

# PROJECT SUBMITTAL



## Lok-Bolt™ Sleeve Expansion Anchor

Anchoring into Concrete and Masonry Substrates

Suitable for Solid and Hollow Base Materials

Multiple Head Styles for Various Applications

Finished Appearance

Fits Standard Fixture Holes

Available in Carbon Steel and Type 304 Stainless Steel

Finished Hex Head or Flat Head Designs

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### APPROVALS AND LISTINGS

- Southern Building Code Conference International (SBCCI) #9944A
- Florida Building Code Approval – FL2209.3
- Miami-Dade County Notice of Acceptance (NOA) 03-0303.08

Factory Mutual Research Corporation (FM Approvals) – Serial No.26692 J.I. 0J8A1.AH, J.I. 0J9A9.AH

Underwriters Laboratory (UL Listed) – File No. EX1289

Federal GSA Specification – Meets the descriptive requirements of FF-S-325C, Group II, Type 3, Class 3 (superseded)



Hex Head



Acorn Nut



Round Head



Combo Flat Head



Threshold Flat Head



Rod Hanger



Tie-Wire



Extender

# PRODUCT SUBMITTAL / SUBSTITUTION REQUEST

TO:

PROJECT:

SPECIFIED ITEM:

Section

Page

Paragraph

Description

## PRODUCT SUBMITTAL / SUBSTITUTION REQUESTED:

The attached submittal package includes the product description, specifications, drawings, and performance data for use in the evaluation of the request.

## SUBMITTED BY:

Name:

Signature:

Company:

Address:

Date:

Telephone:

Fax:

## FOR USE BY THE ARCHITECT AND/OR ENGINEER

**Approved**       **Approved as Noted**       **Not Approved**

(If not approved, please briefly explain why the product was not accepted.)

By:

Date:

Remarks:

**Lok-Bolt AS® Sleeve Anchor**

**PRODUCT DESCRIPTION**

The Lok-Bolt AS is an all steel pre-assembled single unit sleeve anchor which is designed for use in concrete or masonry base materials. The anchors are available in multiple head styles for multiple applications and a finished appearance. Anchor extender sleeves can be added to create longer lengths.

**GENERAL APPLICATIONS AND USES**

- Door and window frame installations
- Masonry applications
- Electrical / Mechanical applications
- Mounting fixtures on walls
- General purpose anchoring

**FEATURES AND BENEFITS**

- + Variety of head styles, lengths and sizes
- + All steel component design
- + Preassembled anchor for immediate installation
- + Sleeve keeps anchor centered in hole and has 360° contact area for even stress distribution
- + Versatile – can be used for solid and hollow concrete or masonry applications
- + Designed to allow fixture to draw snug against the base material during tightening

**GUIDE SPECIFICATIONS**

CSI Divisions: 03151–Concrete Anchoring, 04081-Masonry Anchorage, 5090-Metal Fastenings. Sleeve anchors shall be Lok-Bolt AS anchors supplied by Powers Fasteners, Inc.

**MATERIAL SPECIFICATIONS**

| Anchor Component | Carbon Steel Version                | Stainless Steel Version  |
|------------------|-------------------------------------|--------------------------|
| Plow-Bolt        | AISI 1010/1018                      | Type 304 Stainless Steel |
| Expansion Sleeve | AISI 1010                           | Type 304 Stainless Steel |
| Extender         | AISI 1010                           | N/A                      |
| Zinc Plating     | ASTM B 633, SC1, Type III (Fe/Zn 5) | N/A                      |

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Hex Head

**HEAD STYLES**

- Hex Head
- Acorn Nut
- Round Head
- Combo Flat Head
- Threshold Flat Head
- Rod Hanger
- Tie-Wire

**ANCHOR MATERIALS**

- Zinc Plated Carbon Steel
- Type 304 Stainless Steel

**ANCHOR SIZE RANGE (TYP.)**

1/4" diameter through 3/4" diameter

**SUITABLE BASE MATERIALS**

- Normal-weight Concrete
- Grout-filled Concrete Masonry (CMU)
- Hollow Concrete Masonry (CMU)
- Brick Masonry

**INSTALLATION SPECIFICATIONS**

**Acorn Nut and Hex Head Lok-Bolt AS**

| Dimension  | Nominal Anchor Size, <i>d</i> |        |         |        |        |        |
|--|-------------------------------|--------|---------|--------|--------|--------|
|  | 1/4"                          | 5/16"  | 3/8"    | 1/2"   | 5/8"   | 3/4"   |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.)  | 1/4                           | 5/16   | 3/8     | 1/2    | 5/8    | 3/4    |
| Fixture Clearance Hole, <i>d<sub>h</sub></i> (in.) | 5/16                          | 3/8    | 7/16    | 9/16   | 11/16  | 15/16  |
| Plow Bolt Size (UNC)                               | 10-24                         | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 |
| Nut Height (in.)                                   | 3/16                          | 7/32   | 17/64   | 21/64  | 7/16   | 35/64  |
| Washer O.D., <i>d<sub>w</sub></i> (in.)            | 1/2                           | 5/8    | 13/16   | 1      | 1 3/8  | 1 3/4  |
| Wrench Size (in.)                                  | 3/8                           | 7/16   | 1/2     | 9/16   | 3/4    | 15/16  |



**Round Head Lok-Bolt AS**

| Dimension  | Nominal Anchor Size, <i>d</i> |        |         |
|--|-------------------------------|--------|---------|
|  | 1/4"                          | 5/16"  | 3/8"    |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.)  | 1/4                           | 5/16   | 3/8     |
| Fixture Clearance Hole, <i>d<sub>h</sub></i> (in.) | 5/16                          | 3/8    | 7/16    |
| Plow Bolt Size (UNC)                               | 10-24                         | 1/4-20 | 5/16-18 |
| Head Height (in.)                                  | 11/64                         | 13/64  | 15/64   |
| Head Width, <i>d<sub>hd</sub></i> (in.)            | 29/64                         | 9/16   | 43/64   |



**Combo Flat Head Lok-Bolt AS**

| Dimension  | Nominal Anchor Size, <i>d</i> |        |         |
|--|-------------------------------|--------|---------|
|  | 1/4"                          | 5/16"  | 3/8"    |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.)  | 1/4                           | 5/16   | 3/8     |
| Fixture Clearance Hole, <i>d<sub>h</sub></i> (in.) | 5/16                          | 3/8    | 7/16    |
| Plow Bolt Size (UNC)                               | 10-24                         | 1/4-20 | 5/16-18 |
| Head Height (in.)                                  | 5/32                          | 3/16   | 15/64   |
| Head Width, <i>d<sub>hd</sub></i> (in.)            | 1/2                           | 5/8    | 3/4     |



**Rod Hanger Lok-Bolt AS**

| Dimension   | Nominal Anchor Size, <i>d</i> |         |        |
|---|-------------------------------|---------|--------|
|   | 1/4"                          | 3/8"    | 1/2"   |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.) | 5/16                          | 3/8     | 1/2    |
| Plow Bolt Size (UNC)                              | 1/4-20                        | 5/16-18 | 3/8-16 |
| Coupling Height (in.)                             | 7/8                           | 1       | 1-1/4  |
| Washer O.D., <i>d<sub>w</sub></i> (in.)           | 5/8                           | 13/16   | 1      |
| Coupling Wrench Size (in.)                        | 7/16                          | 1/2     | 11/16  |



**Threshold Lok-Bolt AS**

| Dimension  | Anchor Size, <i>d</i> |
|--|-----------------------|
|  | 1/4"                  |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.)  | 1/4                   |
| Fixture Clearance Hole, <i>d<sub>h</sub></i> (in.) | 5/16                  |
| Plow Bolt Size (UNC)                               | 10-24                 |
| Head Height (in.)                                  | 5/64                  |
| Head Width, <i>d<sub>hd</sub></i> (in.)            | 23/64                 |

**Tire-Wire Lok-Bolt AS**

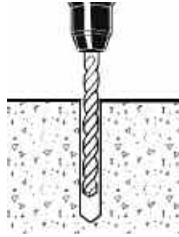
| Dimension  | Anchor Size, <i>d</i> |
|--|-----------------------|
|  | 5/16"                 |
| ANSI Drill Bit Size, <i>d<sub>bit</sub></i> (in.)  | 5/16                  |
| Fixture Clearance Hole, <i>d<sub>h</sub></i> (in.) | 1/4                   |
| Plow Bolt Size (UNC)                               | 1/4-20                |
| Head Height (in.)                                  | 1-9/16                |
| Head Width, <i>d<sub>hd</sub></i> (in.)            | 31/64                 |



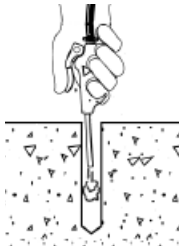
**INSTALLATION INSTRUCTIONS**

**Hex/Acorn/Flat Round Head Versions**

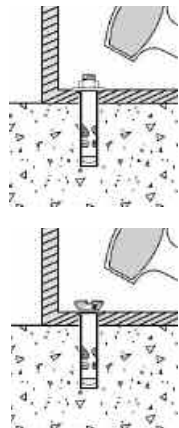
Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15



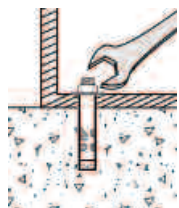
Blow the hole clean of dust and other material. Do not expand the anchor prior to installation



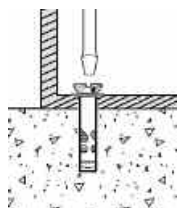
**Hex Head/Acorn Nut**  
Position the washer on the anchor and thread on the nut. Drive the anchor through the fixture into the anchor hole until the nut and washer are firmly seated against the fixture. Be sure the anchor is driven to the required embedment depth.



**Flat Head/Round Head**  
Drive the anchor through the fixture until the anchor is firmly seated. Be sure the anchor is driven to the required embedment depth.



**Hex Head/Acorn Nut**  
Tighten the anchor by turning the nut or head 3 to 5 turns past finger tight or by applying the guide installation torque from the finger tight position.



**Flat Head/Round Head**  
Tighten the anchor by turning the head 3 to 5 turns past finger tight.



**Rod Hanger Version**

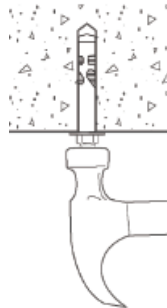
Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15



Blow the hole clean of dust and other material. Do not expand the anchor prior to installation



Drive the anchor into the hole until the anchor is at the required embedment depth.

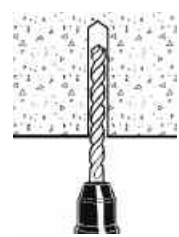


Tighten the coupler nut and washer up to the concrete surface and tighten the anchor by turning the nut 3 to 5 turns past finger tight or by applying the guide installation torque from the finger tight position.



**Tie-Wire Version**

Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15



Blow the hole clean of dust and other material. Do not expand the anchor prior to installation



Drive the anchor into the hole until the head is firmly seated against the base material. Be sure the anchor is driven to the required embedment depth.



Tighten the tie wire nut by turning the head 3 to 5 turns past finger tight or by applying the guide installation torque from the finger tight position.





**PERFORMANCE DATA**

**Ultimate Load Capacities for Carbon and Stainless Steel Lok-Bolt AS Anchors in Normal-Weight Concrete<sup>1,2</sup>**

| Anchor Diameter<br><i>d</i><br>in.<br>(mm) | Minimum Embed.<br>Depth<br><i>h<sub>v</sub></i><br>in.<br>(mm) | Guide<br>Installation Torque<br>ft.-lbs. |           | Minimum Concrete Compressive Strength |                       |
|--|--|--|-----------|---------------------------------------|-----------------------|
|  |  |  |           | 3,500 psi (24.1 MPa)                  |                       |
|  |  |  |           | Tension<br>lbs.<br>(kN)               | Shear<br>lbs.<br>(kN) |
|  |  | Carbon                                   | Stainless |                                       |                       |
| 1/4<br>(6.4)                               | 1/2<br>(12.7)  | 2  | -         | 240<br>(1.0)                          | 1,000<br>(4.4)        |
|  | 1<br>(25.4)  | 6  | 4         | 980<br>(4.3)                          | 1,120<br>(5.0)        |
| 5/16<br>(7.9)                              | 1<br>(25.4)  | 12                                       | -         | 1,300<br>(5.6)                        | 2,360<br>(10.5)       |
| 3/8<br>(9.5)                               | 1-1/4<br>(31.7)  | 18                                       | 18        | 2,040<br>(9.0)                        | 4,110<br>(8.3)        |
| 1/2<br>(12.7)                              | 1-1/2<br>(38.1)  | 26                                       | 26        | 2,420<br>(10.7)                       | 4,860<br>(21.6)       |
| 5/8<br>(15.9)                              | 2<br>(50.8)  | 50                                       | 40        | 4,750<br>(21.1)                       | 4,860<br>(21.6)       |
| 3/4<br>(19.1)                              | 2-1/4<br>(57.2)  | 90                                       | 60        | 5,020<br>(22.3)                       | 11,040<br>(49.0)      |

1. The values listed above are ultimate load capacities which must be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.

2. Tabulated load values are for anchors installed at a minimum spacing distance between anchors and an edge distance of 12 times the anchor diameter.

**Allowable Load Capacities for Carbon and Stainless Steel Lok-Bolt AS Anchors in Normal-Weight Concrete<sup>1,2</sup>**

| Anchor Diameter<br><i>d</i><br>in.<br>(mm) | Minimum Embed.<br>Depth<br><i>h<sub>v</sub></i><br>in.<br>(mm) | Guide<br>Installation Torque<br>ft.-lbs. |           | Minimum Concrete Compressive Strength |                       |
|--|--|--|-----------|---------------------------------------|-----------------------|
|  |  |  |           | 3,500 psi (24.1 MPa)                  |                       |
|  |  |  |           | Tension<br>lbs.<br>(kN)               | Shear<br>lbs.<br>(kN) |
|  |  | Carbon                                   | Stainless |                                       |                       |
| 1/4<br>(6.4)                               | 1/2<br>(12.7)  | 2  | -         | 60<br>(0.27)                          | 250<br>(1.1)          |
|  | 1<br>(25.4)  | 6  | 4         | 245<br>(1.1)                          | 280<br>(1.2)          |
| 5/16<br>(7.9)                              | 1<br>(25.4)  | 12                                       | -         | 325<br>(1.4)                          | 590<br>(2.6)          |
| 3/8<br>(9.5)                               | 1-1/4<br>(31.7)  | 18                                       | 18        | 510<br>(2.2)                          | 1,028<br>(4.5)        |
| 1/2<br>(12.7)                              | 1-1/2<br>(38.1)  | 26                                       | 36        | 605<br>(2.7)                          | 1,215<br>(5.4)        |
| 5/8<br>(15.9)                              | 2<br>(50.8)  | 50                                       | 40        | 1,185<br>(5.3)                        | 1,215<br>(5.4)        |
| 3/4<br>(19.1)                              | 2-1/4<br>(57.2)  | 90                                       | 60        | 1,255<br>(5.6)                        | 2,760<br>(12.2)       |

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.

2. Tabulated load values are for anchors installed at a minimum spacing distance between anchors and an edge distance of 12 times the anchor diameter.

**PERFORMANCE DATA**

**Ultimate and Allowable Load Capacities for Carbon and Stainless Steel Lok-Bolt AS Anchors in Hollow or Solid Concrete Masonry<sup>1,2,3,4</sup>**



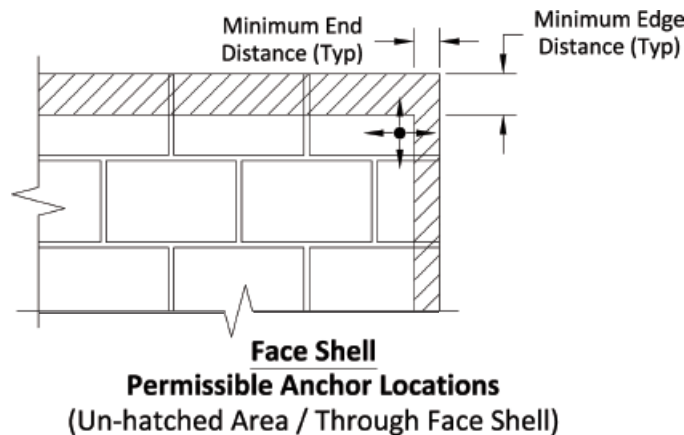
| Anchor Diameter<br><i>d</i><br>in.<br>(mm) | Minimum Embed. Depth<br><i>h<sub>v</sub></i><br>in.<br>(mm) | Guide Installation Torque<br>ft.-lbs. | Minimum Edge Dist.<br>in.<br>(mm) | Minimum End Dist.<br>in.<br>(mm) | <i>f'm</i> ≥ 1,500 psi (10.4 MPa) |                 |                   |                 |
|--|---|---------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------|-------------------|-----------------|
|  |   |                                       |                                   |                                  | Ultimate                          |                 | Allowable         |                 |
|  |   |                                       |                                   |                                  | Tension lbs. (kN)                 | Shear lbs. (kN) | Tension lbs. (kN) | Shear lbs. (kN) |
| 1/4<br>(6.4)                               | 1<br>(25.4)   | 4                                     | 3-3/4<br>(95.3)                   | 4<br>(101.3)                     | 800<br>(3.6)                      | 1,140<br>(5.1)  | 160<br>(3.6)      | 225<br>(1.0)    |
| 5/16<br>(7.9)                              | 1<br>(25.4)   | 8                                     |                                   |                                  | 905<br>(4.0)                      | 1,570<br>(7.0)  | 180<br>(0.80)     | 310<br>(1.4)    |
| 3/8<br>(9.5)                               | 1-1/4<br>(31.7)   | 15                                    |                                   |                                  | 1,100<br>(4.8)                    | 1,570<br>(7.0)  | 220<br>(0.97)     | 310<br>(1.4)    |
| 1/2<br>(12.7)                              | 1-1/2<br>(38.1)   | 18                                    |                                   |                                  | 1,525<br>(6.7)                    | 1,570<br>(7.0)  | 305<br>(1.3)      | 1,570<br>(7.0)  |

1. Tabulated load values are for anchors installed in minimum 6-inch wide, Grade N, Type II, normal-weight concrete masonry units. Mortar must be minimum Type N,S or M. Masonry prism compressive strength must be 1,500 psi minimum at time of installation.
2. Allowable load capacities listed are calculated using a safety factor of 5.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.
3. A suitable anchor length must be selected which includes consideration of a fixture to engage the base material at the minimum embedment depth when anchoring into hollow concrete masonry.
4. The consistency of hollow concrete block masonry base materials can vary greatly. Consideration of job site testing should be given to verify conformance of base materials and anchor performance in actual conditions.

**Ultimate and Allowable Load Capacities for Carbon or Stainless Steel Lok-Bolt AS Anchors in Solid Clay Brick Masonry<sup>1,2</sup>**

| Anchor Diameter<br><i>d</i><br>in.<br>(mm) | Minimum Embed. Depth<br><i>h<sub>v</sub></i><br>in.<br>(mm) | Guide Installation Torque<br>ft.-lbs. | Minimum Edge Dist.<br>in.<br>(mm) | Minimum End Dist.<br>in.<br>(mm) | <i>f'm</i> ≥ 1,500 psi (10.4 MPa) |                 |                   |                 |
|--|---|---------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------|-------------------|-----------------|
|  |   |                                       |                                   |                                  | Ultimate                          |                 | Allowable         |                 |
|  |   |                                       |                                   |                                  | Tension lbs. (kN)                 | Shear lbs. (kN) | Tension lbs. (kN) | Shear lbs. (kN) |
| 1/4<br>(6.4)                               | 1<br>(25.4)   | 4                                     | 4<br>(101.3)                      | 1-1/2<br>(38.1)                  | 800<br>(3.6)                      | 950<br>(4.2)    | 160<br>(0.7)      | 190<br>(0.8)    |
| 3/8<br>(9.5)                               | 1-1/4<br>(31.7)   | 15                                    | 8<br>(203.2)                      | 8<br>(203.2)                     | 1,100<br>(4.9)                    | 3,000<br>(13.3) | 220<br>(0.9)      | 600<br>(2.6)    |

1. Tabulated load values are for anchors installed in Grade SW, multiple wythe solid clay brick masonry conforming to ASTM C 62.
2. Allowable load capacities listed are calculated using a safety factor of 5.0 or greater. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety.



**ORDERING INFORMATION**

**Hex Nut Lok-Bolt AS**

| Catalog Number |                 | Size           | Drill Dia. | Std. Box | Std.Ctn. |
|----------------|-----------------|----------------|------------|----------|----------|
| Carbon Steel   | Stainless Steel |                |            |          |          |
| 5005S          | -               | 5/16" x 1-1/2" | 5/16"      | 100      | 1000     |
| 5010S          | -               | 5/16" x 2-3/8" | 5/16"      | 100      | 500      |
| 5015S          | 6152S           | 3/8" x 1-7/8"  | 3/8"       | 50       | 500      |
| 5020S          | 6153S           | 3/8" x 3"      | 3/8"       | 50       | 500      |
| 5022S          | -               | 3/8" x 4"      | 3/8"       | 50       | 250      |
| 5025S          | 6156S           | 1/2" x 2-1/2"  | 1/2"       | 25       | 250      |
| 5030S          | 6157S           | 1/2" x 3"      | 1/2"       | 25       | 250      |
| 5034S          | 6160S           | 1/2" x 3-3/4"  | 1/2"       | 25       | 125      |
| 5033S          | -               | 1/2" x 5-1/4"  | 1/2"       | 25       | 125      |
| 5032S          | -               | 1/2" x 6"      | 1/2"       | 10       | 100      |
| 5035S          | -               | 5/8" x 2-1/2"  | 5/8"       | 25       | 125      |
| 5038S          | -               | 5/8" x 3"      | 5/8"       | 25       | 125      |
| 5040S          | 6164S           | 5/8" x 4-1/4"  | 5/8"       | 10       | 100      |
| 5045S          | -               | 5/8" x 5-3/4"  | 5/8"       | 10       | 100      |
| 5050S          | -               | 3/4" x 2-3/4"  | 3/4"       | 10       | 100      |
| 5055S          | -               | 3/4" x 4-1/4"  | 3/4"       | 10       | 40       |
| 5060S          | -               | 3/4" x 6-1/4"  | 3/4"       | 10       | 30       |
| 5065S          | -               | 3/4" x 8-1/4"  | 3/4"       | 10       | 30       |



**Acorn Nut Lok-Bolt AS**

| Catalog Number |                 | Size          | Drill Dia. | Std. Box | Std.Ctn. |
|----------------|-----------------|---------------|------------|----------|----------|
| Carbon Steel   | Stainless Steel |               |            |          |          |
| 5125S          | -               | 1/4" x 5/8"   | 1/4"       | 100      | 1000     |
| 5150S          | 6150S           | 1/4" x 1-3/8" | 1/4"       | 100      | 1000     |
| 5175S          | -               | 1/4" x 2-1/4" | 1/4"       | 100      | 1000     |



**Round Head Lok-Bolt AS, Slotted**

| Catalog Number |                 | Size           | Drill Dia. | Std. Box | Std.Ctn. |
|----------------|-----------------|----------------|------------|----------|----------|
| Carbon Steel   | Stainless Steel |                |            |          |          |
| 5205S          | -               | 1/4" x 1-3/8"  | 1/4"       | 100      | 1000     |
| 5210S          | 6180S           | 1/4" x 2-1/4"  | 1/4"       | 100      | 1000     |
| 5215S          | -               | 1/4" x 3"      | 1/4"       | 100      | 1000     |
| 5220S          | -               | 1/4" x 3-3/4"  | 1/4"       | 100      | 1000     |
| 5225S          | -               | 5/16" x 2-3/8" | 5/16"      | 100      | 1000     |
| 5230S          | -               | 5/16" x 3-3/8" | 5/16"      | 100      | 500      |
| 5235S          | -               | 3/8" x 2-3/4"  | 3/8"       | 50       | 500      |
| 5240S          | -               | 3/8" x 3-3/4"  | 3/8"       | 50       | 250      |





**ORDERING INFORMATION**

**Combo Flat Head Lok-Bolt AS**

| Catalog Number |                 | Size           | Drill Dia. | Std. Box | Std. Ctn. |
|----------------|-----------------|----------------|------------|----------|-----------|
| Carbon Steel   | Stainless Steel |                |            |          |           |
| 5305S          | -               | 1/4" x 1-1/2"  | 1/4"       | 100      | 1000      |
| 5310S          | 6170S           | 1/4" x 2-1/4"  | 1/4"       | 100      | 1000      |
| 5315S          | 6172S           | 1/4" x 3"      | 1/4"       | 100      | 1000      |
| 5320S          | -               | 1/4" x 4"      | 1/4"       | 100      | 500       |
| 5325S          | -               | 1/4" x 5-1/4"  | 1/4"       | 100      | 500       |
| 5330S          | -               | 5/16" x 2-1/2" | 5/16"      | 100      | 1000      |
| 5340S          | -               | 3/8" x 2-3/4"  | 3/8"       | 50       | 500       |
| 5345S          | 6174S           | 3/8" x 4"      | 3/8"       | 50       | 250       |
| 5350S          | 6175S           | 3/8" x 5"      | 3/8"       | 50       | 250       |
| 5360S          | 6176S           | 3/8" x 6"      | 3/8"       | 50       | 250       |



**Threshold Flat Head Lok-Bolt AS**

| Cat # | Size      | Drill Dia | Std. Box | Std. Ctn |
|-------|-----------|-----------|----------|----------|
| 5500S | 1/4" x 2" | 1/4"      | 100      | 1000     |



**Rod Hanger Lok-Bolt AS**

| Cat # | Size          | Drill Dia | Std. Box | Std. Ctn |
|-------|---------------|-----------|----------|----------|
| 5810S | 1/4" x 1-1/2" | 1/4"      | 50       | 250      |
| 5815S | 3/8" x 1-7/8" | 3/8"      | 50       | 250      |
| 5825S | 1/2" x 2-1/4" | 1/2"      | 25       | 125      |



**Tie-Wire Lok-Bolt AS**

| Cat # | Size           | Drill Dia | Std. Box | Std. Ctn |
|-------|----------------|-----------|----------|----------|
| 5700S | 5/16" x 1-1/2" | 5/16"     | 100      | 1000     |



**Lok-Bolt AS Extenders**

| Cat # | Size          | Drill Dia | Std. Box | Std. Ctn |
|-------|---------------|-----------|----------|----------|
| 5684S | 3/8" x 1-1/4" | 3/8"      | 50       | 500      |

