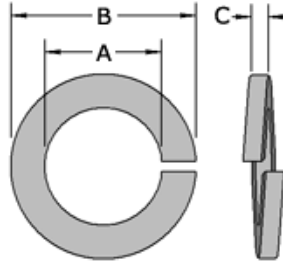


Lock Washer

(Regular Pattern and Hi-Collar)



Regular Pattern

Case Hardened Steel
Grade 8

Hi-Collar Pattern

Case Hardened Steel
Heavy Pattern (not listed)
Grade 8

Plain = WS010---
Plain = WS080---

Plain = WSHC020---
Plain = WSH080---

Zinc = WS010---Z1
Zinc = WS080---Z1

Zinc = WSHC020---Z1
Zinc = WSH080---Z1

Regular Pattern

| Bolt Size | A (min) | B (max) | C |
|-----------|---------|---------|------|
| 2 | .088 | .172 | .020 |
| 3 | .101 | .195 | .025 |
| 4 | .141 | .209 | .025 |
| 5 | .127 | .236 | .031 |
| 6 | .141 | .250 | .031 |
| 8 | .167 | .293 | .040 |
| 10 | .193 | .334 | .047 |
| 12 | .220 | .377 | .056 |
| 1/4 | .254 | .489 | .062 |
| 5/16 | .317 | .586 | .078 |
| 3/8 | .380 | .683 | .094 |
| 7/16 | .443 | .779 | .109 |
| 1/2 | .506 | .873 | .125 |
| 9/16 | .570 | .971 | .141 |
| 5/8 | .635 | 1.079 | .156 |
| 11/16 | .698 | 1.176 | .172 |
| 3/4 | .760 | 1.271 | .188 |
| 13/16 | .824 | 1.367 | .203 |
| 7/8 | .887 | 1.464 | .219 |
| 15/16 | .950 | 1.560 | .234 |
| 1 | 1.017 | 1.661 | .250 |
| 1-1/16 | 1.080 | 1.756 | .266 |
| 1-1/8 | 1.144 | 1.853 | .281 |
| 1-3/16 | 1.208 | 1.950 | .297 |
| 1-1/4 | 1.271 | 2.045 | .312 |
| 1-5/16 | 1.334 | 2.141 | .328 |
| 1-3/8 | 1.398 | 2.239 | .344 |
| 1-7/16 | 1.462 | 2.334 | .359 |
| 1-1/2 | 1.525 | 2.430 | .375 |

Hi-Collar Pattern

| Bolt Size | A (min) | B | C |
|-----------|---------|-------|------|
| 4 | .114 | .173 | .022 |
| 5 | .127 | .202 | .030 |
| 6 | .141 | .216 | .030 |
| 8 | .167 | .267 | .047 |
| 10 | .193 | .294 | .047 |
| 1/4 | .254 | .365 | .078 |
| 5/16 | .317 | .460 | .093 |
| 3/8 | .380 | .553 | .125 |
| 7/16 | .443 | .647 | .140 |
| 1/2 | .506 | .737 | .103 |
| 5/8 | .635 | .923 | .203 |
| 3/4 | .760 | 1.111 | .218 |
| 7/8 | .887 | 1.296 | .234 |
| 1 | 1.017 | 1.483 | .250 |
| 1-1/8 | 1.144 | 1.669 | .313 |
| 1-1/4 | 1.271 | 1.799 | .313 |
| 1-3/8 | 1.398 | 2.041 | .375 |
| 1-1/2 | 1.525 | 2.170 | .375 |
| 1-3/4 | 1.775 | 2.602 | .469 |
| 2 | 2.025 | 2.852 | .469 |
| 2-1/4 | 2.275 | 3.352 | .508 |
| 2-1/2 | 2.525 | 3.602 | .508 |
| 2-3/4 | 2.775 | 4.102 | .633 |
| 3 | 3.025 | 4.352 | .633 |