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**FIELD ASSEMBLY
AND
INSTALLATION INSTRUCTIONS
FOR
EXTRUDED ALUMINUM
STATIONARY LOUVERS**

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FIELD ASSEMBLY AND INSTALLATION INSTRUCTIONS FOR EXTRUDED ALUMINUM STATIONARY BLADE LOUVERS

This booklet is provided to offer basic assembly and installation instructions for standard Ruskin extruded aluminum stationary blade louvers. While these instructions should be useful for most standard models and applications, "special" louver designs or installation conditions may not be covered. If job-specific submittal/shop drawings were generated for the order, refer to them for special field assembly and installation details. Ruskin louvers are designed to withstand 20 psf windloads unless otherwise instructed. Since Ruskin louvers may be installed in a variety of substrates, installation fasteners to anchor the louver to the substrate are typically not designed or provided by Ruskin. Consult the Engineer of Record on your project for the size, type and quantity of fasteners required.

RECEIVING/INSPECTION

Upon delivery, inspect shipping containers and contents closely. If shipping containers are damaged, contents could also be damaged. Note any damage on trucker's delivery receipt. Contact the freight company within 24 hours for inspection. All products are shipped f.o.b. Ruskin plant; receiver of the shipments is responsible for filing freight claims with the freight company.

STORAGE

Store in an orderly manner at a safe location away from construction traffic, material, etc. to prevent damage. Cover with plastic sheeting to protect from excessive moisture, dirt and debris.

DRAWING EXPLANATION

This booklet contains several drawings that are provided for use in field assembly of multiple section louvers. Field assembly generally consists of joining frames and hidden vertical blade supports (HVBS) together. The style of construction dictates what type and how many of these joint connections are required. Ruskin extruded stationary blade louvers are constructed in two typical construction types: Visible Mullion and Architectural Style. Visible Mullion construction is typical with most drainable blade models. This construction utilizes perimeter frames and side frames on all louver sections. They may or may not have intermediate top and bottom frames on all sections. Architectural Style construction is typical with most non-drainable models. This construction utilizes frames only at the perimeter of the louver. Frames are not used on intermediate section joints. Both construction types typically utilize intermediate HVBS members within individual sections for windload support.

After the assembly and installation sections, exploded views of Visible Mullion and Architectural Style construction louvers with detail drawing callouts are provided. Following the exploded drawings are the detail drawings they reference which depict the louver frame and HVBS connections required for each. Identify which type of louver construction applies to your order and utilize the appropriate details to assemble the louvers.

PRE-ASSEMBLY

1. Remove louvers and accessories from shipping containers and inspect for damage. Single section units will be shipped fully assembled. Multiple section units will be shipped in shipping sections to be assembled at the job site. Large multiple section units may be packaged in more than one shipping crate. Reference the crate identification tags and bill of lading to determine crate contents. Care must be taken when handling components. Lift louver sections carefully by the supports or frames; avoid lifting by the louver blades. Do not apply excessive force to any one point of the section. Lift at multiple points, if necessary, to avoid deformation or racking of components.
2. Inspect louvers and components after removal from containers. Verify that all components and fasteners are accounted for. Use the exploded drawings and details found in this booklet to identify parts. Report any shortages immediately to the Ruskin plant that manufactured the louver(s).
3. Inspect the openings that the louvers will be installed in. Verify that the openings are square and that the unit will fit prior to installation. Check available installation depth for possible HVBS interference. **IF HVBS must be notched or modified for installation, secure the HVBS to a suitable substrate as close to the modification as possible to maintain structural integrity.** Contact your local Ruskin representative if you have questions pertaining to this or other field modifications.

SINGLE SECTION INSTALLATION

1. Install head and/or extended sill flashing in opening, if applicable (fasteners not provided by Ruskin). Caulk the heads of penetrating fasteners and any flashing joints.
2. If perimeter clip or continuous angles are utilized in installation, locate and anchor them in the opening.
3. Place the louver assembly in the opening.
4. Using shims, level the louver assembly both horizontally and vertically in the opening (shims are not provided by Ruskin). Position the louver in the opening so that the desired sealant joint will be maintained around the perimeter.
5. When louver is level and in proper position, install fasteners through the installation angles into the louver. If the louver is to be installed with fasteners through the frames into substrate or with glazing adapters into window frames, make these connections now.
6. After louver is secured, install backer rod and sealant around louver perimeter (backer rod and sealant is not provided by Ruskin).

MULTIPLE SECTION ASSEMBLY/INSTALLATION

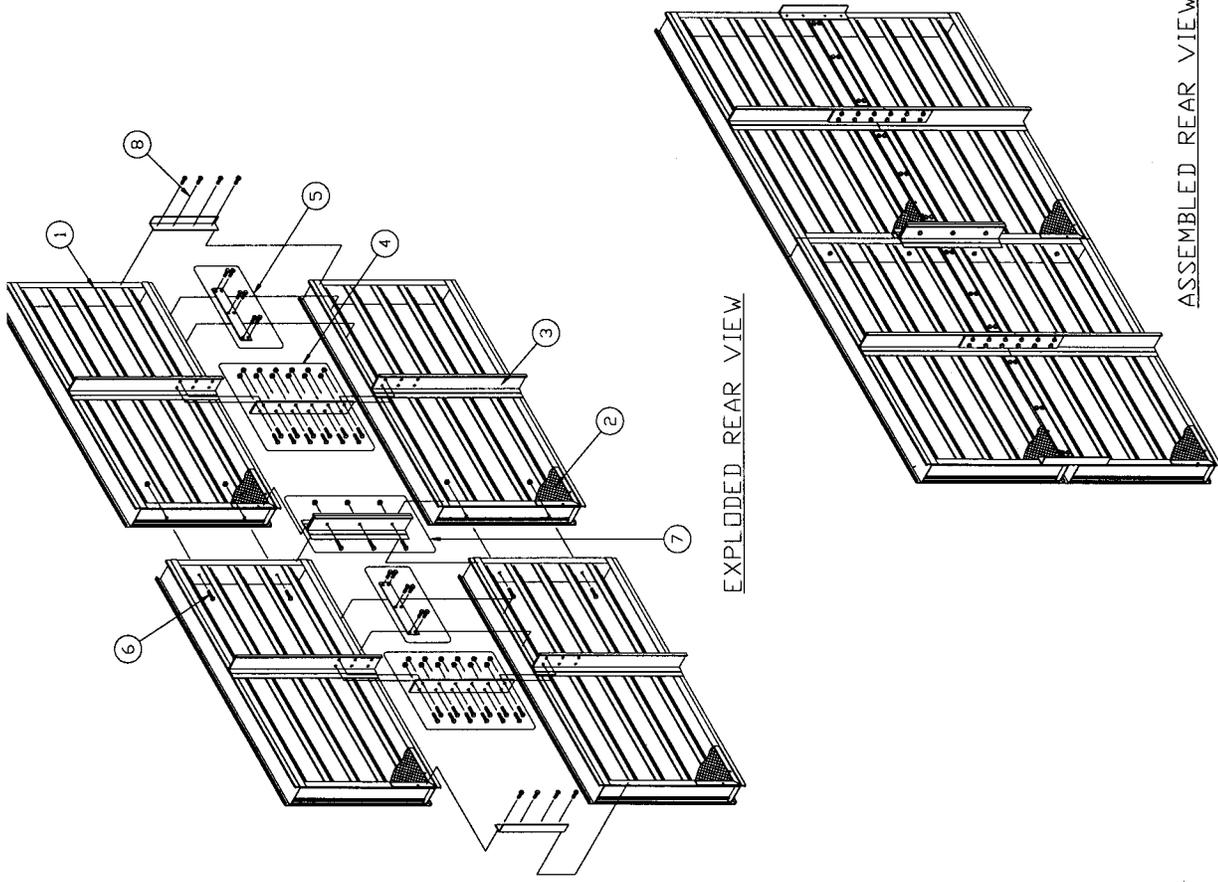
1. Install head and/or extended sill flashing in opening, if applicable (fasteners not provided by Ruskin). Long lengths of flashing will be provided in sections. Apply a continuous bead of caulk at heads of penetrating fasteners and any section seam where moisture could seep.
2. Locate loose-shipped hardware required for louver assembly.
3. Position the louver sections face down on a level, non-abrasive surface in the configuration they will be assembled in. Reference the tag numbers on each section to ensure the sections are in the correct order.
4. Fasten the sections together at the frame and HVBS joints. Refer to appropriate exploded and detail drawings in this booklet for splice hardware identification and location.
5. If perimeter clip or continuous angles are utilized in installation, locate and anchor them in the opening.
6. Carefully lift the assembled louver and place it in the opening. **Be careful to lift by frames and HVBS members only; do not lift by louver blades.**
7. Using shims, level the louver assembly both horizontally and vertically in the opening (shims are not provided by Ruskin). Position the louver in the opening so that the desired sealant joint will be maintained around the perimeter.
8. On architectural style units, check blade alignment at the vertical joints. Loosen section-connecting hardware and adjust the position of the sections as required to achieve good blade-to-blade alignment. When alignment is complete, tighten all section-connecting hardware.
9. When louver is level and in proper position, install fasteners through the installation angles into the louver. If the louver is to be installed with fasteners through the frames into substrate or by glazing adapters into window frames, make these connections now.
10. After louver is secured, install backer rod and sealant around louver perimeter (backer rod and sealant is not provided by Ruskin). Also apply backer rod and sealant at section joints where possible.

LEGEND

- ① LOUVER SECTION
- ② BIRD OR INSECT SCREEN (PARTIAL VIEW)
- ③ HIDDEN VERTICAL BLADE SUPPORT (H.V.B.S.)
- ④ HVBS SPLICE PLATE & FASTENERS, REF. DETAIL 163
- ⑤ HORIZONTAL FRAME SPLICE PLATE & FASTENERS, REF. DETAIL 904
- ⑥ VISIBLE VERTICAL MULLION SPLICE BOLT & NUT, REF. DETAIL 143 (SEE NOTES BELOW)
- ⑦ VISIBLE VERTICAL MULLION SPLICE MEMBER & FASTENERS (2 X 2 ASSEMBLY ONLY), REF. DETAIL 300
- ⑧ PERIMETER FRAME SPLICE ANGLE & FASTENERS (BY OTHERS) REF. DETAIL 165

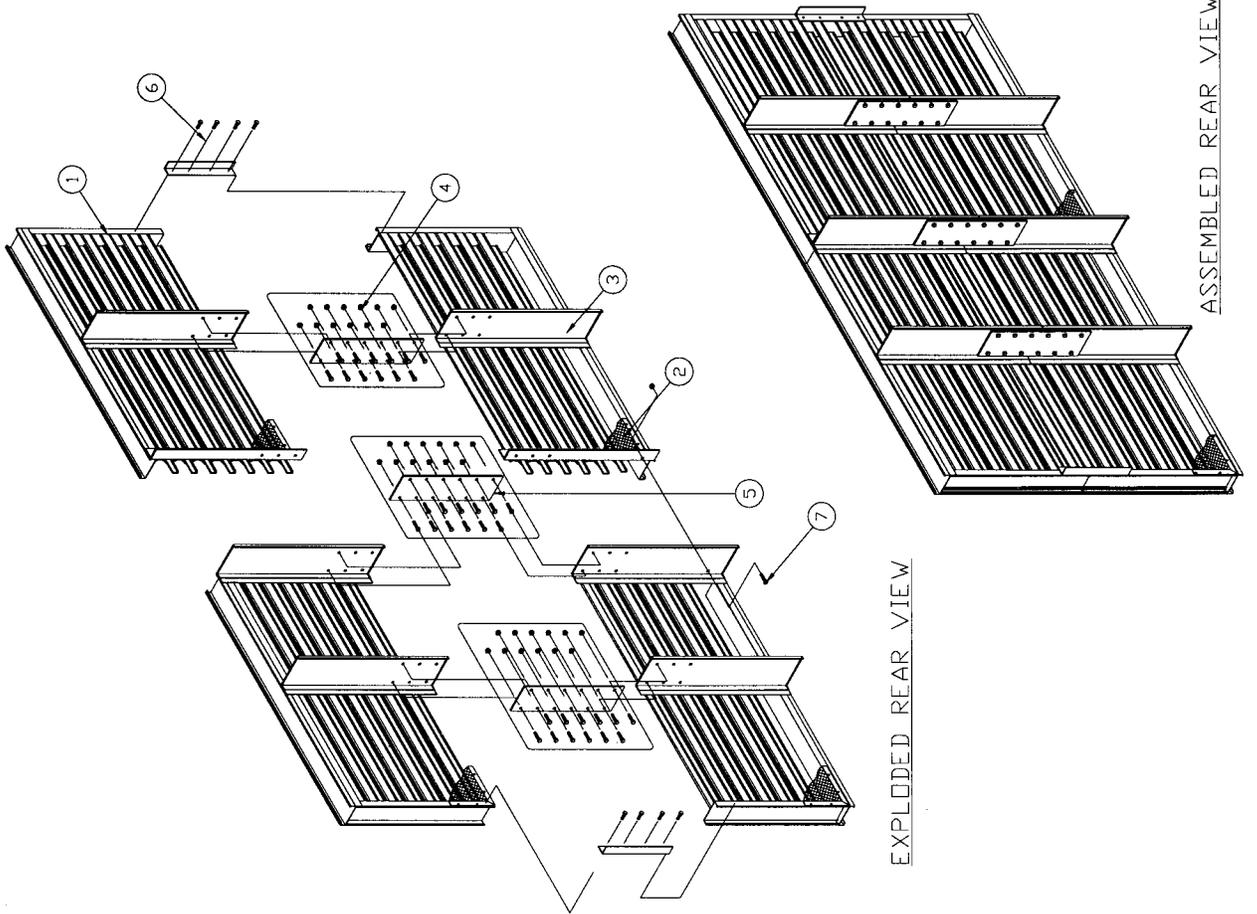
NOTES

- 1) THE DETAIL NUMBERS REFERENCED ABOVE CORRESPOND WITH THE LAST THREE(3) DIGITS IN THE APPLICABLE DETAIL DRAWINGS IN THIS BOOKLET.
EXAMPLE: 163 ABOVE = DWG. #70-020163-00B
- 2) FOR LOUVERS WITH BLADE CENTER TO CENTER SPACING OF 2' OR LESS, AND ALL CHEVRON STYLE MODELS, FRAME SPLICE PLATES & FASTENERS (REF. DETAIL 258) WILL BE PROVIDED IN PLACE OF MULLION SPLICE BOLTS.



LEGEND

- ① LOUVER SECTION
- ② BIRD OR INSECT SCREEN (PARTIAL VIEW)
- ③ HIDDEN VERTICAL BLADE SUPPORT (H.V.B.S.)
- ④ HVBS SPLICE PLATE & FASTENERS, REF. DETAIL 163
- ⑤ HVBS VERTICAL & HORIZONTAL SPLICE PLATE & FASTENERS, REF. DETAIL 164.
- ⑥ PERIMETER FRAME SPLICE. ANGLE & FASTENERS (BY OTHERS) REF. DETAIL 165
- ⑦ ARCHITECTURAL JOINT CONNECTION BOLT, REF. DETAIL 162

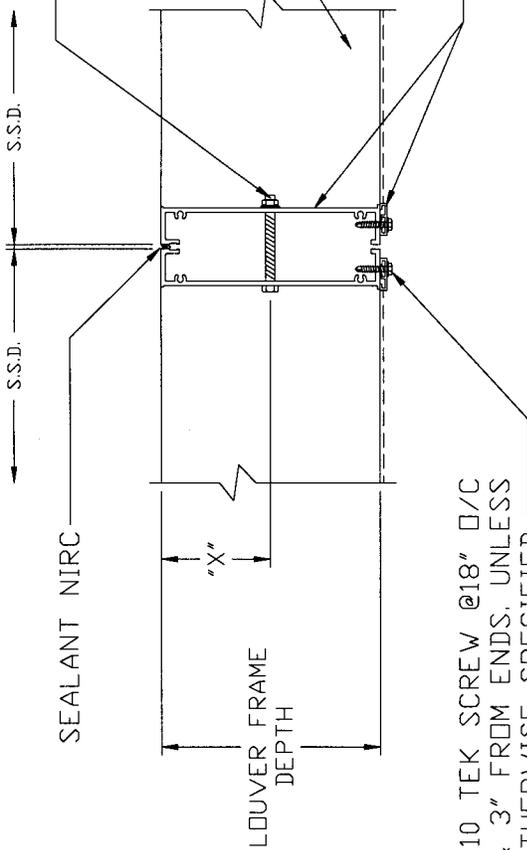


NOTES

- 1) THE DETAIL NUMBERS REFERENCED ABOVE CORRESPOND WITH THE LAST THREE(3) DIGITS IN THE APPLICABLE DETAIL DRAWINGS IN THIS BOOKLET.
EXAMPLE: 163 ABOVE = DWG. #70-020163-00B
- 2) FOR LOUVERS WITH BLADE CENTER TO CENTER SPACING OF 2" OR LESS, AND ALL CHEVRON STYLE MODELS, FRAME SPLICE PLATES & FASTENERS (REF. DETAIL 258) WILL BE PROVIDED IN PLACE OF MULLION SPLICE BOLTS.

1/8" EXP GAP
WHERE REQUIRED

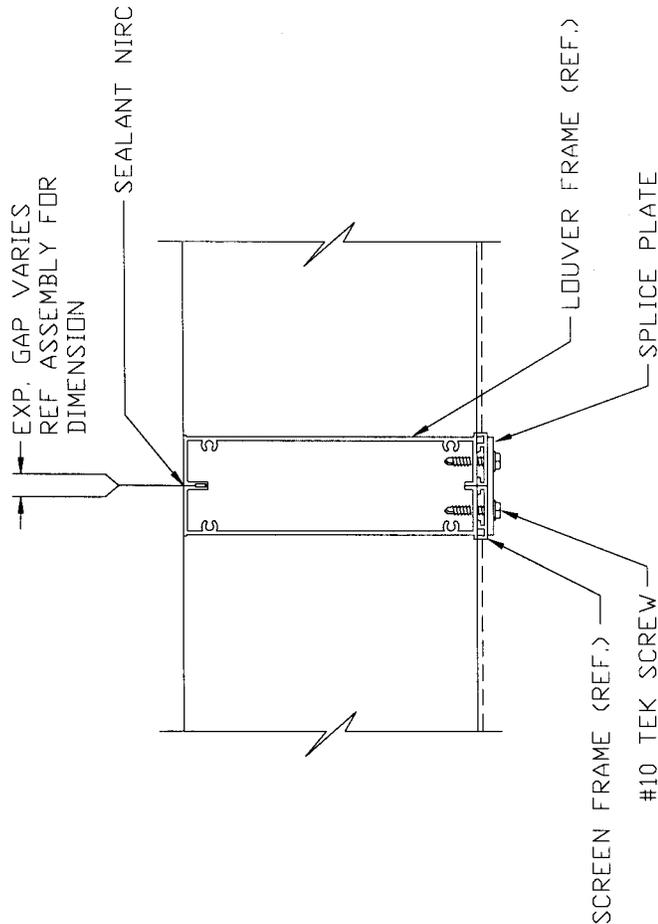
1/4"-20 X 2 1/2" LG HEX HEAD BOLT
W/ LOCKNUT & WASHER, 18" O/C & 6"
FROM TOP & BOTTOM OF LOUVER (C)
(SHIP BOLTS & NUTS LOOSE)



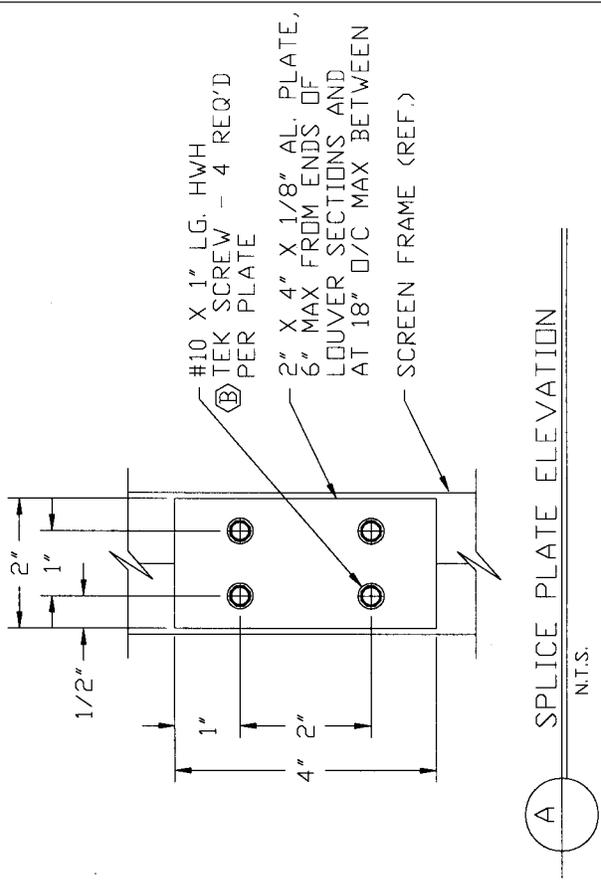
#10 TEK SCREW @18" O/C
& 3" FROM ENDS, UNLESS
OTHERWISE SPECIFIED.

(C)	REV. WHIZNUT TO BE LOCKNUT & WASHER	JKS	G.L.	JKS	9/11/98
(B)	REV'D JAMB FRAMES	GSL	VMA	DLH	2/17/95
(A)	ADDED TEK SCREW SPEC. •	DLH	GSL	VMA	1-3-95
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. air handling specialties 3900 DR. GREAVES RD. GRANDVIEW, MO 64030				
TITLE		PLOT SCALE		DWG. CERTIFIED	
EXTRUDED LOUVER VERTICAL MULLION BOLTED CONNECTION		NONE		BY: _____ DATE: _____	
		DWG. NO.		70-020143-00B	

DWN. BY:	CHK. BY:	APPV'D. BY:	DWN. BY:	APPV'D. BY:
JAL	VMA	LH		
DATE: 10-7-92	DATE: 03-15-93	DATE: 03-16-93	DATE: 03-16-93	DATE: 03-16-93



1 PLAN VIEW
N.T.S.



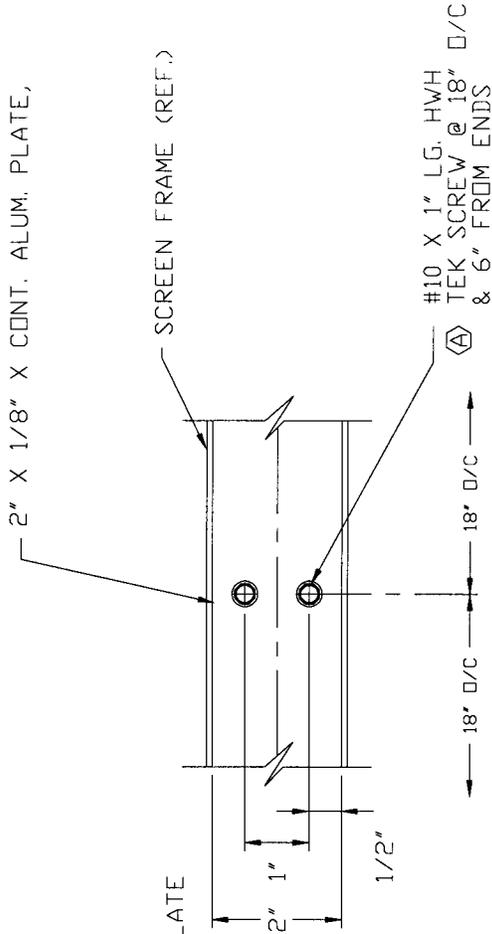
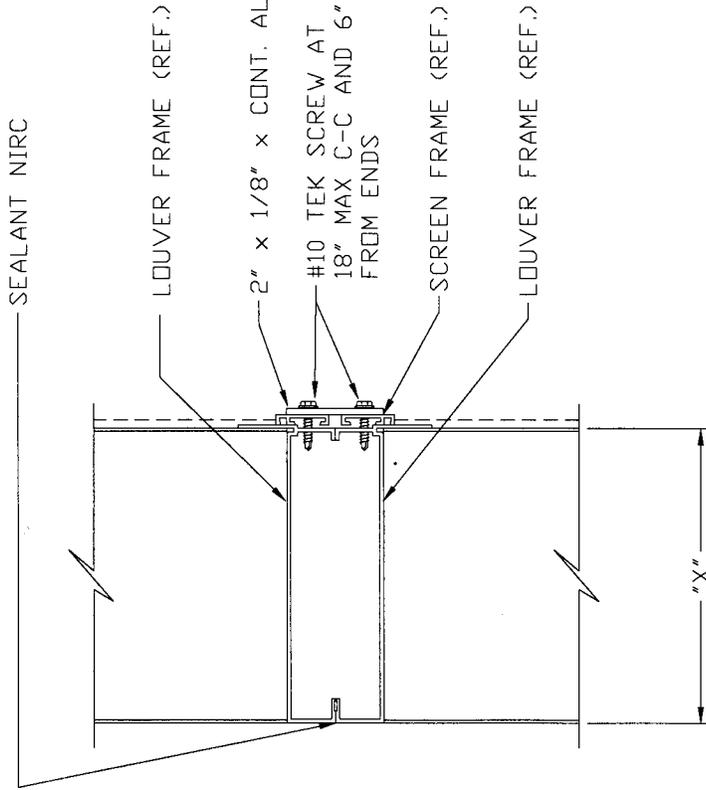
A SPLICE PLATE ELEVATION
N.T.S.

NOTES

- SCREWS MUST NOT INTERFERE WITH MOVABLE BLADE LINKAGE ON ADJUSTABLE LOUVERS.

CHANGE LETTER	REV. NOTE	GW			
A	REV'D LOUVER FRAMES	GSL			
	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE
TITLE		PLOT SCALE		DWG. CERTIFIED	
RUSKIN Mfg. air handling specialties 3900 DR. GREAVES RD. GRANDVIEW MD 64030		NONE		BY: _____ DATE: _____	
		DWG. NO.		70-020258-00B	
		EXTRUDED LOUVER FRAME CONNECTION DETAIL			

DWN. BY:	CHK. BY:	APPV'D. BY:
JAL	VMA	LH
DATE: 11-30-92	DATE: 3-15-93	DATE: 3-16-93



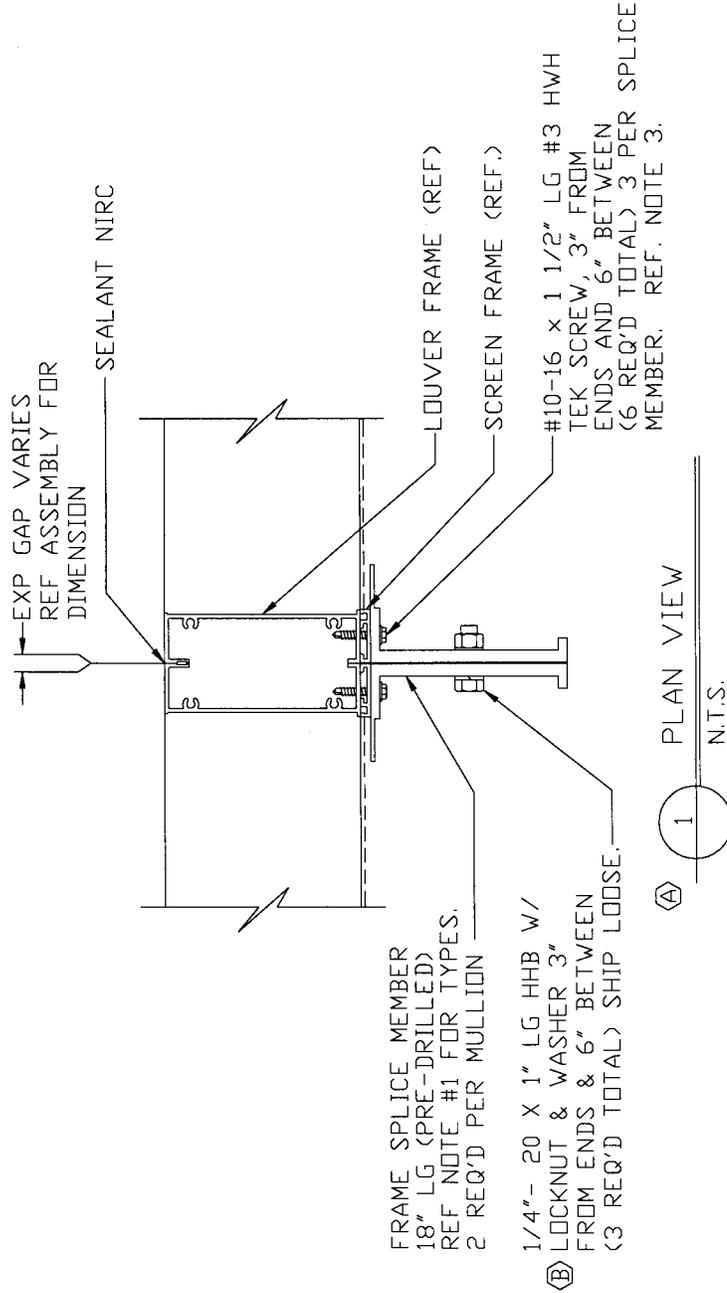
1A SPLICE PLATE ELEVATION
N.T.S.

1 VERTICAL SECTION
N.T.S.

NOTE:

- 1. DIMENSION "X" = LOUVER FRAME DEPTH.

CHANGE LETTER	REV. NOTE	GW	APPR'D. BY:	DATE:
(A)				
	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPR'D. BY:
	RUSKIN Mfg Grandview, MO			
	PROPRIETARY INFORMATION	PLOT SCALE	DWG. CERTIFIED BY:	DATE:
	TITLE	NONE		
	EXTRUDED LOUVER HORIZONTAL MULLION CONNECTION DETAIL	DWG. NO.		
		70-020904-00B		

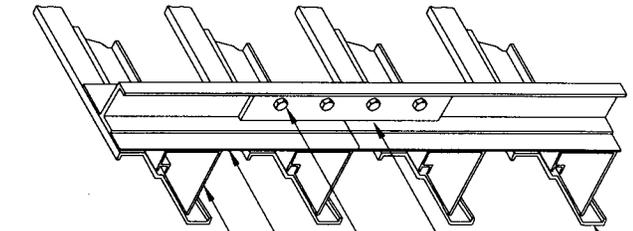


① PLAN VIEW
N.T.S.

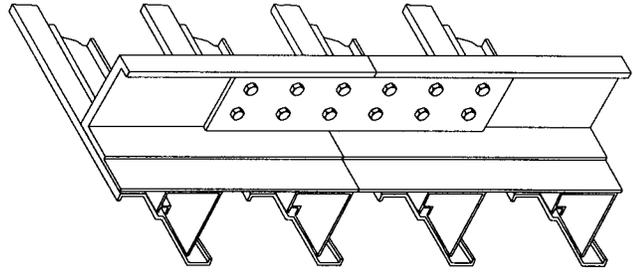
NOTES:

- ① 1. 2- 2" X 2" X 1/4" ALUM SUPPORT SPLICE ANGLES FOR 1 1/4", 1 1/2" & 2" DP. LOUVERS, 2- 70-020087-00B SUPPORT SPLICE CHANNELS FOR 3" & 4" DP. LOUVERS, AND 2- 70-020059-00B SUPPORT SPLICE CHANNELS FOR 5" & 6" DP. LOUVERS.
2. INSTALLER MUST REMOVE THE FACTORY INSTALLED SCREEN FRAME SCREWS PRIOR TO INSTALLING SPLICE MEMBERS.
3. ON MOVABLE LOUVERS LOCATE SCREWS TO AVOID INTERFERENCE W/CONCEALED LINKAGE.

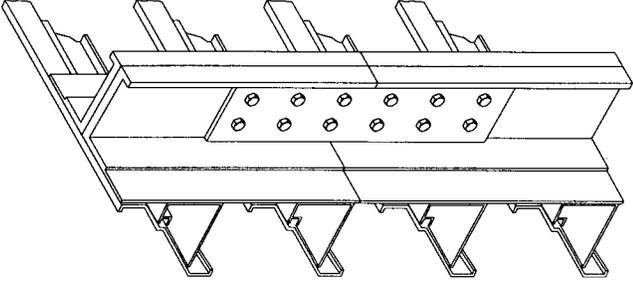
②	REV. SERRATED FLG. NUT TO BE LOCKNUT & WASHER	KDH	G.L.	JKS	9/11/98
③	REV'D FRAMES & SPLICE SUPPORTS	GSL	VMA	DLH	2/17/95
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE:
RUSKIN Mfg. <i>air handling specialties</i> 3900 DR. GREAVES RD. GRANDVIEW, MD. 64030		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____	
TITLE EXTRUDED LOUVER VISIBLE MULLION SPLICE DETAIL		DWG. NO. 70-020300-00B			



TEE HVBS SPlice



SINGLE CHANNEL HVBS SPlice



DOUBLE CHANNEL HVBS SPlice

- BLADE BRACE (REF)
- HIDDEN VERTICAL BLADE SUPPORT(S)
- HEX HEAD BOLT W/ LOCKNUT & WASHER
- SPlice PLATE (SHIP LOOSE)

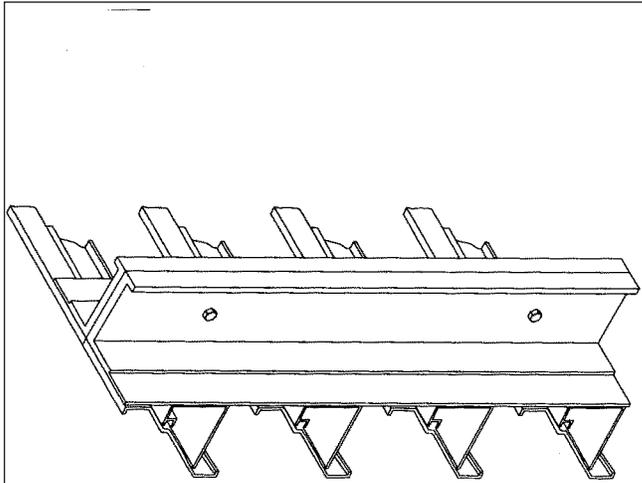
LOUVER BLADE (REF)

NOTES

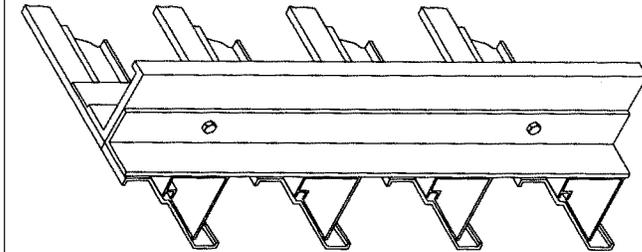
1. HVBS = HIDDEN VERTICAL BLADE SUPPORT.
2. REF ORDER OR DWGS FOR HVBS TYPE, OR INSPECT LOUVER ASSEMBLIES.
- REF DETAIL DWGS BELOW FOR SPlice PLAN VIEW AND SPlice PLATE PART DWGS.

BLADE SUPPORT (HVBS) TYPE	DETAIL DWG #
(1) 70-020097-00B 3" TEE	70-020166-00B
(1) 70-020088-00B 3" CHANNEL	70-020167-00B
(1) 70-020087-00B 4" CHANNEL	70-020168-00B
(1) 70-020059-00B 6" CHANNEL	70-020169-00B
(2) 70-020088-00B 3" CHANNELS	70-020170-00B
(2) 70-020087-00B 4" CHANNELS	70-020171-00B
(2) 70-020059-00B 6" CHANNELS	70-020172-00B
3" & 4" CHANNELS	70-020173-00B
3" & 6" CHANNELS	70-020174-00B
4" & 6" CHANNELS	70-020175-00B

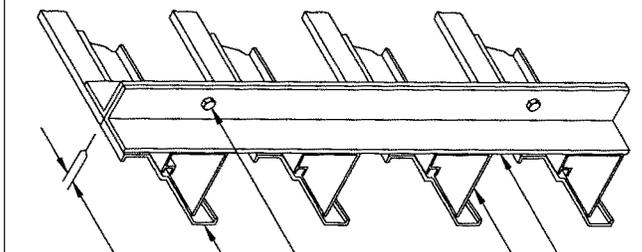
(B)	REV. FLANGENUT TO BE LOCKNUT & WASHER	JKS	G.L.	JKS	9/11/98
(A)	REV'D TITLE BLOCK & REMV'D DWG 70-020255-00B	JKS	G.L.	VMA	2/20/95
CHANGE LETTER	REVISION DESCRIPTION	DWN BY:	CHK'D BY:	APPV'D BY:	DATE
RUSKIN Mfg Air Handling specialties 3900 DR. GREAVE'S RD. GRANDVIEW MO 64030		PLOT SCALE		DWG. CERTIFIED	
TITLE		NONE		BY: DATE:	
1X2 VERT ARCH STYLED SPlice CONFIG. FOR EXTRUDED LOUVERS		DWG. NO.		70-020163-00B	



DOUBLE CHANNEL HVBS



SINGLE CHANNEL HVBS



ANGLE HVBS

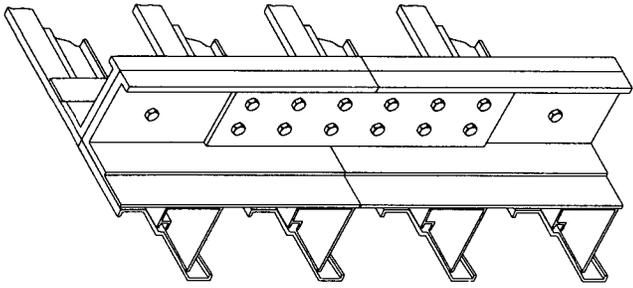
- VARIES, REF. ASSEMBLY FOR DIMENSION
- LOUVER BLADE (REF)
- 1/4"-20 X 1" HEX HEAD BOLT W/ LOCKNUT & WASHER, 3" MAX FROM TOP AND BOTTOM OF LOUVER SECTIONS & AT 18" O/C MAX BETWEEN
- BLADE BRACE (REF)
- HIDDEN VERTICAL BLADE SUPPORT(S) (& ANGLE WHERE REQ, SEE NOTE 2)

NOTES

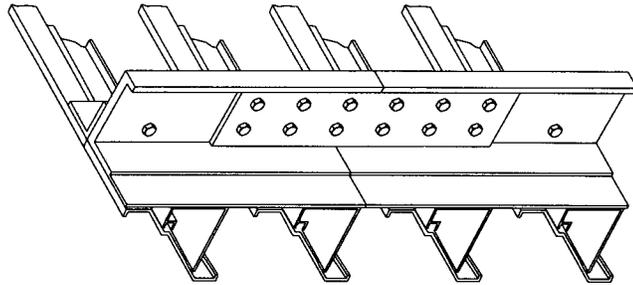
1. HVBS = HIDDEN VERTICAL BLADE SUPPORT.
2. REF ORDER OR DWGS FOR HVBS TYPE, OR INSPECT LOUVER ASSEMBLIES. REF DETAIL DWGS BELOW FOR BOLT LOCATION DIMENSIONS (PLANT ONLY).
3. LOUVERS WITH SINGLE ANGLE OR CHANNEL HVBS SHALL HAVE AN ANGLE ON ONE SIDE OF THE SHIP SECTION TO CONNECT WITH HVBS.
4. PLACE EXPANSION GAP SHIMS BETWEEN HVBS MEMBERS AND/OR ANGLES AT SHIP SECTIONS WHERE REQ. (SHIMS BY OTHERS)

BLADE SUPPORT (HVBS) TYPE	DETAIL DWG #	REV. WHIZNUT TO BE LOCKNUT & WASHER	JKS	G.L.	JKS	DATE
2" X 2" 1/8" ALUM ANGLE	70-020466-00B					9/11/98
(1) 70-020088-00B 3" CHANNEL	70-020177-00B	REV'D TITLE & REM'D DWG 176 & ADDED DWG 466	JKS	G.L.	VMA	2/20/95
(1) 70-020087-00B 4" CHANNEL	70-020178-00B	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE
(1) 70-020059-00B 6" CHANNEL	70-020179-00B					
(2) 70-020088-00B 3" CHANNELS	70-020180-00B					
(2) 70-020087-00B 4" CHANNELS	70-020181-00B					
(2) 70-020059-00B 6" CHANNELS	70-020182-00B					
3" & 4" CHANNELS	70-020183-00B					
3" & 6" CHANNELS	70-020184-00B					
4" & 6" CHANNELS	70-020185-00B					

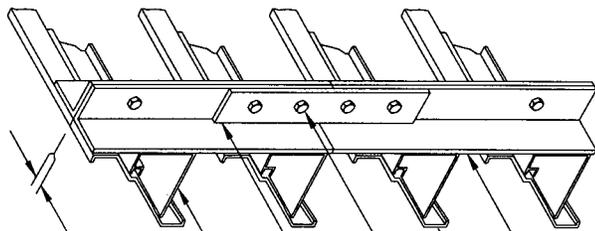
RUSKIN Mfg. 617 Potomac Specialties 2900 DR. GRAVES RD. GRANDVIEW, MD. 64030 TITLE	2X1 HORIZ ARCH STYLED SPLICE CONFIG FOR EXTRUDED LOUVERS	REV. WHIZNUT TO BE LOCKNUT & WASHER REV'D TITLE & REM'D DWG 176 & ADDED DWG 466 REVISION DESCRIPTION DWN. BY: JKS CHK'D. BY: G.L. APPV'D. BY: VMA DATE: 2/20/95	JKS G.L. VMA DATE: 2/20/95	9/11/98
PLOT SCALE: NONE DWG. NO.: 70-020162-00B		DWG. CERTIFIED BY: DATE:		



DOUBLE CHANNEL HVBS



SINGLE CHANNEL HVBS



ANGLE HVBS

VARIABLES, REF. ASSEMBLY FOR DIMENSION

BLADE BRACE (REF)

SPLICE PLATE (SHIP LOOSE)

HEX HEAD BOLT W/ LOCKNUT & WASHER

LOUVER BLADE (REF)

HIDDEN VERTICAL BLADE SUPPORT(S) (& ANGLE WHERE REQ, SEE NOTE 2)

(B)

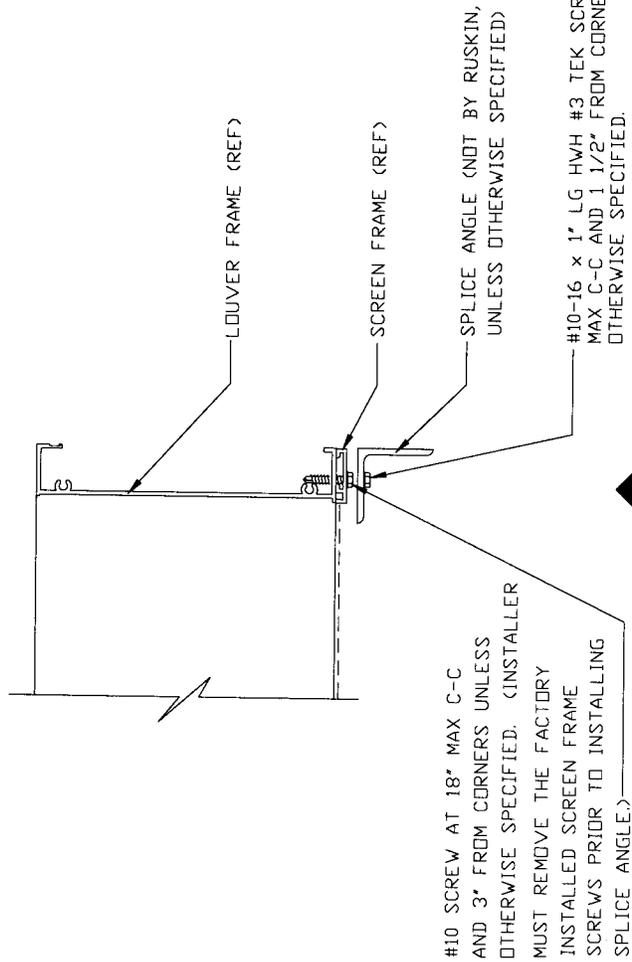
NOTES

1. HVBS = HIDDEN VERTICAL BLADE SUPPORT.
2. REF ORDER OR DWGS FOR HVBS TYPE, OR INSPECT LOUVER ASSEMBLIES. REF DETAIL DWGS BELOW FOR BOLT LOCATION DIMENSIONS (PLANT ONLY).
3. LOUVERS WITH SINGLE ANGLE OR CHANNEL HVBS SHALL HAVE AN ANGLE ON ONE SIDE OF THE SHIP SECTION TO CONNECT WITH HVBS.
4. PLACE EXPANSION GAP SHIMS BETWEEN HVBS MEMBERS AND/OR ANGLES AT SHIP SECTIONS WHERE REQ. (SHIMS BY OTHERS)

BLADE SUPPORT (HVBS) TYPE	DETAIL DWG #
(1) 70-020088-00B 3" CHANNEL	70-020273-00B
(1) 70-020087-00B 4" CHANNEL	70-020274-00B
(1) 70-020059-00B 6" CHANNEL	70-020275-00B
(2) 70-020088-00B 3" CHANNELS	70-020276-00B
(2) 70-020087-00B 4" CHANNELS	70-020277-00B
(2) 70-020059-00B 6" CHANNELS	70-020278-00B
3" & 4" CHANNELS	70-020279-00B
3" & 6" CHANNELS	70-020280-00B
4" & 6" CHANNELS	70-020281-00B

(B)	REV. FLANGENUT TO BE LOCKNUT & WASHER	JKS	G.L.	JS	9/11/98
(A)	REV'D TITLE BLOCK & REMV'D DWG 70-020272-00B	JKS	G.L.	VMA	2/20/95
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. air handling specialties 3900 DR. GREAVES RD. GRANDVIEW, MO. 64030				
TITLE		PLDT SCALE		DWG. CERTIFIED	
2X2 HORIZ/VERT ARCH STYLED SPLICE CONFIG FOR EXTRUDED LOUVERS		NONE		BY: DATE:	
		DWG. NO.		70-020164-00B	

DWN. BY:	JAL	CHK. BY:	VMA	APPV'D. BY:	
DATE:	9-21-92	DATE:	2-18-93	DATE:	

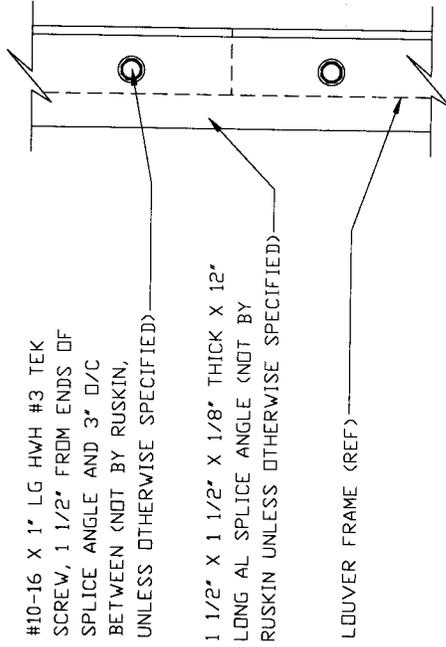


#10 SCREW AT 18" MAX C-C AND 3" FROM CORNERS UNLESS OTHERWISE SPECIFIED. (INSTALLER MUST REMOVE THE FACTORY INSTALLED SCREEN FRAME SCREWS PRIOR TO INSTALLING SPLICE ANGLE.)

1 PLAN VIEW
N.T.S.

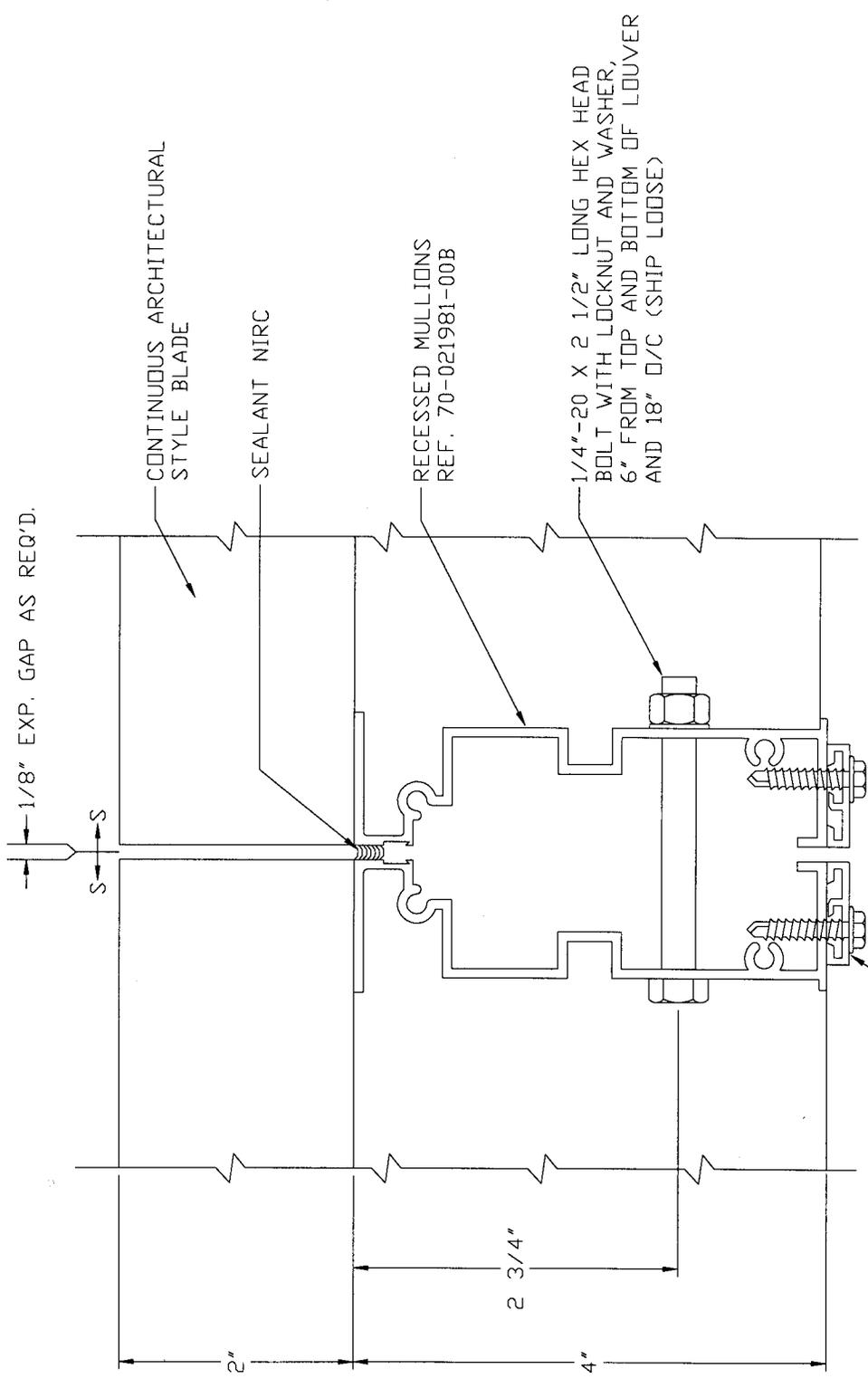
NOTES:

1. INSTALLER MUST REMOVE THE FACTORY INSTALLED SCREEN FRAME SCREWS PRIOR TO INSTALLING SPLICE ANGLE.



A SPLICE ANGLE ELEVATION
N.T.S. SCREEN AND SCREEN FRAME NOT SHOWN FOR CLARITY

(C)	REV'D SPLICE ANGLE LENGTH	GSL	VMA	JKS	3-31-97
(B)	REV'D LOUVER FRAME	GSL	VMA		2-20-95
(A)	ADDED TEK SCREW CALL-OUT	DLH	GSL	VMA	1-3-95
CHANGE LETTER	REVISION DESCRIPTION	DWN BY:	CHK'D BY:	APPV'D BY:	DATE
	RUSKIN Mfg. <i>air handling specialties</i> 3900 DR. GREAVES RD. GRANDVIEW, MD. 64030				
TITLE		PLOT SCALE		DWG. CERTIFIED	
EXTRUDED LOUVER FRAME SPLICE DETAIL		NONE		BY: DATE:	
		DVG. NO.		70-020165-00B	



1/8" EXP. GAP AS REQ'D.

CONTINUOUS ARCHITECTURAL
STYLE BLADE

SEALANT NIRC

RECESSED MULLIONS
REF. 70-021981-00B

1/4"-20 X 2 1/2" LONG HEX HEAD
BOLT WITH LOCKNUT AND WASHER,
6" FROM TOP AND BOTTOM OF LOUVER
AND 18" O/C (SHIP LOOSE)

2"

2 3/4"

4"

LOUVER SCREEN FRAME AS REQ'D.
ATTACH WITH #10 TEK SCREWS,
3" FROM ENDS AND 18" O/C
UNLESS OTHERWISE SPECIFIED

CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. air handling specialties 3900 DR. GRAVES RD. GREENVIEW, MD. 64030				
	TITLE	PLOT SCALE		DWG. CERTIFIED	DATE:
	ELF6425DD LOUVER RECESSED MULLIONS CONNECTION DETAIL	1" = 1"		BY:	DATE:
		DVG. NO.		60-021807-00B	

