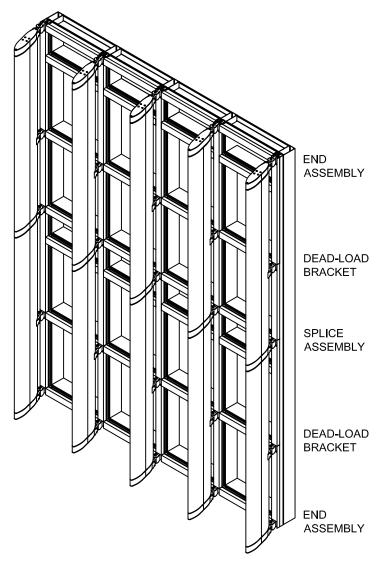
THE FOLLOWING INSTRUCTIONS ARE FOR THE INSTALLATION OF THE KAWNEER VERSOLEIL SINGLE BLADE SUNSHADE. USE THESE INSTRUCTIONS IN CONJUNCTION WITH 1600UT SYSTEM 1 CURTAIN WALL INSTALLATION INSTRUCTIONS (171910).

THE TERMS "INSIDE" AND "OUTSIDE" ARE USED EXTENSIVELY IN THESE INSTRUCTIONS. THESE TERMS DO NOT REFER TO THE INTERIOR AND EXTERIOR OF THE BUILDING. THE TERMS REFER TO THE RELATIVE POSITION OF WORK PERFORMED ON THE SUNSHADE FROM AN ELEVATION PERSPECTIVE. SIMILARLY, THE TERMS "RIGHT" AND "LEFT" ARE USED.

NOTE: A 3/4" PERIMETER JOINT IS REQUIRED FOR BOLT HEAD CLEARANCE AND BLADE INSTALLATION WHEN AN OVERHEAD SOFFIT CONDITION EXTENDS BEYOND THE BRACKET.

ELEVATION FRONT VIEW OF SINGLE BLADE SUNSHADE



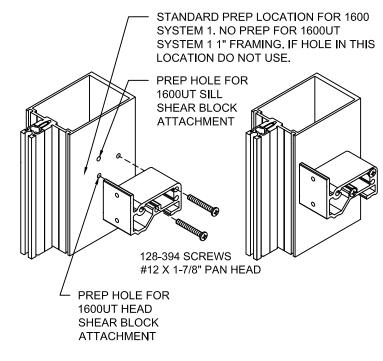
SPECIAL FRAME REQUIREMENTS FOR 1" GLAZING ASSEMBLY ONLY

1600UT 1" FRAMING SHEAR BLOCKS REQUIRE DIFFERENT PREPS TO THE VERTICAL MULLIONS THAN THE STANDARD SHEAR BLOCKS. VERTICAL MULLIONS MUST BE PREPPED ACCORDINGLY PRIOR TO ASSEMBLY OF THE FRAMING ELEMENTS. HEAD SHEAR BLOCK/ANCHOR SHOWN BELOW, SILL SHEAR BLOCK/ANCHOR SIMILAR. PREP HOLE LOCATIONS DIFFER FROM STANDARD 1600 SYSTEM 1. DO NOT USE THE STANDARD FRONT HOLE (IF PRESENT) AS IT INTERFERES WITH THE VERSOLEIL VERTICAL SINGLE BLADE ATTACHMENT SCREWS. SEE APPROVED SHOP DRAWINGS FOR DETAILS.

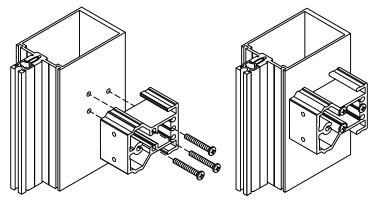
MATCH DRILL SHEAR BLOCK WITH 0.312" DIA DRILL

FRAME ASSEMBLY - 1" FRAME

ATTACH SHEAR BLOCKS



ATTACH SHEAR BLOCKS

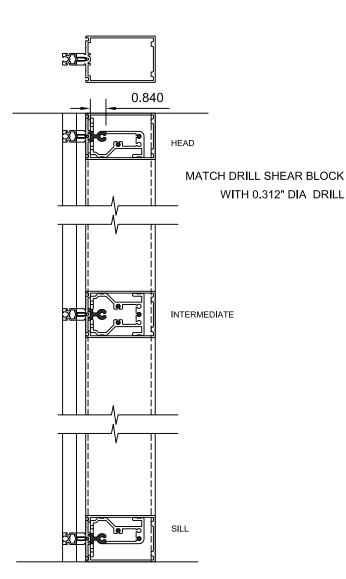


INTERMEDIATE SHEAR BLOCK/ANCHOR SHOWN ABOVE

STRUCTURAL INTEGRITY OF ANCHOR AND FASTENERS MUST BE CHECKED BY FACTORY ENGINEERING.

SHEAR BLOCK PREP

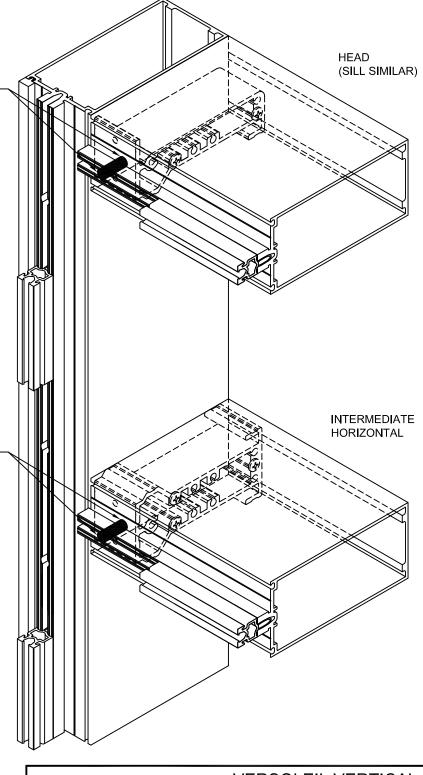
AFTER HORIZONTALS HAVE BEEN INSTALLED SHEAR BLOCKS ARE TO BE MATCH DRILLED USING 5/16" DRILL (0.312" DIA.) AT ALL VERTICAL MOUNTING BRACKET LOCATIONS. ALIGN DRILL WITH EXISTING 0.312 HOLE IN HORIZONTAL. DRILL THROUGH SCREW SPLINE APPROXIMATELY 0.84" INTO THE SHEAR BLOCK.



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KAWNEER

VERSOLEIL VERTICAL
SINGLE BLADE
1600UT SYSTEM 1
INSTALLATION INSTRUCTIONS

95494-039 06/30/14

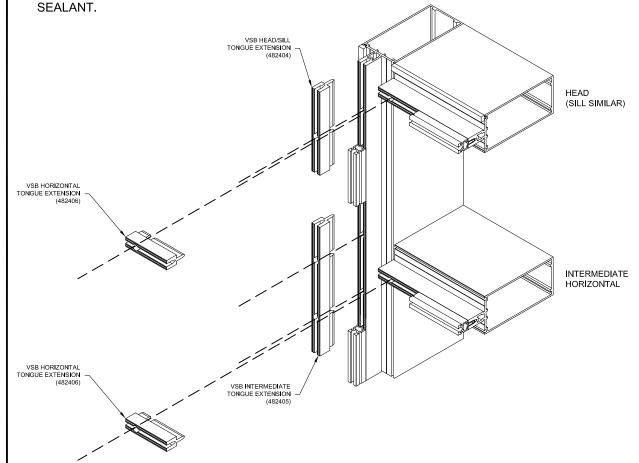
482984 (SHEET 01 OF 09)

FRAME ASSEMBLY

VERTICAL MULLIONS AND HORIZONTAL MEMBERS WILL BE LABELED DESIGNATING POSITION AND ORIENTATION. THESE DESIGNATIONS MUST BE IDENTIFIED AND MATCHED TO SHOP DRAWINGS BEFORE PROCEEDING WITH ANY ASSEMBLY. FAILURE TO PROPERLY ORIENT OR POSITION THE VERTICAL MULLIONS AND HORIZONTAL MEMBERS WILL PROHIBIT INSTALLATION OF THE SUNSHADE.

INSTALL TONGUE EXTENSIONS

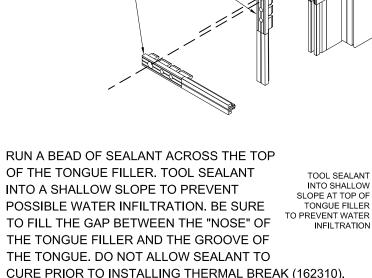
VERTICAL SUNSHADES REQUIRE THE USE OF TWO TONGUE EXTENSIONS (482405, 482406) AT EACH INTERMEDIATE HORIZONTAL LOCATION AND TWO TONGUE EXTENSIONS (482404, 482406) AT EVERY HEAD/SILL LOCATION. CHECK SHOP DRAWINGS FOR POSITION OF BRACKETS. FOR EACH LOCATION OF A MOUNTING BRACKET, THE THERMAL SEPARATOR (171300) HAS BEEN REMOVED AND THE MULLIONS AND HORIZONTALS HAVE BEEN PREPPED WITH PILOT HOLES. RUN A BEAD OF SEALANT ALONG THE TONGUE FACE AND INTO THE SCREW BOSS AT EACH TONGUE EXTENSION LOCATION AND TAP TONGUE EXTENSIONS INTO PLACE. ALIGN THE CLEAR HOLES OF THE TONGUE EXTENSIONS WITH THE PILOT HOLES IN THE MULLIONS AND HORIZONTALS. ADJUST TONGUE EXTENSION UNTIL HOLES ARE IN PROPER ALIGNMENT. TOOL EXCESS



INSTALL TONGUE FILLERS/THERMAL BREAKS

VERTICAL SUNSHADES REQUIRE THE USE OF THREE TONGUE FILLERS (482265) AT EACH INTERMEDIATE HORIZONTAL LOCATION AND TWO TONGUE FILLERS (482265) AT EVERY HEAD/SILL LOCATION. CHECK SHOP DRAWINGS FOR POSITION OF BRACKETS. FOR EACH LOCATION OF A MOUNTING BRACKET. THE MULLIONS AND HORIZONTALS HAVE BEEN PREPPED WITH PILOT HOLES WHILE THE TONGUE EXTENSIONS ARE PREPPED WITH CLEAR HOLES. RUN A BEAD OF SEALANT ALONG THE TONGUE EXTENSION FACE AND INTO THE SCREW BOSS AT EACH TONGUE FILLER LOCATION AND TAP TONGUE FILLERS INTO PLACE. ALIGN THE LARGE CLEAR HOLES OF THE TONGUE FILLERS WITH THE HOLES IN THE TONGUE EXTENSIONS. ADJUST TONGUE FILLERS UNTIL HOLES ARE IN PROPER ALIGNMENT.

TOOL EXCESS SEALANT.



TONGUE FILLER

INSERT THERMAL BREAK (162310) ALONG THE FULL LENGTH OF THE VERTICAL MULLION AND HORIZONTAL MEMBER TONGUE WITH THE EXCEPTION OF THE TONGUE FILLER LOCATIONS. SEAL BETWEEN TONGUE FILLER AND THERMAL BREAK AND TOOL SEALANT.

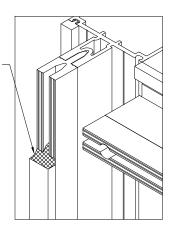
TRIM FLUSH AT TOP AND BOTTOM OF TONGUE FILLER. DO NOT OVERLAP.

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VERSOLEIL VERTICAL
ER SINGLE BLADE
1600UT SYSTEM 1
INSTALLATION INSTRUCTIONS

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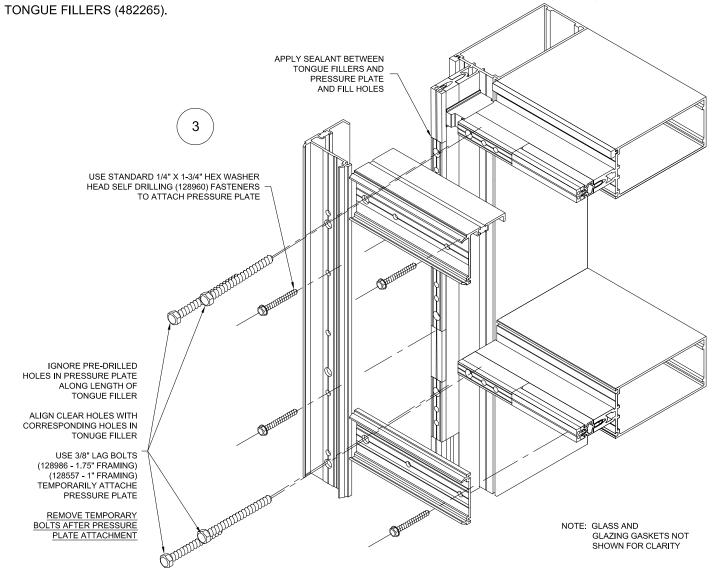
INSTALL EXTERIOR PRESSURE PLATES

PRESSURE PLATES WILL BE PREPPED FOR THE SUNSHADES PRIOR TO SHIPMENT TO THE JOB SITE. THE PREP WILL CONSIST OF THREE (3) CLEAR HOLES PER SUNSHADE MOUNTING BRACKET AT INTERMEDIATE HORIZONTAL LOCATIONS AND TWO (2) CLEAR HOLES AT HEAD/SILL LOCATIONS. CLEAR HOLES IN PRESSURE PLATE MUST BE ALIGNED WITH CORRESPONDING CLEAR HOLES IN TONGUE FILLER. SEE DETAIL 3.

APPLY SEALANT BETWEEN TONGUE FILLERS. JOINT PLUGS AND PRESSURE PLATES PRIOR TO PRESSURE PLATE INSTALLATION.

TO ENSURE ALIGNMENT, INSERT TWO (2) 3/8" LAG BOLTS (128986 - 1.75" FRAMING, 128557 - 1" FRAMING) THROUGH THE CENTER OF THE CLEAR HOLES IN BOTH THE TOP AND BOTTOM POSITION ON THE VERTICAL PRESSURE PLATE AND ONE (1) THROUGH THE CENTER OF THE CLEAR HOLE IN THE HORIZONTAL PRESSURE PLATE, AS TEMPORARIES (FINGER TIGHTEN).

INSTALL PRESSURE PLATES USING STANDARD 1/4" x 1-3/4" HEX WASHER HEAD SELF DRILLING SCREWS (128960). USE ONLY PRE-DRILLED HOLES IN PRESSURE PLATE AND APPLY ONLY THROUGH THERMAL BREAK (162310). DO NOT SCREW INTO



EXTERIOR COVERS

BEFORE INSTALLING THE EXTERIOR COVERS. ALL SUNSHADE MOUNTING SPACERS AND MOUNTING BRACKETS MUST BE INSTALLED.

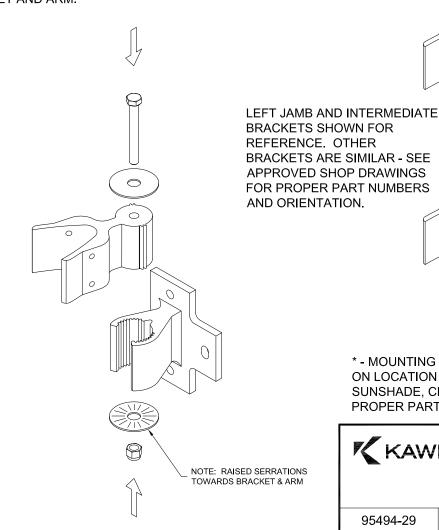
BRACKET ASSEMBLY

NOTE THAT THE VERTICAL SINGLE BLADE SUNSHADE CANNOT BE INSTALLED ON OUTSIDE SINGLE CORNER MULLION APPLICATIONS OR INSIDE CORNER LOCATIONS.

NOTE THAT VERTICAL SINGLE BLADE SUNSHADE INSTALLATION AT OUTSIDE DOUBLE CORNER MULLION IS SIMILAR TO INSTALLATION AT JAMB/INTERMEDIATE MULLIONS.

STEP 1 - ASSEMBLING MOUNTING BRACKETS & ARMS

ALIGN THE MOUNTING ARM (482262) AND THE MOUNTING BRACKET* AT SPECIFIED ANGLE (REFERENCE BRACKET ANGLES ON NEXT PAGE). SLIDE MOUNTING ARM INTO MOUNTING BRACKET AND FASTEN TOGETHER USING 3/8"-16 X 3" HHMS (128916), 3/8" LOCK NUT (128392), AND TWO (2) SERRATED WASHERS (128979) - NOTE: RAISED SERRATIONS ON WASHERS SHOULD BE FACING THE BRACKET AND ARM.



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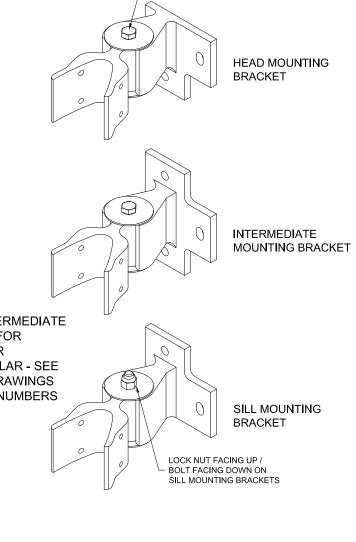
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BOLT FACING UP / LOCK NUT FACING DOWN ON HEAD

MOUNTING BRACKETS

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NOTE: BOLT AND LOCK NUT MUST BE TIGHTENED TO AN INITIAL TORQUE OF 200 IN-LBS (17 FT-LBS).



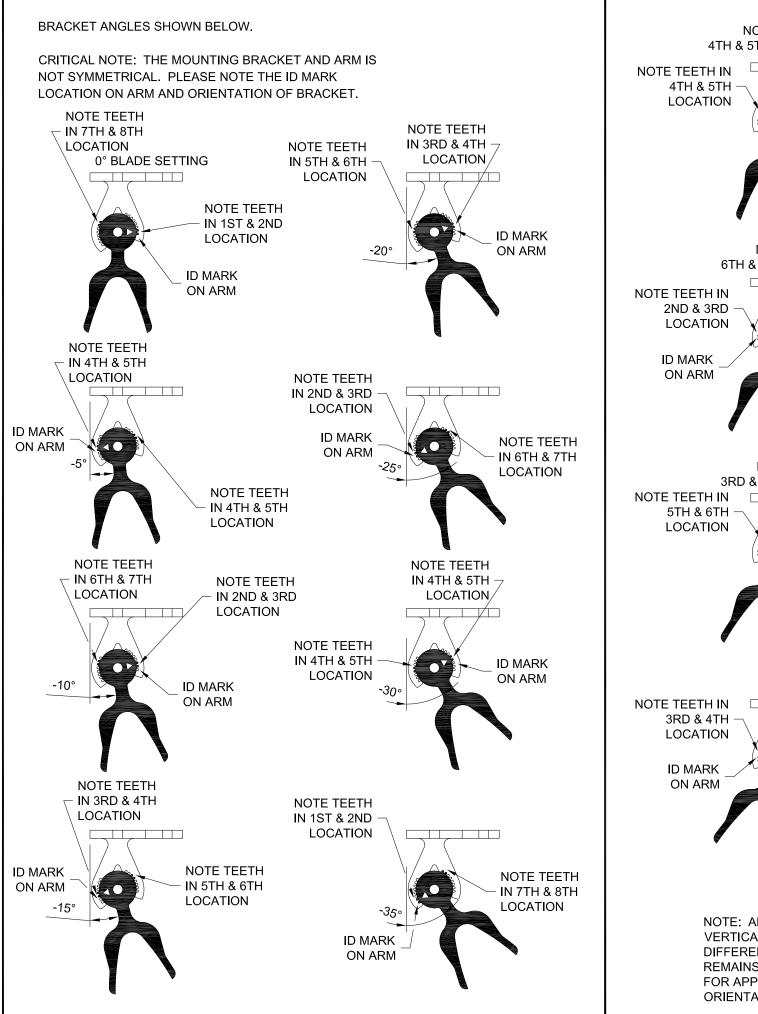
* - MOUNTING BRACKET PART NUMBERS VARY DEPENDING ON LOCATION AND ANGLE OF VERTICAL SINGLE BLADE SUNSHADE, CHECK APPROVED SHOP DRAWINGS FOR PROPER PART NUMBERS AND ORIENTATION.

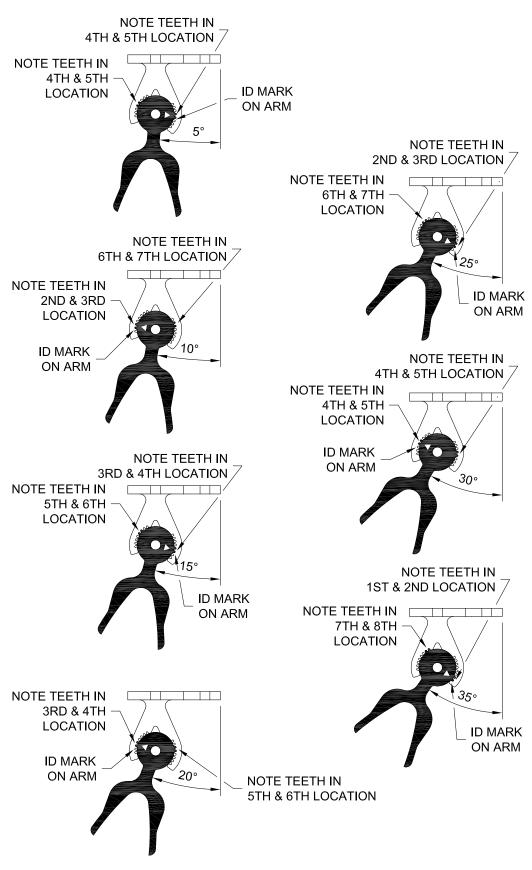


VERSOLEIL VERTICAL SINGLE BLADE **1600UT SYSTEM 1** INSTALLATION INSTRUCTIONS

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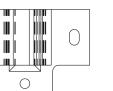
NOTE: ALL BRACKETS SHOWN ARE FOR LH OR INTERMEDIATE VERTICAL APPLICATION. IF RH IS NEEDED BRACKETS ARE DIFFERENT AND BASE SHOWN IS FLIPPED. LOCATION OF TEETH REMAINS CONSISTENT. REFER TO APPROVED SHOP DRAWINGS FOR APPROPRIATE BRACKET PART NUMBERS AND **ORIENTATION**

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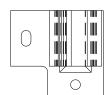
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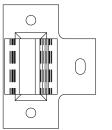
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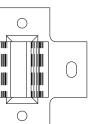
FRONT VIEW OF MOUNTING BRACKETS INTERMEDIATE **RIGHT JAMB**

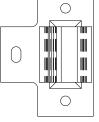


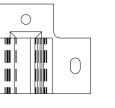


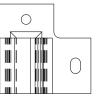


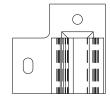












TOP VIEW OF MOUNTING BRACKETS 0 TO -35°





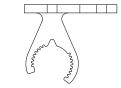
482388 - HEAD 482264 - INT 482389 - SILL

482388 - HEAD 482264 - INT 482389 - SILL

482398 - HEAD 482396 - INT 482397 - SILL

TOP VIEW OF MOUNTING BRACKETS +5° TO +35°







482397 - HEAD 482396 - INT

482398 - SILL

482397 - HEAD 482396 - INT

482398 - SILL

482264 - INT 482388 - SILL



VERSOLEIL VERTICAL SINGLE BLADE **1600UT SYSTEM 1 INSTALLATION INSTRUCTIONS**

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STEP 2 - ATTACH MOUNTING BRACKETS / SPACERS

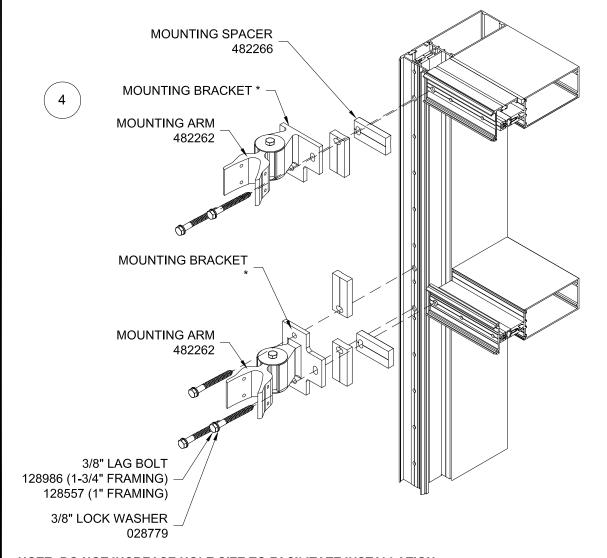
AT INTERMEDIATE HORIZONTAL:

ALIGN THE CLEAR HOLES IN THE MOUNTING SPACER (482266), AND MOUNTING BRACKET* WITH THE CLEAR HOLES IN THE VERTICAL AND HORIZONTAL PRESSURE PLATES AND ATTACH WITH THREE (3) 3/8" x 3-1/4" LAG BOLTS (128986) AND LOCK WASHERS (028779). SEE DETAIL 4.

AT HEAD/SILL:

ALIGN THE CLEAR HOLES IN THE MOUNTING SPACER (482266) AND MOUNTING BRACKET* WITH THE CLEAR HOLES IN THE VERTICAL AND HORIZONTAL PRESSURE PLATES AND ATTACH WITH TWO (2) 3/8" X3-1/4" LAG BOLTS (128986) AND LOCK WASHERS (028779). SEE DETAIL 4.

THE THREAD FORMING ACTION OF THE 3/8" X 3-1/4" SCREWS WILL CAUSE ADDITIONAL RESISTANCE AND REQUIRE EXTRA FORCE TO SEAT. APPLY A WAX LUBRICANT TO THE THREADS BEFORE PROCEEDING.



NOTE: DO NOT INCREASE HOLE SIZE TO FACILITATE INSTALLATION

USING A STANDARD 9/16" SOCKET WRENCH, TIGHTEN TO A "SNUG" CONDITION. BE SURE THE SPRING TYPE LOCK WASHERS ARE COMPRESSED. THEN TIGHTEN APPROXIMATELY 1/2 TURN MORE.

ATTACH ALL MOUNTING BRACKETS BEFORE PROCEEDING TO STEP 3.

* - MOUNTING BRACKET PART NUMBERS VARY DEPENDING ON LOCATION AND ANGLE OF VERTICAL SINGLE BLADE SUNSHADE, CHECK APPROVED SHOP DRAWINGS FOR PROPER PART NUMBERS AND ORIENTATION.

STEP 3 - INSTALLING PRESSURE PLATE COVERS

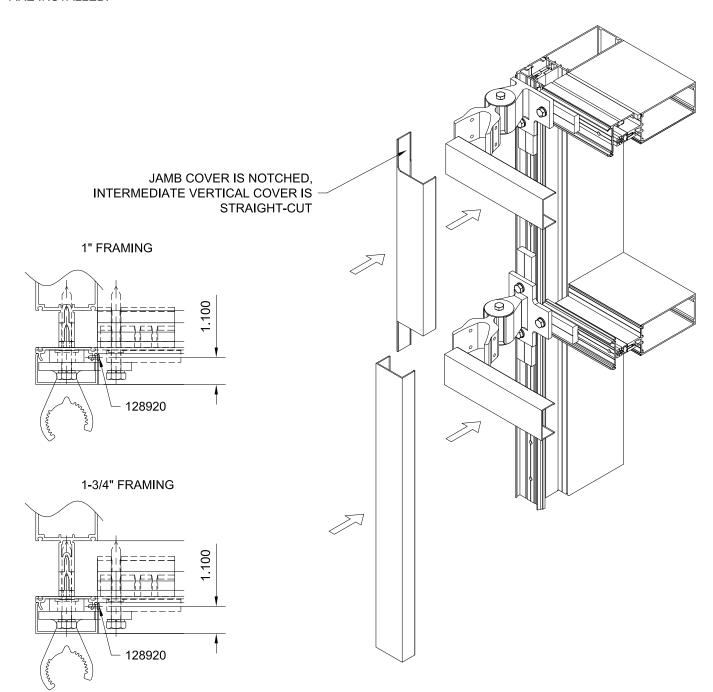
PRESSURE PLATE COVERS SHOULD BE INSTALLED
AFTER THE MOUNTING BRACKETS / MOUNTING SPACERS
ARE INSTALLED.

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NOTE: PIN VERTICAL COVER AT THE SILL AND NEXT HORIZONTAL COVER ABOVE A VERTICAL EXPANSION SPLICE ONLY. DRILL A Ø0.106 (#36 DRILL) HOLE THROUGH COVER AND PRESSURE PLATE LEG AND FASTEN WITH A #6 X 3/8" PHTF "B" FASTENER (128920).



VERSOLEIL VERTICAL
ER SINGLE BLADE
1600UT SYSTEM 1
INSTALLATION INSTRUCTIONS

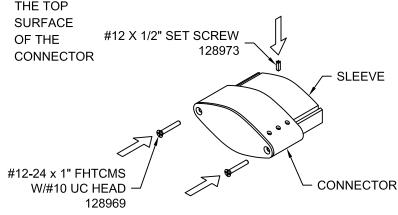
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BLADE, END & SPLICE ASSEMBLIES

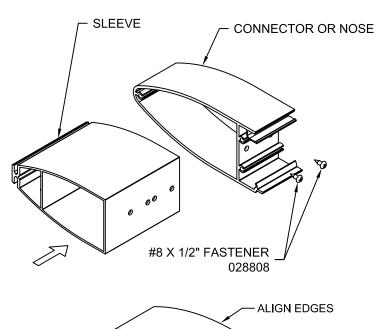
STEP 4 - END ASSEMBLY

FOR ONE-PIECE-BLADE END ASSEMBLIES, ATTACH ENDCAP TO CONNECTOR USING TWO (2) #12-24 X 1" FHTCMS "F" W/#10 UC HEAD FASTENERS (128969)

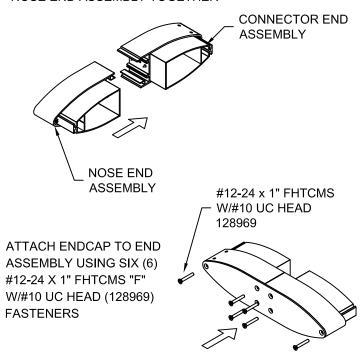
NOTE: SLIDE SLEEVE INTO CONNECTOR AND FASTEN WITH ONE (1) #12 X 1/2" SET SCREW (128973) AT CENTER HOLE. SET SCREW MUST NOT EXTEND BEYOND THE TOP

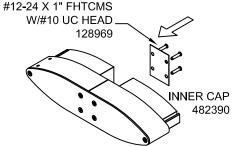


SLIDE SLEEVE INTO CONNECTOR OR NOSE, ALIGN MOUNTING HOLES AND SLEEVE EDGE WITH CONNECTOR OR NOSE EDGE. ATTACH USING TWO (2) #8 X 1/2" FASTENERS (028808).



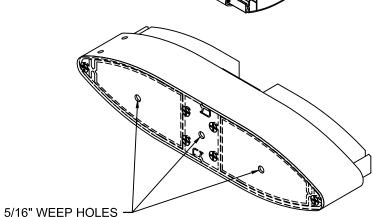
SNAP CONNECTOR END ASSEMBLY (WITH HOLES) AND NOSE END ASSEMBLY TOGETHER





ATTACH INNER CAP (482390) TO END **ASSEMBLY USING** FOUR (4) #12-24 X 1" FHTCMS "F" W/#10 UC HEAD (128969) **FASTENERS**

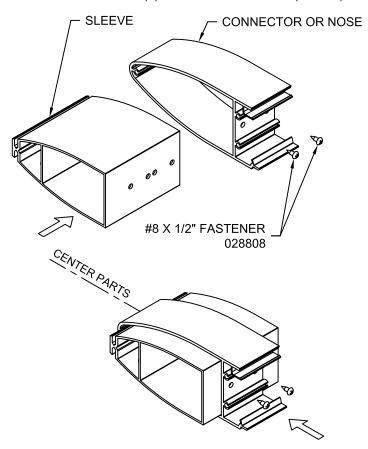
NOTE THAT END ASSEMBLY CAN BE USED AT LEFT JAMB OR RIGHT JAMB (BY ROTATING ASSEMBLY OVER)



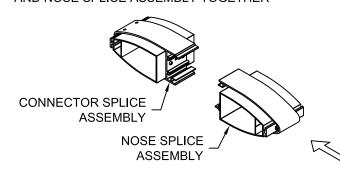
DRILL THREE (3) Ø5/16" WEEP HOLES IN THE ENDCAP OF THE BOTTOM END ASSEMBLY (ONE IN EACH "CHAMBER") TO DRAIN WATER WITHIN THE VERTICAL BLADES, LOCATED AS SHOWN. FOR ONE PIECE BOTTOM END ASSEMBLY, DRILL ONE (1) Ø5/16" WEEP HOLE AT CENTER OF ENDCAP.

STEP 5 - SPLICE ASSEMBLY

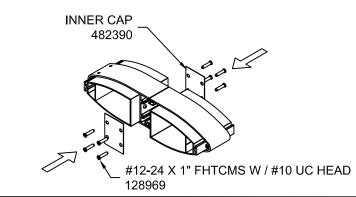
SLIDE SLEEVE INTO CONNECTOR OR NOSE. ALIGN SLEEVE CENTER ON CONNECTOR OR NOSE CENTER. ATTACH USING TWO (2) #8 X 1/2" FASTENERS (028808).



SNAP CONNECTOR SPLICE ASSEMBLY (WITH HOLES) AND NOSE SPLICE ASSEMBLY TOGETHER



ATTACH INNER CAP (482390) TO SPLICE ASSEMBLY ON EACH SIDE USING FOUR (4) #12-24 X 1" FHTCMS W/#10 UC HEAD (128969) FASTENERS



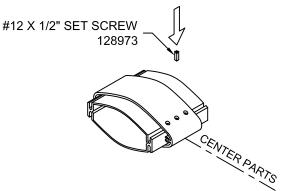
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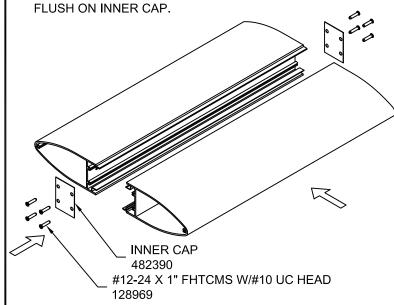
FOR ONE-PIECE-BLADE SPLICE ASSEMBLIES, CENTER SLEEVE IN CONNECTOR AND FASTEN WITH ONE (1) #12 X 1/2" SET SCREW (128973) AT CENTER HOLE.

NOTE: SET SCREW MUST NOT EXTEND BEYOND THE TOP SURFACE OF THE CONNECTOR.



STEP 6 - ASSEMBLING THE 2 PIECE BLADES

SNAP TWO (2) BLADE PIECES TOGETHER (BLADES TO BE CUT TO LENGTH BEFORE ASSEMBLY). THEN ATTACH INNER CAP (482390) TO BLADE ASSEMBLY ON EACH SIDE USING FOUR (4) #12-24 X 1" FHTCMS W/#10 UC HEAD (128969) FASTENERS.. SCREW HEADS WILL NOT SIT





VERSOLEIL VERTICAL SINGLE BLADE **1600UT SYSTEM 1** INSTALLATION INSTRUCTIONS

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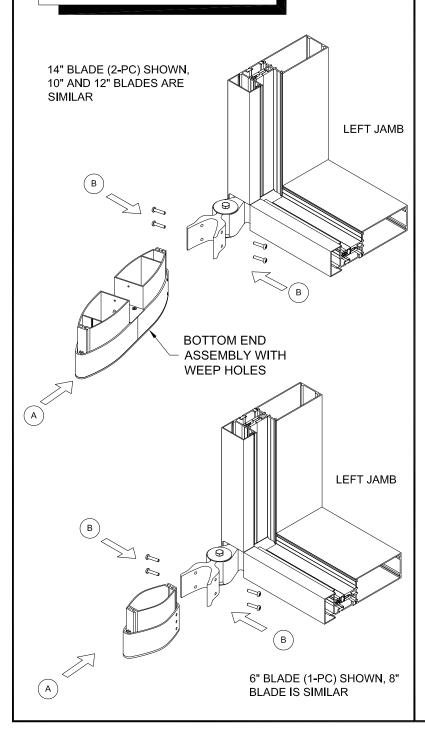


MOUNTING THE SUNSHADES

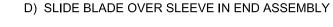
STEP 7 - INSTALLING END / SPLICE / BLADE ASSEMBLIES

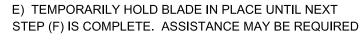
- A) SLIDE BOTTOM END ASSEMBLY INTO MOUNTING ARM, ALIGNING MOUNTING HOLES IN BLADE AND MOUNTING HOLES IN MOUNTING ARM
- B) FASTEN END ASSEMBLY TO MOUNTING ARM USING FOUR (4) #12 X 1" PHTF "AB" (128267) FASTENERS

LEFT JAMB SHOWN, INTERMEDIATE VERTICAL SIMILAR, RIGHT JAMB OPPOSITE



C) SLIDE BLADE (ASSEMBLY, IF TWO-PIECE) INTO MOUNTING ARMS







LEFT JAMB

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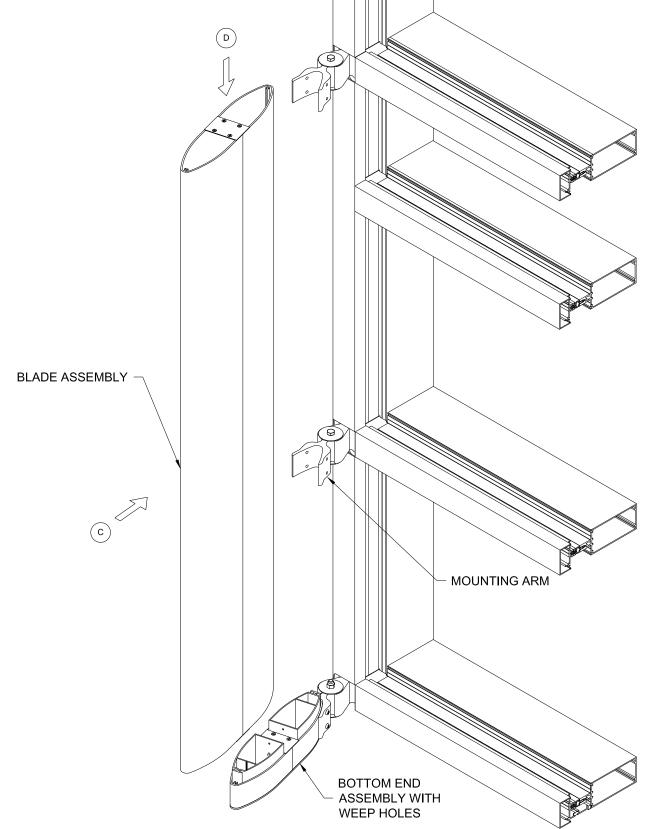
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LEFT JAMB SHOWN, INTERMEDIATE VERTICAL SIMILAR, RIGHT JAMB OPPOSITE

WHERE FRAMING IS SPLICED,
ALLOW ADDITIONAL SPACE AT
JOINT FOR FRAMING MOVEMENT,
NOT TO EXCEED 1/2"

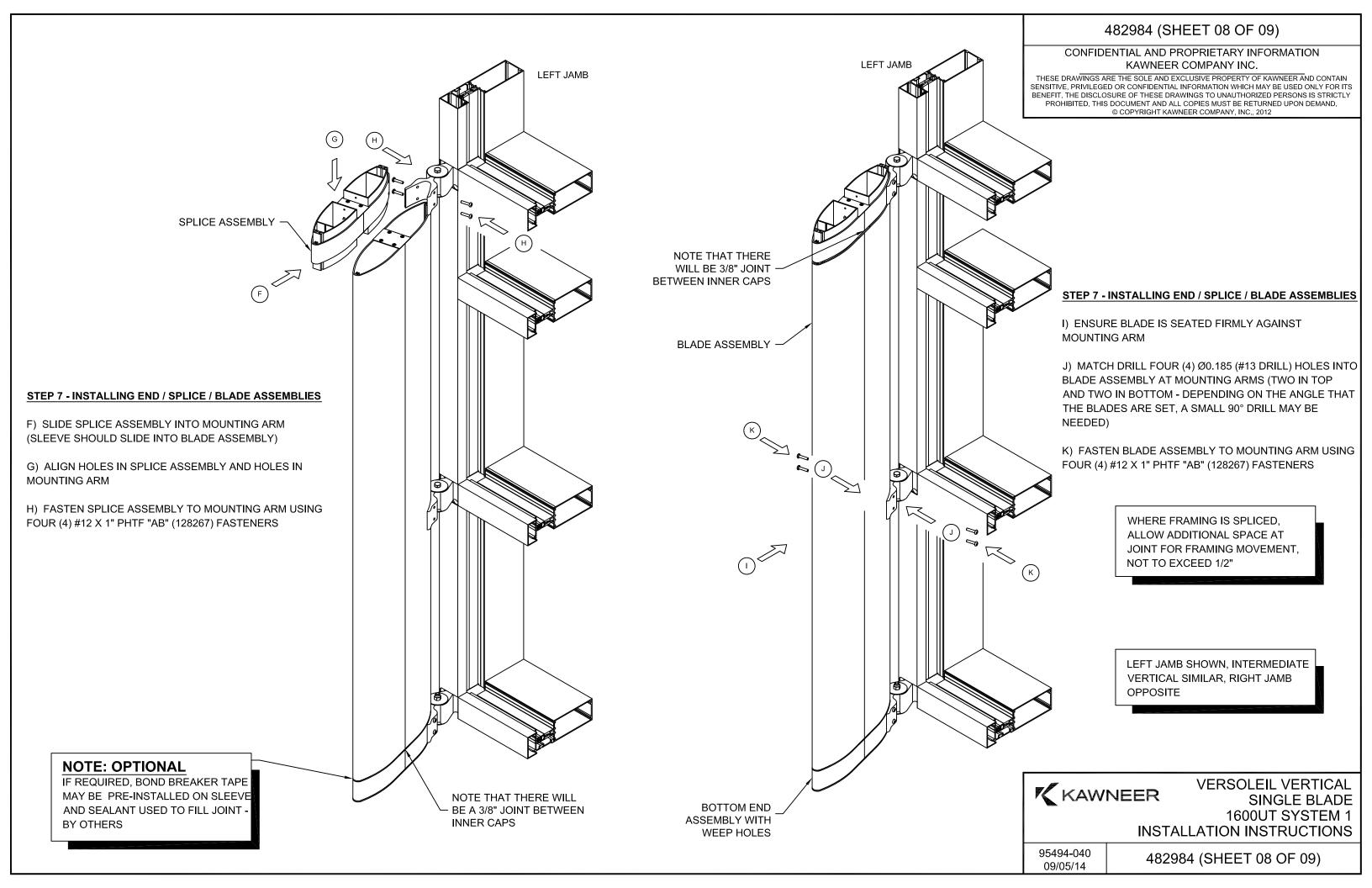




VERSOLEIL VERTICAL
SINGLE BLADE
1600UT SYSTEM 1
INSTALLATION INSTRUCTIONS

95494**-**29 01/31/12

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STEP 7 - INSTALLING END / SPLICE / BLADE ASSEMBLIES

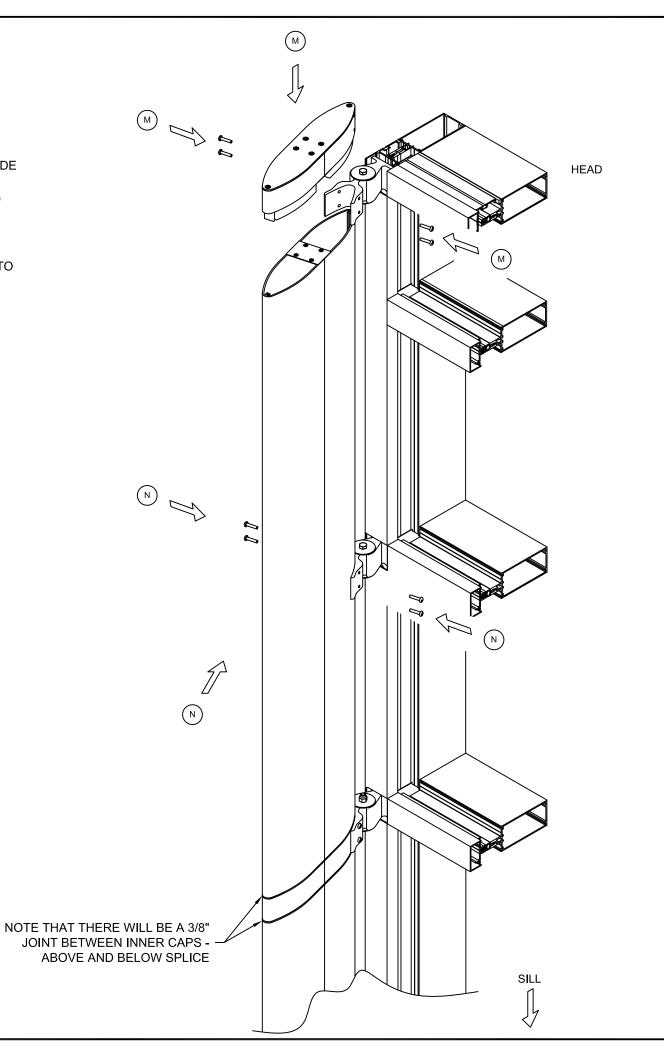
CONTINUE TO INSTALL BLADE SECTIONS IN A SIMILAR FASHION AS PREVIOUSLY DESCRIBED.

- M) SLIDE END ASSEMBLY INTO MOUNTING ARM (SLEEVE SHOULD SLIDE INTO BLADE ASSEMBLY) AND ALIGN MOUNTING HOLES IN END ASSEMBLY WITH THE MOUNTING HOLES IN THE MOUNTING ARM AND FASTEN USING FOUR (4) #12 X 1" PHTF "AB" (128267) FASTENERS
- N) ENSURE LAST BLADE ASSEMBLY IS SEATED FIRMLY AGAINST MOUNTING ARM, MATCH DRILL FOUR (4) Ø0.185 (#13 DRILL) HOLES INTO BLADE ASSEMBLY AT MOUNTING ARMS (TWO IN TOP AND TWO IN BOTTOM) AND FASTEN USING FOUR (4) #12 X 1" PHTF "AB" (128267) FASTENERS

NOTE:

END ASSEMBLY MAY NEED TO BE PRE-INSTALLED INTO BLADE ASSEMBLY IF THERE IS AN OVERHANG PRESENT.

VERIFICATION THAT THERE IS ENOUGH ROOM BETWEEN OVERHANG AND END ASSEMBLY FOR SLIP-JOINT WITH SLEEVE IS REQUIRED.



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VERSOLEIL VERTICAL
SINGLE BLADE
1600UT SYSTEM 1
INSTALLATION INSTRUCTIONS

95494**-**040 09/05/14

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