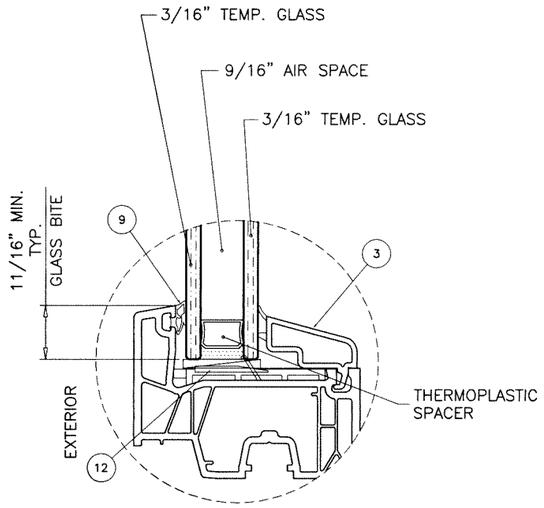


GLAZING DETAIL

7/8" OVERALL INSUL. GLASS

DESIGN LOAD CAPACITY – PSF			
FRAME DIMS.		7/8" OVERALL INSUL. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
18"	42"	50.1	75.0
22"		50.1	75.0
26"		50.1	75.0
30"		50.1	75.0
36"		50.1	75.0
42"		50.1	67.3
48"		50.1	54.9
49–1/8"		50.1	51.5
18"	48–1/4"	50.1	75.0
22"		50.1	75.0
26"		50.1	74.6
30"		50.1	65.2
36"		50.1	57.9
42"		50.1	51.0
48"		50.1	50.1
49–1/8"		50.1	50.1
18"	54"	50.1	75.0
22"		50.1	75.0
26"		50.1	64.2
30"		50.1	58.2
31–1/4"		50.1	50.1
18"	60–1/4"	50.1	74.1
22"		50.1	63.1
26"		50.1	55.7
30"		50.1	50.1
31–1/4"		50.1	50.1

SERIES 76MD
TILT & TURN PVC WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF T&T/T&T OR TILT & TURN WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOW OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE FOR NON HIGH VELOCITY HURRICANE ZONE.

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE LOAD–BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

NOTE:
GLASS CAPACITIES ARE BASED ON ASTM E1300–16 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

WINDOWS NOT RATED FOR IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

INSULATING GLASS
NON IMPACT

FL #48384

Sealed: 8/18/2026

A– CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B– THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C– SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D– THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP–ANL\26–13F

76MD TILT & TURN PVC WINDOW (N.I.)

Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852–0874 www.kommerlingusa.com

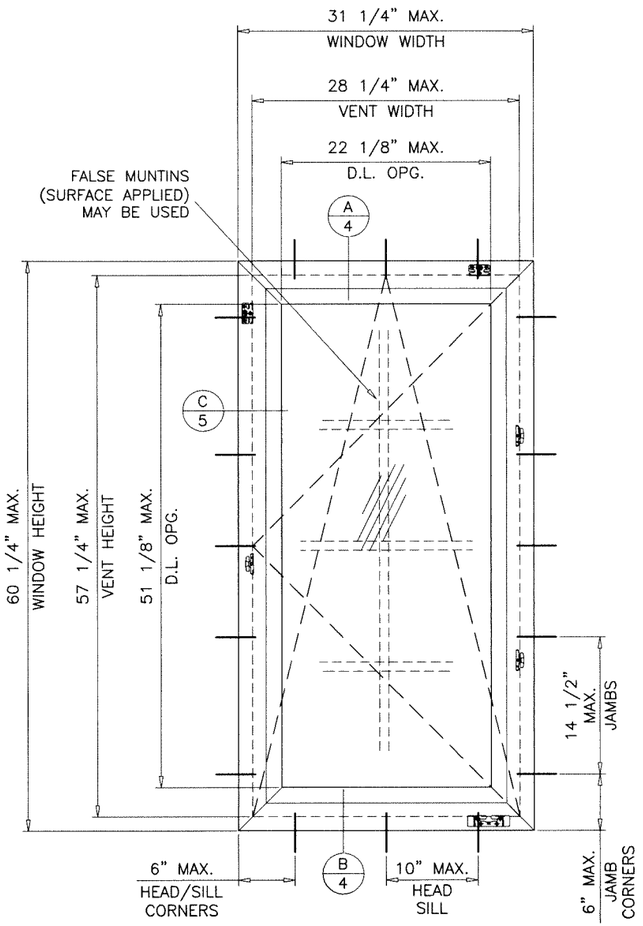
revisions:

no	date	by	description

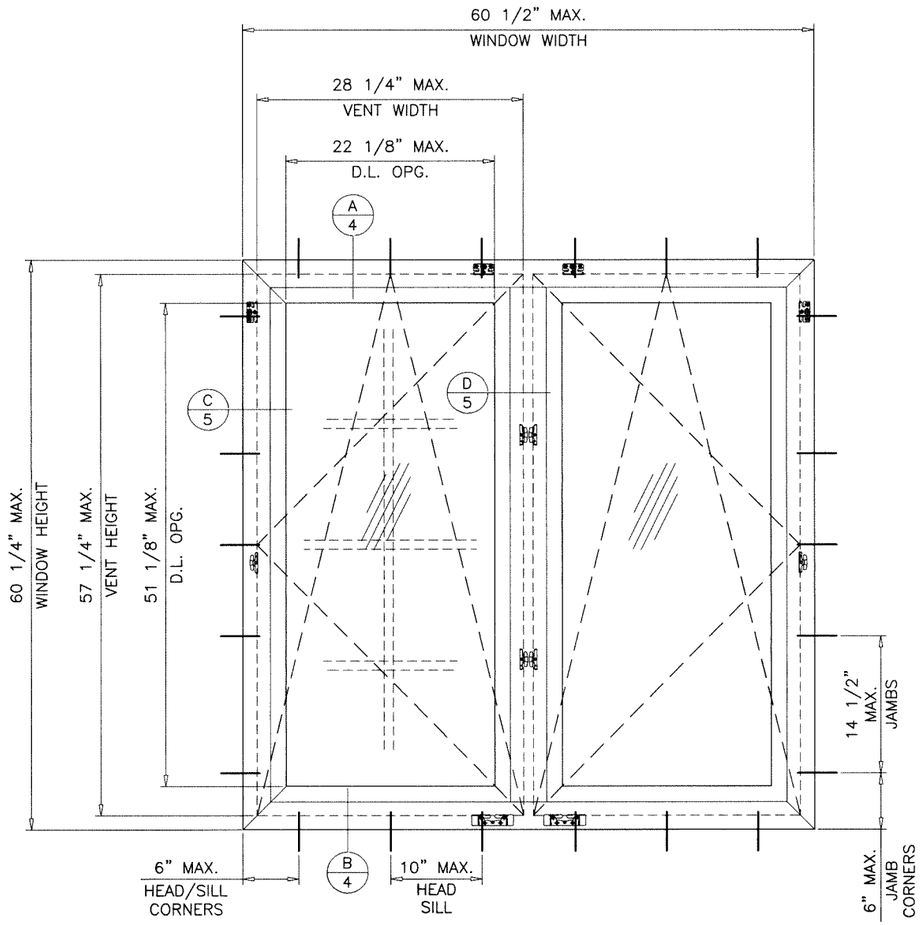
date: 04–21–26
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. 26–13F

sheet 1 of 7



SINGLE (X)



DOUBLE (X-X)

TYPICAL ELEVATIONS

LOCK OPTION #1

Sealed: 8/18/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #48384

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL\26-13F

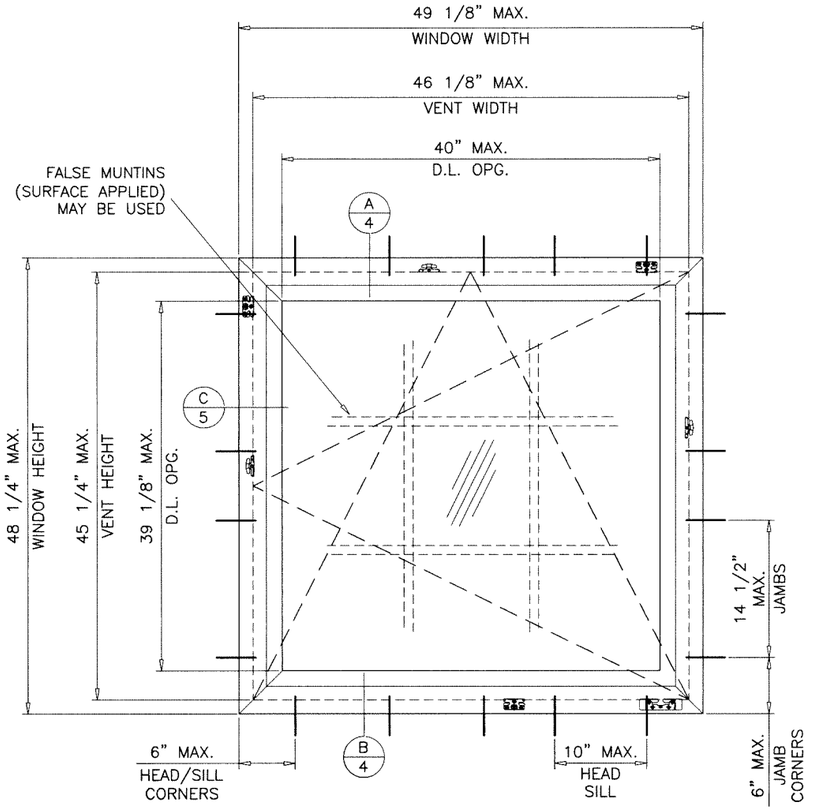
76MD TILT & TURN PVC WINDOW (N.I.)

Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874 www.kommerlingusa.com

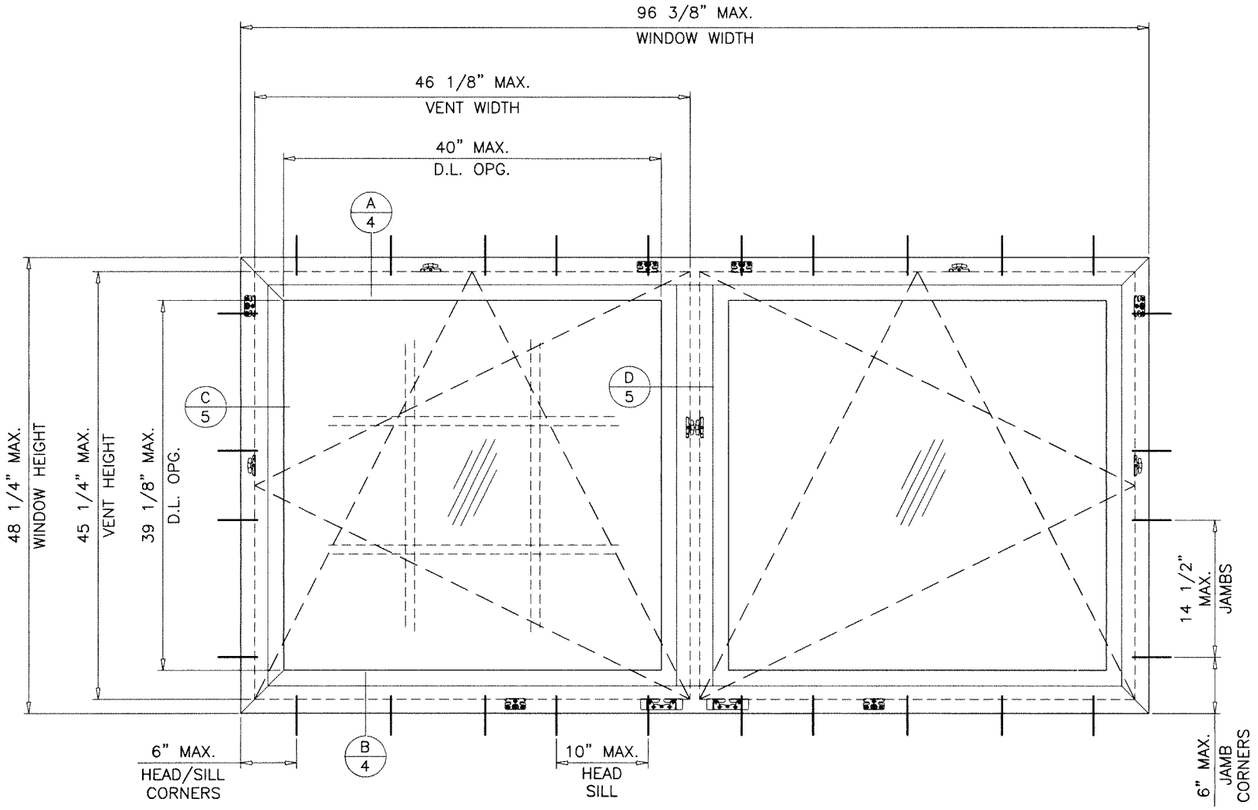
revisions:			
no	date	by	description

date: 04-21-26
scale: 3/4"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 26-13F



SINGLE (X)



DOUBLE (X-X)

TYPICAL ELEVATIONS

LOCK OPTION #2

Sealed: 8/18/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #48384

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL\26-13F

76MD TILT & TURN PVC WINDOW (N.I.)

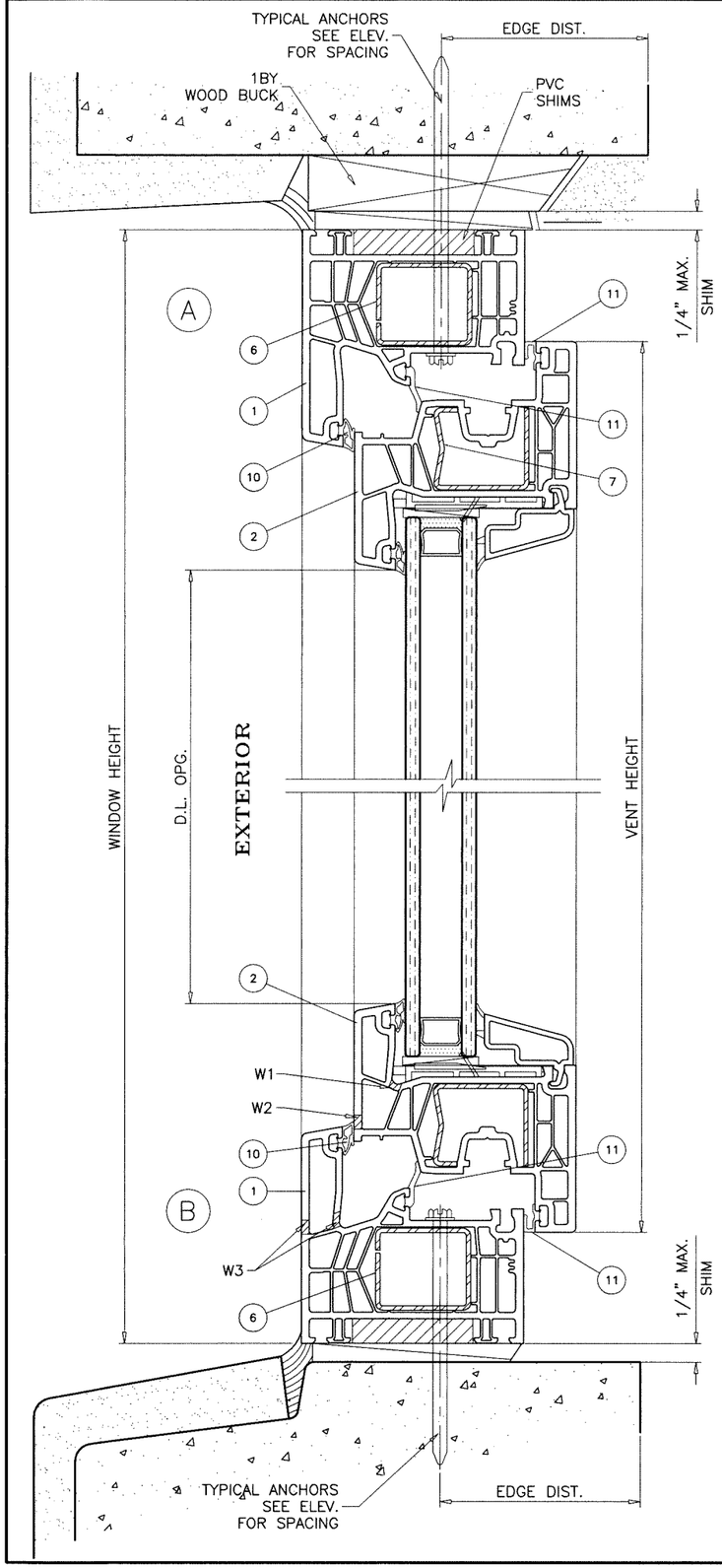
Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874 www.kommerlingusa.com

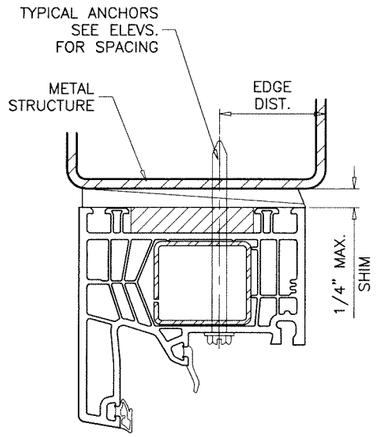
revisions:

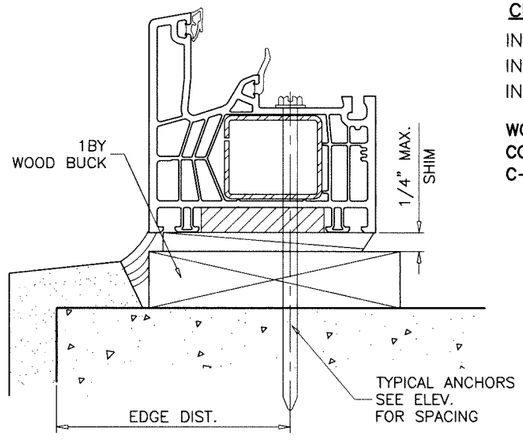
no	date	by	description

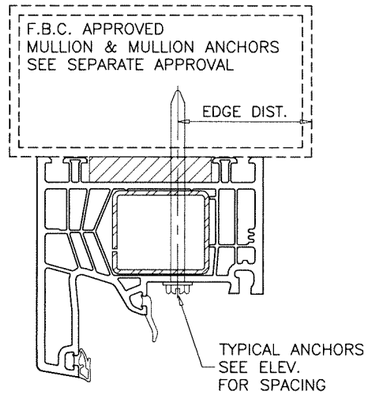
date: 04-21-26
scale: 3/4"=1'-0"
dr. by: TARIQ
chk. by:

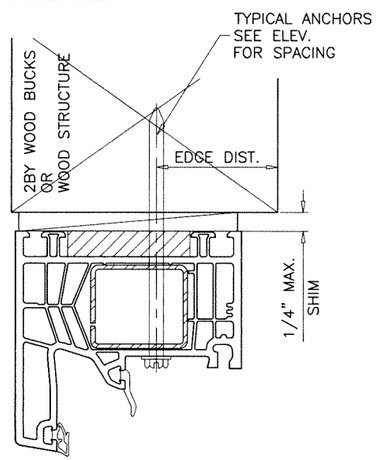
drawing no. 26-13F











WOOD BUCKS AND METAL STRUCTURE NOT BY 'KOMMERLING' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

3/16" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

3/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:

W1 = 3/16" X 1" WEEP SLOT AT 4-1/2" FROM EACH END.
W2 = 3/16" X 1" WEEP SLOT AT 6-1/2" FROM EACH END.
W3 = 3/16" X 1" WEEP SLOT AT 7-1/2" FROM EACH END.

Sealed: 8/18/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #48384

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 WWW.AFCENG.COM
FBPE #3538

COMP-ANL\26-13F

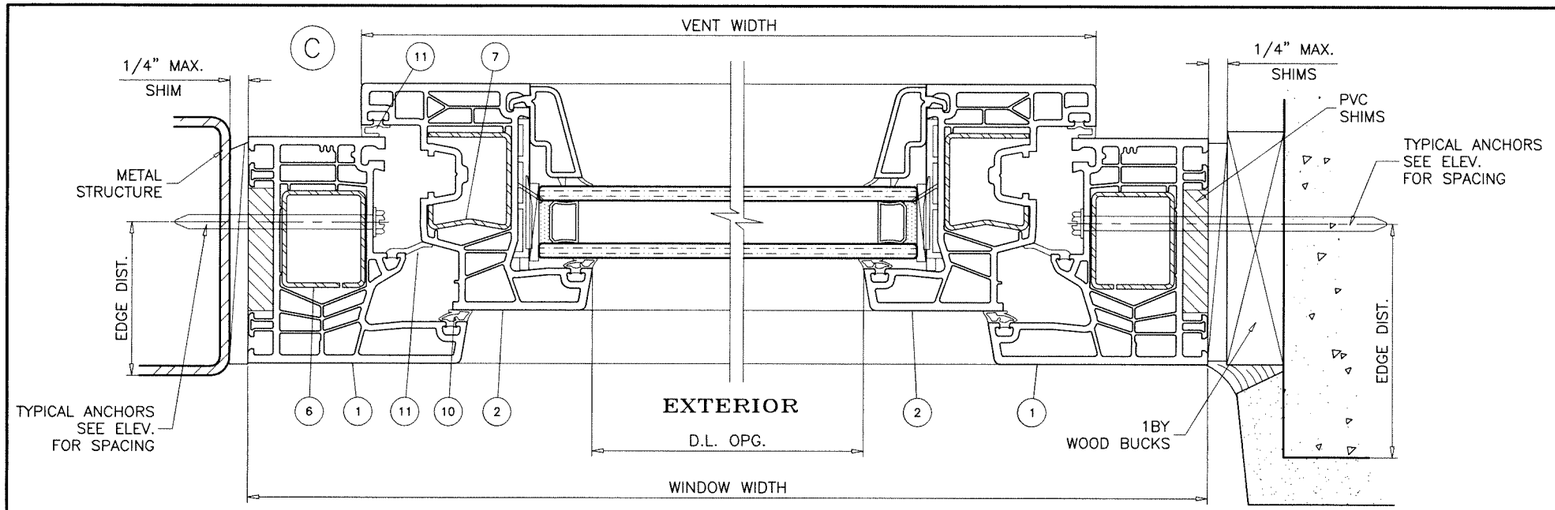
76MD TILT & TURN PVC WINDOW (N.I.)

Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874 www.kommerlingusa.com

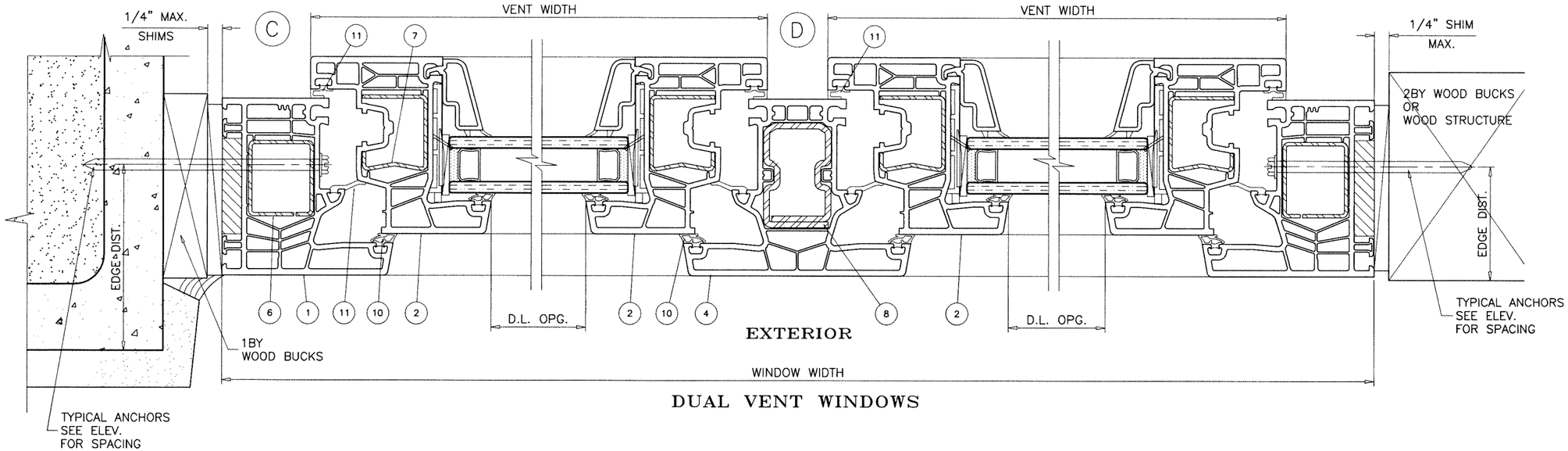
revisions:			
no	date	by	description

date: 04-21-26
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

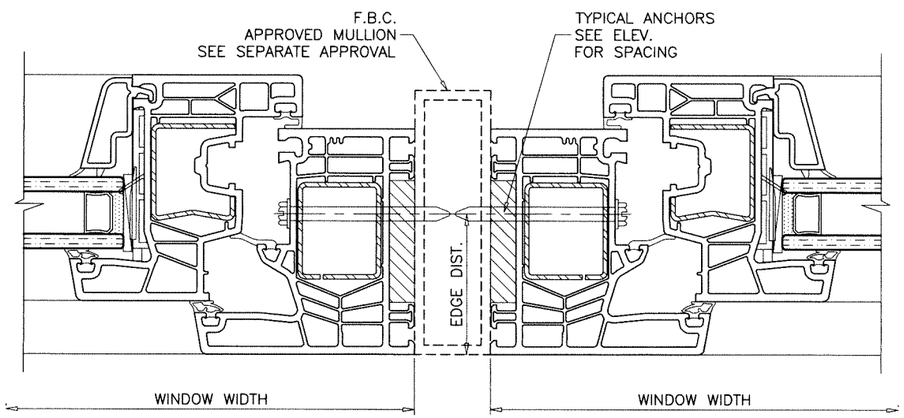
drawing no. 26-13F



SINGLE VENT WINDOWS



DUAL VENT WINDOWS



Sealed: 8/18/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #48384

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL 26-13F

76MD TILT & TURN PVC WINDOW (N.I.)

Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874
www.kommerlingusa.com

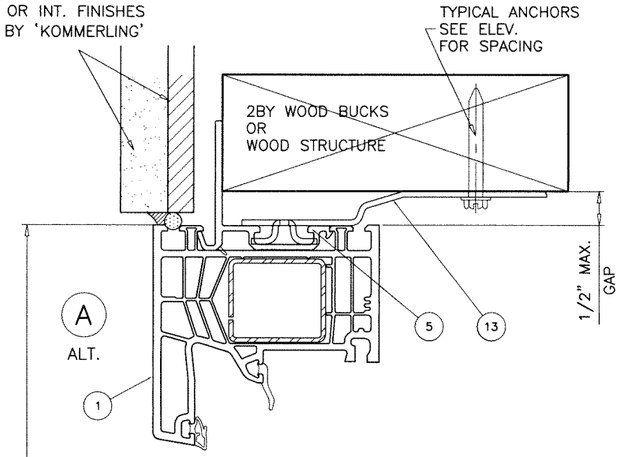
revisions:

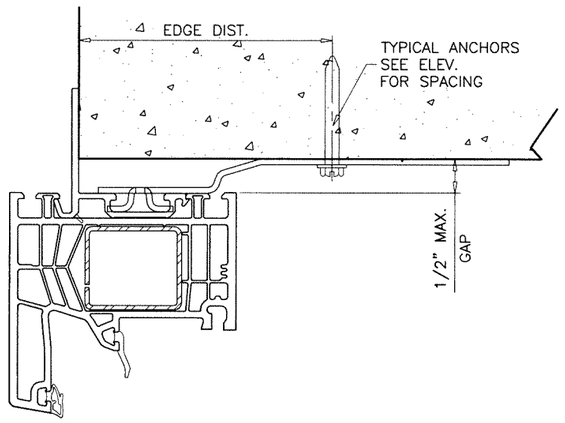
no	date	by	description

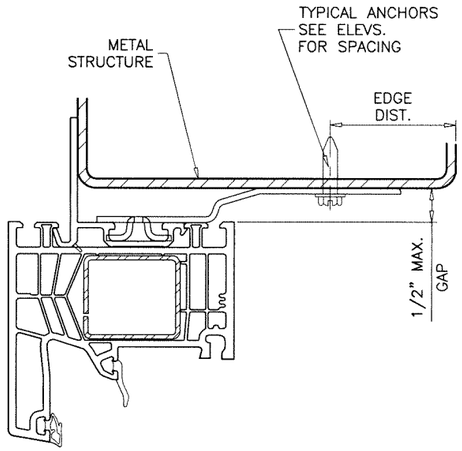
date: 04-21-26
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

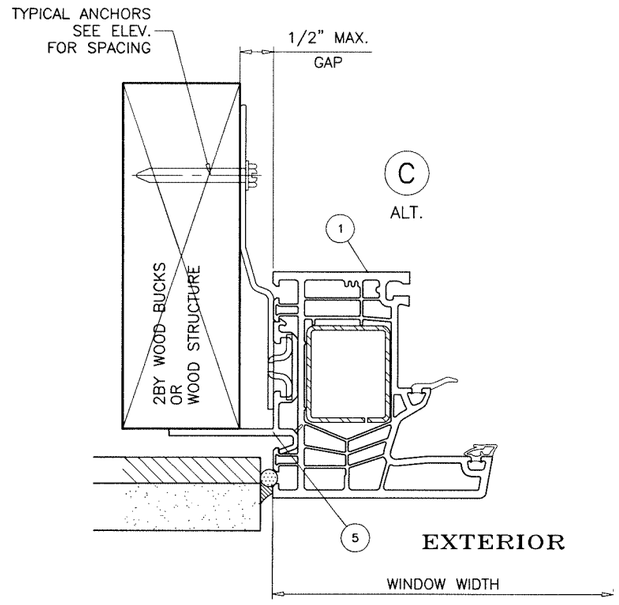
drawing no. 26-13F

ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY 'KOMMERLING'



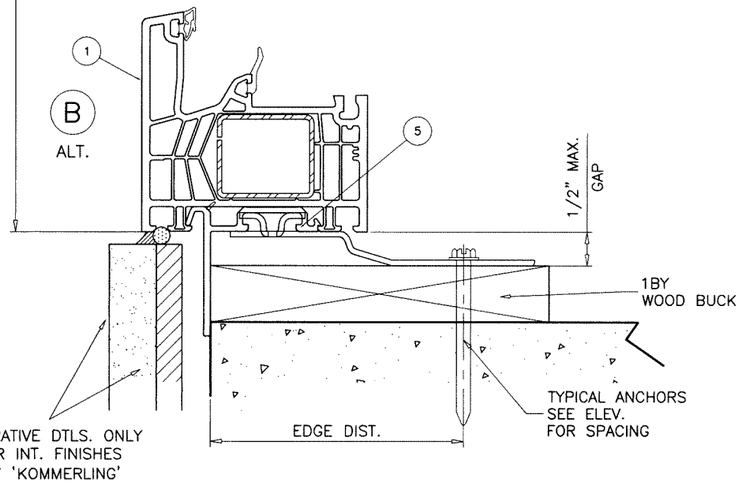






WINDOW HEIGHT

EXTERIOR



ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY 'KOMMERLING'

INSTALLATION DETAILS WITH STRAP CLIP

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 8/18/2026

FL #48384

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP–ANL 26–13F

76MD TILT & TURN PVC WINDOW (N.I.)

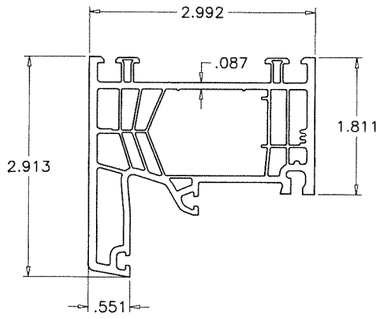
Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874 www.kommerlingusa.com

revisions:		
no	date	by description

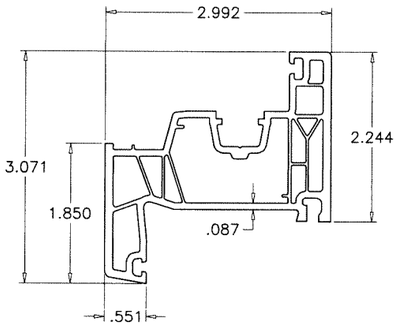
date: 04-21-26
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. 26–13F

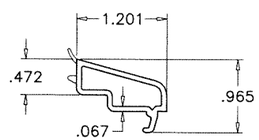
sheet 6 of 7



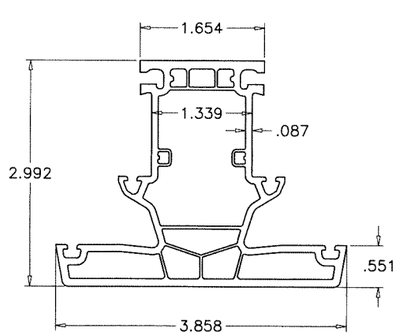
(1) WINDOW FRAME



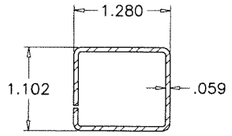
(2) VENT



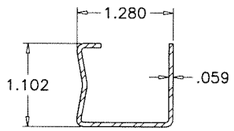
(3) GLAZING BEAD



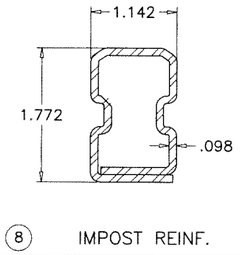
(4) IMPOST



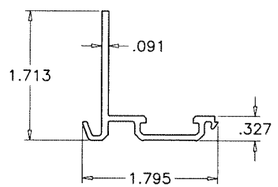
(6) FRAME REINF.



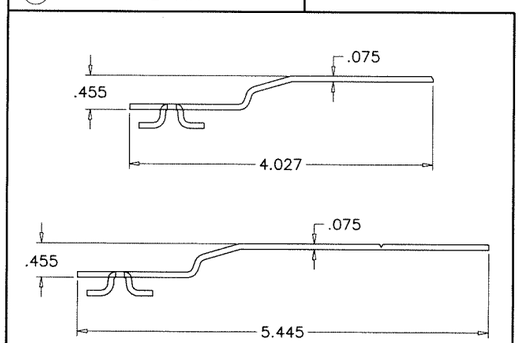
(7) VENT REINF.



(8) IMPOST REINF.



(5) NAIL–FIN



(13) STRAP CLIP

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	76171	4	WINDOW FRAME	VINYL	PROFINE
2	76271	AS REQD.	VENT	VINYL	PROFINE
3	76501	4/ LITE	GLAZING BEAD	VINYL	PROFINE
4	76372	–	IMPOST	VINYL	PROFINE
5	76837	–	NAIL–FIN	VINYL	PROFINE
6	V309	4/ LITE	WINDOW FRAME REINFORCING	GALV. STEEL	ROLL FORMED
7	V306	4	VENT REINFORCING	GALV. STEEL	ROLL FORMED
8	V319	1	IMPOST REINFORCING	GALV. STEEL	ROLL FORMED
9	G049.9	AS REQD.	GLAZING GASKET	EPDM	–
10	G049.9	AS REQD.	W'STRIPPING AT FRAME	EPDM	–
11	G051.P	AS REQD.	LEAF W'STRIPPING AT FRAME AND VENT	EPDM	–
12	–	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
13	–	AS REQD.	STRAP CLIP, 1" LONG	GALV. STEEL	–

WHITE PVC EXTRUSIONS TO BE LABELED WITH AAMA EXTRUDER CODE,
EXTRUDER NAME, CITY, STATE AND 'MDCA'.

LOCKS:

OPTION #1: (SINGLE WINDOW WIDTH ≤ 31–1/4")

6 POINT LOCK SYSTEM AT VENT
WITH ACTIVATING LEVER TYPE HANDLE AT 30" FROM BOTTOM
FASTENED WITH (2) #8 X 3/4" FH SMS

SURFACE MOUNT KEEPERS FACING LOCKING POINTS
EACH KEEPER FASTENED WITH
(3) #8 X 1–1/4" FH SELF DRILLING SCREW
(1) KEEPERS AT FRAME HEAD
(1) KEEPER AT FRAME SILL
(2) KEEPERS AT HINGE STILE
(2) KEEPERS AT LOCK STILE

OPTION #2:

7 POINT LOCK SYSTEM AT VENT
WITH ACTIVATING LEVER TYPE HANDLE AT 30" FROM BOTTOM
FASTENED WITH (2) #8 X 3/4" FH SMS

SURFACE MOUNT KEEPERS FACING LOCKING POINTS
EACH KEEPER FASTENED WITH
(3) #8 X 1–1/4" FH SELF DRILLING SCREW
(2) KEEPERS AT FRAME HEAD
(2) KEEPER AT FRAME SILL
(2) KEEPERS AT HINGE STILE
(1) KEEPERS AT LOCK STILE

HINGES:

SURFACE MOUNT METALLIC TILT & TURN HINGE
AT 3–1/2" FROM TOP AND BOTTOM
FASTENED TO FRAME WITH (4) #8 X 1–1/4" FH SELF DRILLING SCREWS

Sealed: 8/18/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #48384

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP–ANL 26–13F

76MD TILT & TURN PVC WINDOW (N.I.)

Kommerling USA, Inc.
3402 Stanwood Blvd N.E.
Huntsville, AL 35811
Phone: (256) 852-0874 www.kommerlingusa.com

revisions:		
no	date	by description

date: 04–21–26
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. 26–13F