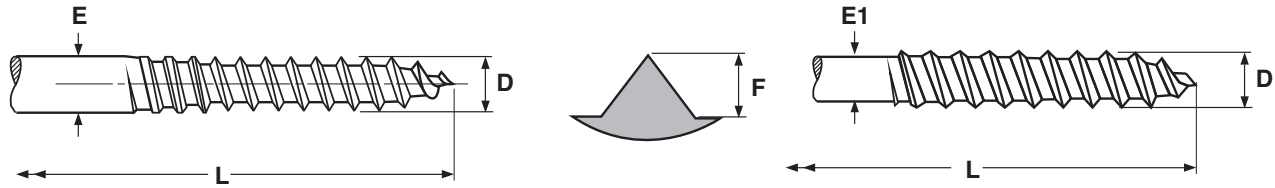


# Cut & Rolled Threads

# Mechanical Requirements, Thread & Body Dimensions

# Wood Screws



**THREAD & BODY DIAMETERS FOR WOOD SCREWS • CUT & ROLLED THREAD TYPES** ASME B18.6.11997

| Nominal Size or Basic Screw Diameter | Threads per Inch (±10%) | D                     |      | E                          |      | E1                            |      | F            |      |
|--------------------------------------|-------------------------|-----------------------|------|----------------------------|------|-------------------------------|------|--------------|------|
|                                      |                         | Major Thread Diameter |      | Body Diameter (Cut Thread) |      | Body Diameter (Rolled Thread) |      | Thread Depth |      |
|                                      |                         | Max                   | Min  | Max                        | Min  | Max                           | Min  | Min          |      |
| 2                                    | .086                    | 26                    | .090 | .079                       | .090 | .079                          | .075 | .064         | .010 |
| 3                                    | .099                    | 24                    | .103 | .092                       | .103 | .092                          | .086 | .075         | .014 |
| 4                                    | .112                    | 22                    | .116 | .105                       | .116 | .105                          | .095 | .084         | .016 |
| 5                                    | .125                    | 20                    | .129 | .118                       | .129 | .118                          | .107 | .096         | .018 |
| 6                                    | .138                    | 18                    | .142 | .131                       | .142 | .131                          | .118 | .107         | .020 |
| 7                                    | .151                    | 16                    | .155 | .144                       | .155 | .144                          | .127 | .116         | .022 |
| 8                                    | .164                    | 15                    | .168 | .157                       | .168 | .157                          | .136 | .125         | .023 |
| 9                                    | .177                    | 14                    | .181 | .170                       | .181 | .170                          | .147 | .136         | .026 |
| 10                                   | .190                    | 13                    | .194 | .183                       | .194 | .183                          | .157 | .146         | .030 |
| 12                                   | .216                    | 11                    | .220 | .209                       | .220 | .209                          | .176 | .165         | .031 |
| 14                                   | .242                    | 10                    | .246 | .235                       | .246 | .235                          | .201 | .190         | .035 |
| 16                                   | .268                    | 9                     | .272 | .261                       | .272 | .261                          | .214 | .203         | .038 |

| Tolerance on Length | Nominal Screw Length |                              |                                |                |
|---------------------|----------------------|------------------------------|--------------------------------|----------------|
|                     | Up to 5/8 in., Incl. | Over 5/8 to 1-1/2 in., Incl. | Over 1-1/2 to 2-3/4 in., Incl. | Over 2-3/4 in. |
|                     | +0, -0.03            | +0, -0.05                    | +0, -0.06                      | +0, -0.09      |

|                                |   |   |
|--------------------------------|---|---|
| <b>Description</b>             | A thread forming screw having a tapered point, and a sharp crested, coarse pitch thread. Wood screws are produced two ways: Cut thread screws have a tapered shank; Rolled thread screws have a constant shank diameter, then taper at the point.   |   |
| <b>Applications/Advantages</b> | Will produce a mating thread when assembled into wood or other resilient materials.   |   |
| <b>Material</b>                | Carbon steel  | 18-8 Stainless  |
| <b>Length of Thread</b>        | <p><i>Cut thread screws:</i> Approximately two-thirds of the nominal length of the screw.</p> <p><i>Rolled thread screws:</i> At least four times the basic screw diameter or two-thirds of the nominal screw length, whichever is greater. Screws of nominal lengths too short to accommodate the minimum thread length shall have threads extending as close to the underside of the head as practicable.</p> |   |
| <b>Plating</b>                 | See Appendix-A for plating information.   | Stainless wood screws are usually supplied without additional finish. |