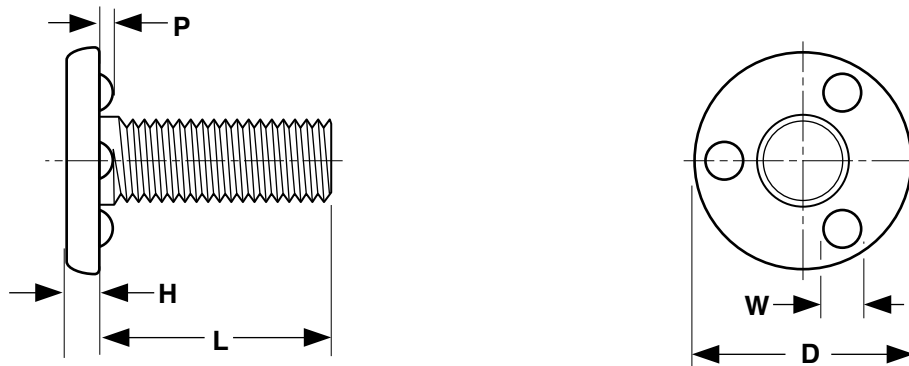


# Weld Screws

# Bottom Projection Style

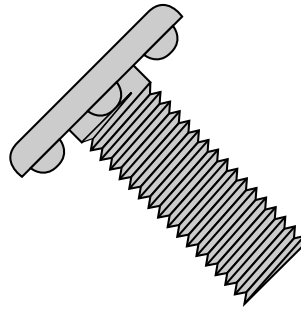


±Length of a weld stud is measured from the welding surface of the head to the end of the shank, excluding the projections.

| STEEL WELD SCREWS WITH BOTTOM PROJECTIONS |       |                  |                           |      |                                   |      |                   |      |                  | Paulin® |
|-------------------------------------------|-------|------------------|---------------------------|------|-----------------------------------|------|-------------------|------|------------------|---------|
| Nominal Size or Basic Screw Diameter      |       | Threads per Inch | D                         |      | H                                 |      | P                 |      | W                |         |
|                                           |       |                  | Head Diameter             |      | Head Height                       |      | Projection Height |      | Projection Width |         |
|                                           |       |                  | Max                       | Min  | Max                               | Min  | Max               | Min  | Max              | Min     |
| 6                                         | .138  | 32               | .323                      | .303 | .052                              | .042 | .022              | .018 | .055             | .045    |
| 8                                         | .164  | 32               | .385                      | .365 | .068                              | .058 | .027              | .023 | .075             | .065    |
| 10                                        | .190  | 24               | .448                      | .428 | .068                              | .058 | .032              | .028 | .085             | .075    |
| 10                                        | .190  | 32               | .448                      | .428 | .068                              | .058 | .032              | .028 | .085             | .075    |
| 1/4                                       | .250  | 20               | .575                      | .550 | .083                              | .073 | .042              | .038 | .105             | .095    |
| 5/16                                      | .3125 | 18               | .755                      | .725 | .099                              | .089 | .047              | .043 | .125             | .115    |
| 3/8                                       | .375  | 16               | .880                      | .850 | .114                              | .104 | .052              | .048 | .135             | .125    |
| 1/2                                       | .500  | 13               | 1.005                     | .975 | .146                              | .136 | .062              | .058 | .156             | .145    |
| Tolerance on Length                       |       |                  | Up to 1 in., Incl.: -.031 |      | Over 1 in. to 2 in., incl.: -.062 |      | Over 2 in.: -.093 |      |                  |         |

|                                |                                                                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>             | A fastener with unified thread pitch and a cylindrical, low profile head with flat parallel surfaces. The underside of the head has three hemispheroidal-shaped weld projections equally spaced on a locating circle concentric with the shank.   |
| <b>Applications/Advantages</b> | Enables a threaded fastener to become a permanent, integral part of an assembly. The bottom projection style can assemble into a prelocated hole and is stronger than the top projection style, utilizing the full head strength of the fastener. |
| <b>Material</b>                | C1008 - 1010 welding quality carbon steel                                                                                                                                                                                                         |
| <b>Tensile Strength</b>        | 60,000 psi., minimum                                                                                                                                                                                                                              |
| <b>Length of Thread</b>        | Studs with nominal lengths of 2 inches or less should have threads extend to within one thread of the top of the weld projections. Studs over 2 inches should have a minimum thread length of 1.75 inches.                                        |
| <b>Finish</b>                  | Weld screws are supplied with a plain, unplated finish to facilitate welding.                                                                                                                                                                     |

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| WELD STUD PART NUMBER COMPARISON |         |                |            |         |                |
|----------------------------------|---------|----------------|------------|---------|----------------|
| Projections Under the Head       |         |                |            |         |                |
| Kanebridge                       | Buckeye | Gripco®        | Kanebridge | Buckeye | Gripco®        |
| 0604WB                           | HW 1104 | MN-0632-S-0250 | 1116WB     | HW 1616 | MN-1032-S-1000 |
| 0606WB                           | HW 1106 | MN-0632-S-0375 | 1406WB     | HW 2106 | MN-1420-S-0375 |
| 0608WB                           | HW 1108 | MN-0632-S-0500 | 1408WB     | HW 2108 | MN-1420-S-0500 |
| 0610WB                           | HW 1110 | MN-0632-S-0625 | 1410WB     | HW 2110 | MN-1420-S-0625 |
| 0612WB                           | HW 1112 | MN-0632-S-0750 | 1412WB     | HW 2112 | MN-1420-S-0750 |
| 0616WB                           | -       | MN-0632-S-1000 | 1414WB     | HW 2114 | -              |
| 0806WB                           | HW 1406 | MN-0832-S-0375 | 1416WB     | HW 2116 | MN-1420-S-1000 |
| 0808WB                           | HW 1408 | MN-0832-S-0500 | 1420WB     | HW 2120 | -              |
| 0810WB                           | HW 1410 | MN-0832-S-0625 | 1424WB     | HW 2124 | -              |
| 0812WB                           | HW 1412 | MN-0832-S-0750 | 1428WB     | HW 2128 | -              |
| 0816WB                           | HW 1416 | MN-0832-S-1000 | 1432WB     | HW 2132 | -              |
| 1006WB                           | HW 1506 | MN-1024-S-0375 | 3110WB     | HW 2810 | -              |
| 1008WB                           | HW 1508 | MN-1024-S-0500 | 3112WB     | HW 2812 | -              |
| 1010WB                           | HW 1510 | MN-1024-S-0625 | 3116WB     | HW 2816 | -              |
| 1012WB                           | HW 1512 | MN-1024-S-0750 | 3120WB     | -       | -              |
| 1016WB                           | -       | MN-1024-S-1000 | 3132WB     | -       | -              |
| 1020WB                           | HW 1520 | MN-1024-S-1250 | 3716WB     | HW 3316 | -              |
| 1106WB                           | HW 1606 | MN-1032-S-0375 | 3720WB     | HW 3320 | -              |
| 1108WB                           | HW 1608 | MN-1032-S-0500 | 3724WB     | HW 3324 | -              |
| 1110WB                           | HW 1610 | MN-1032-S-0625 | 3728WB     | HW 3328 | -              |
| 1112WB                           | HW 1612 | MN-1032-S-0750 | 5020WB     | HW 4420 | -              |