

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 LEVEL "E" LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. 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.
7. 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.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. 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.
10. 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:

FRAME CORNERS & VERTICAL INTERMEDIATE CORNERS: HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED TO THE VERTICAL MEMBER, FASTENED WITH 3 TO 4 S.S. NO. 12 X 1" PHT'S FASTENERS THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

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

OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & STRAP ANCHOR SCREWS			
(1) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 3/8"	1"
MIN. 16 GA. 50 KSI METAL STUD	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T6 ALUM.	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
3000 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"

(1) FRAME SCREW MOUNT REQUIRES MIN. 2X4; STRAP ANCHOR MOUNT REQUIRES MIN. 2X6.

(2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

MULLION PRESSURE TABLE
(VERTICAL INTERMEDIATE
MULLION)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		6 ANCHORS	4 ANCHORS
126	60	30.0	30.0
	54	33.3	33.3
	48	37.5	37.5
	42	42.9	42.9
	36	50.0	50.0
	30	60.0	60.0
	28	60.0	60.0
120	60	33.2	31.5
	54	36.8	35.0
	48	41.5	39.4
	42	47.4	45.0
	36	55.3	52.5
114	60	38.7	33.2
	54	43.0	36.8
	48	48.3	41.5
	42	55.3	47.4
	36	60.0	55.3
	33	60.0	60.0
	60	45.5	35.0
108	54	50.5	38.9
	48	56.9	43.8
	42	60.0	50.0
	36	60.0	58.3
	35	60.0	60.0
102	60	54.0	37.1
	54	60.0	41.2
	48	60.0	46.3
	42	60.0	53.0
	37	60.0	60.0
96	60	57.4	39.4
	54	60.0	43.8
	48	60.0	49.2
	42	60.0	56.3
	39	60.0	60.0
90	60	60.0	42.0
	54	60.0	46.7
	48	60.0	52.5
	42	60.0	60.0
84	60	60.0	45.0
	54	60.0	50.0
	48	60.0	56.3
	45	60.0	60.0
78	60	60.0	48.5
	54	60.0	53.9
	48	60.0	60.0
72	60	60.0	52.5
	54	60.0	58.3
	52	60.0	60.0
66	60	60.0	57.3
63	60	60.0	60.0

MULLION PRESSURE TABLE
(VERTICAL SIDE JAMB
MULLION)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		6 ANCHORS	4 ANCHORS
126	31 3/8	30.0	30.0
	28 3/8	33.3	33.3
	25 3/8	37.5	37.5
	22 3/8	42.9	42.9
	19 3/8	50.0	50.0
	16 3/8	60.0	60.0
	15 3/8	60.0	60.0
120	31 3/8	33.2	31.5
	28 3/8	36.8	35.0
	25 3/8	41.5	39.4
	22 3/8	47.4	45.0
	19 3/8	55.3	52.5
114	31 3/8	38.7	33.2
	28 3/8	43.0	36.8
	25 3/8	48.3	41.5
	22 3/8	55.3	47.4
	19 3/8	60.0	55.3
	17 7/8	60.0	60.0
108	31 3/8	45.5	35.0
	28 3/8	50.5	38.9
	25 3/8	56.9	43.8
	22 3/8	60.0	50.0
	19 3/8	60.0	58.3
102	31 3/8	54.0	37.1
	28 3/8	60.0	41.2
	25 3/8	60.0	46.3
	22 3/8	60.0	53.0
	19 7/8	60.0	60.0
96	31 3/8	57.4	39.4
	28 3/8	60.0	43.8
	25 3/8	60.0	49.2
	22 3/8	60.0	56.3
	20 7/8	60.0	60.0
90	31 3/8	60.0	42.0
	28 3/8	60.0	46.7
	25 3/8	60.0	52.5
84	31 3/8	60.0	45.0
	28 3/8	60.0	50.0
	25 3/8	60.0	56.3
	23 7/8	60.0	60.0
78	31 3/8	60.0	48.5
	28 3/8	60.0	53.9
	25 3/8	60.0	60.0
72	31 3/8	60.0	52.5
	28 3/8	60.0	58.3
	27 3/8	60.0	60.0
66	31 3/8	60.0	57.3
63	31 3/8	60.0	60.0

ALLOWABLE D.L.O.
SIZE TABLE

MAXIMUM D.L.O. HEIGHT (IN.)	MAXIMUM D.L.O. WIDTH (IN.)
120	41
116 1/2	42 1/4
108 3/4	45 1/4
102	48 1/4
96	51 1/4
90 5/8	54 1/4
86	57 1/4

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.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/16/20	
DATE	BY	REVISION	DESCRIPTION
NO.			
DRAWING TITLE: IR501T & IR501UT ALUMINUM LEVEL "E" LARGE MISSILE IMPACT STORE FRONT SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: JUL 16 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1981 REV. SHEET NO. 1 OF 5	

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