



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

Ruskin Manufacturing
3900 Dr. Greaves Road.
Grandview, MO 64030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: EME6625D Louver with and without CD50 Damper

APPROVAL DOCUMENT: Drawing No. 60-021563-00D, 01D, 05D through 08D & 23B, titled "EME6625 & CD50 Assemblies & Sections", sheets 1 through 7 of 7, dated 03/16/98 prepared by Ruskin Manufacturing, signed and sealed by Edward P. Hutson JR., P.E. on 07/27/06, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 06-0626.01 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
2/8/07

NOA No 06-1205.08
Expiration Date: January 28, 2012
Approval Date: March 1, 2007

Ruskin Manufacturing

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 60-021563-00D, 01D, 05D through 08D & 23B, prepared by Ruskin Manufacturing titled "EME 6625 & CD50", dated 03/13/98 and 04/02 98, revised on 10/15/98, 07/11/06, 05/01/98, 07/31/98 & 04/17/98, signed and sealed by E. P. Hutson Jr. PE on 07/27/06.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test "Aluminum Louver Assemblies with Damper", prepared by Construction Research Laboratories, Inc., report #6496, dated 05/13/98, signed and sealed by N.S. Balsara, P.E.
2. Test Report on Large Missile Impact Test, Cyclic Wind Pressure Test "Aluminum Louver Assembly with Damper", prepared by Construction Research Laboratories, Inc., report # 6550, dated 12/09/98, signed and sealed by N.S. Balsara PE.
3. Test Report on wind and wind driven rain resistance on vertical blade louver Model EME6625D with CD50 Damper, prepared by Architectural Testing Report No. 64940.01-109-44 dated 6/23/06 signed and sealed by Steven M. Urich, P.E.

C. CALCULATIONS

1. Louver/Damper Blade & Mullion Calculations, dated 05/11/98, pages 1 to 7 of 7 with appendix A, prepared by R. E. Beason II, signed and sealed by E. P. Hutson Jr. PE.
2. Louver/Damper Blade & Mullion Calculations, dated 10/20/98, pages 1 to 7 of 7, with appendix A, prepared by R. E. Beason II, signed and sealed by E. P. Hutson Jr. PE.
3. Letter from Ruskin confirming that the 4/3 stress increase was not used, dated June 24, 2005 signed & sealed by E.P. Hutson JR., P.E.

D. QUALITY ASSURANCE

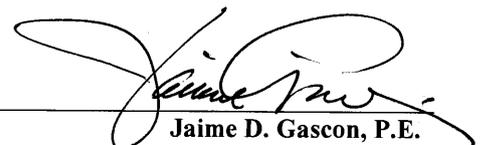
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None

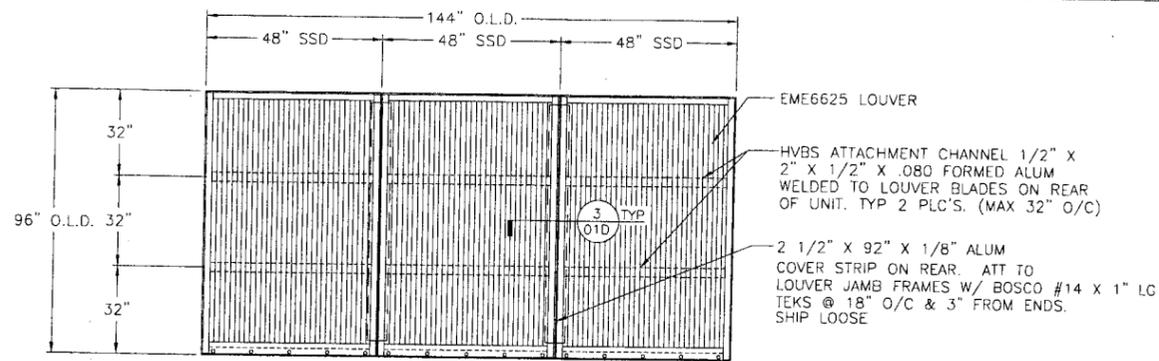
F. STATEMENTS

1. Letter from Ruskin Manufacturing certifying that louvers EME 6625D with and without damper CD50 conforms to the FBC, dated 08/10/06 and signed by J. Livingston.
2. Letter from Ruskin Manufacturing requesting renewal of file 06-0626.01 without change, dated 11/29/06 and signed by J. Livingston.



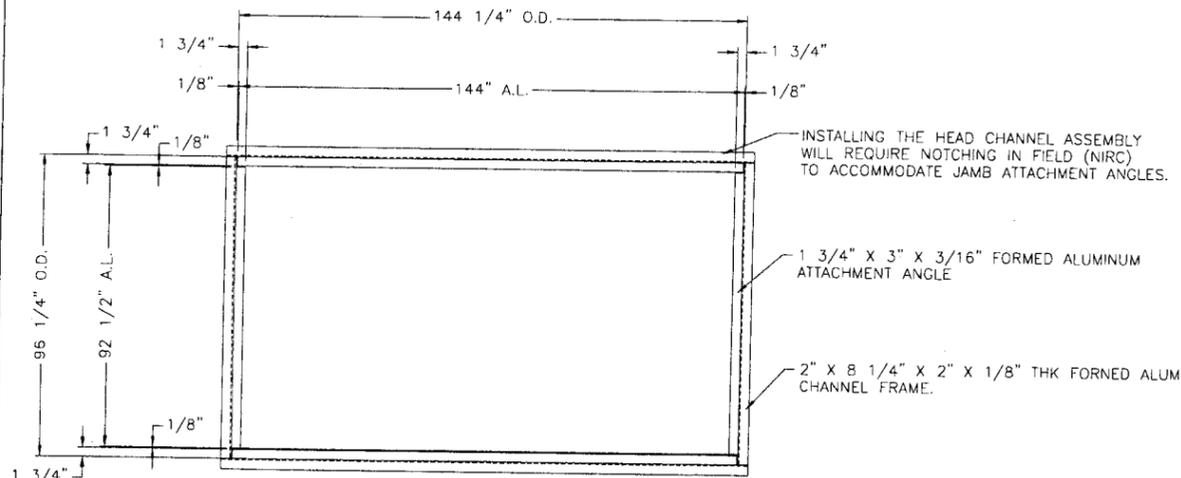
Jaime D. Gascon, P.E.
Product Control Division
NOA No 06-1205.08

Expiration Date: January 28, 2012
Approval Date: March 1, 2007

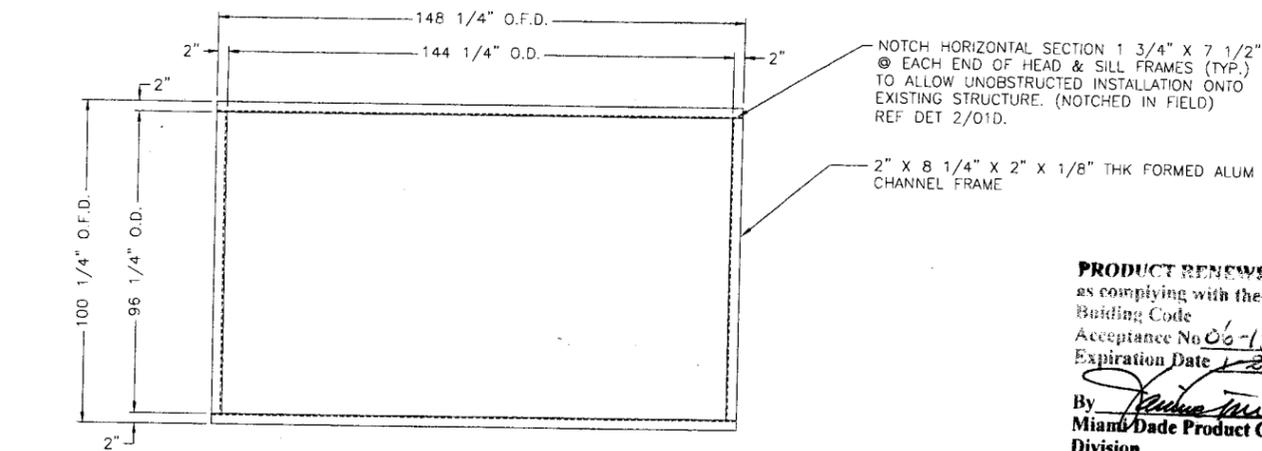


EME6625 LOUVER ASSEMBLY "A"

NTS DESIGN PRESSURE RATING: +160/ -140 PSF. FRONT VIEW
WHEN ROOM BEHIND LOUVERS IS DESIGNED TO DRAIN WATER, BUT LIMITED TO 33' ABOVE GROUND LEVEL.
WHEN ROOM BEHIND LOUVERS IS NOT DESIGNED TO DRAIN WATER.



CHANNEL FRAME & ATT ANGLE ELEVATION
REAR VIEW



CHANNEL FRAME ELEVATION
FRONT VIEW

REAR & FRONT ELEVATIONS VIEW OF CHANNEL FRAME & ATT. ANGLE
NTS.

LEGEND:

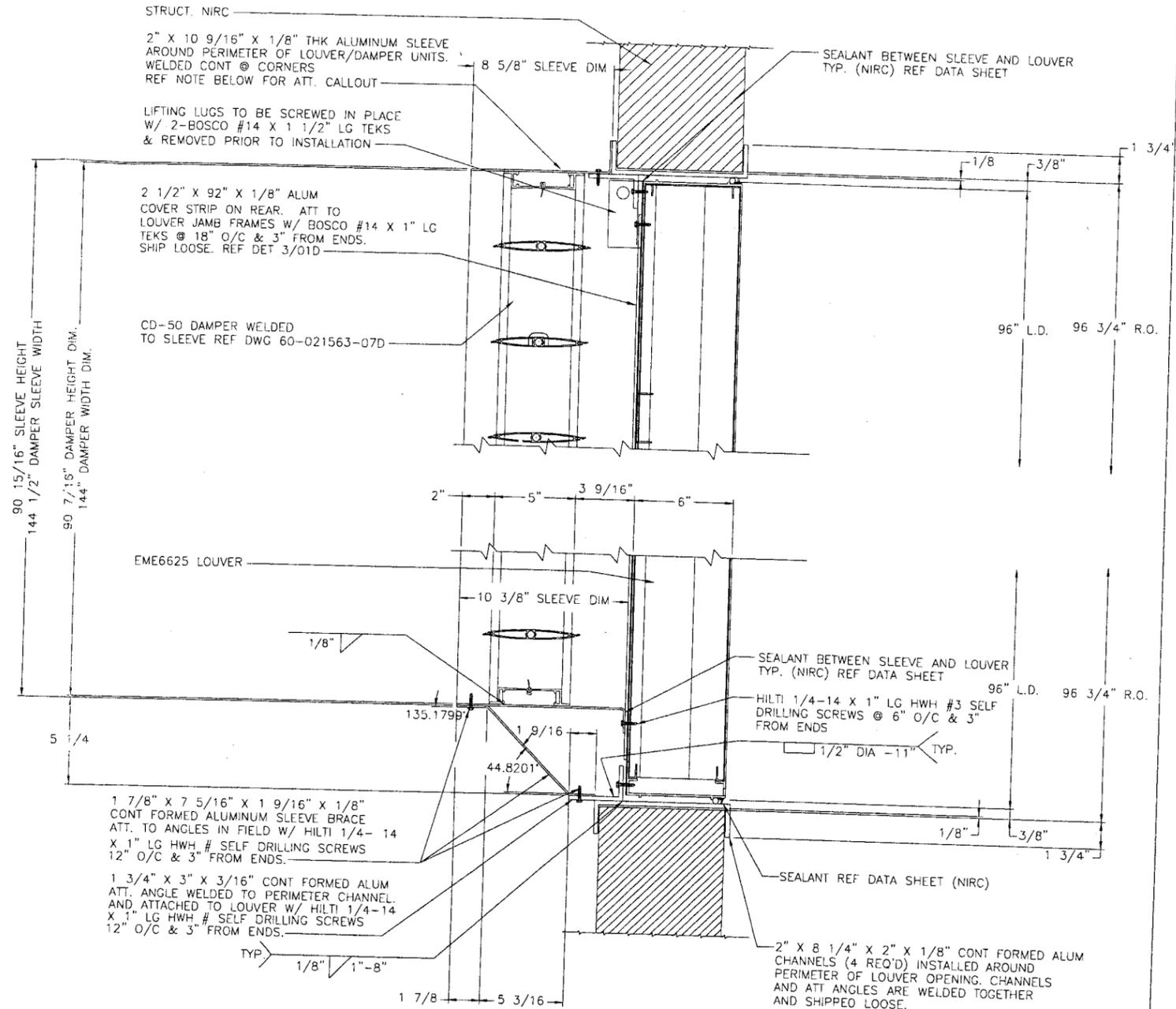
O.F.D. = OUTSIDE FRAME DIM.
R.O. = ROUGH OPENING
A.L. = ANGLE LENGTH
O.D. = OPENING DIM.
N.T.S. = NOT TO SCALE
NIRC = NOT IN RUSKIN CONTRACT

HVBS = HIDDEN VERTICAL BLADE SUPPORT.
SSD = SHIP SECTION DIM.
L.D. = LOUVER DIM.
DIM. = DIMENSION
SIM = SIMILAR

NOTES:

- THE STRUCTURAL SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
- LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-1205-08
Expiration Date 1-28-2012
By *[Signature]*
Miami Dade Product Control Division



EME6625/CD50 SLEEVED SECTION (JAMB SIM TO HEAD)
3"=1'-0"

FOR OFFICE USE ONLY

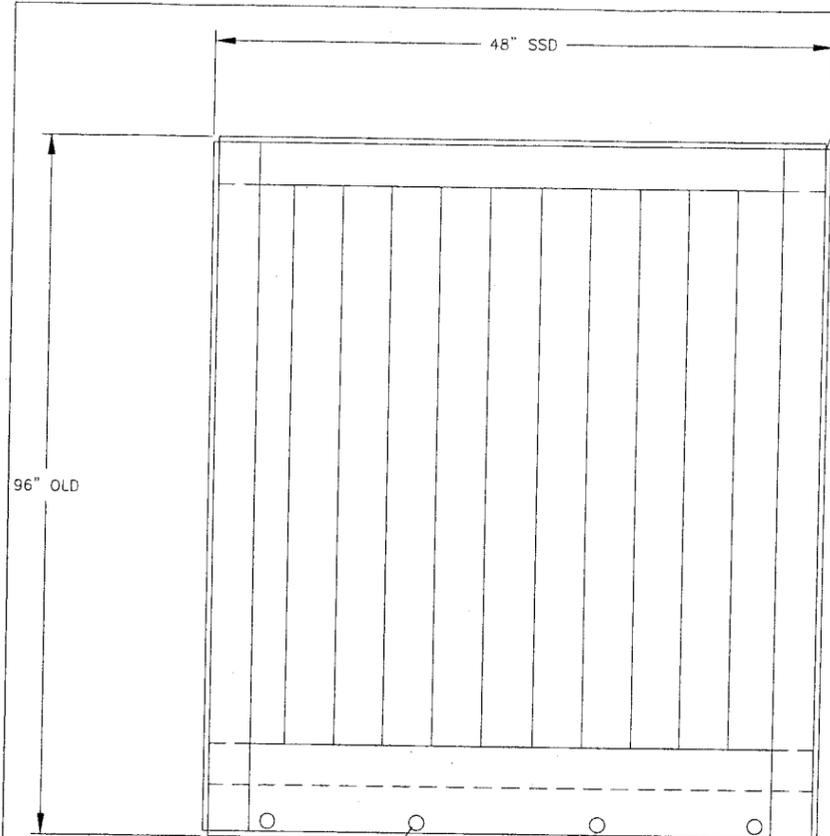
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0626-01
Expiration Date 1/28/07
By *[Signature]*
Miami Dade Product Control Division

FOR FASTENER LOADS REF DWG. 60-021563-06D

Edward P Hutson
1/27/2006

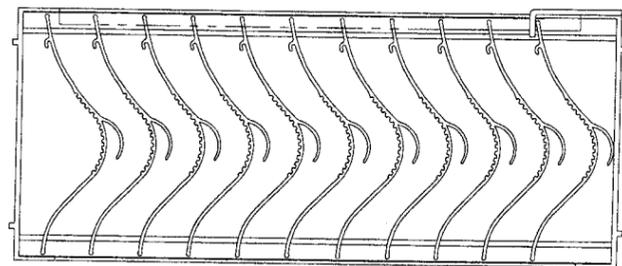
(E)	DADE CO. COMMENTS	GSL	VMA		10/15/98
(I)	DADE CO. COMMENTS	RM	VMA		7-31-98
(C)	ADDED NOTES	GSL	VMA		5/7/98
(B)	ADDED ENGINEERING DATA & REV'D DETAILS	GSL	VMA		5/11/98
(A)	REMOVED ENGINEERING DATA	JAL	VMA		4/17/98

ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.	REGISTRATION #: STATE OF FLORIDA # 0052339	CHANGE LETTER	REVISION DESCRIPTION	DRAWN BY: GSL	CHECKED BY: VMA	APPROVED BY: [Signature]	DATE: 3-13-98
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER							
RUSKIN Mfg 3900 DR. Groves RD Grandview, MD 64030		PROPRIETARY INFORMATION		NONE		DWC CERTIFIED	
LOUVER DAMPER ASSY DADE CTY. FLORIDA		EME6625 & CD50 ASSEMBLIES & SECTIONS		DWC NO.		60-021563-00D	

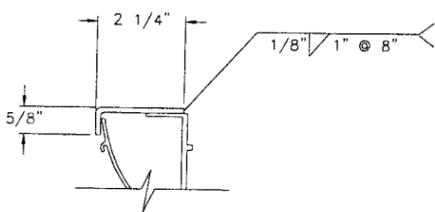


1/2" DIA WEEP HOLES @ 8" O/C & 2" FROM ENDS @ FRONT OF LOUVER SILL ONLY.

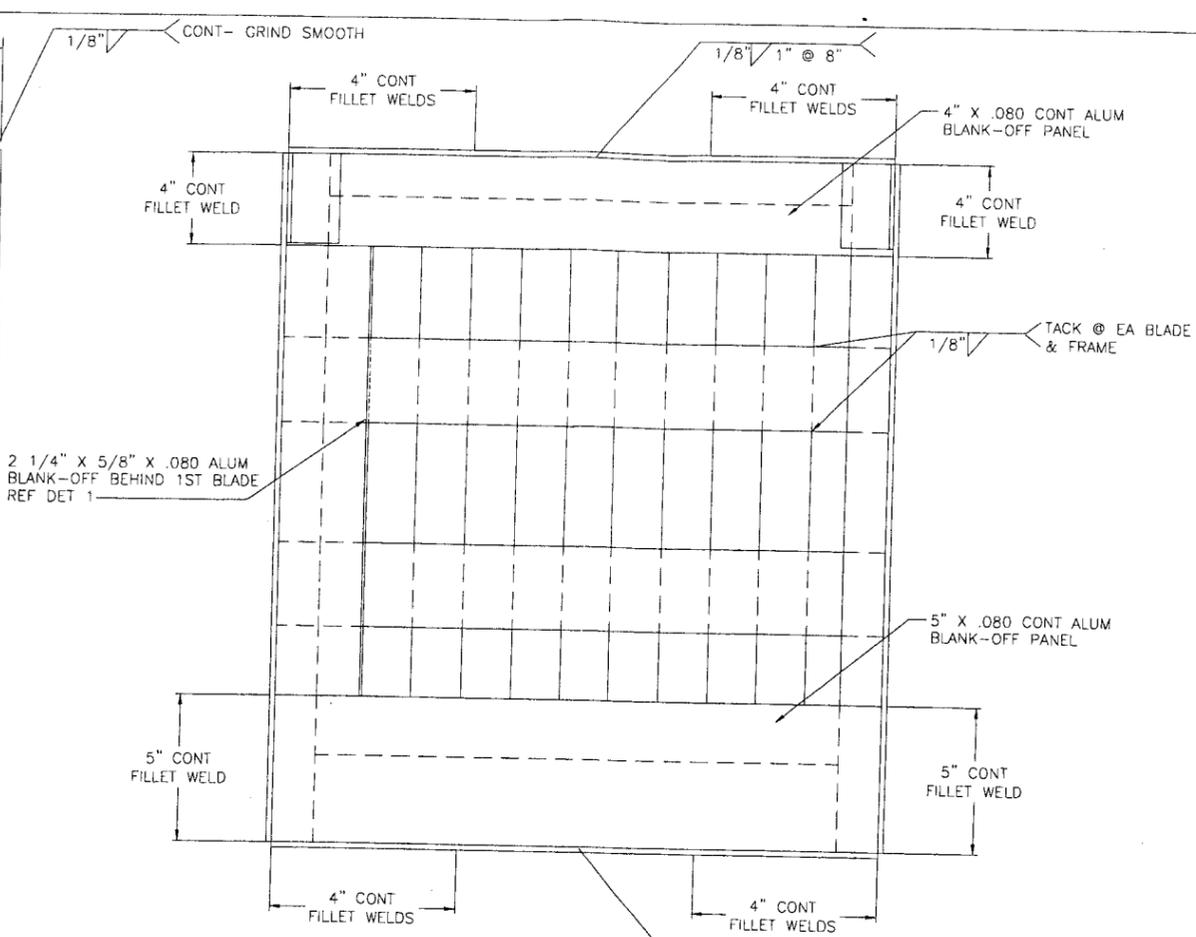
FRONT ELEVATION VIEW (PER SHIP SECTION)



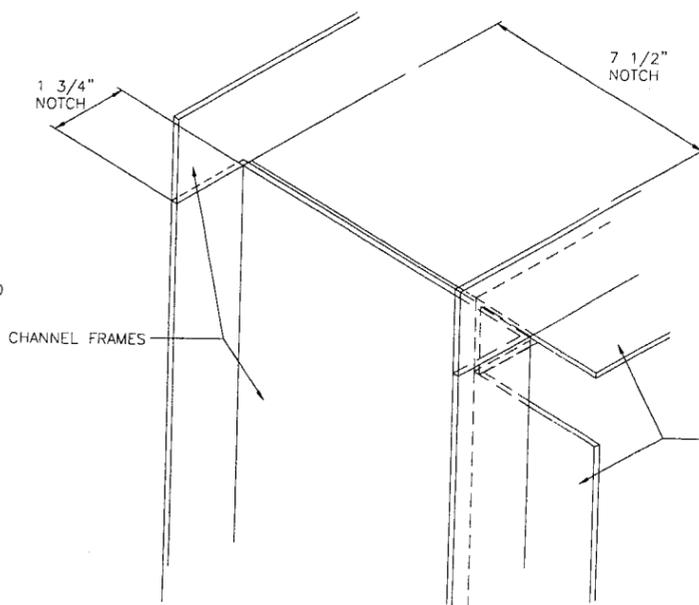
SECTION PLANVIEW



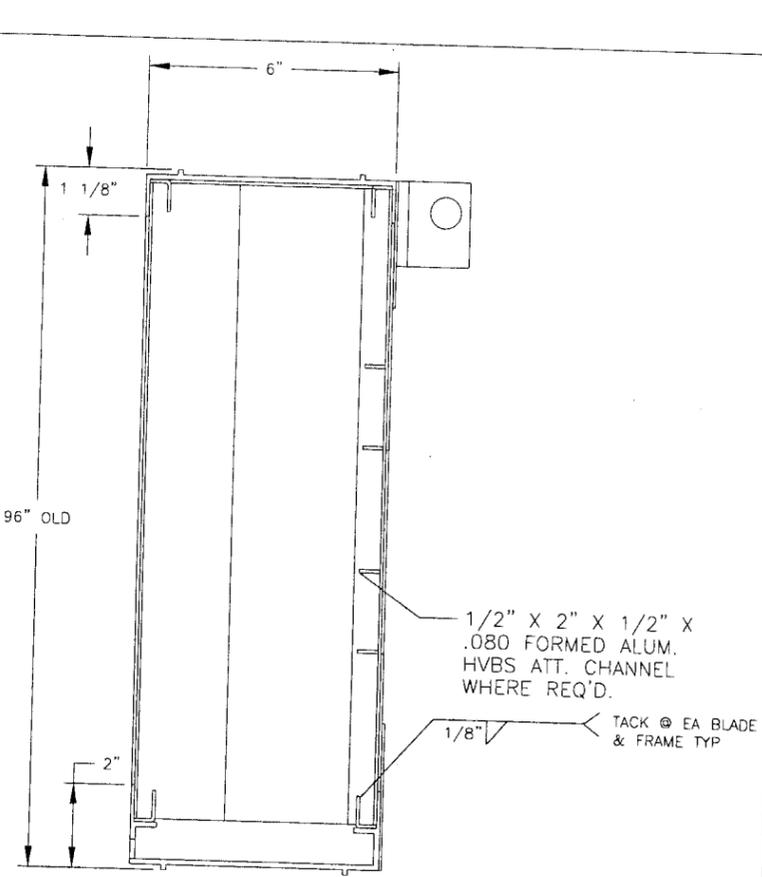
1 1ST BLADE JAMB BLANKOFF DETAIL
N.T.S.
MAT'L: .080 CONT FORMED ALUMINUM



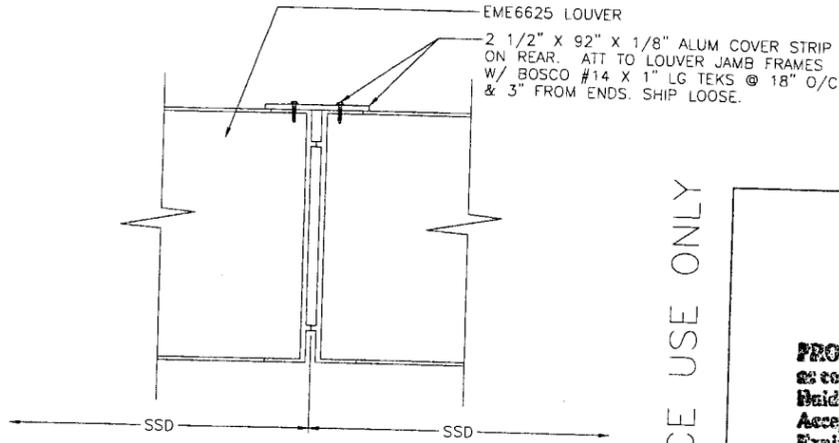
REAR ELEVATION VIEW



2 ISOMETRIC NOTCHING DETAIL
N.T.S.



EME6625 SECTION



3 MULLION SPLICE DETAIL
N.T.S.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 06-1205-09
Expiration Date 1-28-2012
By *Edward P. Hutson Jr.*
Miami Dade Product Control Division

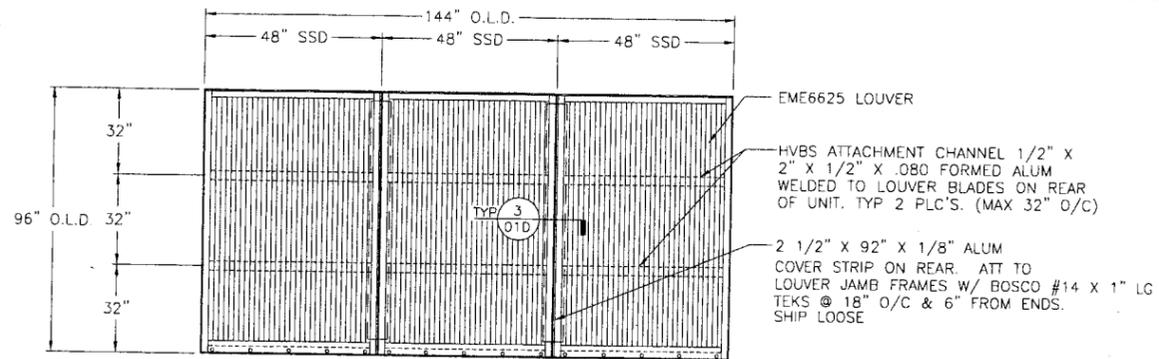
Edward P. Hutson Jr.
7/27/2006

FOR OFFICE USE ONLY

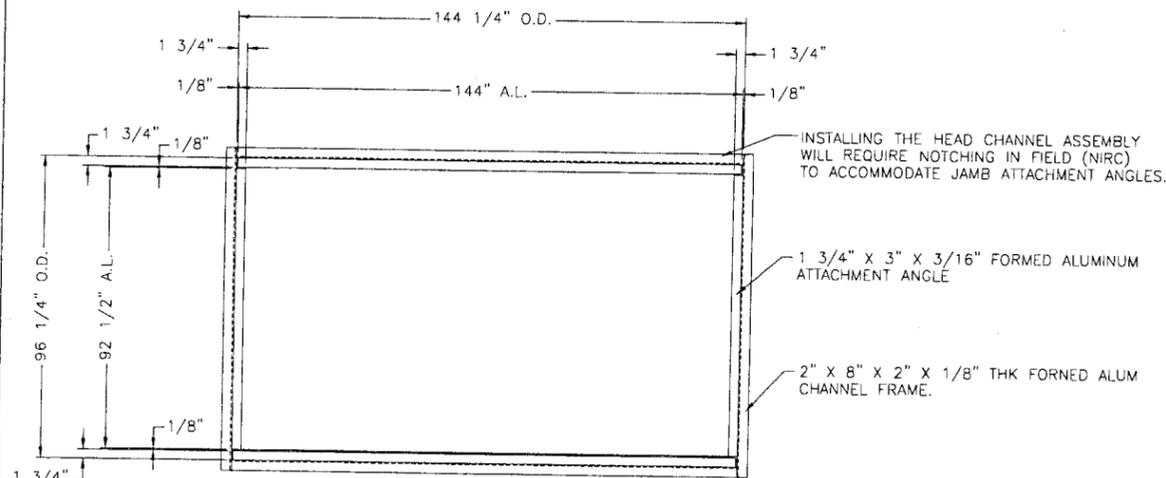
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0626-01
Expiration Date 128701
By *Edward P. Hutson Jr.*
Miami Dade Product Control Division

(F)	REVISED BLADE SPACING PER RETEST	DJR	VMA		7/11/06
(D)	DADE CO COMMENTS	RM	VMA		7-31-98
(C)	REV'D DETAILS & ELEV.	GSL	VMA		5-7-98
(B)	REV'D DETAILS & ADDED DETAILS 2 & 3	GSL	VMA		5-1-98
(A)	REMOVED ENGINEERING DATA	JAL	VMA		4-17-98

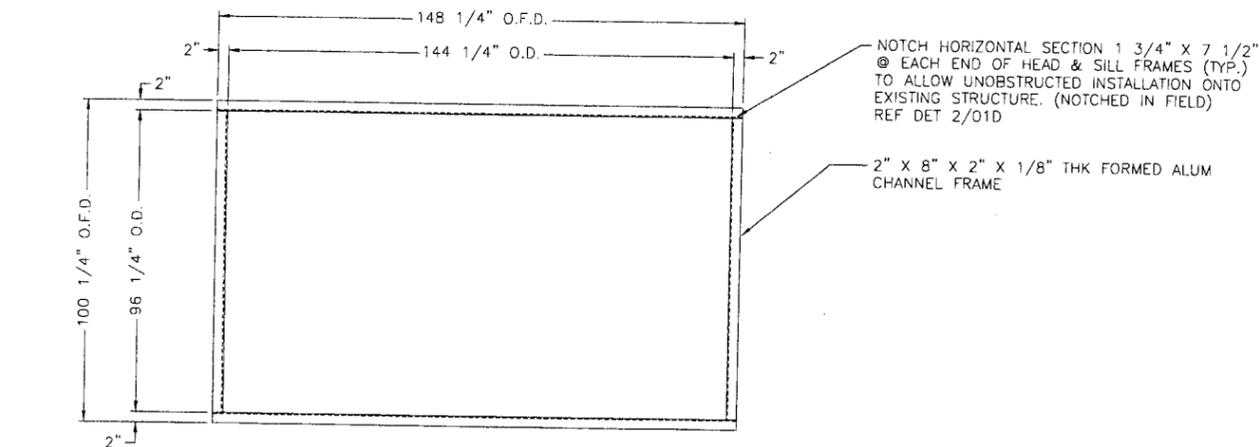
ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.	REGISTRATION #: STATE OF FLORIDA #0052339	CHANGE LETTER	REVISION DESCRIPTION	DWG. NO.	DATE
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER					
DWN. BY: GSL	CHK'D. BY: VMA	DATE: 3-13-98			
DATE: 3-13-98	DATE: 3-16-98				
LOUVER DAMPER ASSY DADE CTY. FLORIDA		RUSKIN Mfg 3900 DR Greaves RD Granoview, MD 64030		PLOT SCALE: NONE DWC CERTIFIED: NONE	
		EME6625 & CD50 ASSEMBLIES & SECTIONS		DWC NO.: 60-021563-01D	



② EME6625 LOUVER ASSEMBLY "B"
NTS DESIGN PRESSURE RATING: +160/ -140 PSF FRONT VIEW
WHEN ROOM BEHIND LOUVERS IS DESIGNED TO DRAIN WATER, BUT LIMITED TO 33' ABOVE GROUND LEVEL.
WHEN ROOM BEHIND LOUVERS IS NOT DESIGNED TO DRAIN WATER.



CHANNEL FRAME & ATT ANGLE ELEVATION
REAR VIEW

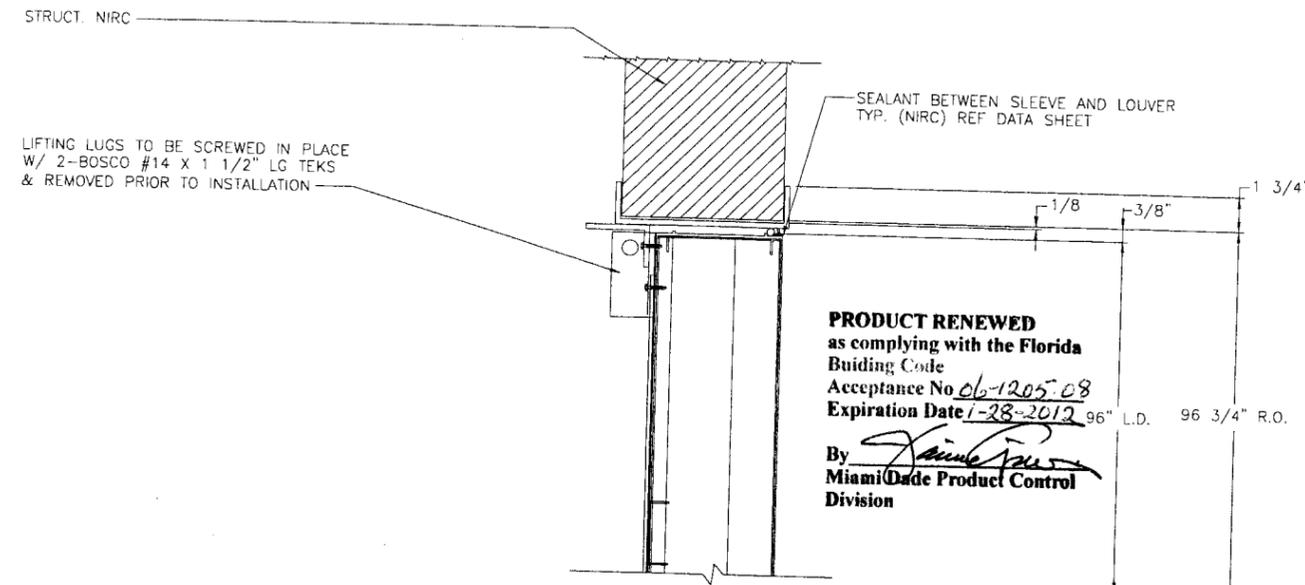


CHANNEL FRAME ELEVATION
FRONT VIEW

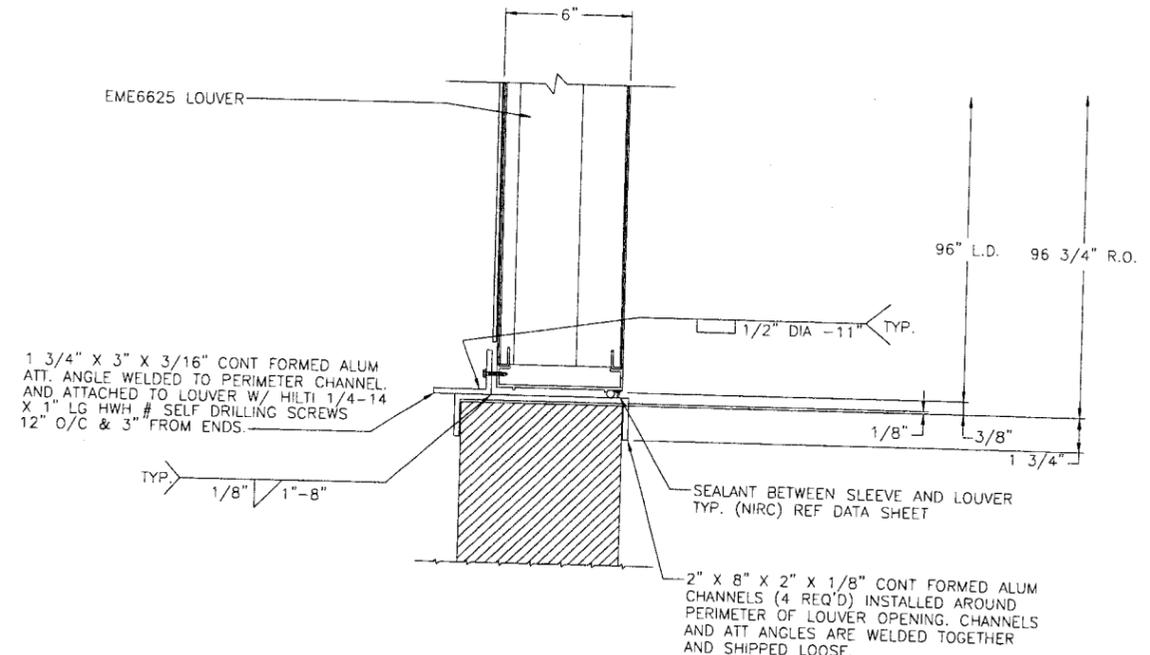
① REAR & FRONT ELEVATIONS VIEW OF CHANNEL FRAME & ATT. ANGLE
N.T.S.

LEGEND:
O.F.D. = OUTSIDE FRAME DIM. SSD = SHIP SECTION DIM.
R.O. = ROUGH OPENING L.D. = LOUVER DIM.
A.L. = ANGLE LENGTH DIM. = DIMENSION
O.D. = OPENING DIM. SIM = SIMILAR
N.T.S. = NOT TO SCALE

NOTES:
- THE STRUCTURAL SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
- LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.



PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 06-1205-08
Expiration Date 1-28-2012
By *Edmund P. Hutson Jr.*
Miami Dade Product Control Division



③ EME6625/CD50 SLEEVED SECTION (JAMB SIM TO HEAD)
3"=1'-0"

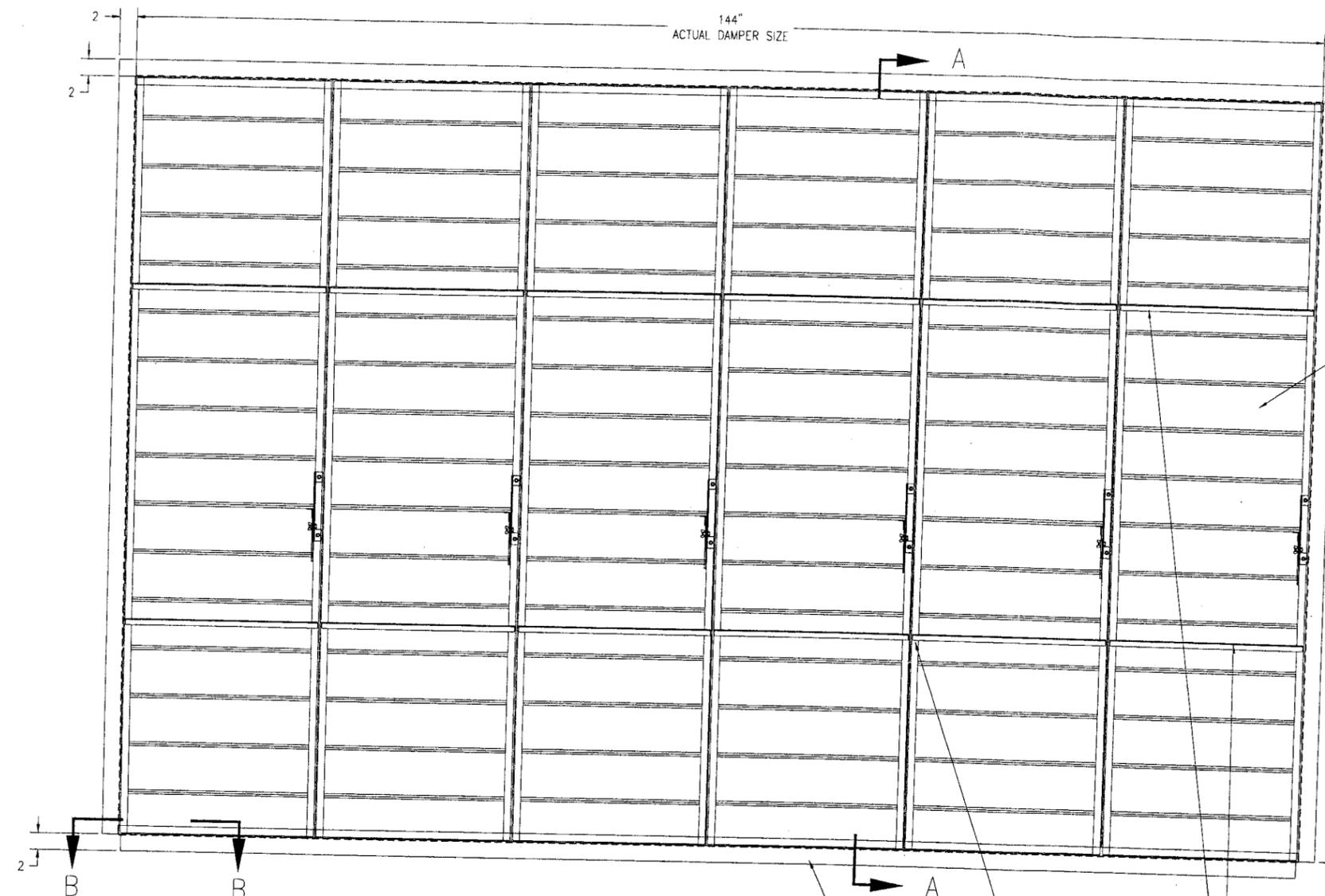
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0626-01
Expiration Date 01/28/07
By *Edmund P. Hutson Jr.*
Miami Dade Product Control Division

FOR FASTENER LOADS REF.
DWG. 60-021563-06D

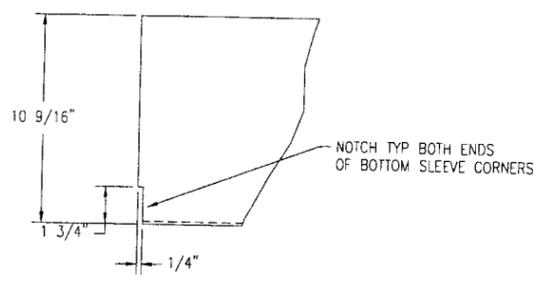
Edmund P. Hutson Jr.
7/27/2006

FOR OFFICE USE ONLY

ENGINEER OF RECORD: EDWARD PAUL HUTSON JR. REGISTRATION # STATE OF FLORIDA #0052339	ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER	CHANGED LETTER	REVISION DESCRIPTION	DWG. NO.	CHK'D. BY:	APP'D. BY:	DATE
DWG. BY: GSL	CHK. BY: VMA	APP'D. BY:	DATE:	3-13-98	3-16-98		
RUSKIN Mfg 3900 DR. Groves RD Grandview, MD 64030			PROPRIETARY INFORMATION	NONE			
LOUVER DAMPER ASSY DADE CTY. FLORIDA				TITLE	EME6625 & CD50 ASSEMBLIES & SECTIONS	DWG. NO.	60-021563-05D
①	DADE CO. COMMENTS	RM	VMA				10/15/98
②	DADE CO. COMMENTS	RM	VMA				7-31-98
③	REV'D DETAILS & ELEVATIONS ADDED NOTES	GSL	VMA				5-7-98
④	REV'D DETAILS & ELEVATIONS	GSL	VMA				5-11-98
⑤	REMOVED ENGINEERING DATA	JAL	VMA				4-17-98



FRONT VIEW



SECTION B-B

TOP CORNERS TO BE FULL
1/8" TYP.

NOTE: DAMPER TO BE BUILT 6 SECTIONS WIDE x 1 SECTION HIGH WITH EACH SECTION OPERATED INDEPENDENTLY SEE DWG 60-021563-08D

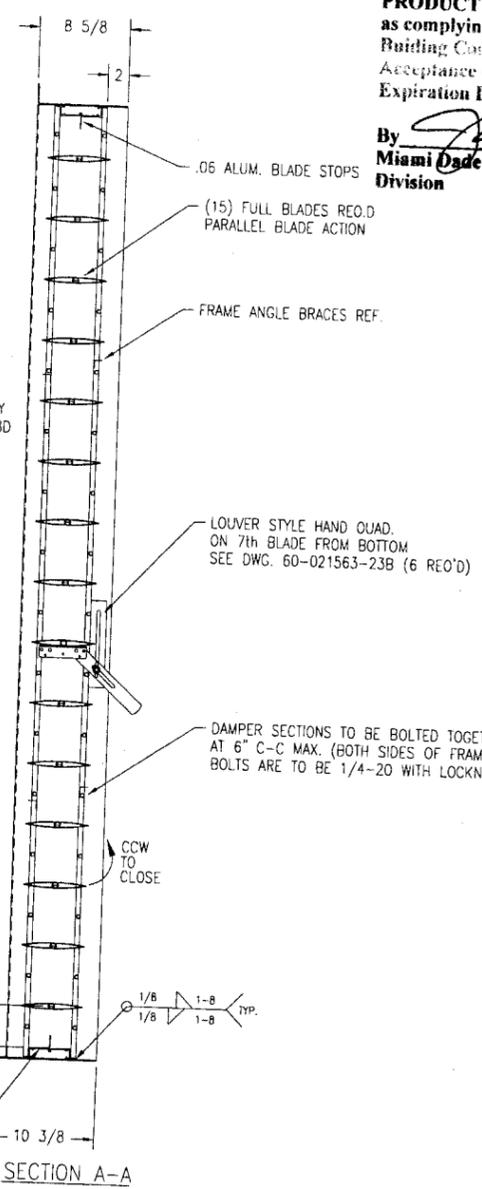
90 7/16" ACTUAL DAMPER SIZE

1/8" 3/8" TYP BOTH ENDS (BRACE TO FRAME)
1/8" 3/8"

SLEEVE: 1/8" ALUM. WITH 2" FLANGE. NOTE THAT BOTTOM SLEEVE LENGTH IS LONGER THAN TOP & SIDES

FRAME ANGLE BRACES: 3/4" x 3/4" x 1/8" ALUM. TOTAL OF (4) PER DAMPER SECTION (2 ON EACH SIDE) LOCATE NEAR POSITION SHOWN AND SO THAT NO INTERFERENCE TAKES PLACE WHEN BLADES ROTATE.

BOTTOM OF SLEEVE TO EXTEND AS SHOWN AT FRAME CORNERS 1/8" 1-1/2"
FRAMES TO BE WELDED TOGETHER AT CORNERS IN ADDITION TO USING CORNER CLIPS.



SECTION A-A

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 06-1205-08
Expiration Date 1-28-2012
By *[Signature]*
Miami-Dade Product Control Division

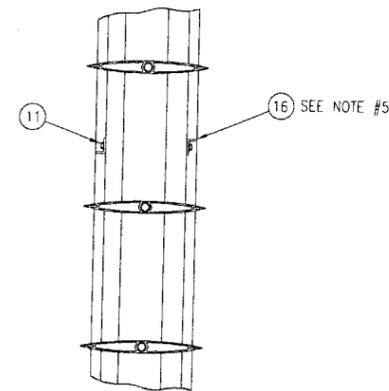
Edward P. Heston
7/27/2006

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 06-0626-01
Expiration Date 01/28/07
By *[Signature]*
Miami-Dade Product Control Division

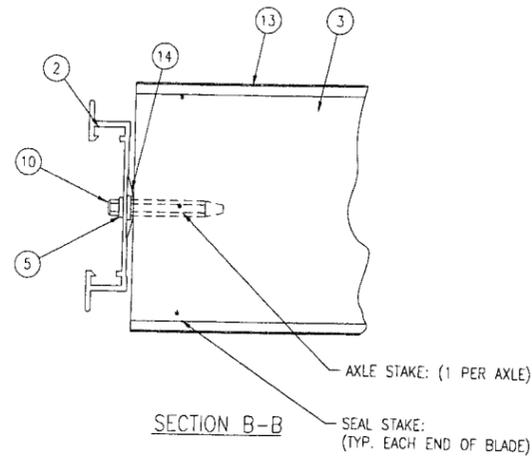
UNLESS OTHERWISE SPECIFIED USE STANDARD ENGINEERING TOLERANCES

CHANGE LETTER	REVISION DESCRIPTION	OWN. BY	CHK'D. BY	APP'D. BY	DATE
(B)	REMOVED ENGINEERING DATA	JAL	VMA		5-1-98
(A)	REMOVED ENGINEERING DATA	JAL	VMA		4-17-98

OWN. BY: DDM	CHK. BY: JSB	APP'D. BY: DVC	DATE: 4/2/98	DATE: 4/13/98	DATE: 4/13/97
RUSKIN Mfg. Grandview, MO					
PROPRIETARY INFORMATION					
TITLE: LOUVER DAMPER ASSEMBLY DADE COUNTY, FLORIDA					
CD-50 ASSEMBLY WITH INTERNAL HAND QUAD.					
DWC NO. 60-021563-07D					



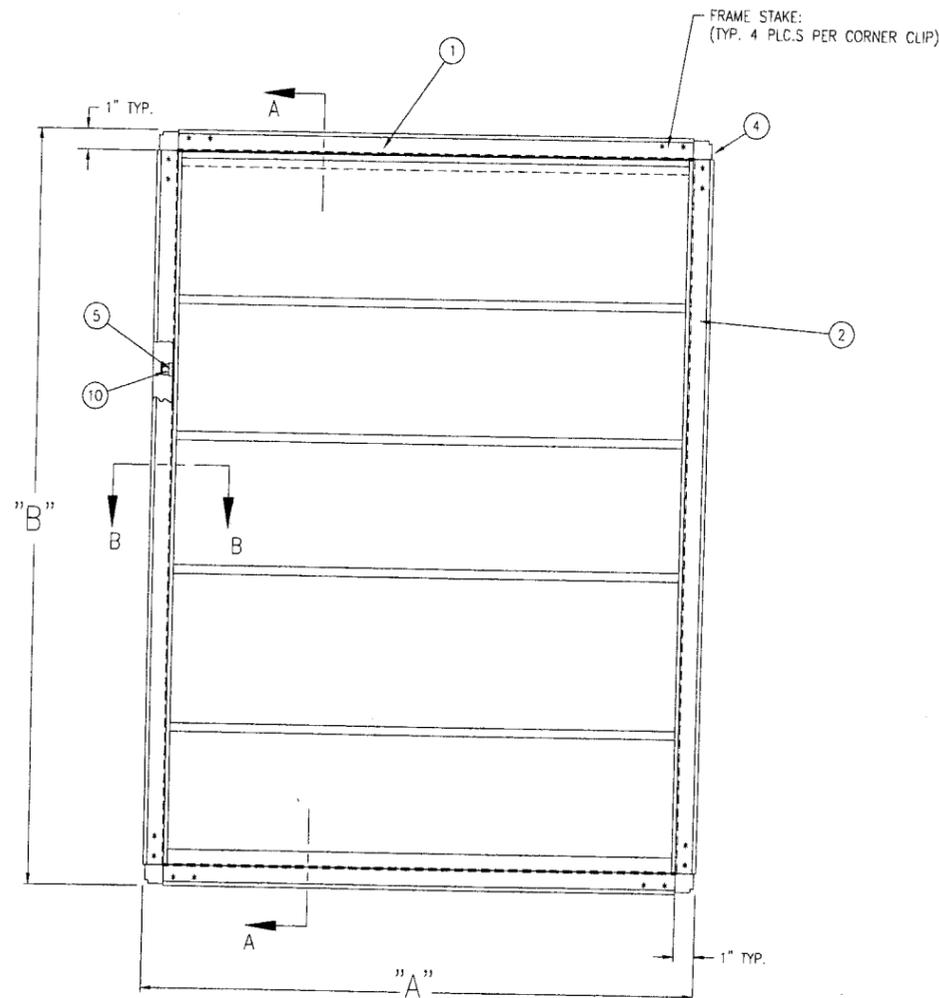
FRAME BRACE DETAIL
UNITS OVER 48" "B" DIM.



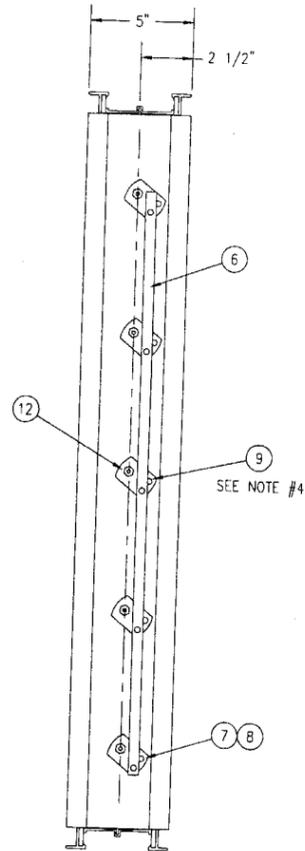
SECTION B-B

AXLE STAKE: (1 PER AXLE)
SEAL STAKE:
(TYP. EACH END OF BLADE)

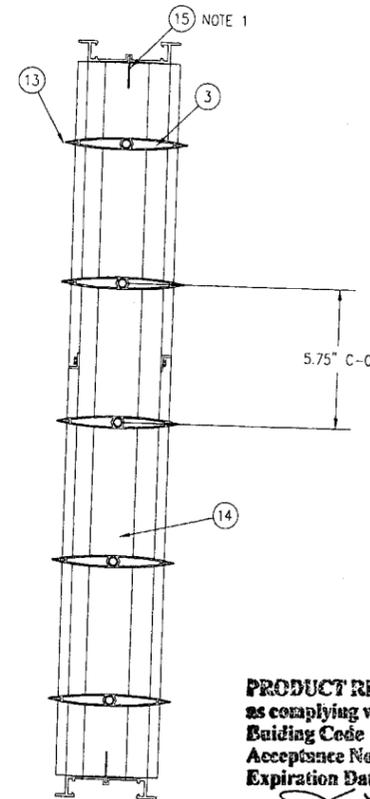
ITEM	DWG. NO.	DESCRIPTION
1	60-021563-09B	FRAME: TOP & BOTTOM
2	60-021563-10B	FRAME: SIDE
3	60-021563-11B	BLADE:
4	60-021563-12B	CORNER CLIP:
5	60-021563-14B	BEARING: SYNTHETIC
6	60-021563-20B	TRUARC: 1/2" WIDE x 12 GA. GALV.
7		TRUARC RING: (PLTD.) E-25
8	60-021563-15B	"F" LINKAGE ASSEMBLY:
9	60-021563-21B	OVERTRAVEL STOP: 16 GA. GALV.
10	60-021563-18B	IDLER AXLE: (PLTD)
11		TEK SCREW: #10 x 3/4" LG. (PLTD)
12		TRUARC RING: (PLTD.) E-50
13	60-021563-13B	BLADE SEAL: SANTOPRENE
14	60-021563-19B	JAMB SEAL: STN. STL.
15		TRAVEL STOP: 1 1/4" X 1" X 3/4" X .06 ALUM.
16	⑩	FRAME BRACE: 3/4" x 3/4" x 1/8" THK. ALUM. ANGLE
17		
18		
19		
20		
21		
22		
23		
24		
25		



FACE VIEW
SHOWN CLOSED



RIGHT SIDE VIEW
PARALLEL BLADE
SHOWN CLOSED



SECTION A-A
SHOWN OPEN

- NOTES:
- TRAVEL STOP (ITEM 15) TO BE CENTERED ALONG BLADE LENGTH WITH 1" LEG ATTACHED TO FRAME BY 1/16" WELDS, # 10 TEK SCREWS OR 3/16" RIVETS. 1 1/4" LEG TO BE 1/16" AWAY FROM BLADE IN FULLY CLOSED POSITION.
 - BLADE LENGTH TO BE 9/32" LESS THAN INSIDE FRAME DIM.
 - FRAMES TO BE CAULKED AT CORNERS.
 - ONE OVER TRAVEL STOP (ITEM 9) REQUIRED ON P.B. DAMPERS ONLY.
 - FRAME BRACE (ITEM #16) IS REQUIRED ON ALL UNITS ABOVE 48" "B" DIMENSION, LOCATED APPROXIMATELY CENTER OF DAMPER FRONT AND BACK SIDES.

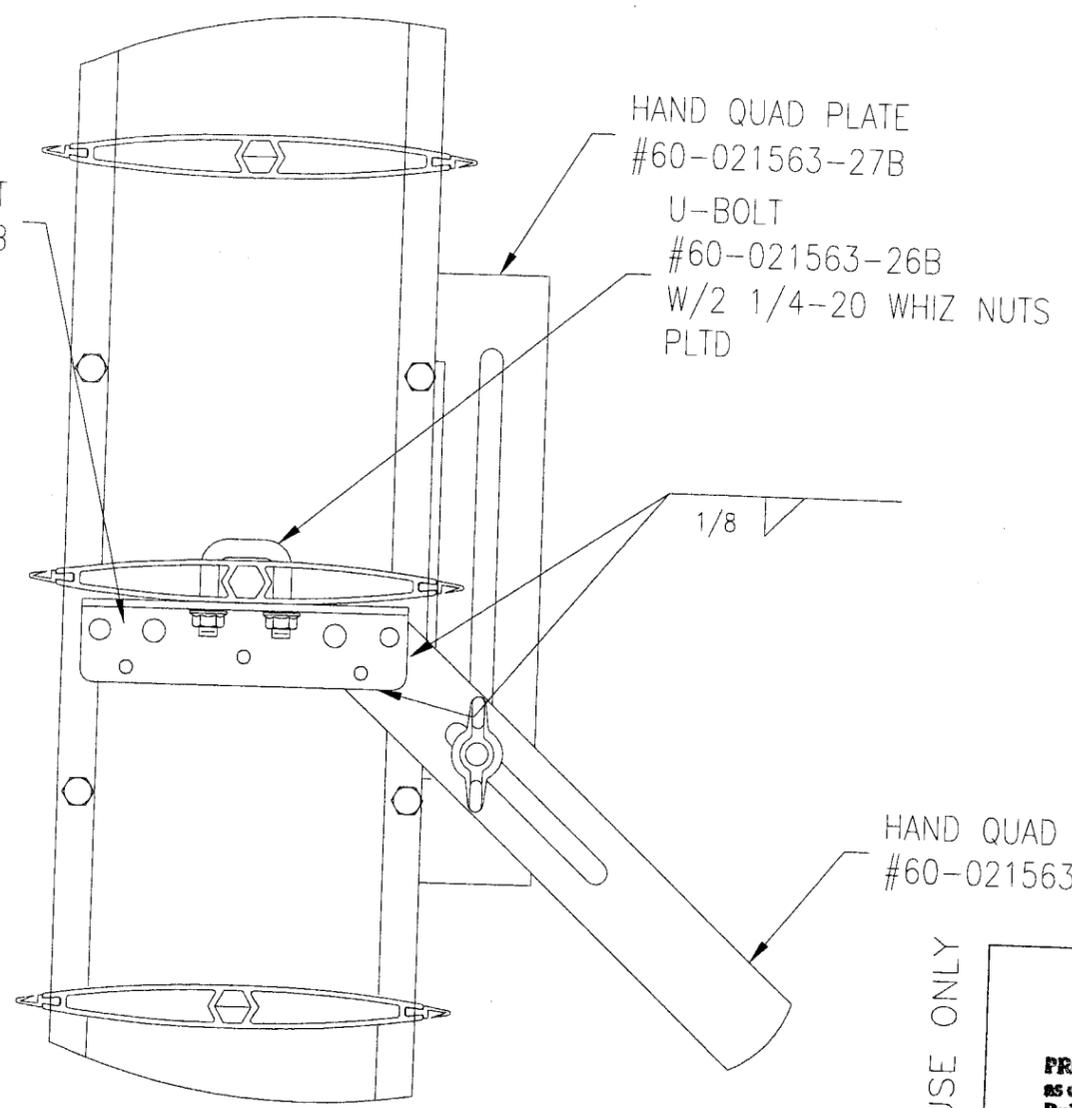
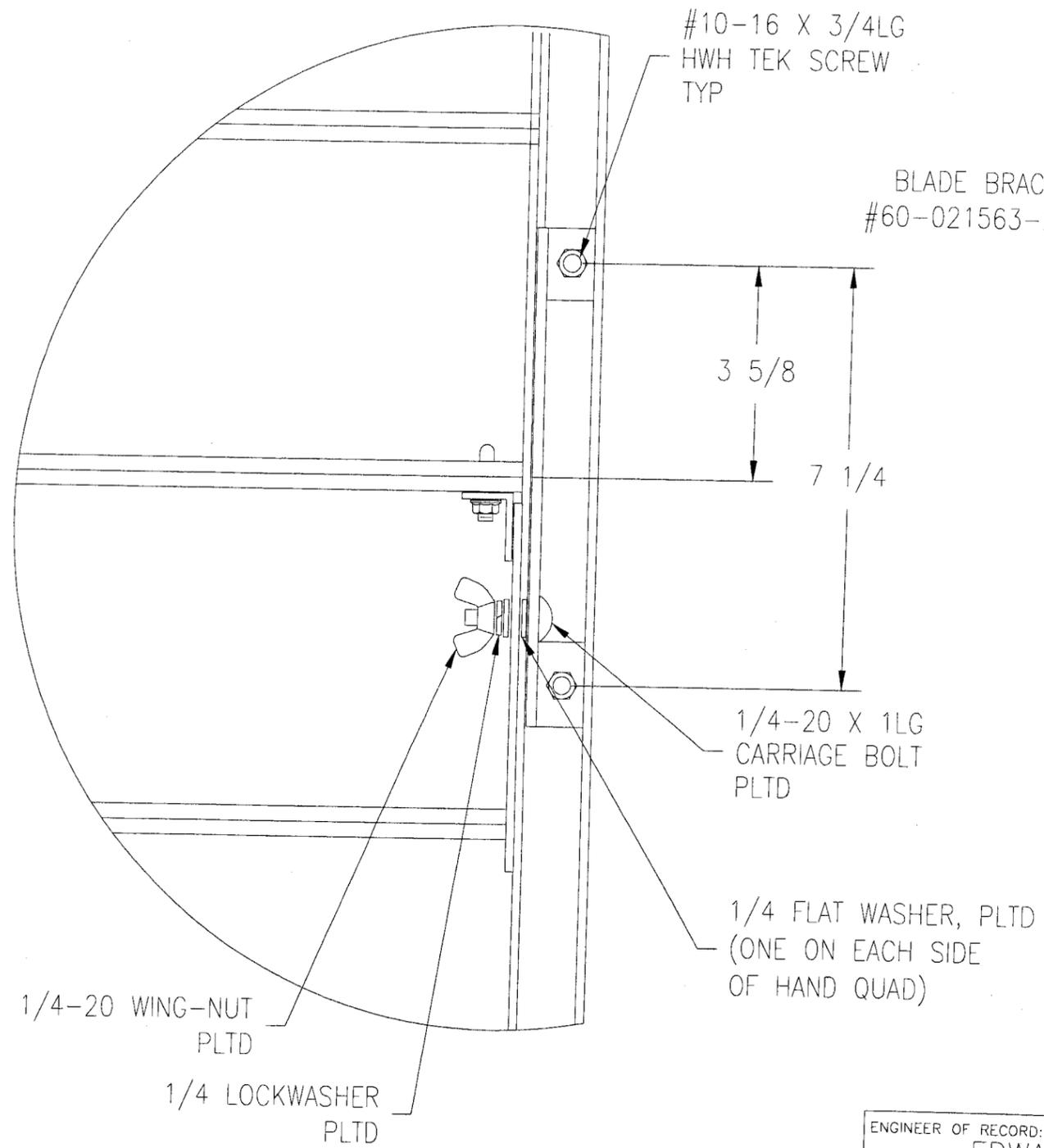
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. DL-0626-01
Expiration Date 01/28/07
By *[Signature]*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. DL-0626-01
Expiration Date 1-28-2012
By *[Signature]*
Miami Dade Product Control
Division

Edward P. Hutson Jr.
7/27/2006

UNLESS OTHERWISE SPECIFIED USE
STANDARD ENGINEERING TOLERANCES

ENGINEER OF RECORD	DADE CO. COMMENTS	RM	VMA	DATE
EDWARD PAUL HUTSON JR.	①			7-31-98
STRUCTURAL ENGINEER	②	GSL	VMA	5-1-98
	③	JAL	VMA	4-17-98
STATE OF FLORIDA #0052339	④			
DATE: 4/2/98	DATE: 4/13/98	DATE: 4/13/98	DATE: 4/13/98	DATE: 4/13/98
DADE COUNTY, FLORIDA	RUSKIN Mfg. Grandview, MD	PROPRIETARY INFORMATION	NONE	
	CD-50	STANDARD DAMPER	ASSEMBLY	60-021563-08D



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 1205-08
 Expiration Date 1-28-2012
 By *[Signature]*
 Miami Dade Product Control
 Division

Edward P. Hutson Jr.
 7/27/2006

FOR OFFICE USE ONLY

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0626-01
 Expiration Date 12/8/07
 By *[Signature]*
 Miami Dade Product Control
 Division

ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.				REMOVED ENGINEERS DATA		JAL	VMA			4-17-98		
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER				CHANGE LETTER		REVISION DESCRIPTION		DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
REGISTRATION #: STATE OF FLORIDA #0052339				RUSKIN Mfg. Grandview, MD		PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	TITLE HAND QUAD CD-50 DAMPER		DWG. NO. 60-021563-23B						
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:									