | 24 | .1025 | 19 |
| | 22 | .0313 | 19 |
| | 20 | .0375 | 19 |
| | 18 | .0500 | 18 |
| #14 | 22 | .0313 | 13 |
| | 20 | .0375 | 13 |
| | 18 | .0500 | 11 |
| | 16 | .0625 | 8 |

Pilot Hole Size for Sheet Metal Screws

| Screw Diameter | Drill Size |
|----------------|------------|
| #4 | 3/32" |
| #6 | 7/64" |
| #8 | 1/8" |
| #10 | 9/64" |
| #12 | 5/32" |
| #14 | 3/16" |
| 1/4" | 1/4" |