

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS BOTH SMALL & LARGE MISSILE IMPACT RATED.
5. WHEN GLAZED FOR SMALL MISSILE IMPACT, THIS PRODUCT MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE OR AT ANY CODE DESIGNATED LARGE MISSILE IMPACT LOCATION WITHOUT AN APPROVED SHUTTER.
6. WHEN LARGE MISSILE IMPACT GLAZED, IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
10. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
11. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.

CORNER CONSTRUCTION:

1600 FRAME: THE VERTICAL FRAME MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED & JOINED VIA A SHEAR BLOCK (PART #12). THE SHEAR BLOCK IS FASTENED TO THE VERTICAL FRAME MEMBER WITH TWO(2) NO. 12 X 1 7/8" PHTF TYPE B SCREWS. THE HORIZONTAL MEMBER IS FASTENED TO THE SHEAR BLOCK WITH TWO(2) NO. 12 X 7/8" PHTF TYPE AB SCREWS. EACH CORNER IS SEALED WITH DOW 795 SILICONE SEALANT.

WINDOW FRAME: THE VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED & JOINED WITH TWO(2) NO. 10 X 1" PHTF SCREWS THRU THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS SCREW SPLINE. EACH CORNER IS SEALED WITH DOW 795 SILICONE SEALANT.

SASH: MITER CUT AND JOINED WITH A 2 7/8" X 2 7/8" X 1/2" THK. X 1/2" LONG ALUMINUM CORNER KEY. EACH CORNER IS SEALED WITH SCHNEE-MOREHEAD 5504 SEAM SEALER.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME END CLIP ANCHORS			
OPENING TYPE (SUBSTRATE)	CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	(1)(2) 1/4" CONCRETE SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	(2) 1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2500 PSI CONCRETE	(1)(2) 1/4" CONCRETE SCREW	1 1/4"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).			
(2) SCREWS MAY BE FLAT HEAD, PAN HEAD OR HEX HEAD.			

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.
CHECKED BY: W.W.S.
PLOT: 1-16
DATE: 10/15/08

DATE: 09/29/11
BY: W.R.M.
REVISION DESCRIPTION: A1 UPDATE TO PRESENT STANDARDS
NO. 1
DATE: 12/19/14
BY: W.W.S.
REVISION DESCRIPTION: B1 UPDATE TO PRESENT STANDARDS
NO. 2

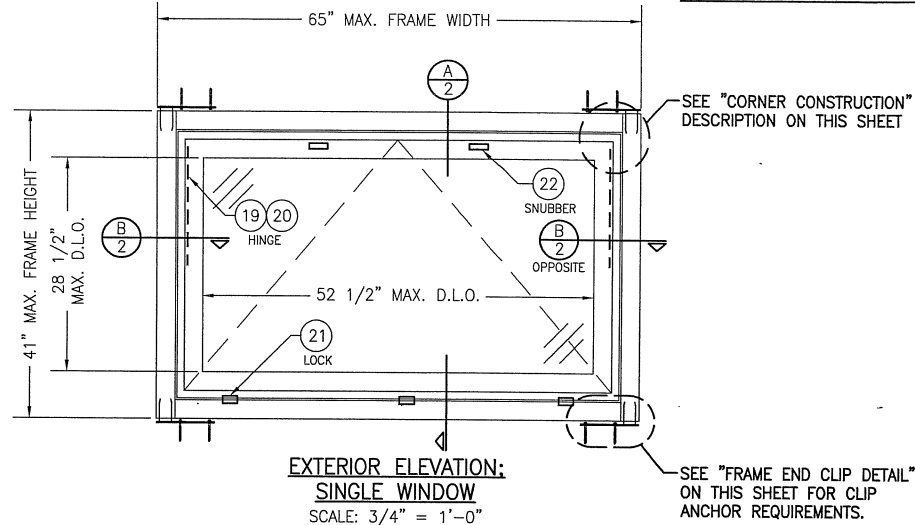
DRAWING TITLE: 8225TL LARGE & SMALL MISSILE IMPACT PROJECT-OUT WINDOW

MANUFACTURER:
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS:
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 130TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION:
JAN 06 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1615
SHEET NO. 1 OF 3
REV. B



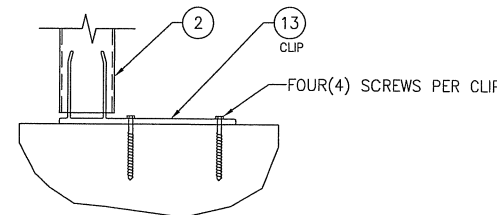
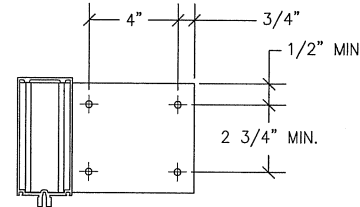
EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 3/4" = 1'-0"

(INSTALLATION OF WINDOW TO A PUNCHED OPENING USING KAWNEER'S 1600 FRAMING IS SHOWN. WINDOW MAY ALSO BE INSTALLED DIRECTLY INTO KAWNEER'S 1600 CURTAIN WALLS PER NOTE ON SHEET 2)

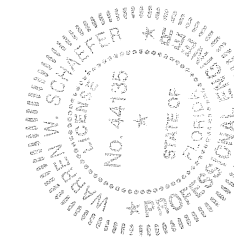
ALLOWABLE DESIGN PRESSURE

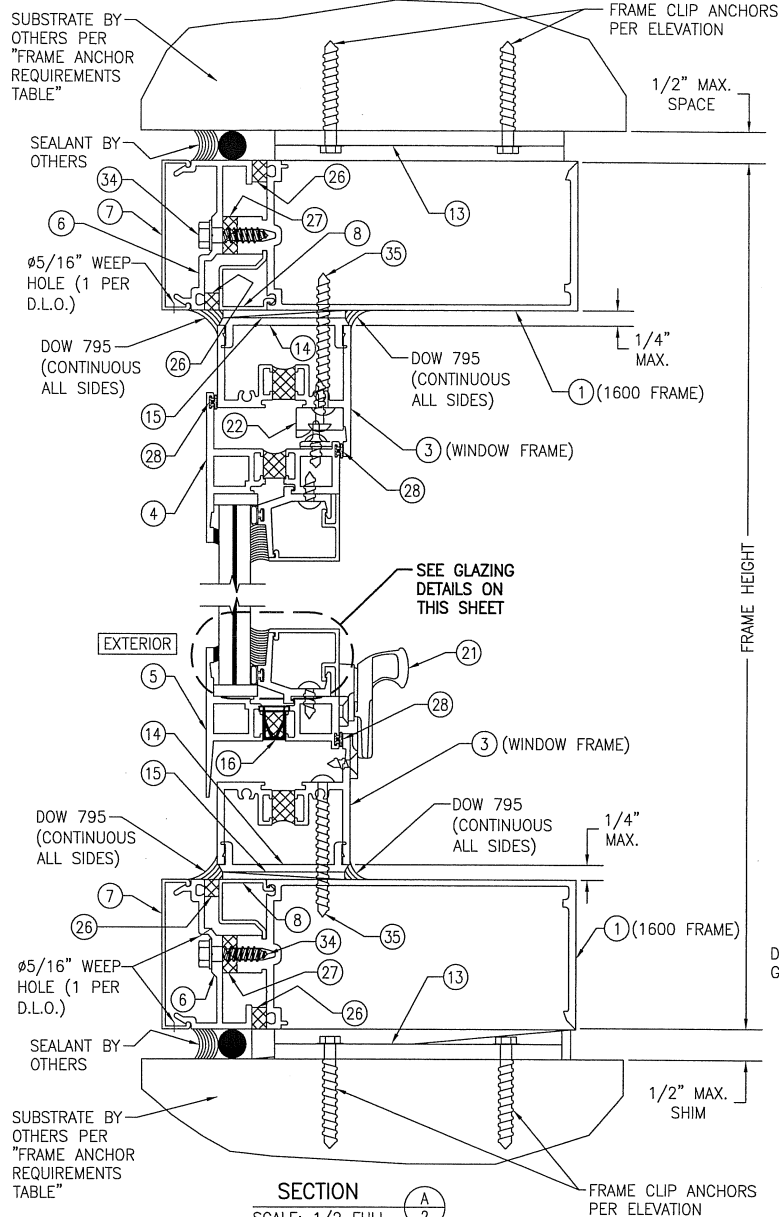
+/-65 PSF



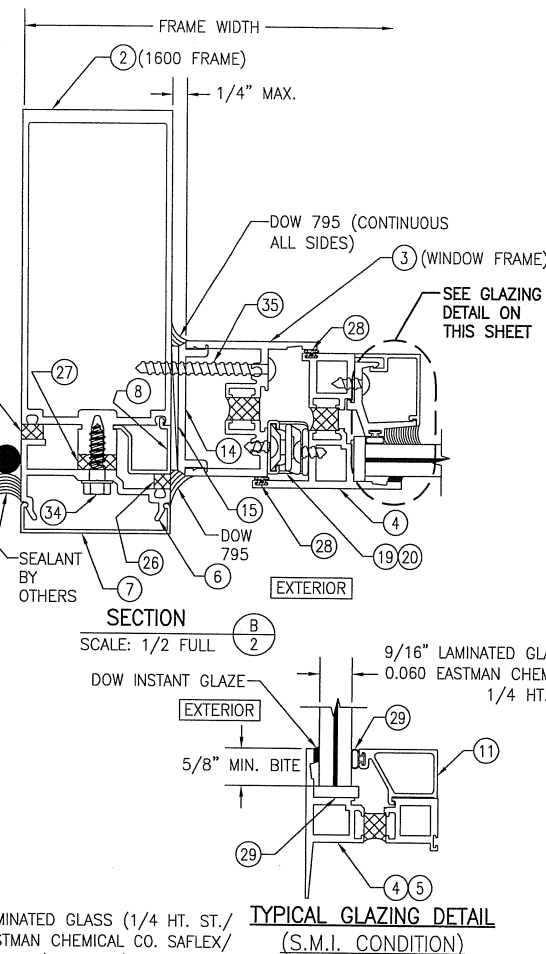
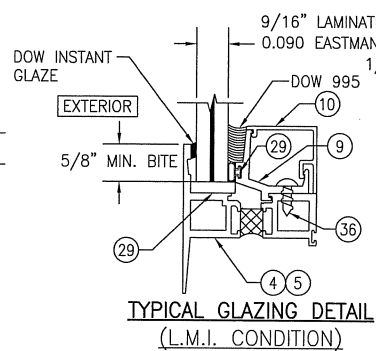
FRAME END CLIP DETAIL

SCALE: N.T.S.

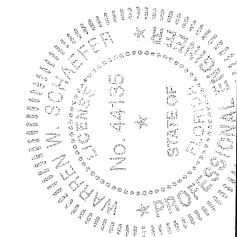




NOTE:
THIS WINDOW MAY BE INSTALLED INTO A PUNCHED WALL OPENING USING THE 1600 FRAME AS SHOWN. IT MAY ALSO BE INSTALLED DIRECTLY INTO A KAWNEER 1600 CURTAIN WALL SYSTEM PROVIDING THE WINDOW FRAME IS SECURED TO THE 1600 CURTAIN WALL FRAMING AS SHOWN IN THESE SECTIONS.



TYPICAL GLAZING DETAIL
(S.M.I. CONDITION)



DRAWING NO. 1615		REV. B	
SHEET NO. 2 OF 3			
DRAWING TITLE 8225TL LARGE & SMALL MISSILE IMPACT PROJECT-OUT WINDOW		DRAWN BY: W.R.M.	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		CHECKED BY: W.W.S.	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		DATE: 10/15/08	
CERTIFICATION JAN 06 2015		PLOT: 1=2	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DATE: 10/15/08	
NO.		REVISION DESCRIPTION	
BY		DATE	

