GENERAL INFORMATION

FAB-LOK®

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 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 Elco Construction Products, Towson, MD. Fasteners shall be installed in accordance with published instructions and the Authority Having Jurisdiction.

SECTION CONTENTS

MATERIALS AND FINISH

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

DRIVE SYSTEM

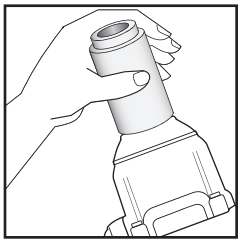
- 5/16" Hex
- Fab-Lok Setting Tool

Identification

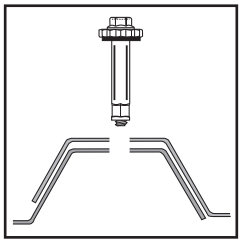
Carbon Steel Screw Elco Flag

Stainless Steel Screw "F" Above 2

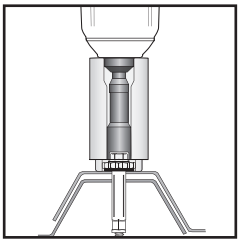
INSTALLATION PROCEDURES



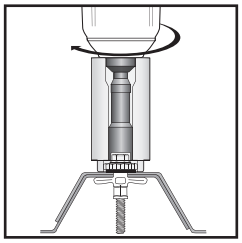
Slide the Fab-Lok setting tool over the nose of a DEWALT versa-clutch screw gun and tighten the set screw with the included hex key. The torque setting of the tool should be adjusted to ensure a proper installation without overdriving.



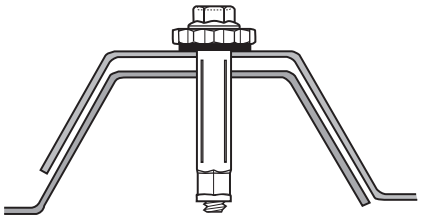
Insert Fab-Lok into a 5/16" to 11/32" diameter hole



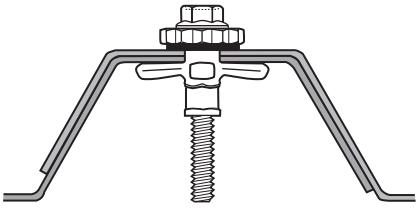
Secure the head of the Fab-Lok fastener with a Fab-Lok setting tool on a dewalt versa-clutch screw gun or using 5/16" nut driver in combination with a 5/8" box wrench or vice grip type tool to hold the collar of the aluminum sleeve of the fastener.



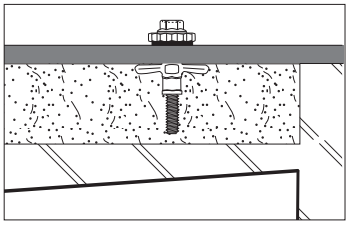
Use the Dewalt screwgun or other drive tool to expand the Fab-Lok fastener until the clamping tines are tight against the backside of the material being fastened. The Fab-Lok fastener is fully seated when the tool begins to ratchet and the fastener stops turning. Installation should be slow and controlled,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



Before Installation



After Installation



Can be used in blind applications

PERFORMANCE DATA

Pull-Out (lbs)[1,2]

Cat. No.	Recommend Grip Range	Steel Thickness	Ultimate Tension Load (lbs.)	Allowable Tension Load (lbs.)
Single Sheet				
EZJ100 EZJ210	0.062" to 0.250"	14 ga.	1,110	365
		20 ga.	600	200
		26 ga.	600	200
EZJ120 EZJ230	0.250" to 0.500"	14 ga.	1,000	330
		20 ga.	800	265
		26 ga.	600	200
EZJ140 EZJ250	0.500" to 0.750"	14 ga.	1,100	365
		20 ga.	800	265
		26 ga.	400	130
Double Sheet				
EZJ120	0.250" to 0.500"	20 ga.	950	330
EZJ140	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 (lbs)[1,2]

Screw Material	
Carbon	**Stainless**
2,160	1,950

1. Ultimate loads are based on laboratory tests.
2. 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						
EZJ100	.062 to .250	1.300	0.385	0.710	1.125	1,000
EZJ120	.250 to .500	1.600	0.385	0.710	1.250	1,000
EZJ140	.500 to .750	1.800	0.385	0.710	1.250	1,000
Fab-Lok with 300 Series Stainless Steel Screw						
EZJ210	.062 to .250	1.300	0.385	0.710	1.125	1,000
EZJ230	.250 to .500	1.600	0.385	0.710	1.250	1,000
EZJ250	.500 to .750	1.800	0.385	0.710	1.250	1,000

1. Grip Range is the material thickness necessary to achieve an effective fastening. This thickness includes any fixtures and base material.
2. 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.
3. Head height is measured from the bottom of the sealing washer to the top of the screw head.
4. Head diameter is the diameter of the collar of the aluminum sleeve.
5. 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 Fasteners[1]

Cat. No.	Description	Std. Pack
EZJ900	Holding Sleeve with Socket	1

The 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.