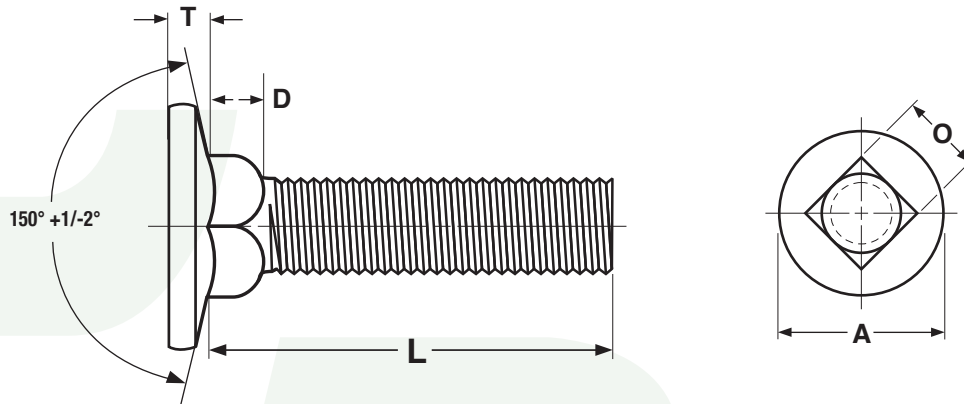


CAP SCREWS & BOLTS

Low Carbon &
Grade 5

CARRIAGE BOLTS, FLAT HEAD



FLAT HEAD CARRIAGE BOLTS, SQUARE NECK

| Bolt Diameter & Thread Pitch | Head Diameter | | Head Height | | Square Width | | Square Depth | |
|------------------------------|---------------|------|---------------|------|--------------|------|--------------|------|
| | A | | T | | O | | D | |
| | Max | Min | Max | Min | Max | Min | Max | Min |
| 1/4-20 | .640 | .590 | .098 | .078 | .260 | .245 | .156 | .125 |
| Tolerance on Length | | | + 0.02, -0.04 | | | | | |

| | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | A flat head bolt with a bearing surface that is countersunk to a 150° angle. Although flat, the head has a measurable side height causing it to protrude above its mating surface when it is completely tightened. Directly below the head is a square neck and a threaded section that has a unified thread pitch. |
| Applications/Advantages | The square neck design keeps the bolt from turning as a nut is tightened. The flat head feature gives a lower profile on the front or top side of the fastening than a round head carriage bolt. Designed specifically, but not exclusively, for the garage door industry. |
| Material | Grade-2: AISI 1006 - 1025 steel Grade-5: AISI 1030 - 1055 steel |
| Core Hardness | Grade-2: Rockwell B80 - B100 Grade-5: Rockwell C25 - C34 |
| Tensile Strength | Grade-2: 74,000 psi. min. Grade-5: 120,000 psi. min. |
| Plating | Flat head carriage bolts are usually supplied with a clear zinc finish. |