



Hex Flange Lag Screws Hot Dipped Galvanized for maximum corrosion protection.

Hex Flange Lag Screws are Hot Dipped Galvanized to provide maximum corrosion protection and are suitable for a variety of wood applications. Designed with a built-in washer that distributes the clamping load across a wider area – Hex Flange Lag Screws feature uniform threads and a 60° tapered point for easier wood penetration.

PRODUCT ATTRIBUTES

Hot Dipped Galvanized for maximum corrosion protection
Uniform threads prevent stripping & backing out
60° tapered point for easier wood penetration & installation
Built-in washer distributes clamping load over wider area
Replaces traditional hex lag screw & washer applications
Sizes range from 1/4" to 3/8"

MARKETS FOR HEX FLANGE LAG SCREWS

Electrical Utilities
Carpentry Applications
Department Of Transportation

THIS PRODUCT IS OFTEN CALLED...

Wood Screw
Hex Wood Screw
Hex Washer Head Wood Screw

AVAILABLE VALUE ADDED SERVICES

Bulk, full case & broken quantities
Secondary & rework services available
Custom packaging services
Custom plating



ADDITIONAL HEX FLANGE PRODUCT WE SUPPLY

Timberjack Timber Screws
Hex Flange Screws
Metric & JIS Hex Flange Screws
Metric Stainless Steel Hex Flange Screws
Hex Serrated Flange Screws
Large Flange Hex Serrated Flange Screws
Stainless Steel Hex Serrated Flange Screws
Metric Hex Serrated Flange Screws
Hex Flange Nuts
Metric & JIS Hex Flange Nuts
Metric Stainless Steel Hex Flange Nuts
Hex Serrated Flange Lock Nuts
Large Flange Hex Serrated Flange Lock Nuts
Stainless Steel Hex Serrated Flange Lock Nuts
Metric & JIS Hex Serrated Flange Lock Nuts
All Metal Hex Flange Lock Nuts
Metric All Metal Hex Flange Lock Nuts
Nylon Insert Hex Flange Lock Nuts
Metric Nylon Insert Flange Lock Nuts

BACKED BY THE EARNEST
Service
GUARANTEE

**The right part.
The right quantity.
On-time.
Everytime.**

GRADE 2 HEX FLANGE LAG SCREWS

Hex Flange Lag Screws are manufactured in accordance with the latest revision of the following industry standards:

- ASME B18.2.1** Dimensional Requirements
- SAE J429** Material and Physical Properties
- ASTM F812** Surface Discontinuities
- ASME B18.18** Inspection and Quality Assurance

THREADS

Threads are made with a wide root design to prevent stripping out in wood. Gimlet point ensures easy penetration into wood. See table below for thread dimensions.

PLATING

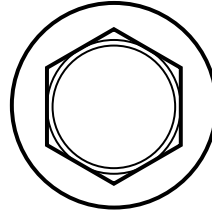
Hot Dip Galvanized per ASTM A153

*The specifications shown on this sheet are not intended to be used in the production of parts. Earnest Machine is not responsible or liable in any manner for any production errors and we certify the information present on this specification sheet is correct to the best of our knowledge.

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MATERIAL AND PHYSICAL PROPERTIES

Grade 2



Chemical Composition:

| CARBON (C) | | PHOSPHORUS (P) | SULFUR (S) |
|------------|------|----------------|------------|
| Max | Min | Max | Max |
| 0.55 | 0.15 | 0.025 | 0.025 |

Hardness

| SAE J429 GRADE 2 |
|------------------|
| HRB 70/100 |

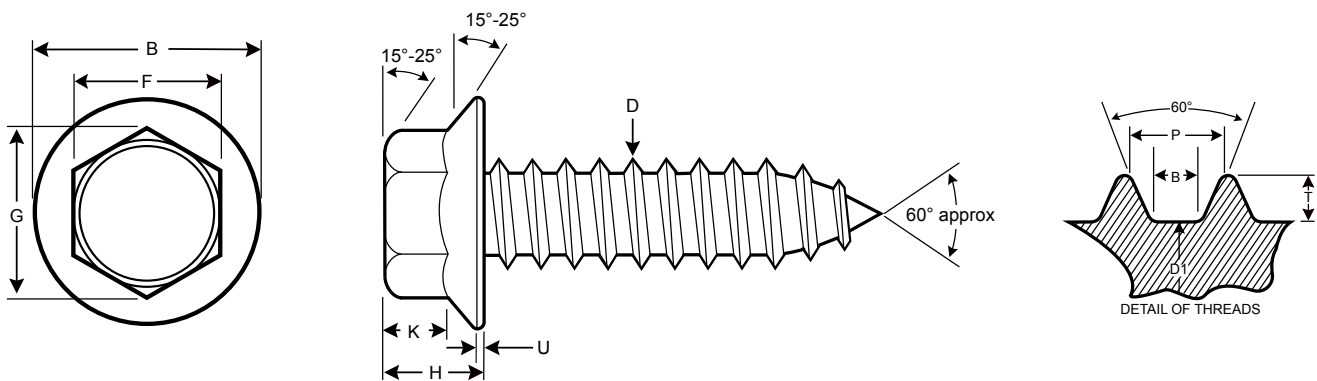
Tensile Strength

| SAE J429 GRADE 2 |
|------------------|
| 74,000 psi min |

Thread Dimensions

| SIZE | THREAD PER INCH | PITCH (P) | WIDTH FLAT (B) | THREAD DEPTH (T) | ROOT DIAMETER (D1) |
|------|-----------------|-----------|----------------|------------------|--------------------|
| 1/4 | 10 | 0.100 | 0.043 | 0.039 | 0.173 |
| 5/16 | 9 | 0.111 | 0.048 | 0.043 | 0.227 |
| 3/8 | 7 | 0.143 | 0.062 | 0.055 | 0.265 |

DIMENSIONS FOR GRADE 2 HEX FLANGE LAG SCREW



| SIZE | WIDTH ACROSS FLATS (F) | | WIDTH ACROSS CORNERS (G) | | FLANGE DIAMETER (B) | HEAD HEIGHT (H) | FLANGE THICKNESS (U) | WRENCH HEIGHT (K) | BODY DIAMETER (D) | |
|------|------------------------|-------|--------------------------|-------|---------------------|-----------------|----------------------|-------------------|-------------------|-------|
| | MAX | MIN | MAX | MIN | MAX | MAX | MIN | MIN | MAX | MIN |
| 1/4 | 0.375 | 0.367 | 0.433 | 0.409 | 0.56 | 0.28 | 0.04 | 0.17 | 0.260 | 0.237 |
| 5/16 | 0.500 | 0.489 | 0.577 | 0.548 | 0.68 | 0.32 | 0.05 | 0.21 | 0.324 | 0.298 |
| 3/8 | 0.562 | 0.551 | 0.650 | 0.618 | 0.81 | 0.39 | 0.06 | 0.25 | 0.388 | 0.360 |

Hex Flange Lag Screws - Inch

Grade 2

| SIZE | GRADE | THREAD | PITCH | FINISH | PART # |
|--------------|-------|---------|--------|--------------------|--------|
| 1/4-10x1 | GR 2 | Full | Coarse | Hot Dip Galvanized | 821000 |
| 1/4-10x1 1/2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821002 |
| 1/4-10x2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821004 |
| 1/4-10x2 1/2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821006 |
| 1/4-10x3 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821008 |

| | | | | | |
|--------------|------|---------|--------|--------------------|--------|
| 5/16-9x1 | GR 2 | Full | Coarse | Hot Dip Galvanized | 821010 |
| 5/16-9x1 1/2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821012 |
| 5/16-9x2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821014 |
| 5/16-9x2 1/2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821016 |

| | | | | | |
|-------------|------|---------|--------|--------------------|--------|
| 3/8-7x1 1/2 | GR 2 | Full | Coarse | Hot Dip Galvanized | 821018 |
| 3/8-7x2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821020 |
| 3/8-7x2 1/2 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821022 |
| 3/8-7x3 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821024 |
| 3/8-7x4 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821026 |
| 3/8-7x5 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821028 |
| 3/8-7x6 | GR 2 | Partial | Coarse | Hot Dip Galvanized | 821030 |