



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

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

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

Your application for Notice of Acceptance (NOA) of:  
**ELF6375DXD with Optional CD/OD 102**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 01-0328.04**  
**EXPIRES: 07/09/2006**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 05/17/2001**

**Ruskin Manufacturing.**

**ACCEPTANCE No: 01-0328.04**

**APPROVED: MAY 17 2001**

**EXPIRES: 07/09/2006**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

- 1.1** This renews the Notice of Acceptance No. 00-0830.03 that was issued on 02/08/2001. It approves extruded aluminum louvers, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

- 2.1** The **Ruskin louver system** and its components shall be constructed in strict compliance with the following documents: Drawing No. 60-021562-00D, 01D/05D & 13D/15D, titled "ELF6375DXD Louver's Details & Notes" prepared by Ruskin Manufacturing, dated 03/06/98, 03/09/98 & 04/22/98 with last revision C dated 01/11/01. They bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

- 3.1** All permanent set components, included but not limited to embedded anchor bolts, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all time.
- 3.2** This approval applies to applications as shown on the approved drawings
- 3.3** Units with dimensions equal to or smaller than those shown in the approved drawings shall qualify under this approval.
- 3.4** Thermal efficiency of this product is not part of this approval.

**4. INSTALLATION**

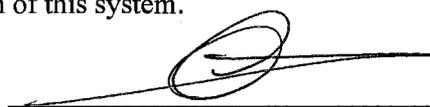
- 4.1** The louvers shall be installed in strict compliance with the approved drawings.
- 4.2** The installation of this product **will not** require a hurricane protection system.
- 4.3** This louver shall only be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water-resistant equipment, components, and supplies.

**5. LABELING**

- 5.1** 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".

**6. BUILDING PERMIT REQUIREMENTS**

- 6.1** Application for building permit shall be accompanied by copies of the following:
- 6.1.1** This Notice of Acceptance.
- 6.1.2** Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3** Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
Candido Font PE., Senior Product Control Examiner  
Product Control Division

**Ruskin Manufacturing.**

**ACCEPTANCE No: 01-0328.04**

**APPROVED: MAY 17 2001**

**EXPIRES: 07/09/2006**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS.**

1. Drawing prepared by Ruskin Manufacturing, titled "ELF6375DXD Louver's Details and Notes" Drawing No. 60-021562-00D, 01D/05D & 13D/15D, dated 03/06/98, 03/09/98 & 04/22/98 with last revision C dated 01/11/01, signed and sealed by E. P. Hutson, PE.

**B. TESTS.**

1. Test report on Large Missile Impact Test per PA 201, Test, Cyclic Wind Pressure Test per PA 203, Test and Uniform Static Air Pressure Test per PA 202 of "Open, Extruded Aluminum Louver Assembly", prepared by Construction Research Laboratory, Inc., report No. 97-1124.22, dated 08/04/2000, signed and sealed by N. S. Balsara, PE
2. Revision to test report NO. 97-1124.22, prepared by Construction Research Laboratory, Inc., dated 12/18/2000, signed and sealed by N. S. Balsara, PE.

**C. CALCULATIONS.**

1. Louver Blade, Mullion & Support Calculations Dade County Louver per DWG. No. 60021680-21D, dated 07/18/00, pages 1 to 21 of 21, prepared by R. H. Wagner, signed and sealed by E. P. Hutson, PE.

**D. MATERIAL CERTIFICATIONS.**

1. Extrusions drawings No. 60-021562-06B/12B, 16B/28B, prepared by Ruskin Manufacturing, on 04/22/98 & 04/23/98, signed and sealed by E. P. Hutson, PE.
2. Product Approval Notice of Acceptance No. 97-1023.04, issued by Miami-Dade County on 07/09/98, signed by C. D. PE.

**E. STATEMENTS**

1. Test compliance letter issued by Construction Research Laboratory, Inc., on 08/04/00, signed a by R. Sembello.
2. Code compliance letter issued by Ruskin Manufacturing on 07/29/97, signed by M. Astourian.
3. No financial Interest letter issued by Ruskin Company, signed by V. M. Astourian and notarized by T. S. Turner on 06/23/99.
4. No change letter issued by Ruskin Manufacturing on 04/14/2001, signed by J. Livingston.

  
Candido Font PE., Senior Product Control Examiner  
Product Control Division

**Ruskin Manufacturing.**

**ACCEPTANCE No: 01-0328.04**

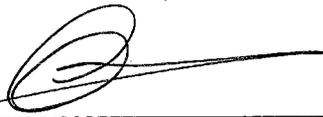
**MAY 17 2001**

**APPROVED: \_\_\_\_\_**

**EXPIRES: 07/09/2006**

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

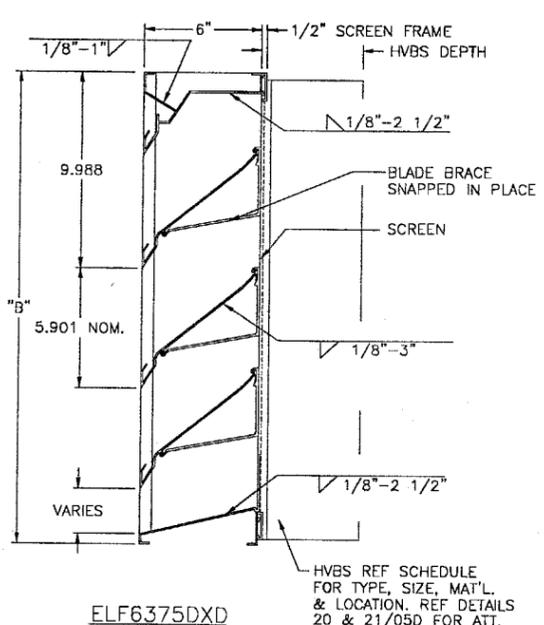
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

  
\_\_\_\_\_  
Candido Font PE., Senior Product Control Examiner  
Product Control Division

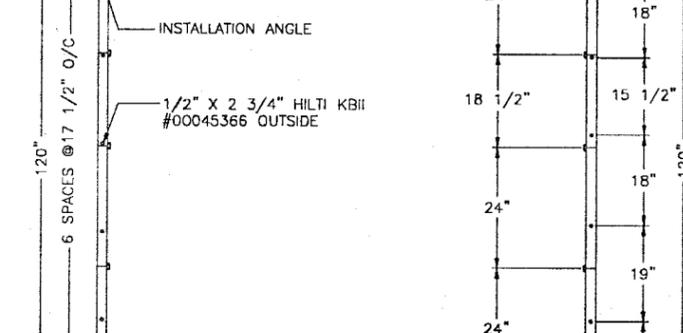
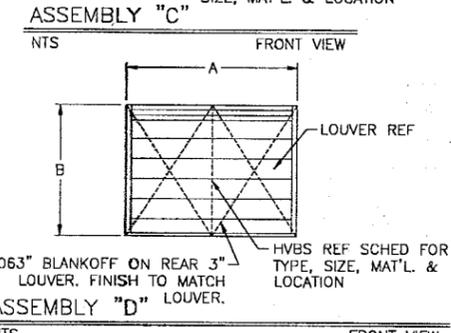
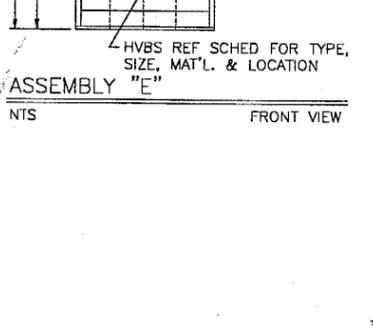
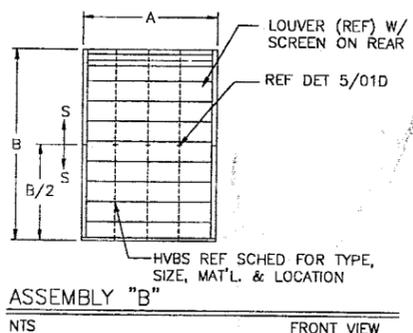
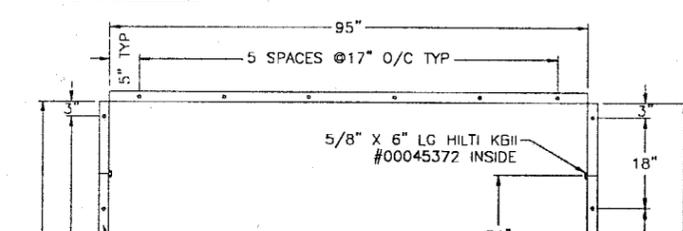
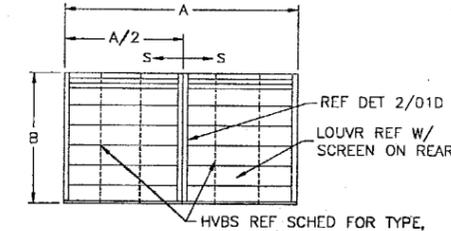
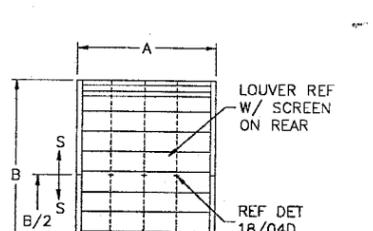
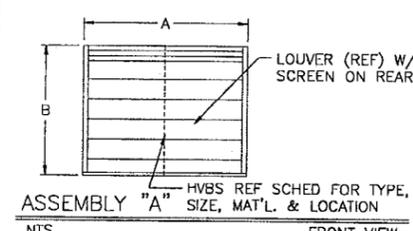
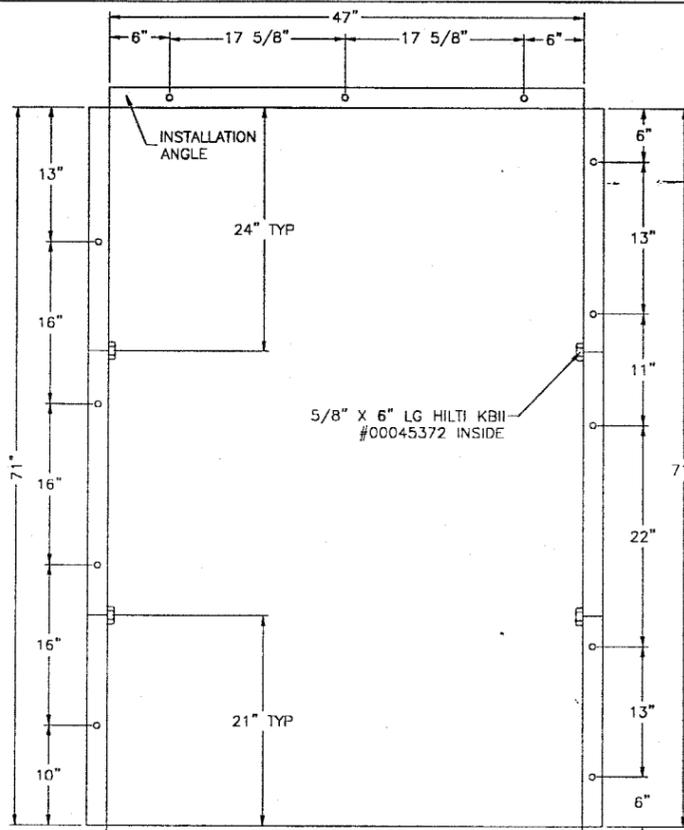
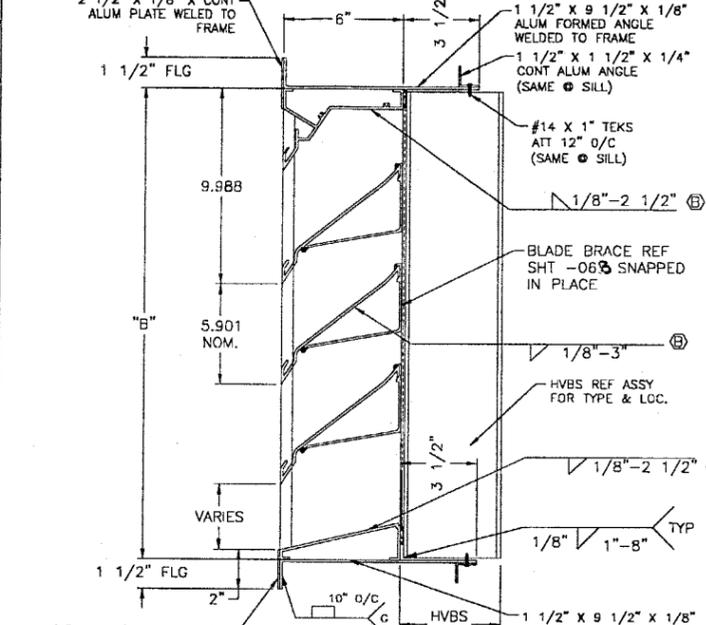
LOUVER SCHEDULE

MODEL	DAMPER REQUIRED BEHIND LOUVER	LOUVER SIZE		O.D. OF SLEEVE SIZE		ROUGH OPENING DIM.		SHIP SECTIONS	ASSY	DETAILS				H.V.B.S.		COLOR	LEGEND	
		"A"	"B"	WIDTH ("A")	HEIGHT ("B")	"c"	"d"			HEAD	JAMB	SILL	TYPE	C-C	QTY			DEPTH
ELF6375DXD	NO DAMPER	47 1/4"	71 1/4"	-	-	48 1/4"	72 1/4"	1	A	11/03D	13 SIM	13/03D	059	23 5/8"	1	6"	MILL	
ELF6375DXD	DAMPER REQUIRED	96 1/4"	117 3/4"	96 1/2"	118"	32 1/2"	97 1/4"	2	E	12/03D	12 SIM	14/03D	04 X 5.4	24 1/8"	3	4"	MILL	③
ELF6375DXD	DAMPER REQUIRED	156"	96"	156 1/4"	96 1/4"	34 1/2"	157"	2	C	7/02D	8/02D	9/02D	02099	28"	4	6"	MILL	③⑥
ELF6375DXD	NO DAMPER	95 1/2"	119"	-	-	-	96 1/2"	2	B	11/03D	13 SIM	13/03D	05 X 6.7	23 7/8"	3	5"	MILL	
ELF6375DXD	NO DAMPER	32 5/8"	61 7/8"	-	-	-	33 5/8"	1	D	17/04D	15/04D	16/04D	087	16 5/16"	1	4"	MILL	⑤
ELF6375DXD (A)	NO DAMPER	251 3/4"	119 3/4"	252"	120"	252 1/4"	120 1/4"	3	F				05 X 6.7	20 15/16"	9	5"	MILL	

FRAME
6063-T5 extruded aluminum with .080" nominal wall thickness.
Flange frame is same material and thickness as above.
BLADES
6063-T5 extruded aluminum with .080" nominal wall thickness. Blades are positioned at 37.5° angle.
SCREEN
3/4" x .051" expanded flat-tened aluminum bird screen.
1/2" mesh x .063" aluminum bird screen.
18-16 mesh alum insect screen.
No screen.
FINISH
Mill.
Kynar (opt).
Baked enamel (modified fluoropolymer, 50% Kynar, opt).
Color Anodize (opt).
Clear Anodize (opt).
Color:
ACCESSORIES
Extended sill.
Clip angles.
Blankoff panel. REF SCHED

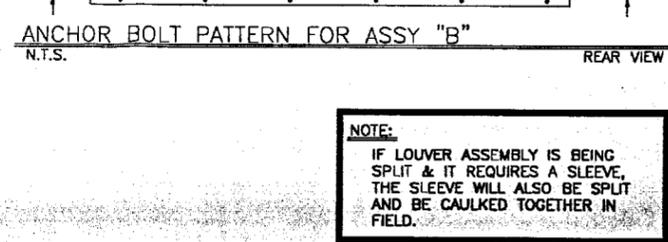


FRAME
6063-T5 extruded aluminum with .125" nominal wall thickness. W/4" x 1" angle rear @ perimeter only.
Flange frame is same material and thickness as above.
BLADES
6063-T5 extruded aluminum with .080" nominal wall thickness. Blades are positioned at 37.5° angle.
SCREEN
3/4" x .051" expanded flat-tened aluminum bird screen.
1/2" mesh x .063" aluminum bird screen. Note 1.
18-16 mesh alum insect screen.
No screen.
FINISH
Mill.
Kynar (opt).
Baked enamel (modified fluoropolymer, 50% Kynar, opt).
Color Anodize (opt).
Clear Anodize (opt).
Color: SEE NOTE #15
ACCESSORIES
Extended sill. REF DETAIL'S
Clip angles.
Blankoff panel.
1 1/2" x 1 1/2" x 1/8" Continuous angles at perimeter



DESIGN PRESSURE RATING
±138 PSF FOR MODEL ELF6375DXD
±148 PSF FOR MODEL ELEG6375DXD
LARGE MISSILE IMPACT RESISTANCE

- NOTES:
- DIMENSIONS SHOWN ARE ACTUAL LOUVER SIZE.
  - LOUVER DESIGN INCORPORATES STRUCTURAL SUPPORTS, ATTACHED TO REAR OF LOUVER TO WITHSTAND VARIOUS WINDLOADS (REF SCHED FOR WINDLOAD PSF) REF SCHEDULE, ASSY, OR PLAN VIEW FOR SIZE, QTY., & LOCATION.
  - ⊙ INDICATES TAG; LETTER= ASSY # SHIP SECTION.
  - H.V.B.S. = HIDDEN VERTICAL BLADE SUPPORT, C-C = CENTER TO CENTER DIM OF HVBS, FOUND ON SCHED QTY. = QUANTITY OF HVBS, FOUND ON SCHEDULE H.H.B.S. = HORIZ HIDDEN BLADE SUPPORT L.D. = LOUVER DIMENSION, L.D.D. = LOUVER DOOR DIMENSION, N.I.R.C. = NOT IN RUSKIN CONTRACT, Q.L.D. = OUT SIDE LOUVER DIMENSION, U.N.D. = UNLESS NOTED OTHERWISE OPP = OPPOSITE, O.S.D. = OUTSIDE SLEEVE DIMENSION P.S.F. = POUNDS PER SQUARE FOOT R.O. = ROUGH OPENING, SIM = SIMILAR, S.D. = SUB-FRAME DIMENSION, S.S. = SHIP SECTION, S.S.D. = SHIP SECTION DIMENSION TYP = TYPICAL
  - NOTCHING OF HVBS AROUND STRUCTURE AND/OR OBSTRUCTIONS IN THE FIELD, SHALL BE THE RESPONSIBILITY OF INSTALLATION CONTRACTOR. IF CONTINUOUS ANGLES AND/OR EXTENDED SILLS ARE ORDERED NOTCHING OF THE ANGLES AND SILLS AROUND OBSTRUCTIONS (HVBS & FIELD CONDITIONS) SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.
  - MULTIPLE SECTION LOUVER/SCREEN ASSEMBLIES REQUIRE FIELD DRILLING OF SUPPORTS, FRAMES AND OPTIONAL CLIP ANGLES BY THE INSTALLATION CONTRACTOR. (N.I.R.C.)
  - SEALING REQUIREMENTS AROUND LOUVERS, BETWEEN ADJOINING SILLS, FRAMES AND WATERSTOPS FOR ARCHITECTURAL STYLE CONTINUOUS BLADE LOUVERS SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.
  - IF BITUMINOUS COMPOUNDS ARE REQUIRED, BETWEEN DISSIMILAR METALS OR LOUVER AND OTHER SURFACES, IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO SUPPLY AND PROPERLY APPLY IT.
  - WHEN CLIP ANGLES ARE ORDERED AS AN OPTION THEY ARE 1 1/2" X 1 1/2" X 1/8" X 2" U.N.O REF. DETAILS AND ARE INSTALLED 24" ON CENTER, 6" FROM CORNERS AND @ SHIP SECTION JOINTS. THE SIZE AND ANCHOR TYPE USED TO FASTEN TO THE STRUCTURE SHALL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD ON THE PROJECT. (N.I.R.C.)
  - REF DWGS: SEE #60-021562-01D THRU 05D FOR DETAILS.
  - SLEEVE JOINT TO HAVE CONTINUOUS WELD & GRIND SMOOTH SO THAT THE WELD DOES NOT REDUCE OPENING
  - ALL EXPOSED EDGES AND SURFACES, WHEN VIEWED FROM FRONT, ARE TO BE PAINTED TO MATCH LOUVER.
- LEGEND
- NOT USED
  - NOT USED
  - CD-102 DAMPERS ARE TO BE INSTALLED BEHIND ELF6375DXD LOUVERS IN A 1/8" THICK ALUMINUM SLEEVE, (REF. SCHEDULE FOR SLEEVE DEPTH) DAMPERS ARE TO BE SHIPPED LOOSE DUE TO SIZE & WEIGHT LIMITATIONS AND INSTALLED IN THE FIELD. REF DRAWING #60-21562-15D FOR CD-102 ASSEMBLIES AND ADDITIONAL INFORMATION.
  - NOT USED
  - REAR OF LOUVER TO BE 100% .063" ALUMINUM BLANKED OFF. FINISH TO MATCH LOUVER.
  - HVBS MEMBER (2-059'S) REQUIRED BEHIND VISIBLE MULLION REF DET 2/01D



NOTE: IF LOUVER ASSEMBLY IS BEING SPLIT & IT REQUIRES A SLEEVE, THE SLEEVE WILL ALSO BE SPLIT AND BE CAULKED TOGETHER IN FIELD.

PRODUCT REVIEWED  
ACCEPTANCE No. 01-082804  
EXPIRATION DATE 07/09/2005  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

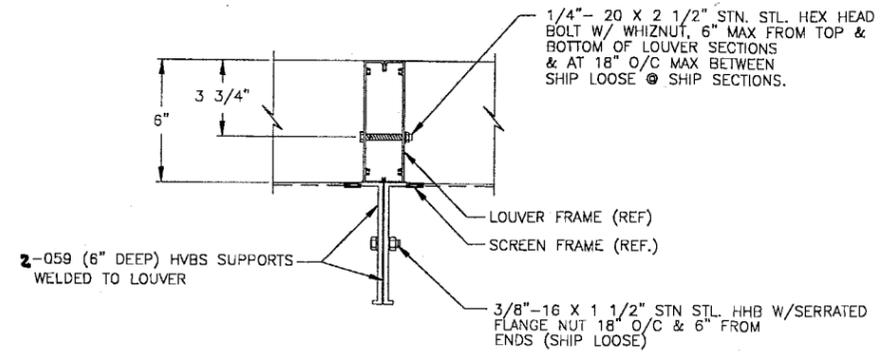
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE February 08, 2001  
BY [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0830.03

ENGINEER OF RECORD	DESIGNING DISCIPLINE	REVISION DESCRIPTION	DATE	BY	DATE
EDWARD PAUL HUTSON JR.	STRUCTURAL ENGINEER	ADDED ASSY 'F' & SPEC		JW	VMA
STATE OF FLORIDA #0052339		RUSKIN Mfg. 3900 Dr. Greaves Rd. Grandview, MO 64030			
JTK	DATE	DATE	DATE	DATE	DATE
DADE COUNTY LOUVERS	ELF6375DXD LOUVER'S SCHED, SPEC'S, ASSY'S & NOTES	NONE			
					60-021562-00D

Edward P. Hutson, Jr.  
01/03/01

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H:\60\021500\60-021562-01D.dwg Thu Jan 11 09:34:24 2001

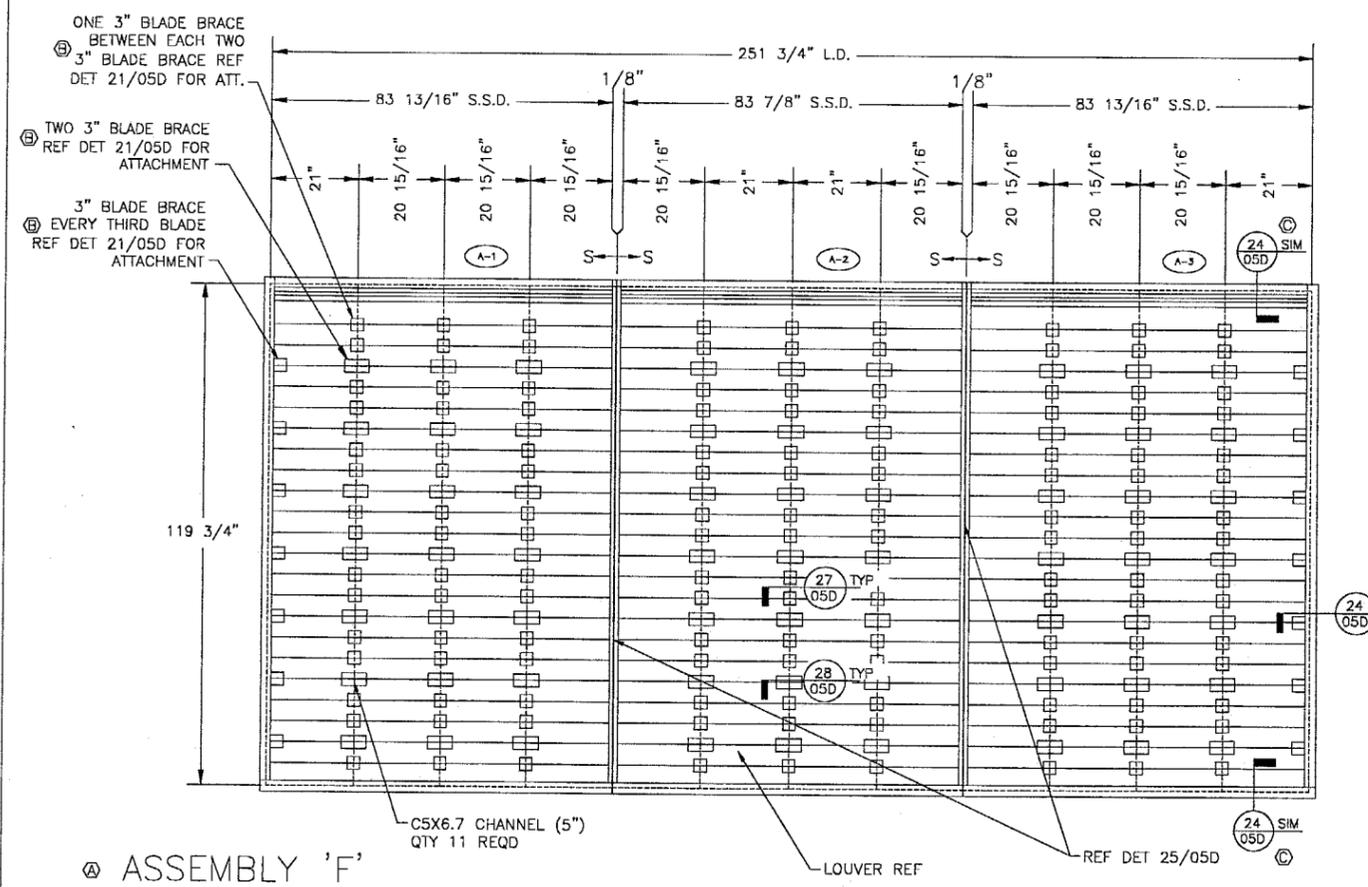


1 NOT USED  
N.T.S.

2 **VISIBLE MULLION CONNECTION DETAIL**  
SCALE: N.T.S.

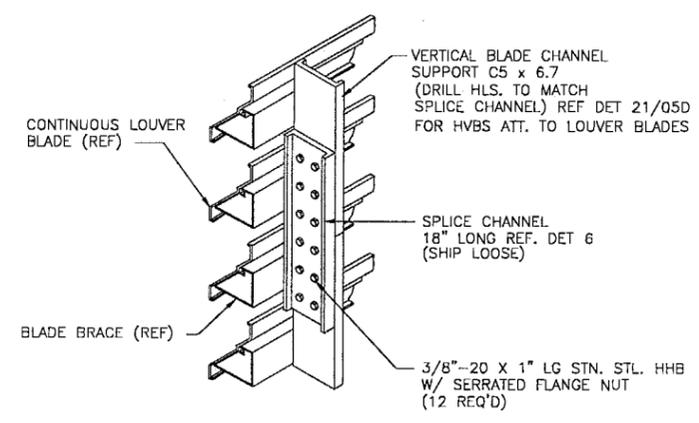
3 NOT USED  
SCALE: N.T.S.

4 NOT USED  
SCALE: N.T.S.

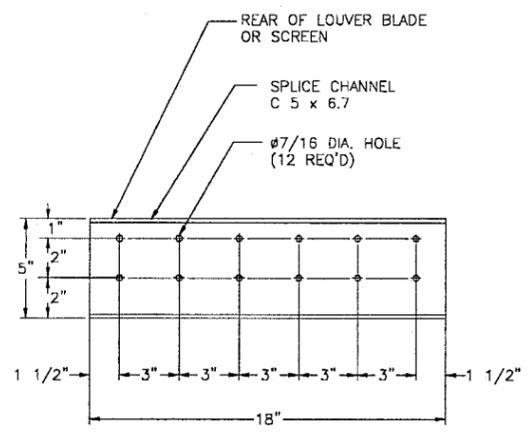


**ASSEMBLY 'F'**  
NTS  
DESIGN PRESSURE RATING 160PSF

FRONT VIEW



5 **C5\"/>**



6 **C5\"/>**

*Edward P Hutson Jr*  
*1/11/2001*

**PRODUCT RENEWED**  
ACCEPTANCE No. 01-0328.04  
EXPIRATION DATE 07/09/2006  
By [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE February 08, 2001  
BY [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0830.03

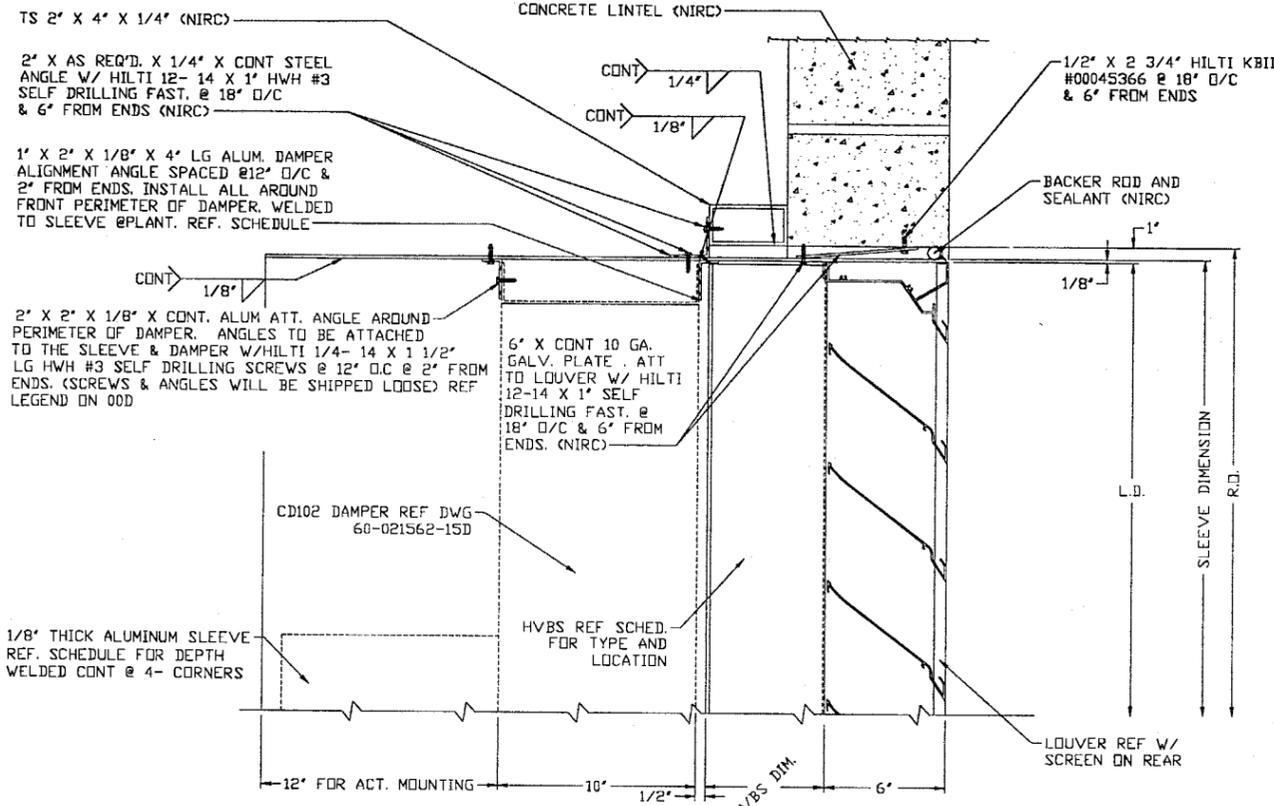
FOR OFFICE USE ONLY

- NOTES:**
- WELD BIRD SCREEN TO SCREEN FRAME @ 12" C-C.
  - THE STRUCTURE 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.

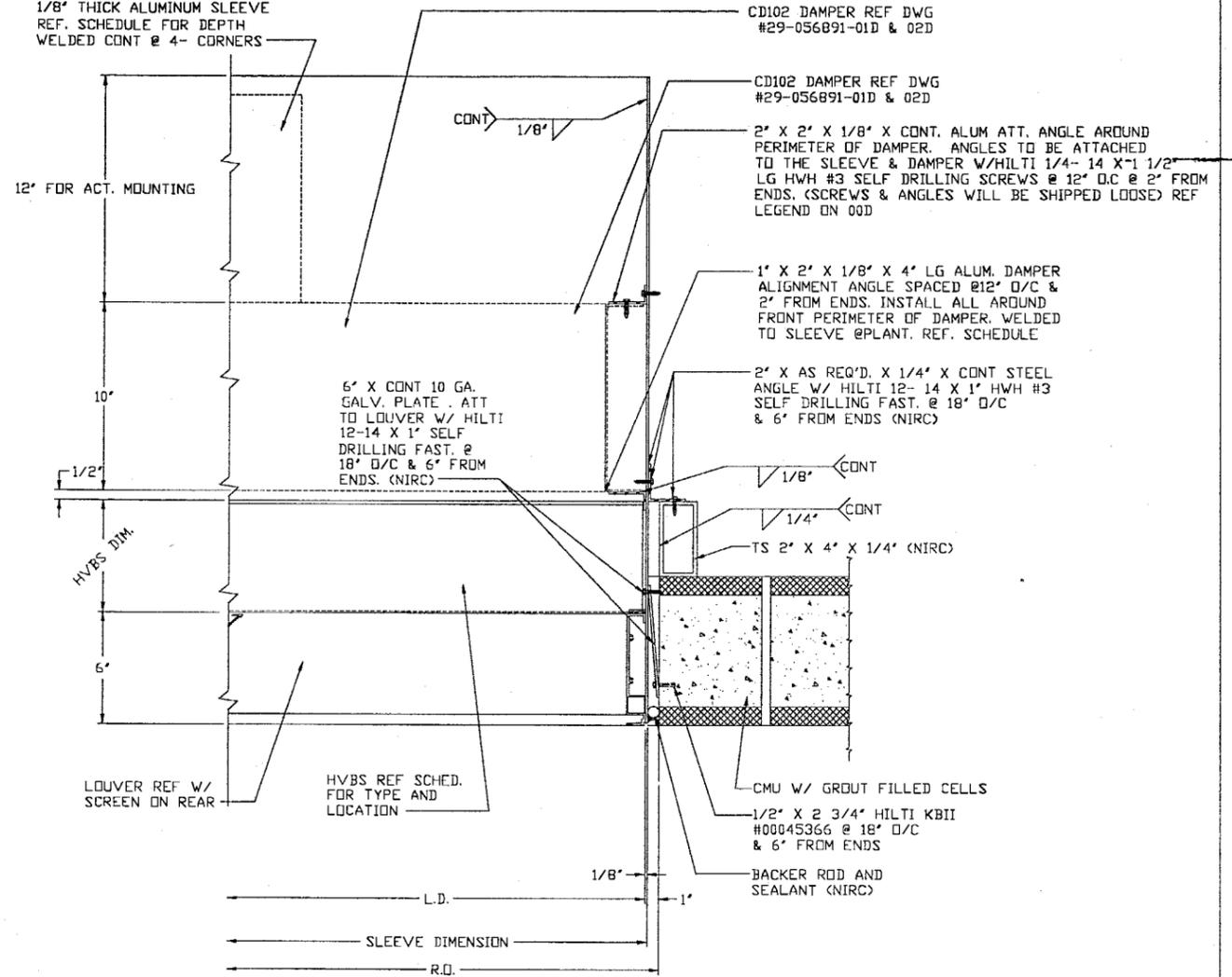
NOTES:  
1) REFERENCE DRAWING #60-021562-000 FOR SCHEDULE, SPECIFICATION'S, ASSEMBLIES, DETAIL'S & ADDITIONAL NOTES

ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.	REVD DET 2/000, ADDED SECTION DETAIL 24/05D	JW	VMA		1/11/01
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER	DET 1/- NOTE USED REVD NOTES ON ASSY 'F'	JW			
REGISTRATION #: STATE OF FLORIDA #0052339	ADDED ASSY 'F'	JW	VMA		10-18-00
DATE: 3-8-98	CHANGE SETTER:	DATE:	REVISION DESCRIPTION:	DATE:	DATE:
BY: JTK	BY:	DATE:	RUSKIN Mfg	DATE:	DATE:
DATE: 3-8-98	DATE:	DATE:	PROPRIETARY INFORMATION	DATE:	DATE:
DADE COUNTY LOUVERS"	FILE: ELF6375DXD LOUVER(S) DETAILS AND NOTES	DWG. NO.:			60-021562-01D

H:\60\021500\60-021562-02D.dwg Fri Dec 15 15:02:12 2000

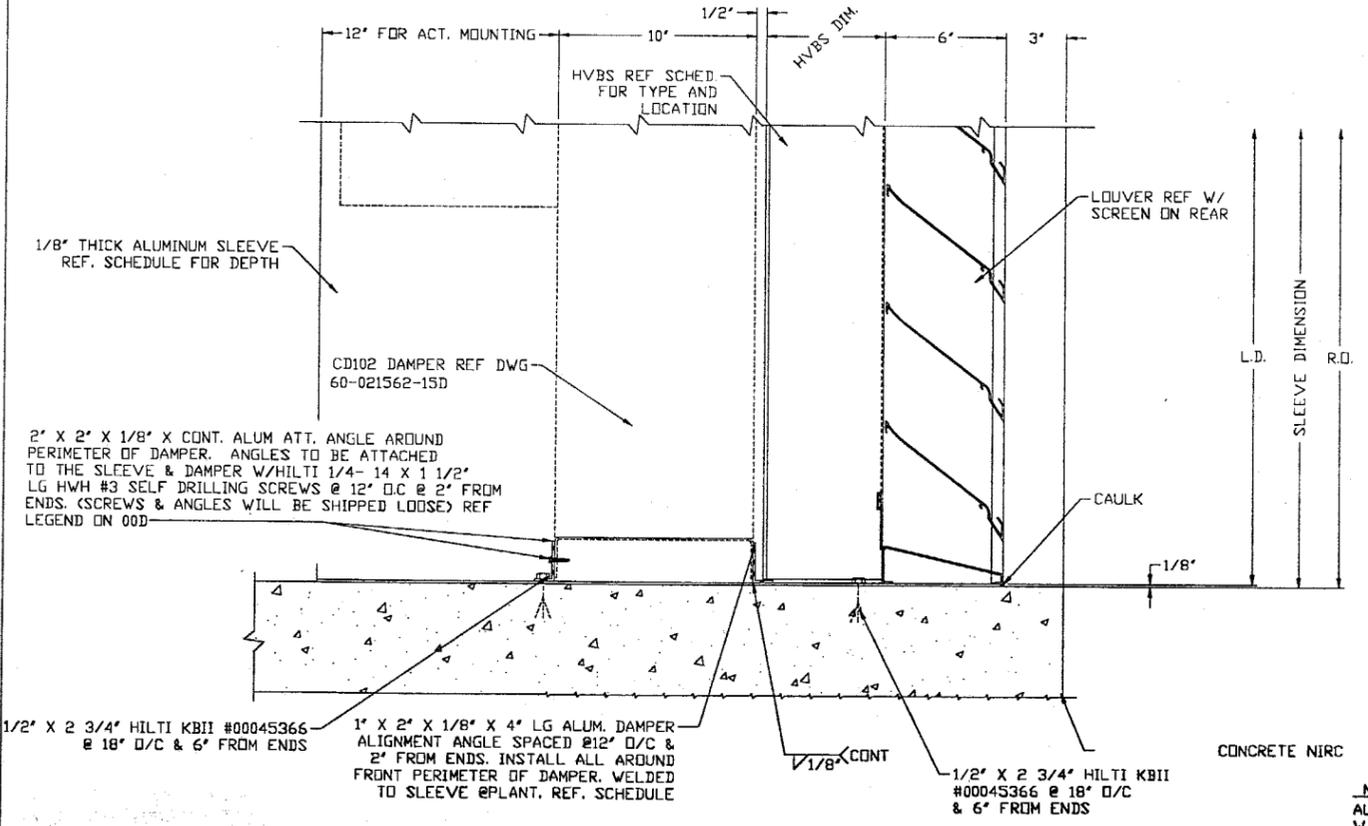


7 SLEEVED LOUVER DETAIL @ HEAD (JAMB SIM)  
 OOD SCALE: 3" = 1'-0"



8 SLEEVED LOUVER DETAIL @ JAMB  
 OOD SCALE: 3" = 1'-0"

10 NOT USED  
 SCALE: N.T.S.



9 SLEEVED LOUVER DETAIL @ SILL  
 OOD SCALE: 3" = 1'-0"

NOTE:  
 ALL STRUCTURAL TUBING SHALL BE CONTINUOUS WELDED W/ 1/4" FILLET WELD ALL AROUND WHERE THEY MEET.

NOTES:  
 1) REFERENCE DRAWING #60-021562-00D FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

PRODUCT RENEWED  
 ACCEPTANCE NO. 01-0328.04  
 EXPIRATION DATE 07/09/2006  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0830.03

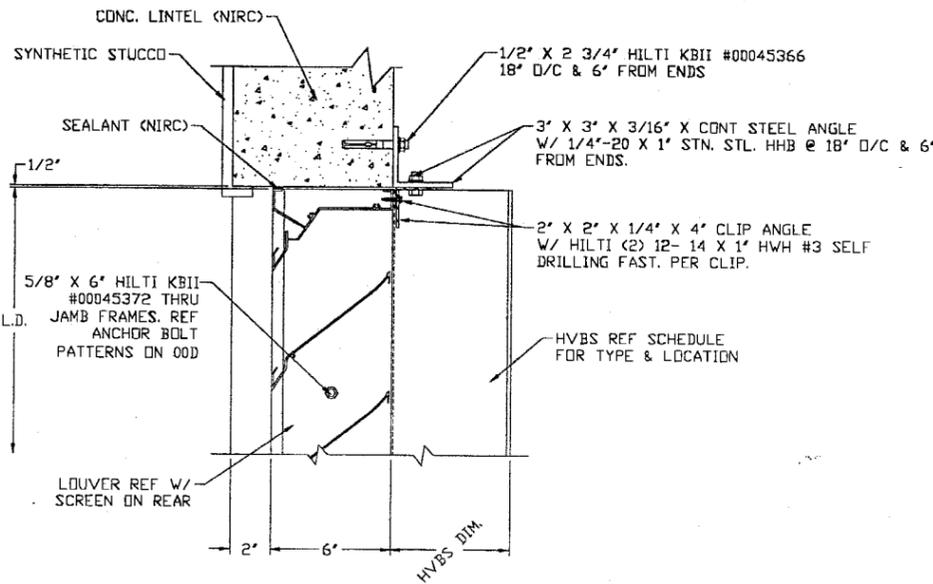
FOR OFFICE USE ONLY

FOR FASTENER LOADS  
 REF. DWG. 60-021562-13D

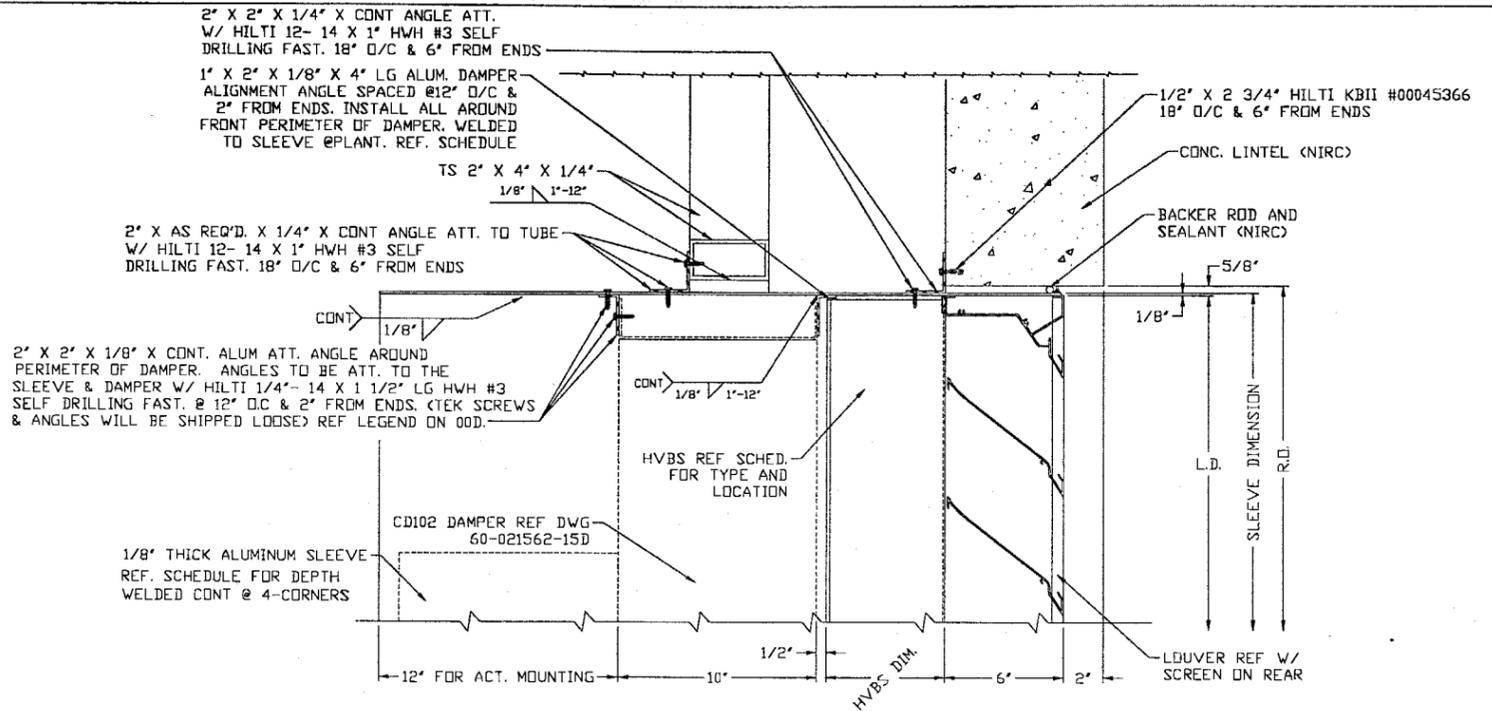
Edward P. Hutson Jr.  
 01/03/01

ENGINEER OF RECORD EDWARD PAUL HUTSON JR.		DISCIPLINE STRUCTURAL ENGINEER		REGISTRATION NO. STATE OF FLORIDA #0052339	CHANGE LETTER	REVISION DESCRIPTION	DATE
SCALE JTK	DATE 3-6-98	APPROVED BY [Signature]	DATE [Date]	APPROVED BY [Signature]	DATE [Date]	PROJECT NO. RUSKIN Mfg 3900 DO Graves RD Grandview, NJ 04030	DATE [Date]
DADE COUNTY LOUVERS		TITLE ELF6375DXD LOUVER'S DETAIL'S AND NOTES		DRAWING NO. 60-021562-02D		DATE [Date]	

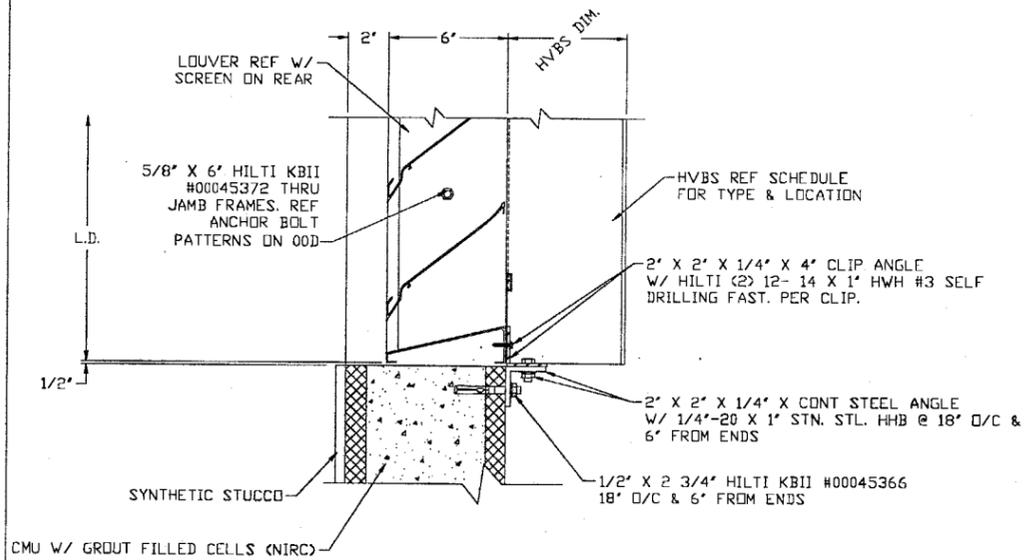
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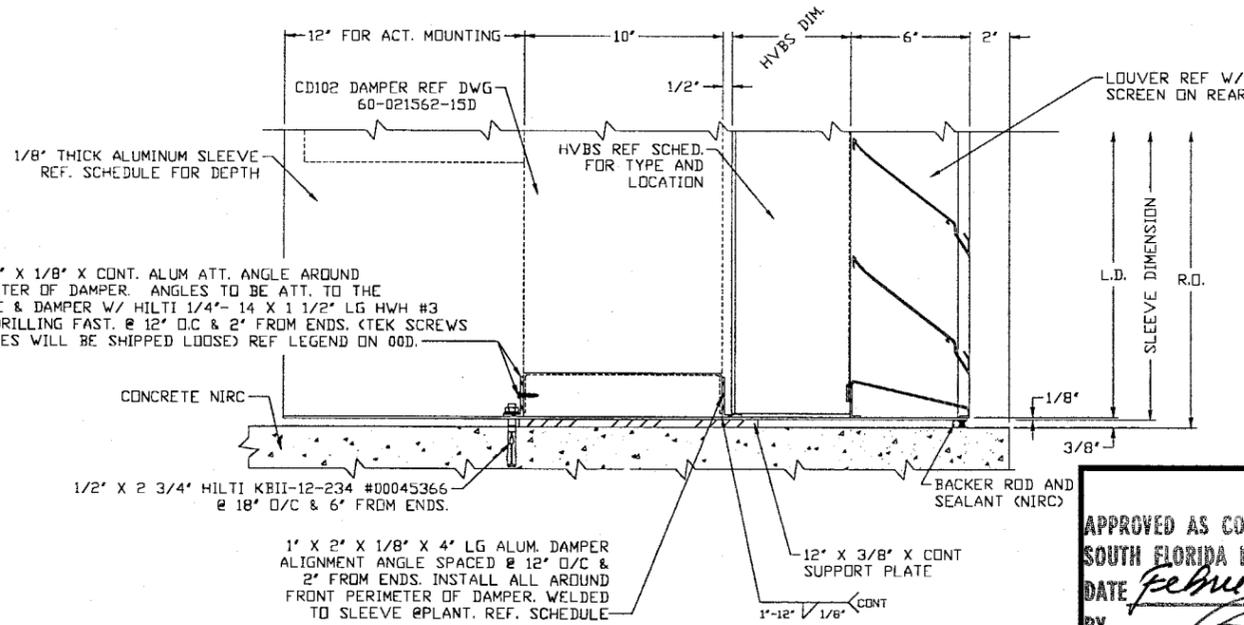
11 LOUVER DETAIL @HEAD  
 OOD SCALE: 3" = 1'-0" REFERENCE DRAWING #60-021562-00D FOR ANCHOR BOLT SPACING



12 SLEEVED LOUVER DETAIL @HEAD (JAMB SIM)  
 OOD SCALE: 3" = 1'-0"



13 LOUVER DETAIL @SILL (JAMB SIM)  
 OOD SCALE: 3" = 1'-0" REFERENCE DRAWING #60-021562-00D FOR ANCHOR BOLT SPACING



14 SLEEVED LOUVER DETAIL @SILL  
 OOD SCALE: 3" = 1'-0"

FOR FASTENER LOADS REF.  
 DWG. 60-021562-13D & 14D

NOTES:  
 1) REFERENCE DRAWING #60-021562-00D FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

*Edward P. Hutson Jr.*  
 01/03/01

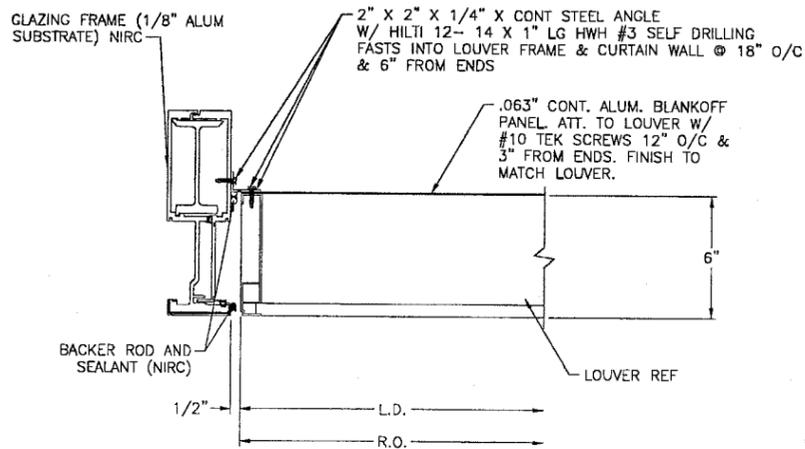
APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0830.03

PRODUCT RENEWED  
 ACCEPTANCE No. 01-0328.04  
 EXPIRATION DATE 07/09/2006  
 By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

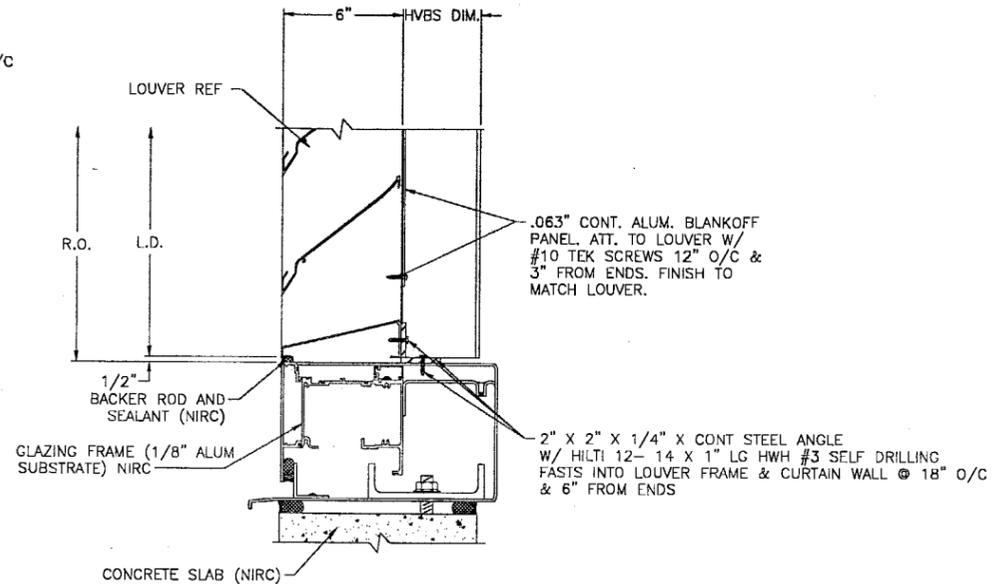
ENGINEER OF RECORD EDWARD PAUL HUTSON JR. STRUCTURAL ENGINEER		CHANGE LETTER	REVISION DESCRIPTION	DATE
REGISTRATION # STATE OF FLORIDA #0052339	DATE 3-6-98	BY JTK	DATE 3-6-98	DATE
DADE COUNTY LOUVERS		RUSKIN Mfg 3900 DR. Graves Rd. Grandview, MO 64030		DATE
TITLE ELF6375DXD LOUVER'S DETAIL'S AND NOTES		DWG. NO. 60-021562-03D		DATE

FOR OFFICE USE ONLY

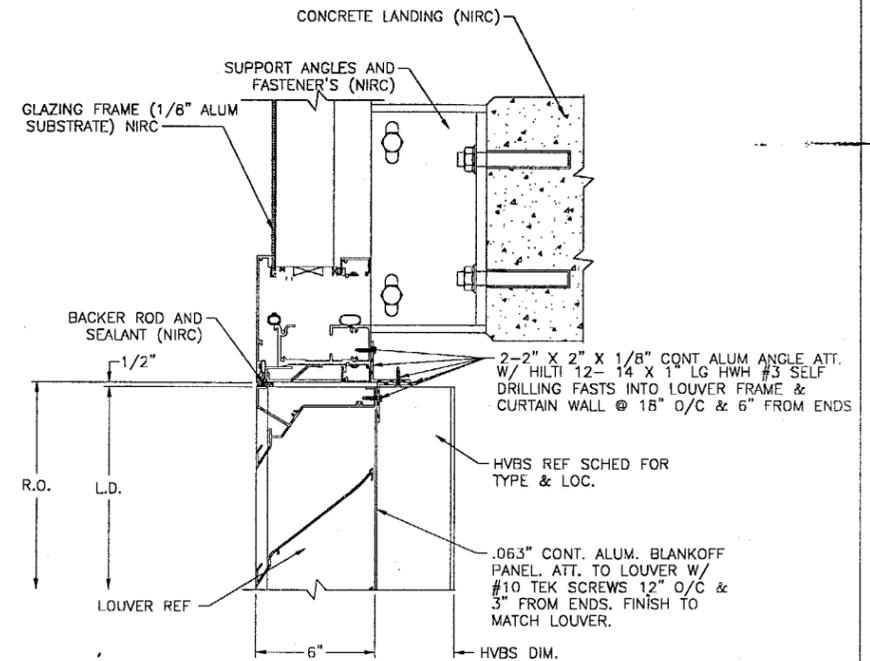
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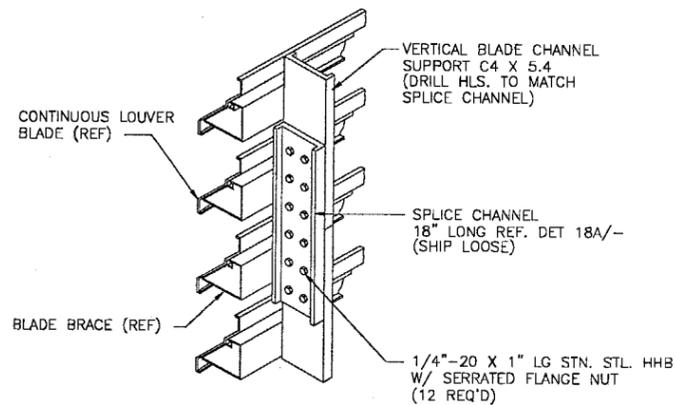
15 LOUVER DETAIL @ JAMB  
 OOD SCALE: 3" = 1'-0"



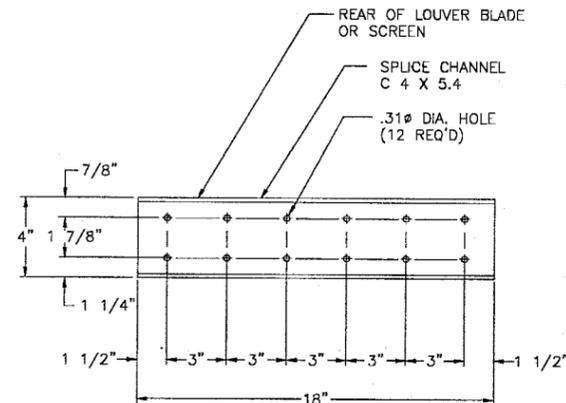
16 LOUVER DETAIL @ SILL  
 OOD SCALE: 3" = 1'-0"



17 LOUVER DETAIL @ HEAD  
 OOD SCALE: 3" = 1'-0"



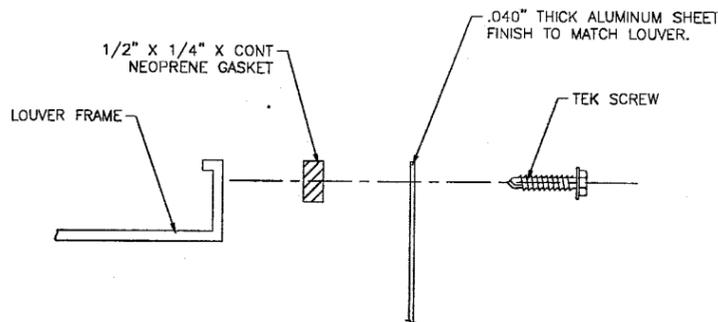
18 C4\"/>
 OOD SCALE: N.T.S.



18A SPLICE CHANNEL DETAIL  
 OOD SCALE: N.T.S.

FOR FASTENER LOADS  
 REF. DWG. 60-021562-14D

*Edward P. Hutson Jr.*  
 01/03/01



19 .040 BLANK-OFF  
 OOD N.T.S.

NOTES:  
 1) REFERENCE DRAWING #60-021562-000 FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

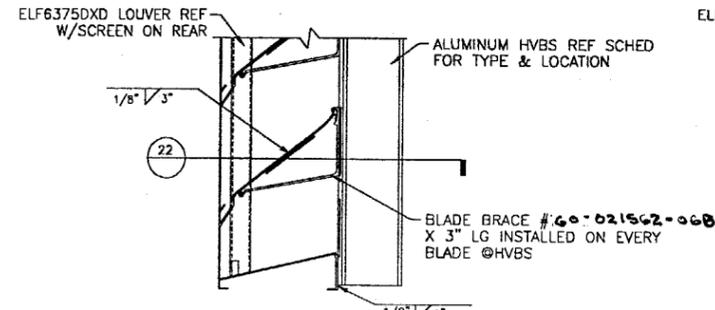
**PRODUCT RENEWED**  
 ACCEPTANCE No. 01-0328.04  
 EXPIRATION DATE 07/09/2006  
 By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0830.03

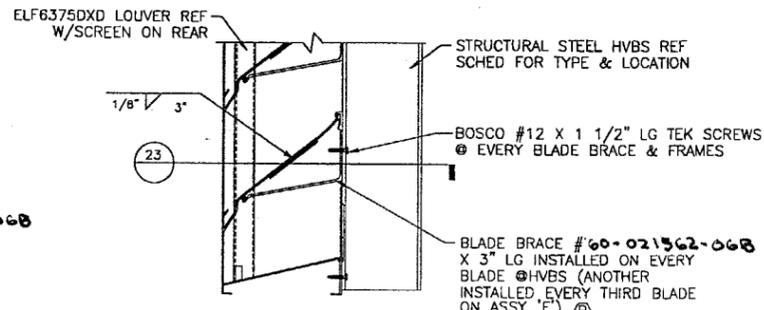
FOR OFFICE USE ONLY

ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.		REVD DET 19/-		JW				
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER		REVISION DESCRIPTION		CHG. NO.	CHG. BY	APPROV. BY	APPROV. DATE	
REGISTRATION #: STATE OF FLORIDA #0052339		RUSKIN Mfg 3900 DR. Graves RD. Grandview, MD 64030		DATE	DATE	DATE	DATE	
DWG. JTK		PROPRIETARY INFORMATION		DATE	DATE	DATE	DATE	
DADE COUNTY LOUVERS		ELF6375DXD LOUVER'S DETAIL'S AND NOTES		PLOT SCALE NONE		DWG. CLIPPED DATE:		
				DWG. NO. 60-021562-04D				

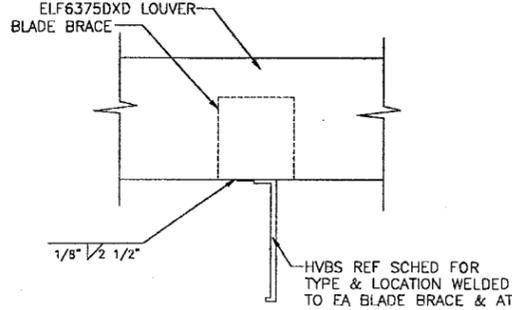
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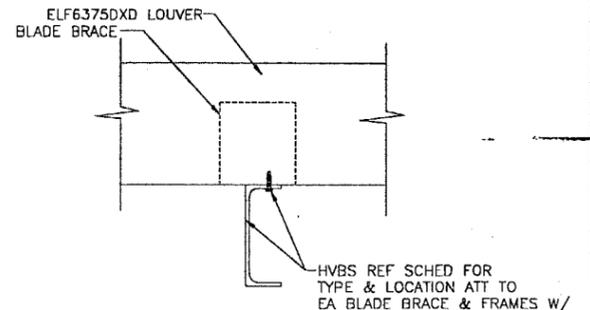
20 LOUVER JAMB DETAIL (W/ALUMINUM HVBS)  
00D N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)



21 LOUVER JAMB DETAIL (W/STRUCTURAL STEEL HVBS)  
00D N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)

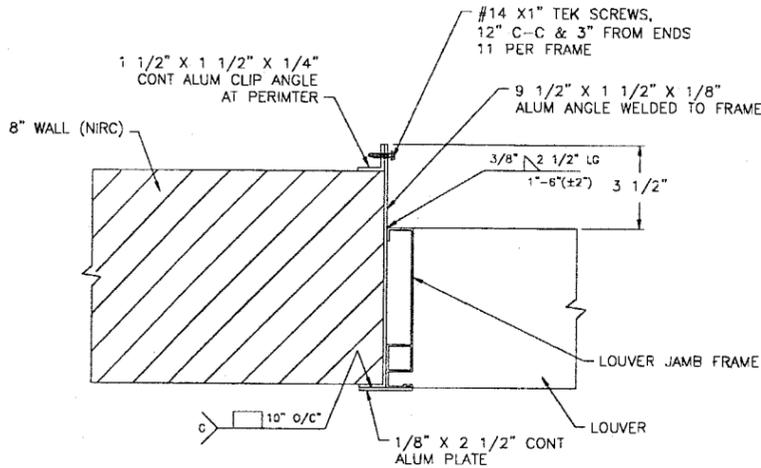


22 SECTION ATT DETAIL THRU ALUMINUM HVBS.  
N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)

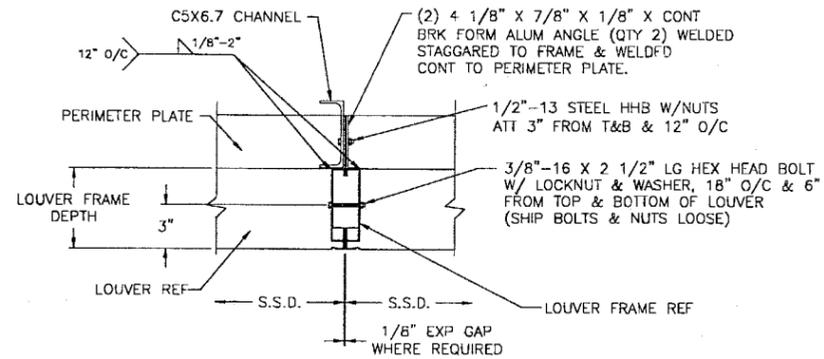


23 SECTION ATT DETAIL THRU STEEL HVBS.  
N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)

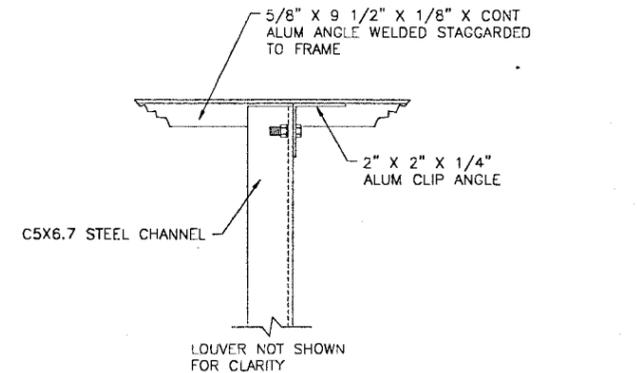
NOTE:  
1) DIMENSION "X" = 2 3/4" FOR 4" DOUBLE DRAINABLE LOUVERS,  
3 3/4" FOR 6" DOUBLE DRAINABLE LOUVERS & 1/2 OF  
LOUVER FRAME DEPTH FOR ALL OTHER LOUVERS.



24 LOUVER @ JAMB DETAIL  
01D N.T.S.

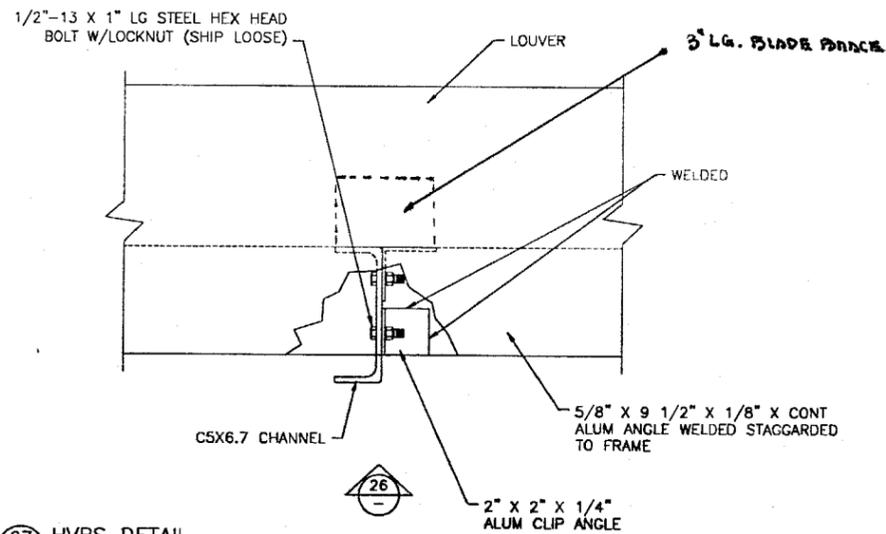


25 VISIBLE MULLION CONNECTION DETAIL  
01D N.T.S.

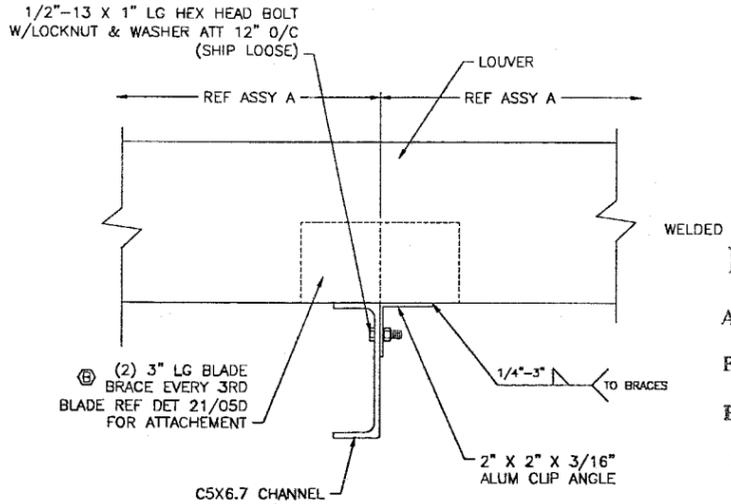


26 HVBS HEAD DETAIL @ ANGLE FRAME (SILL SIM)  
N.T.S. REAR VIEW

*Edward P Hutson Jr*  
01/03/01



27 HVBS DETAIL  
01D N.T.S.



28 HVBS DETAIL  
01D N.T.S.

**PRODUCT RENEWED**  
ACCEPTANCE No. 01-0328.04  
EXPIRATION DATE 07/09/2006  
By: *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

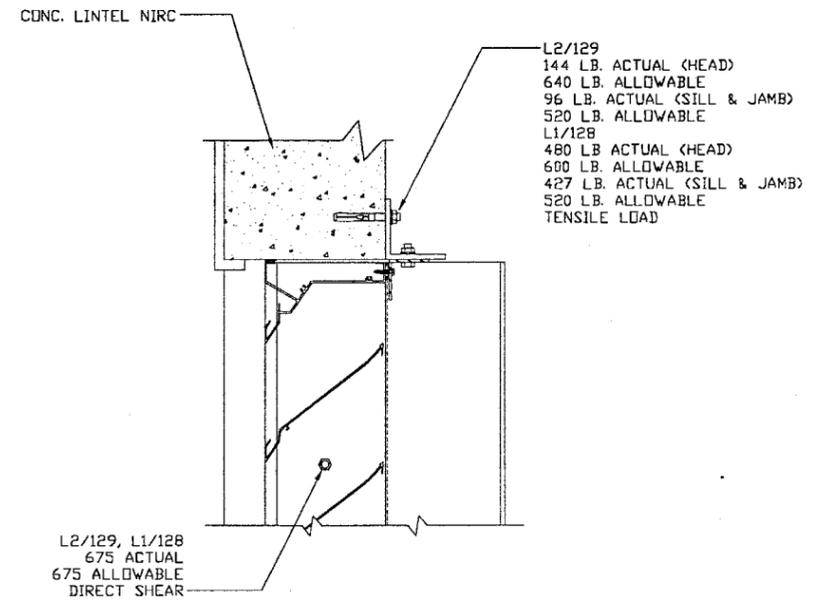
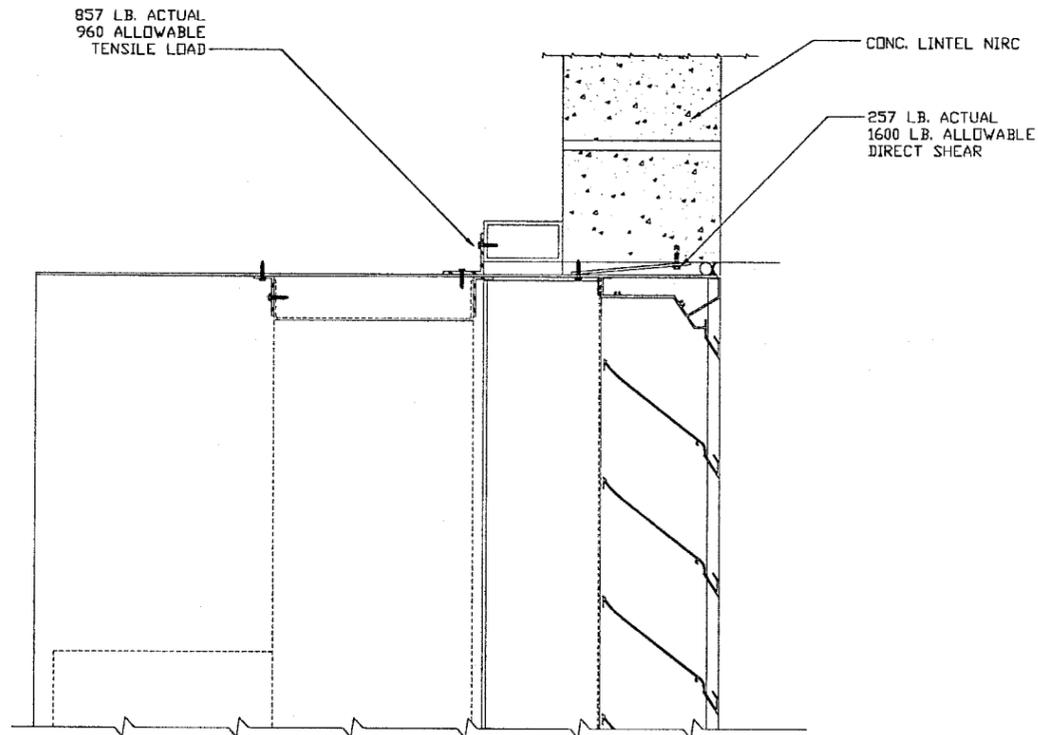
APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE February 08, 2001  
BY: *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0830.03

FOR OFFICE USE ONLY

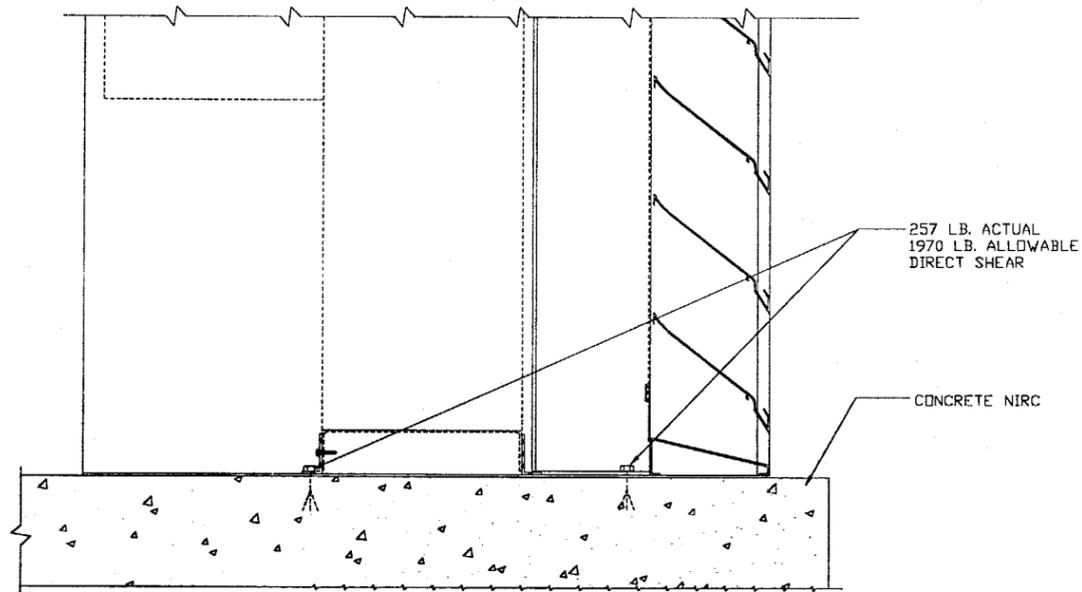
ENGINEER OF RECORD: EDWARD PAUL HUTSON JR.	REVD DET 21/00D & DET 28/01D	JW			
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEER	ADDED DET 24,25,26,27 & 28	JW	VMA		18-18-00
REGISTRATION #: STATE OF FLORIDA #0052339	CHANGE LETTER	REVISION DESCRIPTION	DATE	DATE	DATE
DATE: 3-8-88	DATE: 10/28/98	RUSKIN Mfg	DATE: 10/28/98	DATE: 10/28/98	DATE: 10/28/98
DADE COUNTY LOUVERS	ELF6375DXD LOUVERS DETAILS AND NOTES	PROPRIETARY INFORMATION	NONE		
		FILE NO.			
		60-021562-05D			

NOTES:  
1) REFERENCE DRAWING #60-021562-000 FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES & ADDITIONAL NOTES

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LOUVER DETAIL @HEAD (JAMB & SILL SIM) (138 PSF) REF DET 11 & 13/03D  
 @ ASSEMBLIES A & B



SLEEVED LOUVER DETAILS (JAMB & SILL) (148 PSF) REF DET 7,8, & 9/02D  
 SCALE: 3" = 1'-0"  
 @ ASSEMBLY C

ALLOWABLE TENSION/SHEAR VALUES FOR THE FASTENERS IN 1/8" ALUMINUM ARE PER 'HILTI PRODUCT TECHNICAL GUIDE'

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0328.09

EXPIRATION DATE 07/09/2005

By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

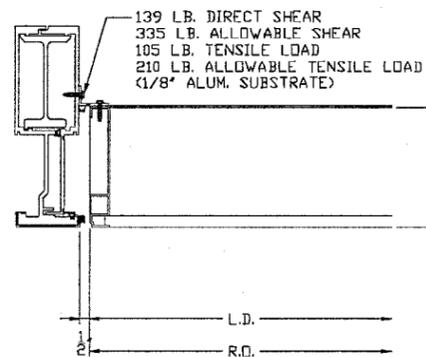
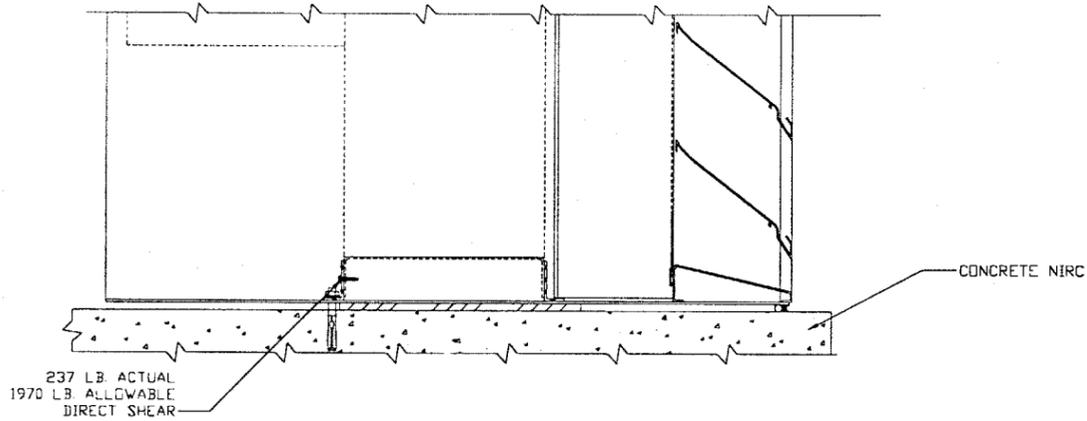
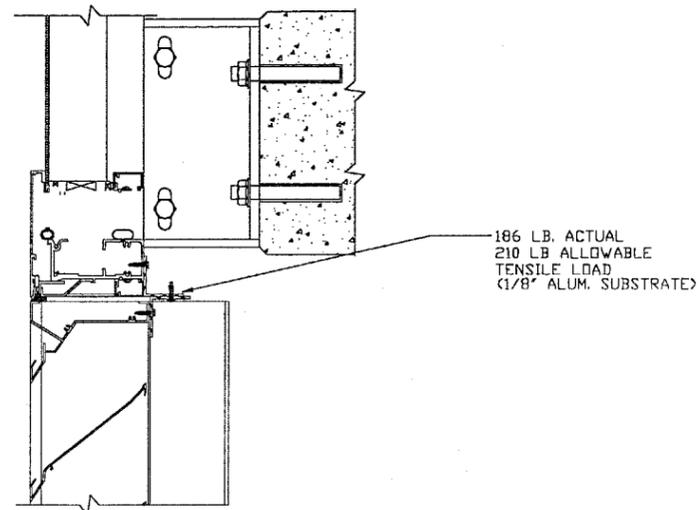
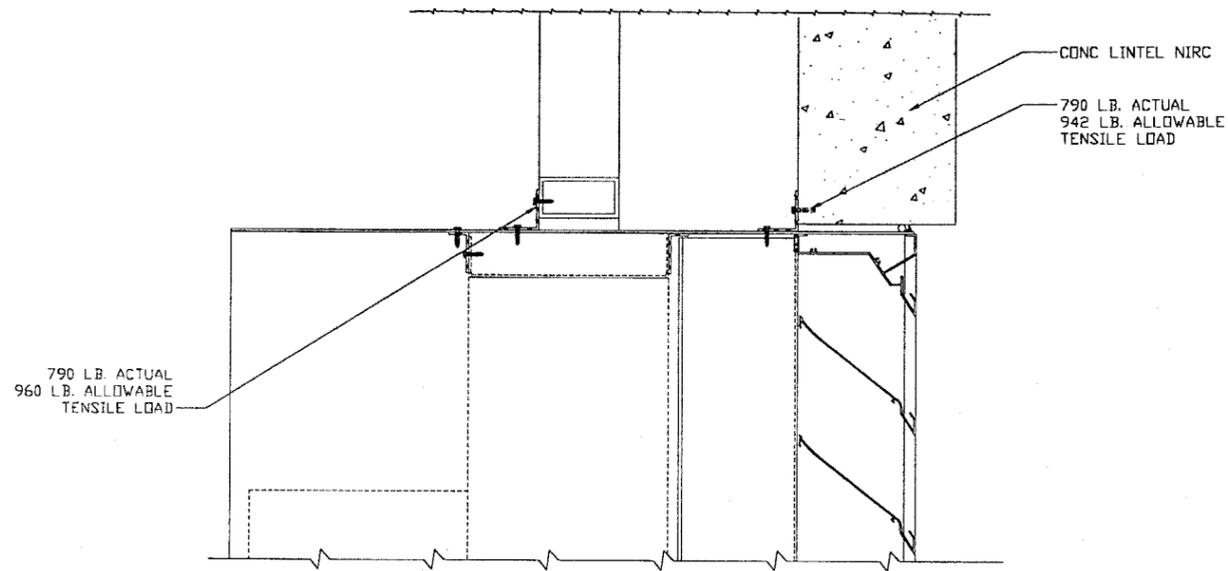
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0830.03

FOR OFFICE USE ONLY

*Edward P. Hutson Jr.*  
 01/03/01

ENGINEER OF RECORD EDWARD PAUL HUTSON JR.		CHANGE LETTER		REVISION DESCRIPTION		DATE	DATE	DATE	DATE
ENGINEERING DISCIPLINE STRUCTURAL ENGINEER		STATE OF FLORIDA #0052339		RUSKIN Mfg. 2900 3rd Groves Rd. Grandview, MO 64030		PROJ. SCALE	DATE	DATE	DATE
BY: JTK	DATE: 3-6-98	BY: [Signature]	DATE: [Signature]	PROPRIETARY INFORMATION		NONE	DATE	DATE	DATE
DADE COUNTY LOUVERS		ELF6375DXD LOUVER'S DETAIL'S AND NOTES		SWS NO.		60-021562-13D			

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**PRODUCT RENEWED**

ACCEPTANCE No. 01-0328.04

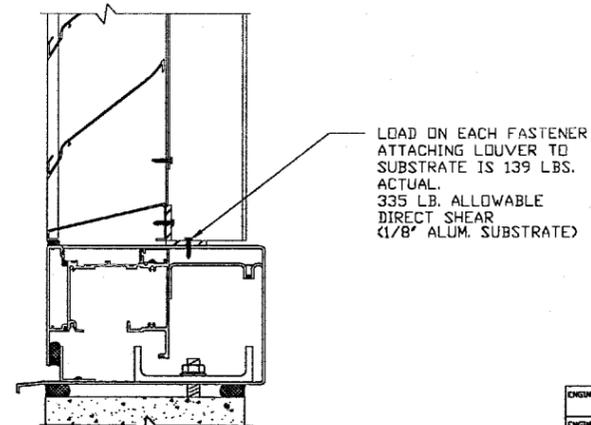
EXPIRATION DATE 07/09/2006

By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

*Edward P. Hutson Jr.*  
 01/03/01

SLEEVED LOUVER DETAILS (JAMB SIM) (138 PSF) REF DET 12 & 14/03D  
 SCALE: 3" = 1'-0"  
 @ ASSEMBLY E

ALLOWABLE TENSION/SHEAR VALUES FOR THE FASTENERS IN 1/8" ALUMINUM ARE PER 'HILTI PRODUCT TECHNICAL GUIDE'



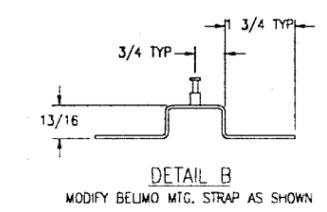
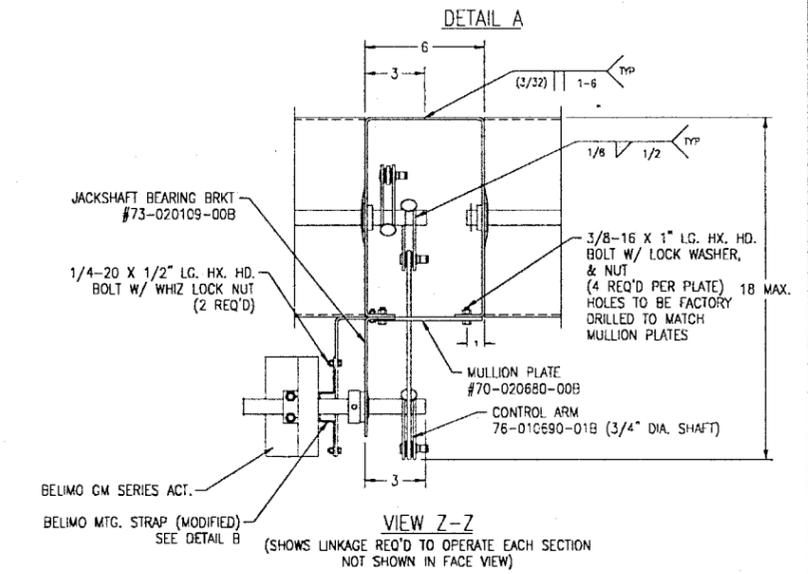
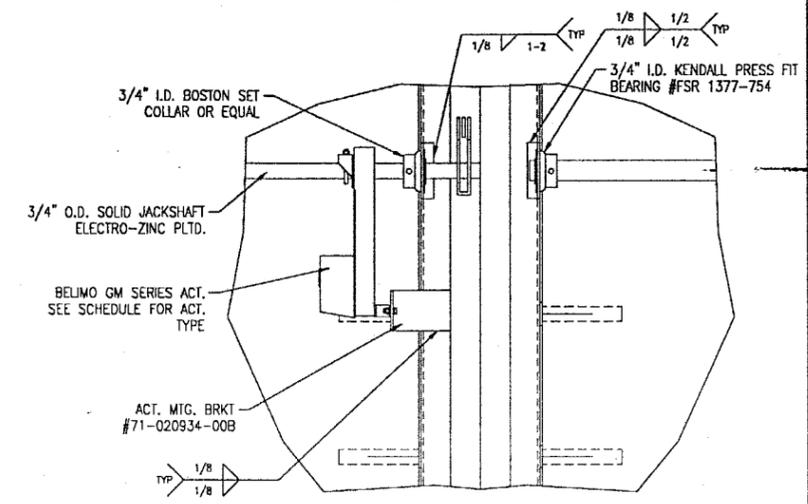
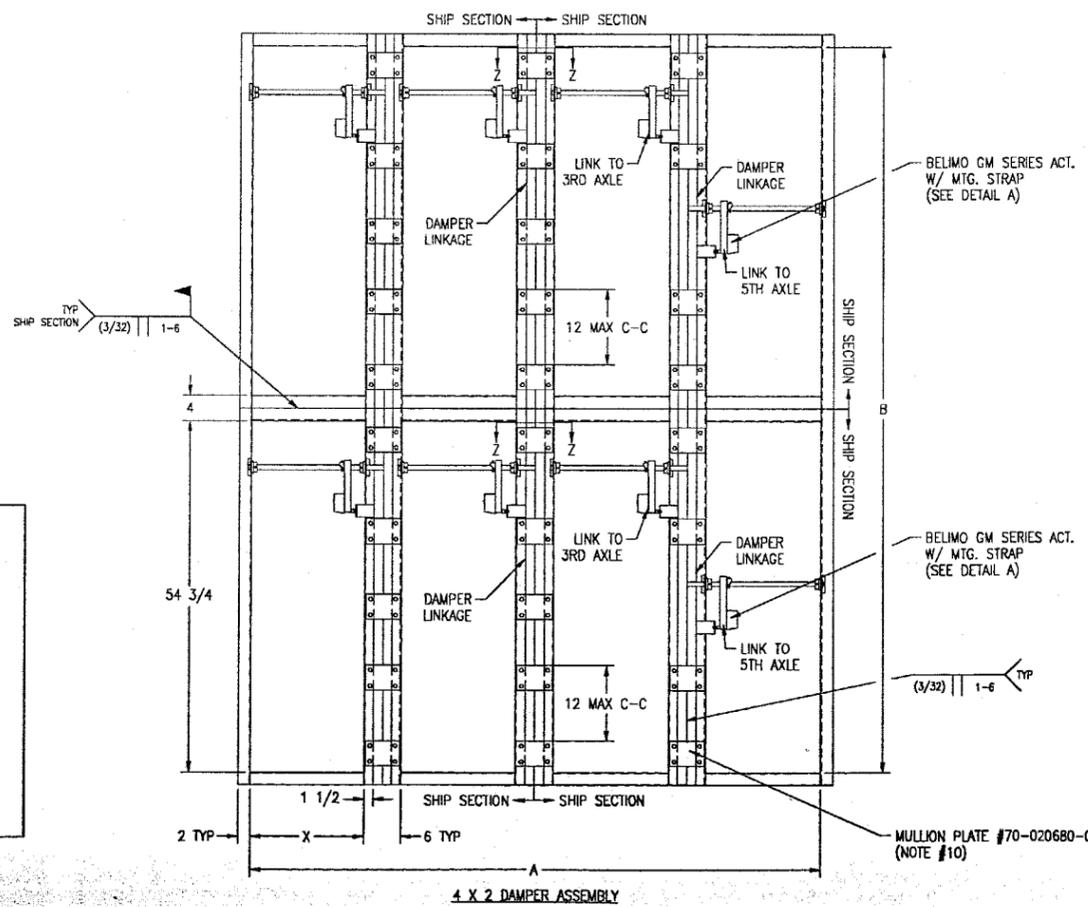
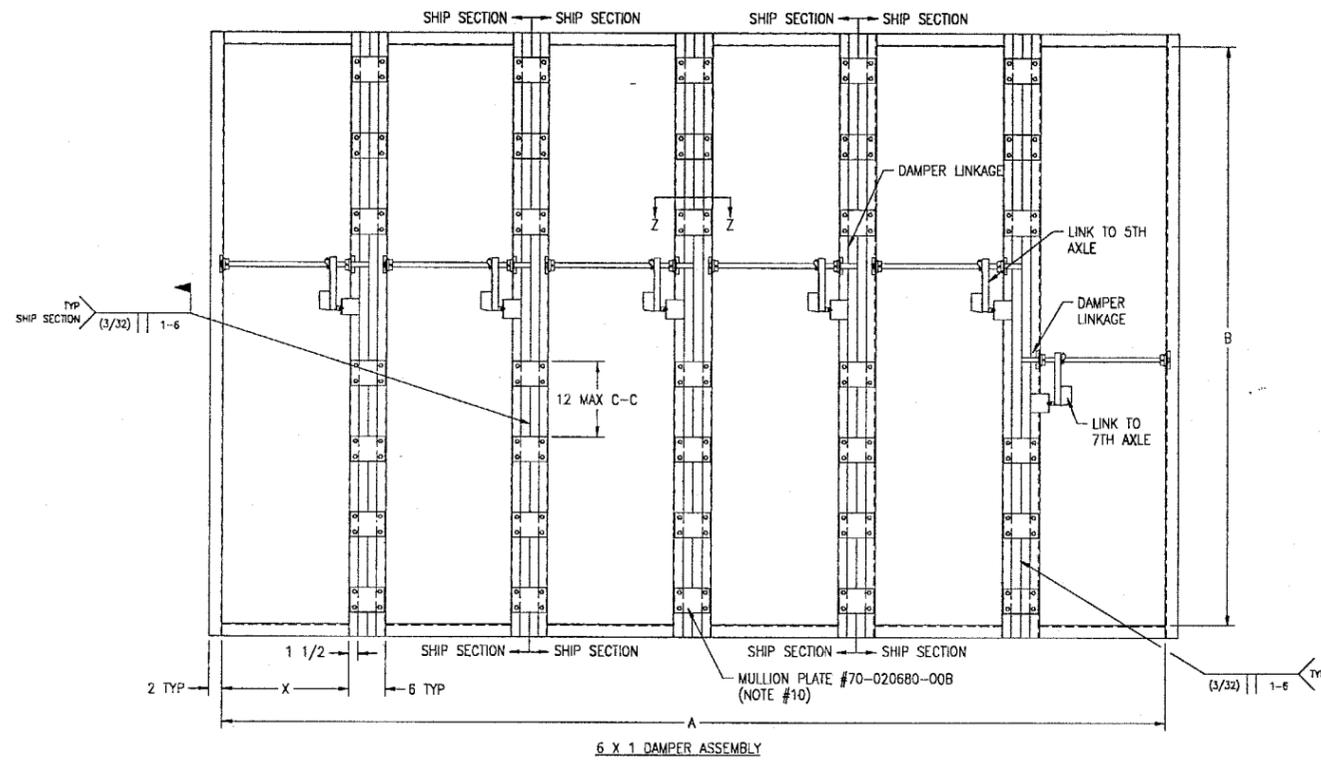
LOUVER DETAILS (138PSF) REF DET 15, 16 & 17/04D  
 SCALE: 3" = 1'-0"  
 @ ASSEMBLY D

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0830.03

ENGINEER OF RECORD EDWARD PAUL HUTSON JR.		DATE LETTER		REVISION DESCRIPTION		DATE	DATE	APPROV. BY	APPROV. BY	DATE	
ENGINEERING RESPONSIBILITY STRUCTURAL ENGINEER		STATE OF FLORIDA #0052339		RUSKIN Mfg 3500 Dr. Graves Rd Grandview, MD 64030		DATE	DATE	DATE	DATE	DATE	
BY: JTK	CHK: JTK	APPV: JTK	APPV: JTK	PROPRIETARY INFORMATION		PLAT SCALE	DATE	DATE	DATE	DATE	
DATE: 3-6-98	DATE: 3-6-98	DATE: 3-6-98	DATE: 3-6-98	DADE COUNTY LOUVERS		NONE	DATE	DATE	DATE	DATE	
TITLE ELF6375DXD LOUVER'S DETAILS AND NOTES		SHEET NO.		SHEET NO.		SHEET NO.		SHEET NO.		SHEET NO.	
										60-021562-14D	

FOR OFFICE USE ONLY

DAMPER SCHEDULE										LOUVER		(NOTE #5)
QTY	A	B	BLD ACT	X	TAG NUMBER	ARRANGEMENT	REQ'D TORQUE PER SECTION	BELIMO ACT. PER SECT.	LOUVER MATCH TAG	SLEEVE I.D. SIZE		
2	151 11/16	91 3/4	OB	20 9/32	AHU-2B MAXIMUM OA INTAKE	6 X 1	257 IN/LBS	GM24	L4/M05	156 X 96		
1	92	113 1/2	OB	18 1/2	MAU'S INTAKE	4 X 2	142 IN/LBS	GM24	L1/144	96 1/4 X 117 3/4		



**PRODUCT RENEWED**  
 ACCEPTANCE No. 01-0328.04  
 EXPIRATION DATE 07/09/2005  
 By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE February 08, 2001  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE No. 00-0830.03

- NOTES:
- SEE SPEC. SHEET FOR DAMPER CONSTRUCTION DETAILS & DIMENSIONS. GALVANIZED FRAME, ALUM. BLADE & PLTD STEEL AXLES.
  - DELETED
  - EACH DAMPER SECTION TO OPERATE INDEPENDENT OF EACH OTHER.
  - TORQUES BASED ON 5" W.G. @ 530 FPM.
  - ALL DAMPERS MUST BE INSTALLED IN SLEEVE IN FIELD AS SHOWN IN DWG. NO. 60-021562-02D & 60-021562-03D.
  - SEE SCHEDULE FOR TYPE OF ACTUATOR TO MOUNT PER DAMPER.
  - BLADE WIDTH 24" MAX. BASED ON LOAD OF 168 PSF WIND LOAD (32.3" W.G.).
  - LINKAGE NOT TO EXTEND PAST DAMPERS OUTSIDE FLANGES. JACKSHAFT MAY BE MOVED (1) AXLE LOWER TO PREVENT THIS.
  - DELETED
  - SPACE MULLION PLATES ON 12" C-C MAX IN DAMPERS 'B' DIM., STRADDLING ALL MOUNTING BRACKETS.
  - ALL DAMPERS TO BE PROVIDED W/ STN. STL. JAMB SEALS 80-012019-00B & SILICONE BLADE SEALS 80-008170-01A.

DRAWING NO. 60-021562-15D		DATE 02/22/98		REV. 1		REV. 2		REV. 3		REV. 4		REV. 5		REV. 6	
DRAWING DESCRIPTION		DATE		BY		CHECKED		APPROVED		DATE		SCALE		SHEET NO.	
STATE OF FLORIDA #0052339		02/22/98		RUSKIN Mfg. GrandView, MO		NONE		NONE		NONE		NONE		NONE	
DADE COUNTY LOUVERS		CD102		DAMPER ASSEMBLY		60-021562-15D									

*Edward P. Hutson Jr.*  
 01/03/01

FOR OFFICE USE ONLY

UNLESS OTHERWISE SPECIFIED USE STANDARD ENGINEERING TOLERANCES

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