

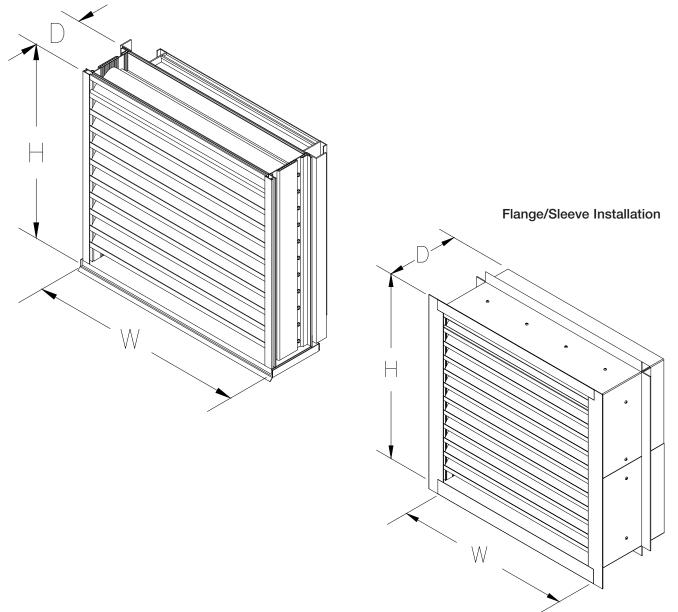
Building Value in Air.

#### **Document 487343** EHH-601DE Channel and Flange/Sleeve Installation with VCD-40 Damper

# Installation, Operation and Maintenance Manual

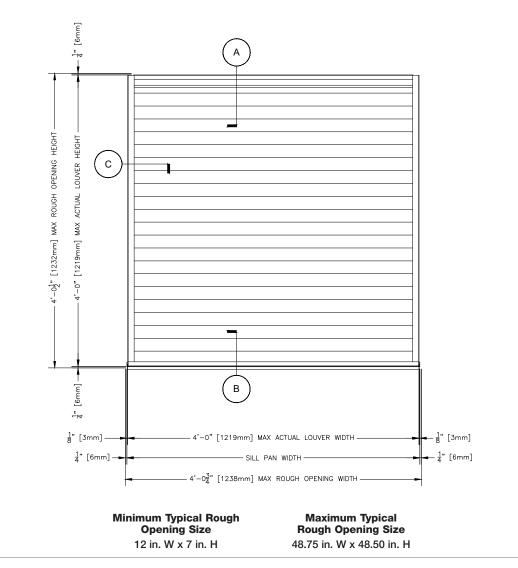
Please read and save these instructions for future reference. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with these instructions will result in voiding of the product warranty and may result in personal injury and/or property damage.

Maximum Wind-load: +/-150 PSF



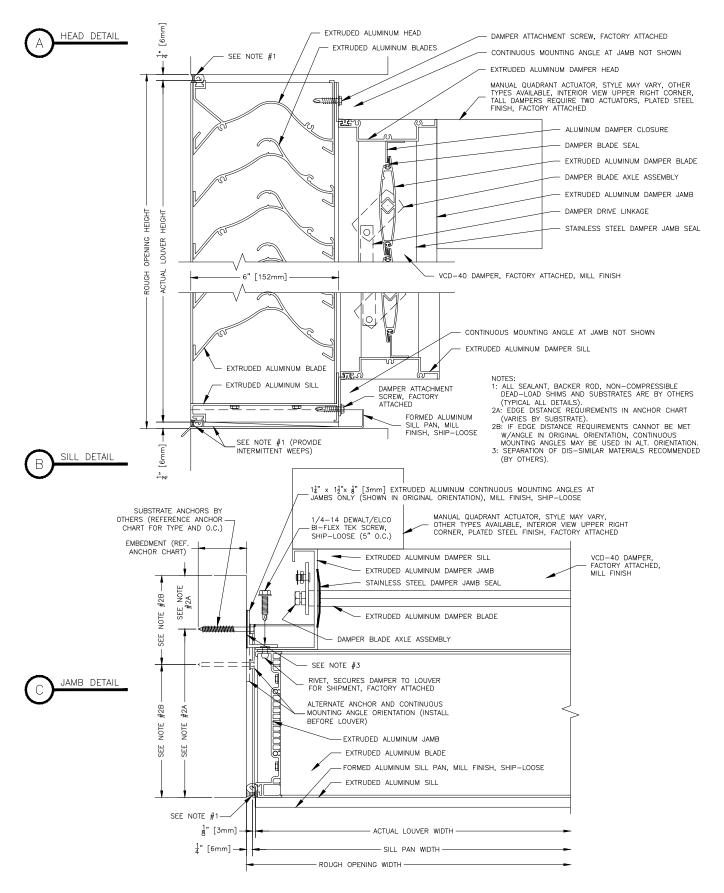
#### **Maximum Size and Installation Information**

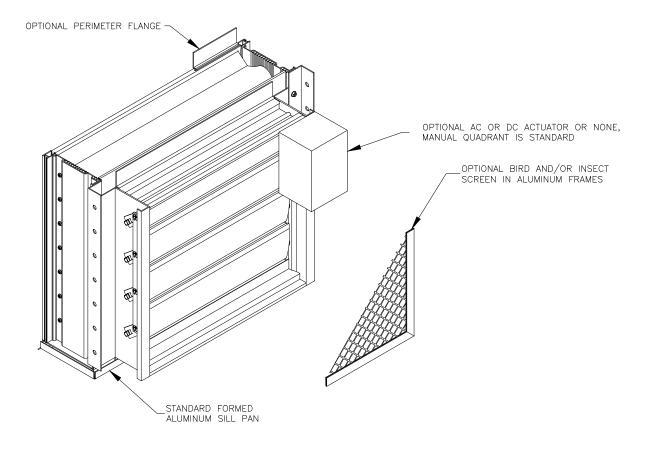
Model EHH-601DE is a Miami-Dade Approved and Florida Product Approved louver and must be installed in accordance with the installation instructions shown herein. Model EHH-601DE is qualified for installation within concrete/masonry, steel stud, structural steel or wood framed building conditions. Model EHH-601DE is structurally calculated to withstand positive and negative wind-loads up to +/-150 PSF. The maximum typical rough opening height is limited to 48.50 in. and the typical rough opening width is limited to 48.75 in.



## **Building Condition/Substrate Limitations**

- All steel substrate should be min. 16 Ga. FY= 33 KSI
- All concrete substrate shall be min. 2000 PSI
- All concrete masonry shall be ASTM C90, Type II, grout-filled
- All wood substrate shall be G= 0.42 density or better
- All aluminum substrate shall be min 0.125 in. thick FY=16 KSI



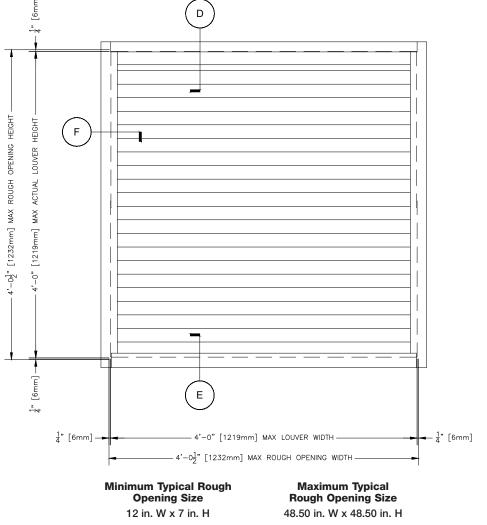


	SUBSTRATE		SUBSTRATE FASTENER									
TYPE	THICKNESS MIN	MATERIAL MIN	TYPE (ALL FASTENERS ARE HEX HEAD STYLE)	MAT'L	DIA.	EDGE MIN	EMBED. MIN	SPACING MAX *	SPACING MIN *	HEAD DIA. MIN	ANGLE HOLE ITEM 5, MAX	SUBSTRATE HOLE, MAX
VOOD	3	G DF 0.42	LAG SCREW, 3 INCH MIN LENGTH	22 00E	1/4 3/8	1 1/2	23/32	5 3/4 6 1/4	3	1/2 5/8	5/16 7/16	SEE FASTENER MANUFACTURER INSTRUCTIONS
STEEL	16 GA (0.056) 14 GA	- Fy 33 KSI Fu 45 KSI	1/4-20 BOLT W/ NUT	300 22	5/0	11/2	0.056	8	1	1/2 HEAD 9/16 NUT	5/16	5/16
			1/4-14 DEWALT/ELCO BI-FLEX SCREW, 300 SS HEAD & SHANK W/ COATED STEEL TIP	MULTI	1/4	5/8	0.070	5 5/8		1/2		SEE FASTENER MANUFACTURER INSTRUCTIONS
	(0.070) 12 GA (0.099)						0.099	8				
ALUMINUM	1/8	6063-T5	1/4-20 BOLT W/ NUT	300 SS				8	8 7	1/2 HEAD 9/16 NUT	5/16	1/4
			1/4-14 DEWALT/ELCO BI-FLEX SCREW, 300 SS HEAD & SHANK W/ CDATED STEEL TIP	MULTI	1/4	1/2	1/8	7		1/2		SEE FASTENER MANUFACTURER INSTRUCTIONS
CONCRETE	VARIES VITH SIZE DF FASTENER USED, SEE FASTENER MANUFACTURER INSTRUCTIONS	5 K2I	BUILDEX TAPCON, STAINLESS	410 SS	1/4	1 1/2 2 1/4 2 1/2 3	1 1/2	5 1/4 6 6 3/8 6 3/4	-	AS MANUFACTURED	1/4	
		3 K2I				1 1/2 2 3	1 1/4	4 1/4 5 6	2			SEE FASTENER MANUFACTURER INSTRUCTIONS
		2.3 KSI	DEWALT/ELCD AGGRE-GATOR	300 22	1/4	1 1/2 3 1 1/2	1 3/4	6 1/4 7 1/2 6 1/2	3		1/4	
		2.9 KSI	DEWALT/ELCD ULTRACON SS4	410 SS	1/4	1	1 3/4	6 7/8 4 3/8 8	3		1/4	
		3.4 KSI	DEWALT/ELCD CRETE-FLEX SS4, SMALL HEAD DEWALT/ELCD CRETE-FLEX SS4, FLANGED HEAD	410 SS	1/4	1	1 3/4	6 3/4 8	6		1/4	
		2.5 KSI	DEWALT/POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS -	1/4	1 1/2 2 2 3/4	1 7/8	4 5/8 6 1/8 7	- 1		5/16	
					3/8	1 1/2 2 2 1/2	2 3/8	5 1/2 7 1/4 8				
GRDUT FILLED CMU	NOTE 1		DEWALT/ELCO AGGRE-GATOR DEWALT/ELCO ULTRACON SS4	300 SS 410 SS	1/4	2	2 1 2 1/2	8 3 6 3/4	3	AS MANUFACTURED	1/4	SEE FASTENE MANUFACTURE INSTRUCTION
OTE 1: CONO	CRETE MASON	Y (CMU) SHAL	L 21LOT HOLES IN MOUNTING ANGLE AT 2″ D.C. FOR SUBST _L BE > THE FOLLOVING: 6″ WIDE, CMU CONFORMING TO LL BE > THE FOLLOVING: 6″ WIDE, 2 KSI CMU CONFORM	ASTM C-	-90 FILL	ED WITH	4,747 KSI	GROUT.	HICH DO N	NOT VIOLATE SHO\	√N MIN & MAX	SPACING.

## Flange/Sleeve Installation

#### **Maximum Size and Installation Information**

Model EHH-601DE is a Miami-Dade Approved and Florida Product Approved louver and must be installed in accordance with the installation instructions shown herein. Model EHH-601DE with Flange/Sleeve is qualified for installation into any substrate that can withstand the loads transferred by the louver, including but not limited to concrete/masonry, aluminum, steel stud, structural steel or wood framed building conditions. Model EHH-601DE is structurally calculated to withstand positive and negative wind-loads up to +/-150 PSF. The maximum typical rough opening height is limited to 48.50 in. and the typical rough opening width is limited to 48.75 in.

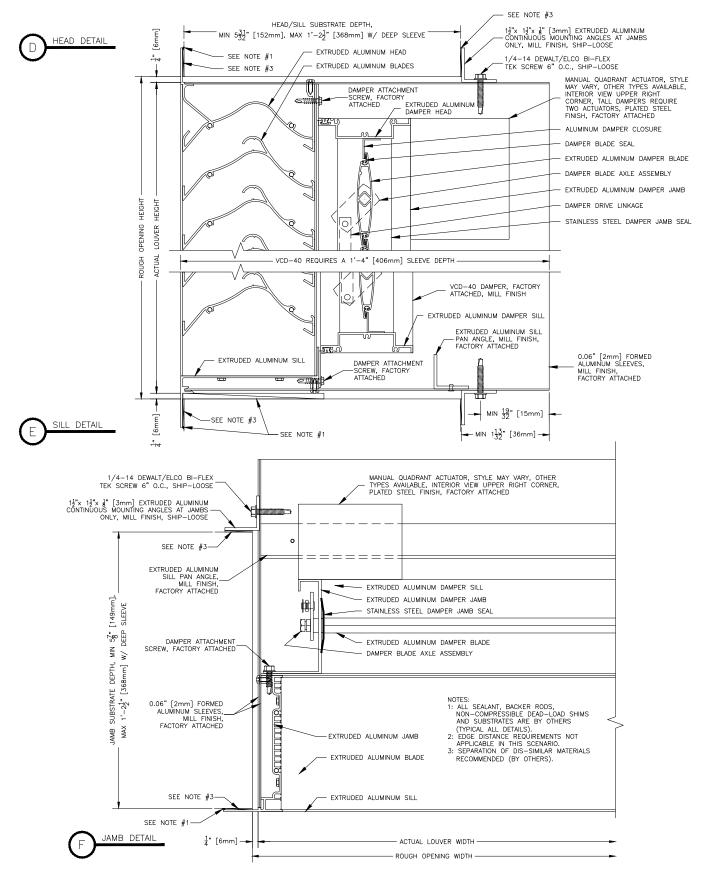


# **Building Condition/Substrate Limitations**

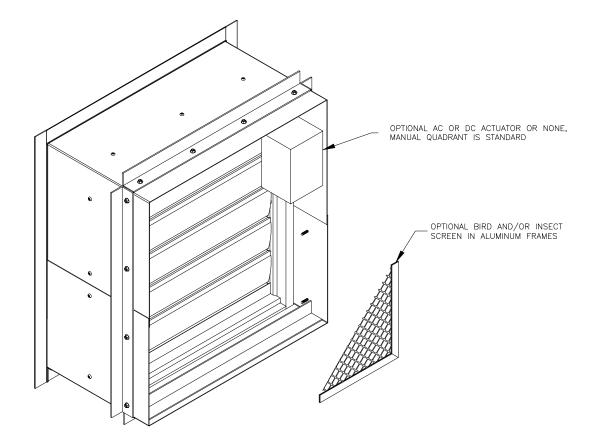
#### Flange/Sleeve Installation

• Any substrate acceptable that is capable of withstanding imposed loads.

### **Flange/Sleeve Installation**



# Flange/Sleeve Installation



# **Our Commitment**

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.

Product warranties can be found online at Greenheck.com, either on the specific product page or in the literature section of the website at Greenheck.com/Resources/Library/Literature.



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