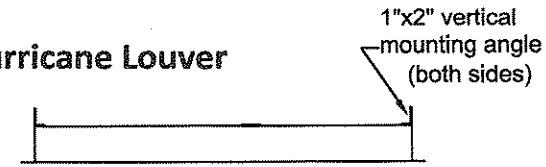
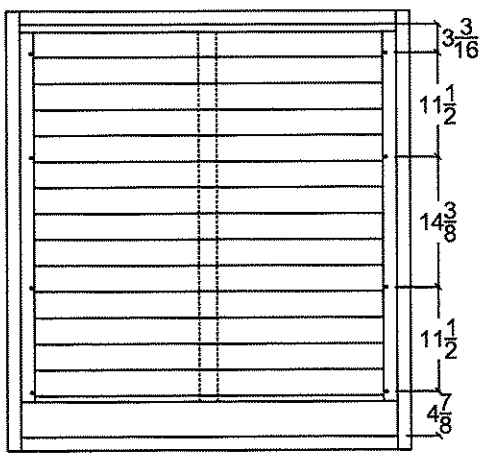
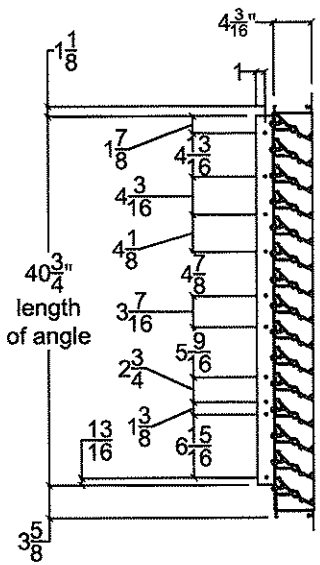
Bard Model No. OLG-35-4H, Dark Bronze, 4" Deep Hurricane Louver

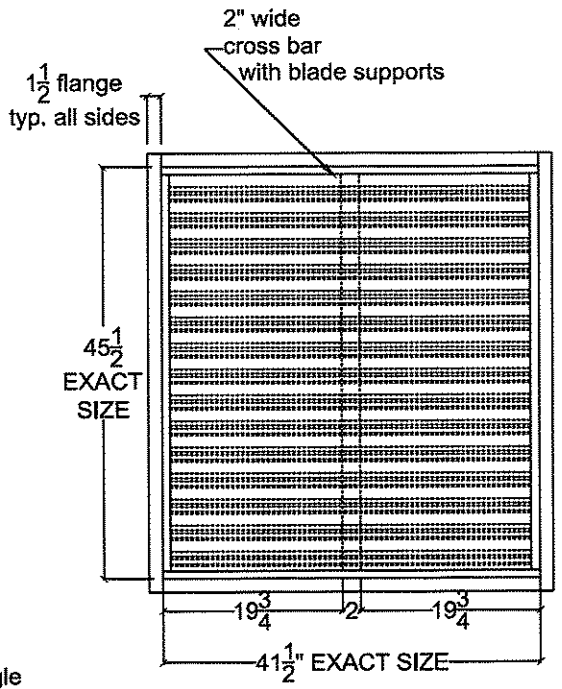


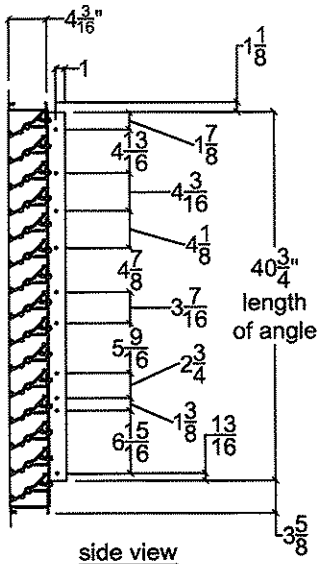


Rear view
Note: Detail for Mounting Angle
Hole Spacing



side view
Note: Detail for Mounting Angle
Hole Spacing (angle to substrate)



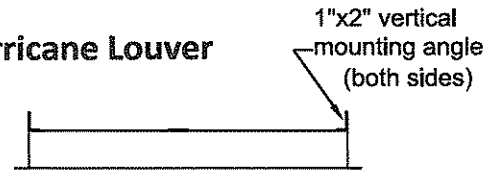


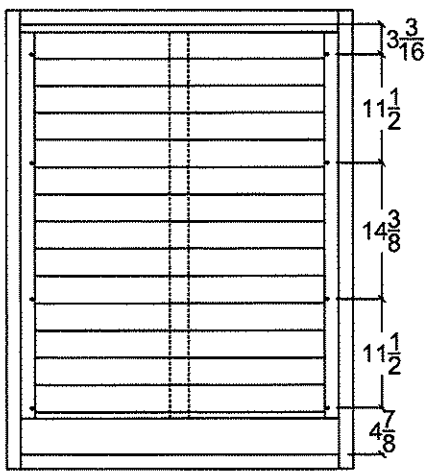
side view
Note: Detail for Mounting Angle
Hole Spacing (angle to substrate)

Note: side mounting angles
will ship loose

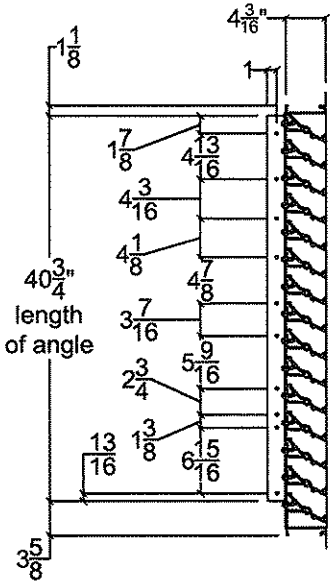
Notes: Cross-bar with blade supports placed as shown above All blades are welded in place.	UE FL-D-4 (Built like Dade County) drawn by: C. Jackson date: 1-09-09 (rev. 1) | Dwg. FLD4-0034 approved by:	United Enertech

Bard Model No. OLG-30-4H, Dark Bronze, 4" Deep Hurricane Louver

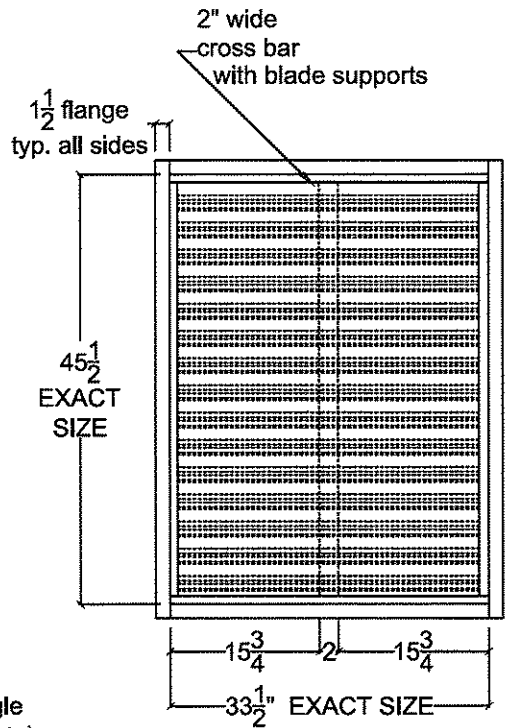


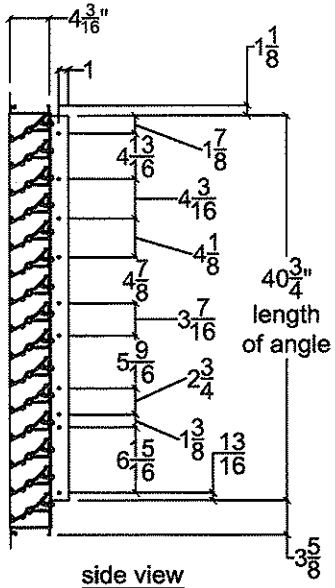


Rear view
Note: Detail for Mounting Angle
Hole Spacing (angle to louver)



side view
Note: Detail for Mounting Angle
Hole Spacing (angle to substrate)



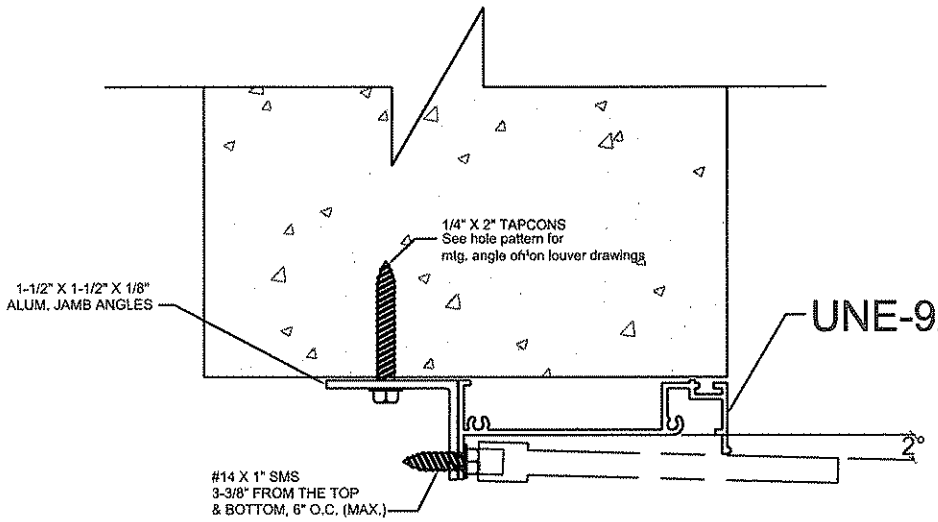


side view
Note: Detail for Mounting Angle
Hole Spacing (angle to substrate)

Note: side mounting angles will ship loose

Notes: Cross-bar with blade supports placed as shown above All blades are welded in place.	UE FL-D-4 (Built like Dade County) drawn by: C. Jackson date: 1-09-09 (rev.1) | Dwg. FLD4-0034 approved by:

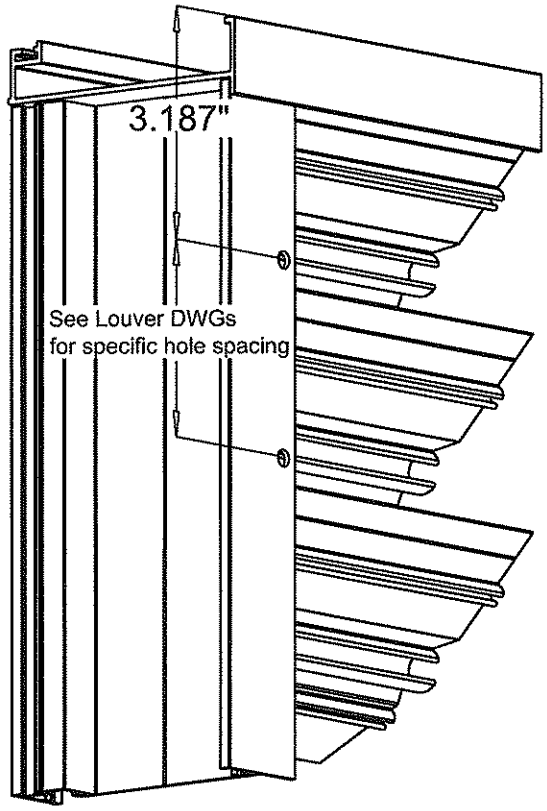
United Enertech



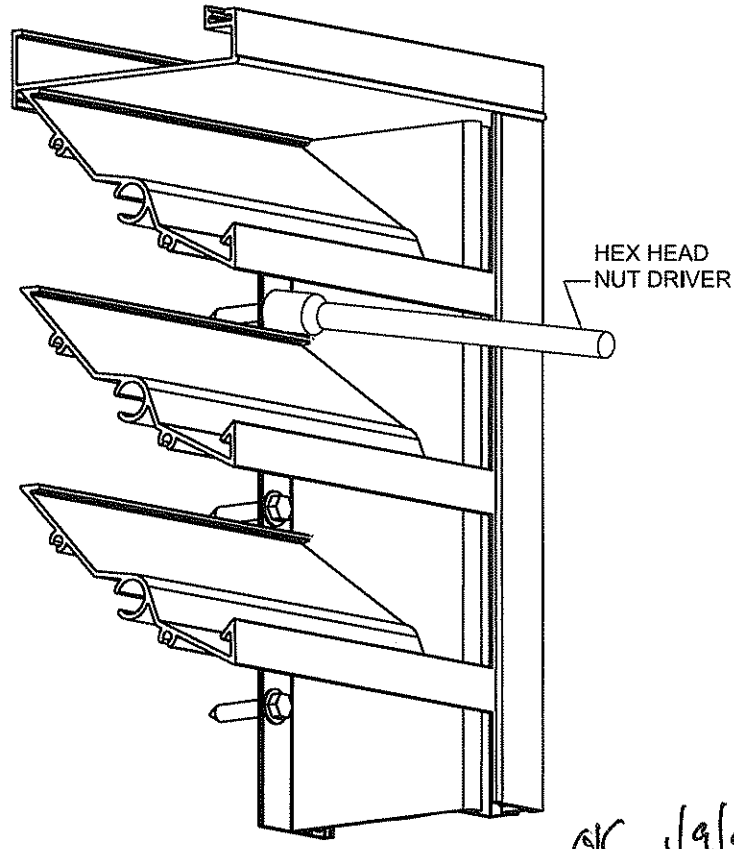
NOTE: ALL FASTENERS
BY OTHERS

PLAN VIEW

REMOVABLE FROM FRONT OF LOUVER



ISOMETRIC VIEW
REAR OF LOUVER



ISOMETRIC VIEW
FACE OF LOUVER

OK 1/9/09
DH Bardwell

FL-D-4 JAMB MOUNTING BIRDSCREEN AND/OR INSECT SCREEN ARE OPTIONAL	United Enertech
DRAWN BY: C. Jackson	
DATE: 1-9-08	

United Enertech

(ENGINEERS)

SUBMITTAL DATA

Hurricane Louver w/ drainable blades and jamb gutter downspouts

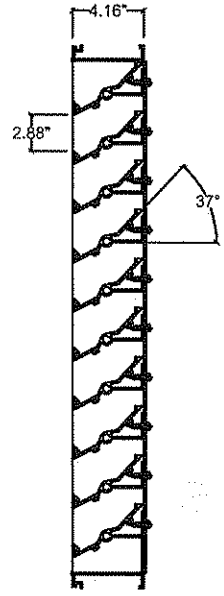
4" Deep Hurricane Louver

MIAMI-DADE APPROVED

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE #: 08-0902.08 (EXPIRES 01-17-11)
FLORIDA BUILDING CODE PRODUCT APPROVAL #: FL3281

Application and Features

The Model DCFL-D-4 is a louver designed to protect the outside opening in building exterior walls. It is engineered for use in Dade County and its municipalities as well as other regions that use Dade County codes. These louvers may be used for exhaust or intake air. This model incorporated drainable blades and downspouts jamb gutter design for high performance. Engineers and designers can design with confidence since this product complies with the Miami-Dade County Building Code.



Maximum Design Pressure Rating
+150.0, -150.0 psf
Large Missile Impact Resistance

Product approval in accordance with 2007 edition- Florida Building Code. Design wind loads shall be determined as per section 1619 of the above mentioned code, for basic wind speed of **146 mph** *and in accordance with ASCE-7-98 Standard*

STANDARD CONSTRUCTION:

FRAME:
.125 Extruded Aluminum 4.16" deep.

BLADES:
.081 Extruded Aluminum Positioned on a 37° angle on approximately 2.88" centers.

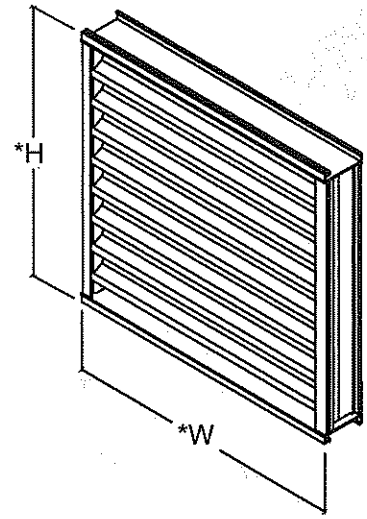
BIRDSCREEN:
3/4" X .051 Flattened Aluminum in Removable Frame.
Screen is mounted on inside (rear) as looking from exterior of building.

FINISH:
mill aluminum (std.)

MINIMUM SIZE:
12"w x 12"h

MAXIMUM SIZE:
72"w x 72"h single section
Larger sizes made in multiple sections with vertical mullions.

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.



OPTIONS (at additional cost)

- ☐ Filter Racks
- ☐ Insect screen
- ☐ Security Bars
- ☐ A variety of architectural finishes including:
  - Baked Powder Polyester
  - Baked Powder Fluropolymer 70%
  - Baked Powder Clear Coat
  - Anodizing: Clear or Integral Color

NOTE: Please specify the following for proper construction of mounting hardware.
Wall Thickness_____"
Design Wind Load_____
Substrate_____
(Wood, Steel, Poured Concrete, or Concrete Block)

*W & H dimensions furnished approximately 1/4" under size.

Job Name:	☐ **MODEL DCFL-D-4**		
Location:			
Architect:	DRAWN BY: CLJ	DATE: January 2002	REV. DATE: November 2008
Engineer:			
Contractor:	REV. NO. 10	APPROVED BY: BGT	DWG. NO.: **E-9a**

United Enertech

MODEL DC-FL-D-4

MIAMI-DADE COUNTY HURRICANE STRUCTURAL TEST PERFORMANCE

SIZE TESTED: 146"w x72"h

DCBCCD PA 201-94 LARGE MISSILE IMPACT TEST:

MISSILE TYPE	VELOCITY IN FT/SEC (M/SEC)	IMPACTS
9 lb. Southern Yellow Pine 2"x4"x88-1/2"long	50 (15.24)	7

DCBCCD PA 202-94 UNIFORM STATIC AIR PRESSURE TEST:

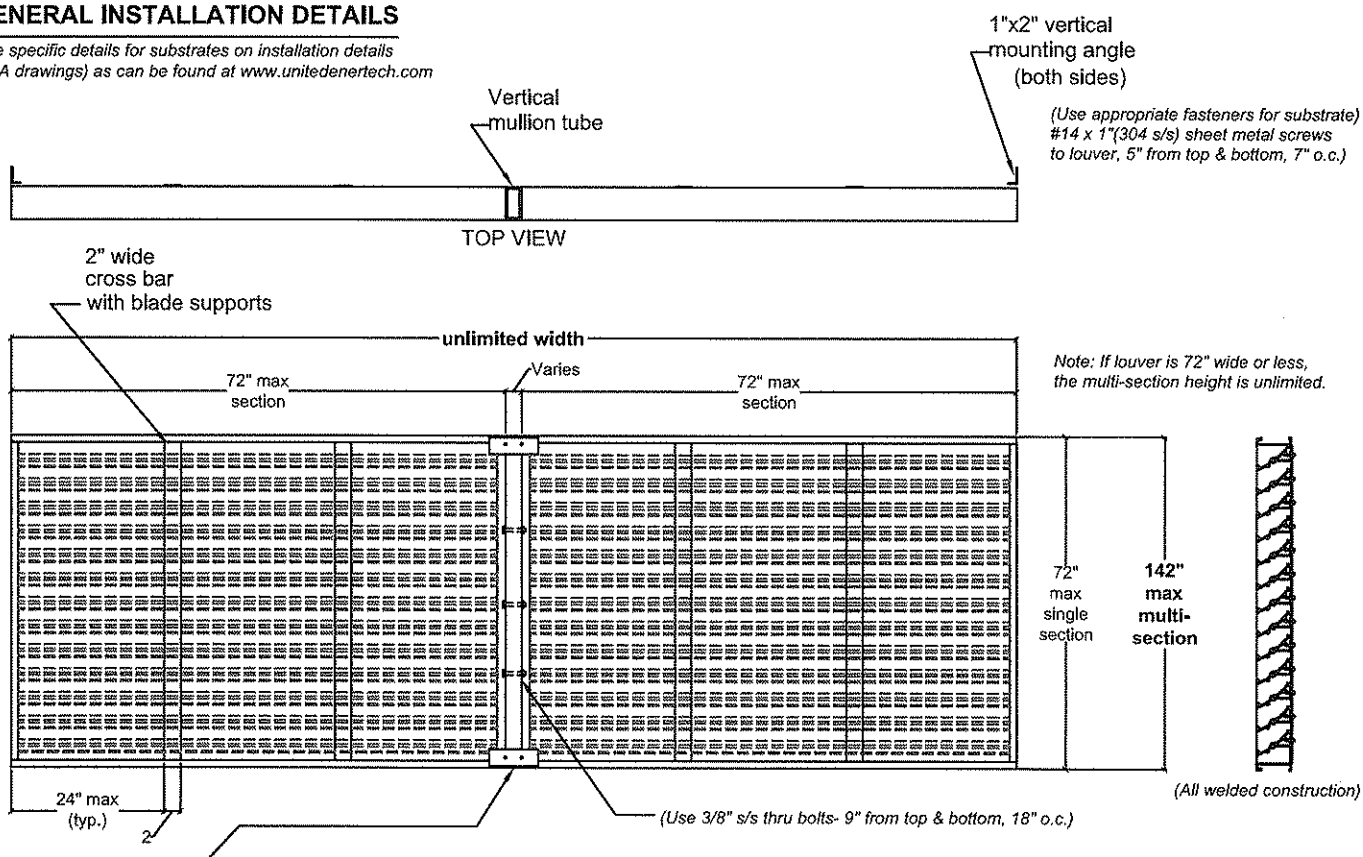
LOAD IN PSF (kPA)	LOAD DURATION	LOUVER RECOVERY
+112.5 (+5.38)	30 seconds	100%
-112.5 (-5.38)	30 seconds	100%
+150 (+7.18)	30 seconds	100%
-150 (-7.18)	30 seconds	100%
+225 (+10.76)	30 seconds	100%
-225 (-10.76)	30 seconds	100%

DCBCCD PA 203-94 FATIGUE LOADING TEST:

CYCLES	LOAD IN PSF (kPA)	LOAD DURATION CYCLE	LOUVER RECOVERY
600	+75 (+3.59)	1 to 3 seconds	100%
600	-75 (-3.59)	1 to 3 seconds	100%
70	+90 (+4.31)	1 to 3 seconds	100%
70	-90 (-4.31)	1 to 3 seconds	100%
1	+195 (+9.33)	1 to 3 seconds	100%
1	-195 (-9.33)	1 to 3 seconds	100%

GENERAL INSTALLATION DETAILS

-See specific details for substrates on installation details (NOA drawings) as can be found at www.unitedenertech.com



2" x 4" x $\frac{1}{4}$" or $\frac{5}{16}$" (8" long) Aluminum angle @ each mullion (head & sill) anchored with fasteners per sheet 1 of installation details (NOA drawings) SEE SPECIFIC TYPE DETAILS FOR SUBSTRATES IN INSTALLATION DETAILS FOR MAXIMUM HEIGHTS.

Notes: Cross-bar with blade supports placed as shown above.

PLEASE NOTE: THIS DRAWING IS FOR GENERAL INFORMATION. REFER TO SPECIFIC SUBSTRATE DESIGN CRITERIA FOR EXACT INSTALLATION DETAILS (NOA #08-0902.08)