

GENERAL INFORMATION

FAB-LOK®

Panel Rivets

PRODUCT DESCRIPTION

Vibration, either from inside or outside a building, can make ordinary fasteners loosen and back out. Fab-Lok fasteners combine a screw and a slotted aluminum sleeve to provide resistance to loosening in high-stress and high-vibration environments.

GENERAL APPLICATIONS AND USES

- Excellent for use with insulated metal panels

FEATURES AND BENEFITS

- + Hex washer head machine screw assembled to a slotted aluminum sleeve and EPDM sealing washer
- + After tightening, clamping tines remain in place even if screw is removed (To achieve the published performance data, the screw must remain engaged in the fastener)
- + Greater joint integrity with clamping force
- + Can be used in blind applications

GUIDE SPECIFICATIONS

05 05 23 - Metal Fastenings, 09 22 16.23 - Fasteners. Fasteners shall be Fab-Lok as supplied by DEWALT, Towson, MD. Fasteners shall be installed in accordance with published instructions and the Authority Having Jurisdiction.

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MATERIALS AND FINISH

- Aluminum Sleeve
- Carbon steel screw with zinc plating
- 300 series stainless steel screw with Stalgard GB coating

DRIVE SYSTEM

- 5/16" Hex
- Fab-Lok Setting Tool

MATERIAL SPECIFICATIONS

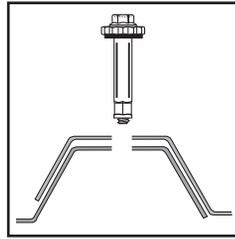
| Fastener Component | | Specification |
|----------------------------|-------------------------|-----------------------------------|
| Fastener sleeve and collar | | Aluminum alloy |
| Screw | Carbon Steel Version | Case hardened carbon steel |
| | Stainless Steel Version | 300 series (18-8) stainless steel |
| Coating/Plating | Carbon Steel Version | Zinc Plating |
| | Stainless Steel Version | Stalgard GB |

INSTALLATION PROCEDURES

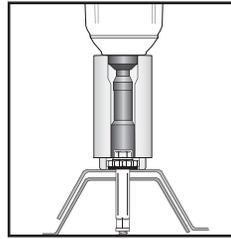


Slide the Fab-Lok setting tool over the nose of a DEWALT versa-clutch screw gun and tighten the set screw with the included hex key. The torque setting of the tool should be adjusted to ensure a proper installation without overdriving.

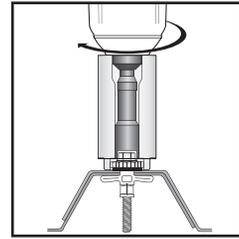
Note: The approximate torque to properly set Fab-Lok fasteners is 40 in.-lbs.



Insert Fab-Lok into a 5/16" to 11/32" diameter hole

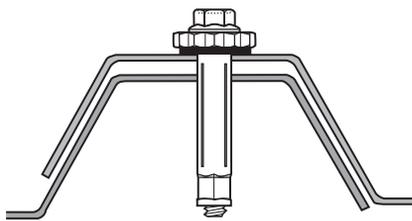


Secure the head of the Fab-Lok fastener with a Fab-Lok setting tool on a dewalt versa-clutch screw gun or using 5/16" nut driver in combination with a 5/8" box wrench or vice grip type tool to hold the collar of the aluminum sleeve of the fastener.

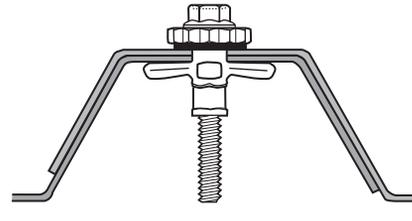


Use the Dewart screwgun or other drive tool to expand the Fab-Lok fastener until the clamping tines are tight against the backside of the material being fastened. The Fab-Lok fastener is fully seated when the tool begins to ratchet and the fastener stops turning. Installation should be slow and controlled, with a maximum speed of 1000 rpm.

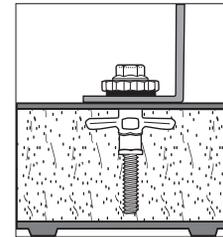
Note: The approximate torque to properly set Fab-Lok fasteners is 40 in.-lbs.



Before Installation



After Installation



Can be used in blind applications, such as attaching to insulated metal panels.

PERFORMANCE DATA

Pull-Out Capacity (lbs)^{1,2}

| Cat. No. | Recommend Grip Range | Steel Thickness | Ultimate Tension Load (lbs.) | Allowable Tension Load (lbs.) |
|------------------------|----------------------|-----------------|------------------------------|-------------------------------|
| Single Sheet | | | | |
| DFSEZJ100 DFSEZJ210 | 0.060" to 0.250" | 14 ga. | 1,110 | 365 |
| | | 20 ga. | 600 | 200 |
| | | 26 ga. | 600 | 200 |
| DFSEZJ120 DFSEZJ230 | 0.250" to 0.500" | 14 ga. | 1,000 | 330 |
| | | 20 ga. | 800 | 265 |
| | | 26 ga. | 600 | 200 |
| DFSEZJ140 DFSEZJ250 | 0.500" to 0.750" | 14 ga. | 1,100 | 365 |
| | | 20 ga. | 800 | 265 |
| | | 26 ga. | 400 | 130 |
| Double Sheet | | | | |
| DFSEZJ120 | 0.250" to 0.500" | 20 ga. | 950 | 330 |
| DFSEZJ140 | 0.500" to 0.750" | 20 ga. | 920 | 330 |

1. Ultimate loads are based on laboratory tests.
2. Allowable load capacities are calculated using an applied safety factor of 3.0.

Ultimate Shear Strength (lbs)^{1,2}

| Screw Material | |
|----------------|-----------|
| Carbon | Stainless |
| 2,160 | 1,950 |

1. Ultimate loads are based on laboratory tests.
2. All carbon and stainless steel screws are #10-24.

ORDERING INFORMATION

Fab-Lok Fasteners

| Cat. No. | Grip Range ¹ (in.) | Maximum Penetrating Length ² | Head Height ³ (in.) | Head Diameter ⁴ (in.) | Maximum Width after Installation ⁵ (in.) | Carton Qty. |
|--|----------------------------------|---|-----------------------------------|-------------------------------------|--|-------------|
| Fab-Lok with Carbon Steel Screw | | | | | | |
| DFSEZJ100 | .060 to .250 | 1.300 | 0.385 | 0.710 | 1.125 | 1,000 |
| DFSEZJ120 | .250 to .500 | 1.600 | 0.385 | 0.710 | 1.250 | 1,000 |
| DFSEZJ140 | .500 to .750 | 1.800 | 0.385 | 0.710 | 1.250 | 1,000 |
| Fab-Lok with 300 Series Stainless Steel Screw | | | | | | |
| DFSEZJ210 | .060 to .250 | 1.300 | 0.385 | 0.710 | 1.125 | 1,000 |
| DFSEZJ230 | .250 to .500 | 1.600 | 0.385 | 0.710 | 1.250 | 1,000 |
| DFSEZJ250 | .500 to .750 | 1.800 | 0.385 | 0.710 | 1.250 | 1,000 |

- Grip Range is the material thickness necessary to achieve an effective fastening. This thickness includes any fixtures and base material.
- Maximum Penetrating Length is measured from underneath the aluminum collar to the end of the screw. Actual penetrating Length varies on the connection and can be calculated by subtracting the overall thickness of the fastened material(s) from the Maximum penetrating length.
- Head height is measured from the bottom of the sealing washer to the top of the screw head.
- Head diameter is the diameter of the collar of the aluminum sleeve.
- Maximum width after installation is the width of the expansion tines at the minimum grip range thickness. This width decreases as the attachment thickness increases. The width of the clamping tines are approximately 0.950" at the upper end of the grip range for each respective fastener.

Setting Tool for Fab-Lok Fasteners¹

| Cat. No. | Description | Std. Pack |
|-----------|----------------------------|-----------|
| DFSEZJ900 | Holding Sleeve with Socket | 1 |

The nominal outside diameter of the Fab-Lok setting tool is 1.50". This is the minimum clearance required when installing Fab-Lok fasteners with this setting tool.

Screwguns

| Cat. No. | Description |
|----------|---|
| DW268 | 2,500 RPM VSR VERSA-CLUTCH™ Screwgun |
| DW267 | 2,000 RPM VSR VERSA-CLUTCH™ Screwgun |
| DW269 | 1,000 RPM VSR VERSA-CLUTCH™ Screwgun |
| DCF622M2 | 20V MAX* XR® VERSA-CLUTCH™ Adjustable Torque Screwgun Kit |

For 20V MAX Maximum initial battery voltage measured without a workload is 20 volts. Nominal voltage is 18.

