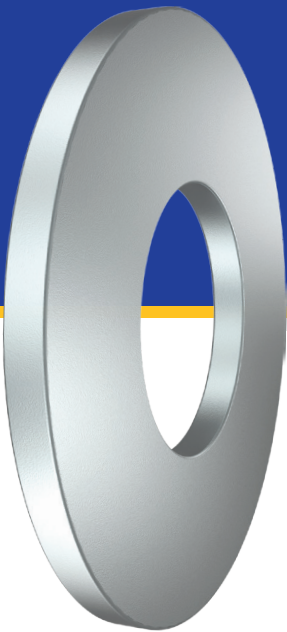


FLAT ROUND WASHER  
IMPERIAL  
STAINLESS STEEL



APPLICATION

Bremick® flat washers can be use used in a variety of applications and are generally used to distribute load force across a larger area or protect the surface of the item being secured.

STAINLESS  
STEEL  
316

PRODUCT ATTRIBUTES

Material Class: Stainless Steel 316

Standard: Complies to Bremick Specification

Chemical Composition: Complies to EN 10088-1:2023

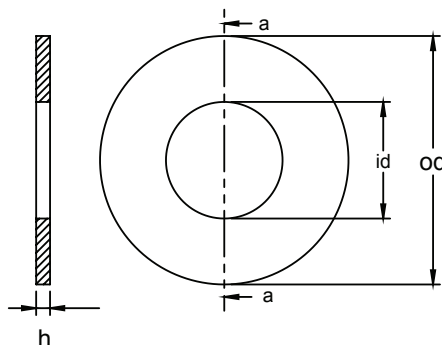
MATERIAL INFORMATION (%)

| STAINLESS STEEL<br>GRADE | C    | Si   | Mn   | P     | S     | Cr        | Mo        | Ni        | N    |
|--------------------------|------|------|------|-------|-------|-----------|-----------|-----------|------|
|                          | MAX  | MAX  | MAX  | MAX   | MAX   | RANGE     | RANGE     | RANGE     | MAX  |
| 316                      | 0.07 | 1.00 | 2.00 | 0.045 | 0.015 | 16.5-18.5 | 2.00-2.50 | 10.0-13.0 | 0.10 |

MATERIAL INFORMATION

| STAINLESS STEEL 316                                                                                                                   |                                                                                                                                             |                      |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| DESCRIPTION                                                                                                                           | OVERVIEW                                                                                                                                    | CORROSION RESISTANCE |
| 316 is a Marine Grade SS – It contains 2-3% Molybdenum which provides highest possible corrosion protection than 304 Stainless steel. | Bremick® 316 Stainless Steel provides the ultimate level of protection and is recommended for external application and marine environments. | Ultimate             |

## DIMENSIONAL DATA (inches)



| DIAMETER<br>NOMINAL | INNER DIAMETER<br>(id) |        | OUTER DIAMETER<br>(od) |        |        | THICKNESS<br>(h) |        |        |
|---------------------|------------------------|--------|------------------------|--------|--------|------------------|--------|--------|
|                     | MIN                    | MAX    | NOMINAL                | MIN    | MAX    | NOM              | MIN    | MAX    |
| 3/16                | 0.1969                 | 0.2047 | 1/2                    | 0.4921 | 0.5118 | 0.0350 (20G)     | 0.0354 | 0.0433 |
| 3/16                | 0.1969                 | 0.2106 | 7/16                   | 0.4291 | 0.4449 | 0.0350 (20G)     | 0.0354 | 0.0433 |
| 3/16                | 0.1969                 | 0.2047 | 3/4                    | 0.7402 | 0.7598 | 0.0495 (18G)     | 0.0354 | 0.0433 |
| 3/16                | 0.1969                 | 0.2047 | 1                      | 0.9921 | 1.0118 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 3/16                | 0.1969                 | 0.2047 | 1-1/4                  | 1.2362 | 1.2559 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 1/4                 | 0.2697                 | 0.2835 | 9/16                   | 0.5551 | 0.5748 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 1/4                 | 0.2697                 | 0.2835 | 5/8                    | 0.6142 | 0.6339 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 1/4                 | 0.2697                 | 0.2835 | 3/4                    | 0.7402 | 0.7598 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 1/4                 | 0.2697                 | 0.2835 | 1                      | 0.9921 | 0.9961 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 1/4                 | 0.2697                 | 0.2835 | 1-1/4                  | 1.2362 | 1.2559 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 1/4                 | 0.2697                 | 0.2835 | 1/2                    | 0.4921 | 0.5118 | 0.0350 (20G)     | 0.0425 | 0.0531 |
| 5/16                | 0.3346                 | 0.3425 | 5/8                    | 0.6142 | 0.6339 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 5/16                | 0.3346                 | 0.3425 | 3/4                    | 0.7402 | 0.7598 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 5/16                | 0.3307                 | 0.3425 | 1                      | 0.9921 | 1.0118 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 5/16                | 0.3425                 | 0.3504 | 1-1/4                  | 1.2362 | 1.2559 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 3/8                 | 0.3819                 | 0.4055 | 3/4                    | 0.7402 | 0.7598 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 3/8                 | 0.3780                 | 0.4055 | 7/8                    | 0.8622 | 0.8819 | 0.0495 (18G)     | 0.0425 | 0.0531 |
| 3/8                 | 0.3780                 | 0.4055 | 1                      | 0.9921 | 1.0118 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 3/8                 | 0.3937                 | 0.4213 | 1-1/4                  | 1.2362 | 1.2559 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 3/8                 | 0.3937                 | 0.4213 | 1-1/2                  | 1.4921 | 1.5118 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 7/16                | 0.4823                 | 0.5000 | 1-1/8                  | 1.1220 | 1.1417 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 1/2                 | 0.5276                 | 0.5394 | 1                      | 0.9921 | 1.0118 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 1/2                 | 0.5453                 | 0.5630 | 1-1/4                  | 1.2402 | 1.2598 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 1/2                 | 0.5453                 | 0.5630 | 2                      | 1.9921 | 2.0118 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 9/16                | 0.6102                 | 0.6496 | 1-1/4                  | 1.3189 | 1.3583 | 0.0785 (14G)     | 0.0709 | 0.0866 |
| 5/8                 | 0.6535                 | 0.6772 | 1-1/4                  | 1.2402 | 1.2598 | 0.0625 (16G)     | 0.0531 | 0.0689 |
| 5/8                 | 0.6713                 | 0.6890 | 1-1/2                  | 1.4921 | 1.5118 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 3/4                 | 0.7953                 | 0.8189 | 1-1/2                  | 1.4921 | 1.5118 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 3/4                 | 0.7933                 | 0.8189 | 1-7/8                  | 1.8701 | 1.8898 | 0.0991 (12G)     | 0.0992 | 0.1213 |
| 7/8                 | 0.8898                 | 0.9094 | 1-5/8                  | 1.6181 | 1.6417 | 0.1250 (10G)     | 0.0992 | 0.1213 |
| 7/8                 | 0.8937                 | 0.9154 | 2                      | 2.0039 | 2.0236 | 0.0991 (12G)     | 0.0965 | 0.1240 |
| 1                   | 1.0217                 | 1.0472 | 1-7/8                  | 1.8701 | 1.8898 | 0.0785 (14G)     | 0.0689 | 0.0886 |
| 1                   | 1.0472                 | 1.0768 | 2-1/2                  | 2.4902 | 2.5197 | 0.1250 (10G)     | 0.1240 | 0.1516 |
| 1-1/8               | 1.1732                 | 1.2028 | 2-1/2                  | 2.4902 | 2.5138 | 0.1250 (10G)     | 0.1240 | 0.1516 |
| 1-1/4               | 1.2953                 | 1.3228 | 2-3/4                  | 2.7421 | 2.7657 | 0.1250 (10G)     | 0.1240 | 0.1516 |
| 1-1/2               | 1.6102                 | 1.6378 | 3-1/4                  | 3.2382 | 3.2618 | 0.1250 (10G)     | 0.1240 | 0.1516 |

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