

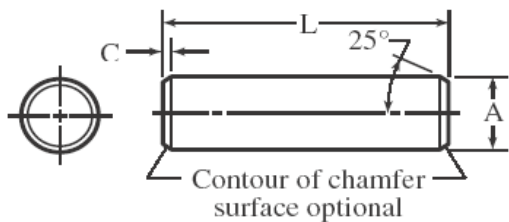
Related Resources: [hardware](#)

Standard Unhardened Ground Dowel Pins per ANSI/ASME B18.8.2

[ANSI ASME Hardware Guide](#)

American National Standard Unhardened Ground Dowel Pins per ANSI/ASME B18.8.2

Unhardened ground dowel pins are normally produced by grinding the outside diameter of commercial wire or rod material to size.



Designation: These pins are designated by the following data in the order shown: Product name (noun first), nominal pin diameter (fraction or decimal equivalent), length (fraction or decimal equivalent), material, and protective finish, if required.

Nom. Size Nom. Pin Diameter	Pin Dia. A		Chamfer Length C		Suggested Hole Dia.		Double Shear Load min Lb	
	Max	Min	Max	Min	Max	Min	Carbon Steel	Brass
$\frac{1}{16}$ 0.0625	0.0600	0.0595	0.025	0.005	0.0595	0.0580	350	220
$\frac{3}{32}$ 0.0938	0.0912	0.0907	0.025	0.005	0.0907	0.0892	820	510
$\frac{1}{8}$ 0.1250	0.1223	0.1218	0.025	0.005	0.1217	0.1202	1,490	930
$\frac{5}{32}$ 0.1562	0.1535	0.1530	0.025	0.005	0.1528	0.1513	2,350	1,470
$\frac{3}{16}$ 0.1875	0.1847	0.1842	0.025	0.005	0.1840	0.1825	3,410	2,130
$\frac{7}{32}$ 0.2188	0.2159	0.2154	0.025	0.005	0.2151	0.2136	4,660	2,910
$\frac{1}{4}$ 0.2500	0.2470	0.2465	0.025	0.005	0.2462	0.2447	6,120	3,810
$\frac{5}{16}$ 0.3125	0.3094	0.3089	0.040	0.020	0.3085	0.3070	9,590	5,990
$\frac{3}{8}$ 0.3750	0.3717	0.3712	0.040	0.020	0.3708	0.3693	13,850	8,650
$\frac{7}{16}$ 0.4375	0.4341	0.4336	0.040	0.020	0.4331	0.4316	18,900	11,810
$\frac{1}{2}$ 0.5000	0.4964	0.4959	0.040	0.020	0.4954	0.4939	24,720	15,450
$\frac{5}{8}$ 0.6250	0.6211	0.6206	0.055	0.035	0.6200	0.6185	38,710	24,190
$\frac{3}{4}$ 0.7500	0.7458	0.7453	0.055	0.035	0.7446	0.7431	55,840	34,900
$\frac{7}{8}$ 0.8750	0.8705	0.8700	0.070	0.050	0.8692	0.8677	76,090	47,550
1 1.0000	0.9952	0.9947	0.070	0.050	0.9938	0.9923	99,460	62,160

Related:

- [Dowel Pin Slip and Press Fit Installation Tolerance Chart](#)
 - [Dowel Pin Shear Load Stress Equations and Calculator](#)
 - [ISO Metric Dowel Pins per DIN EN ISO 8734](#)
 - [Aircraft Stud, Lock Ring, Dowel Pin, Bolt, Nut Reference Guide Table #6](#)
 - [Design for Dowel Pin Press Fit](#)
 - [Bolt or Pin In Single Shear Equation and Calculator](#)
-  [Bolt Single and Double Shear and Tension Stress Analysis Calculator per AISC 9th Edition](#)

Link to this Webpage:

Engineers Edge:

https://www.engineersedge.com/hardware/standard_unhardened_ground_dowel_pins_15844.htm

Copy Text to clipboard

Click for Suggested Citation

© Copyright 2000 - 2024, by Engineers Edge, LLC

www.engineersedge.com

All rights reserved

[Disclaimer](#) | [Feedback](#)

[Advertising](#) | [Contact](#)

Main Categories

- › [Home](#)
- › [Engineering Book Store](#)
- › [Engineering Forum](#)
- › [Applications and Design](#)
- › [Beam Deflections and Stress](#)
- › [Bearing Apps, Specs & Data](#)
- › [Belt Design Data Calcs](#)
- › [Civil Engineering](#)
- › [Design & Manufacturability](#)
- › [Electric Motor Alternators](#)
- › [Engineering Calculators](#)
- › [Excel App. Downloads](#)
- › [Flat Plate Stress Calcs](#)
- › [Fluids Flow Engineering](#)
- › [Friction Engineering](#)
- › [Gears Design Engineering](#)
- › [General Design Engineering](#)
- › [Hardware, Imperial, Inch](#)
- › [Hardware, Metric, ISO](#)
- › [Heat Transfer](#)
- › [Hydraulics Pneumatics](#)
- › [HVAC Systems Calcs](#)
- › [Economics Engineering](#)
- › [Electronics Instrumentation](#)
- › [Engineering Mathematics](#)
- › [Engineering Standards](#)
- › [Fishing and Diving](#)

- [Power Transmission Tech.](#)
- [Pressure Vessel](#)
- [Pumps Applications](#)
- [Re-Bar Shapes Apps](#)
- [Section Properties Apps](#)
- [Strength of Materials](#)
- [Spring Design Apps](#)
- [Structural Shapes](#)
- [Threads & Torque Calcs](#)
- [Thermodynamics](#)
- [Physics](#)
- [Vibration Engineering](#)
- [Videos Design Manufacture](#)
- [Volume of Solids Calculators](#)
- [Welding Stress Calculations](#)
- [Training Online Engineering](#)

Print Webpage

Scientific Calculator Popup

Unit Converter

Conversion Property

Acceleration ▼

0

Meter/sq.sec (m/sec^2) ▼

Convert To ↓

0

Meter/sq.sec (m/sec^2) ▼

[Copyright Notice](#)