KAWNEER 1600 WALL SYSTEM 1 3" x 6 1/2" CURTAINWALL SYSTEM LEVEL E IMPACT RESISTANT

GENERAL NOTES:

- 1. THIS PRODUCT MEETS ALL THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE.
- 2. THIS SYSTEM HAS BEEN TESTED PER ĀSTM E1886, AND ASTM E1996 FOR LEVEL E LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- 3. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE DESIGN PRESSURE CANNOT EXCEED THE PRESSURES LISTED FOR EACH COMPONENT OF THIS SYSTEM.
- 4. WOOD BUCKS BY OTHERS AND MUST BE ANCHORED PROPERLY TO TRANSFER IMPOSED LOADS TO THE STRUCTURE.
- 5. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6. CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
- 7. THE GLASS CHART IN SECTION 5 IS BASED ON TESTED PRESSURES AND ASTM E 1300-09.
- 8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.

SYSTEM NOTES:

GLASS	SEE CHART IN SECTION 05 FOR ALLOWABLE GLASS
	TYPES, SIZES AND DESIGN PRESSURES.
MULLIONS	SEE CHART ON SHEET 4 FOR ALLOWABLE MULLION
	HEIGHTS AND SPACING.
JAMBS	SEE CHART ON SHEET 4 FOR ALLOWABLE JAMB
	HEIGHTS AND SPACING.
ANCHORS	SEE SECTION 06 FOR ANCHOR CHART AND ANCHOR
	SPACING DETAILS.
SYSTEM	THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS
	THE LOWEST ALLOWABLE DESIGN PRESSURE OF THE
	COMPONENTS ABOVE.

DESIGN PRESSURE

+100 / -123 Psf

TABLE OF CONTENTS					
SHEET	DESCRIPTION				
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02 SECTION 2 - ELEVATION					
03	SECTION 3 - HORIZONTAL DETAILS				
04	VERTICAL DETAILS / MULLION CHART				
05	SECTION 5 - GLAZING DETAILS - GLASS TYPE 1				
06 SECTION 6 - HEAD/SILL ANCHOR DETAILS (STEEL & CONCRETE					
07	HEAD/SILL ANCHOR DETAILS (WOOD) & ANCHOR CHART				
80	SECTION 7 - BILL OF MATERIALS / EXTRUSION PROFILES				





9/10/2021 LUCAS TURNER TX PE 115094 TURNER ENGINEERING & CONSULTING, INC., TBPE REG. #18075 2428 OLD NATCHEZ TRACE TRL. CAMDEN, TN, 38320 PH 941-380-1574

PRODUCT: 1,600 WALL

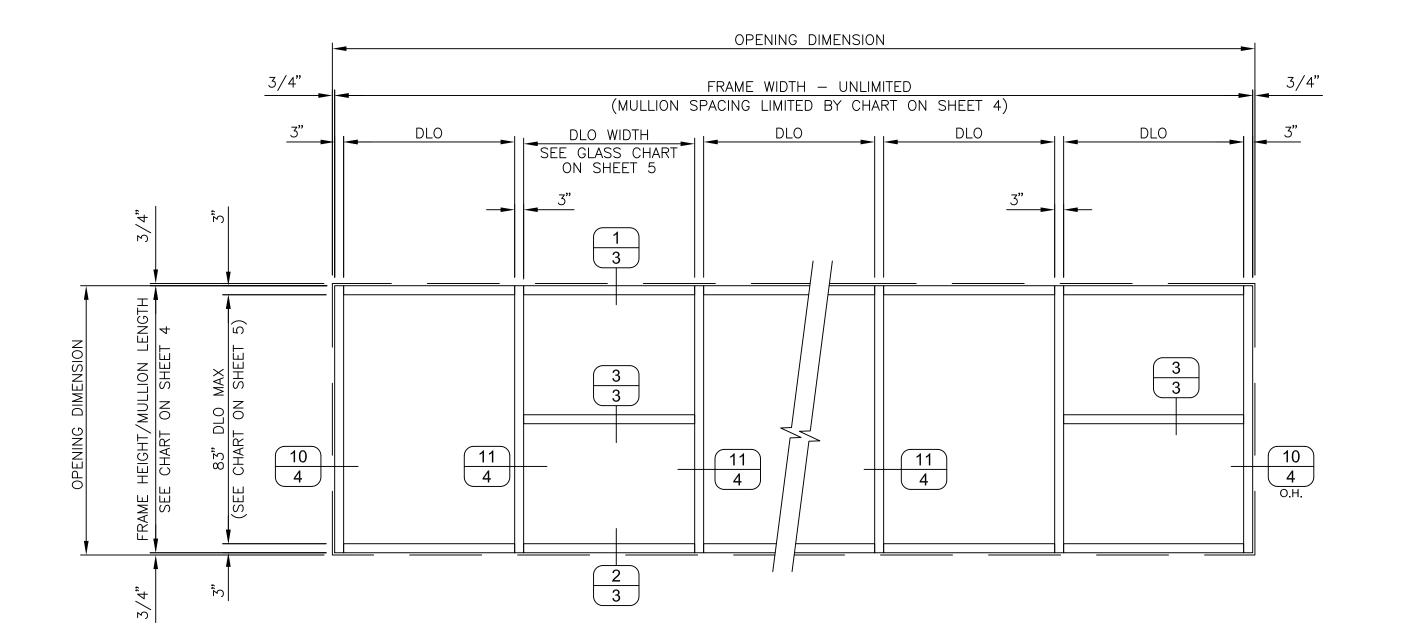
3" LEVEL E

DWG:
1600-3IR-LVLE

SECTION:

SHEET:

ELEVATION



EXTERIOR VIEW (NOT TO SCALE)

DESIGN PRESSURE

+100 / -123 Psf



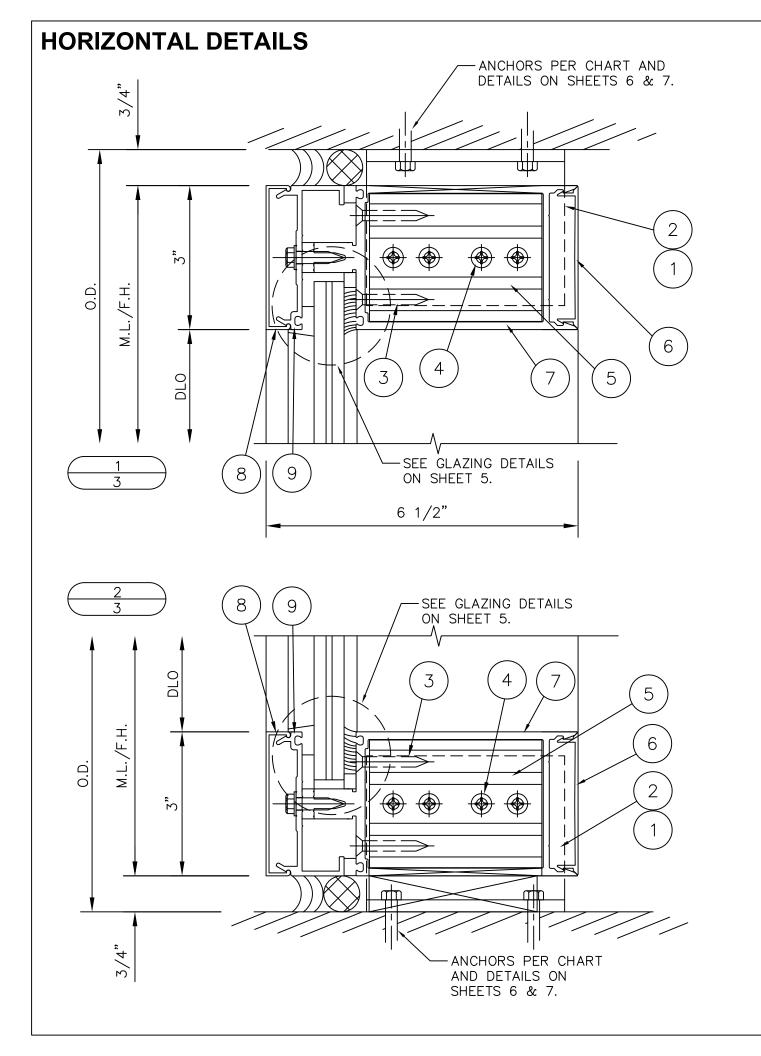


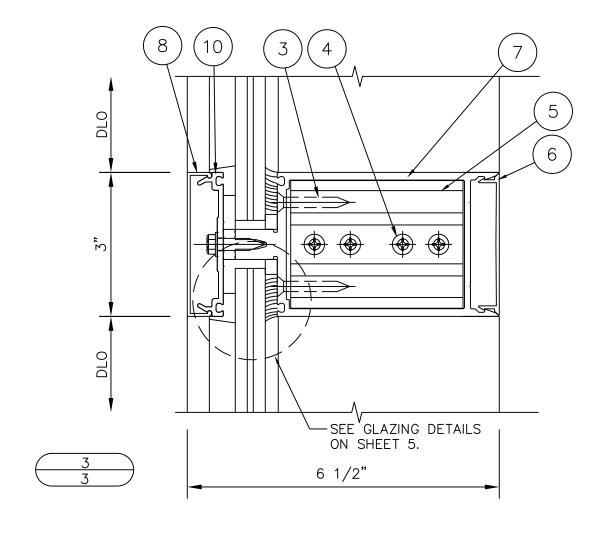
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PRODUCT: 1600 WALL SYS 1 3" LEVEL E

DWG: 1600-3IR-LVLE SECTION:

SHEET:









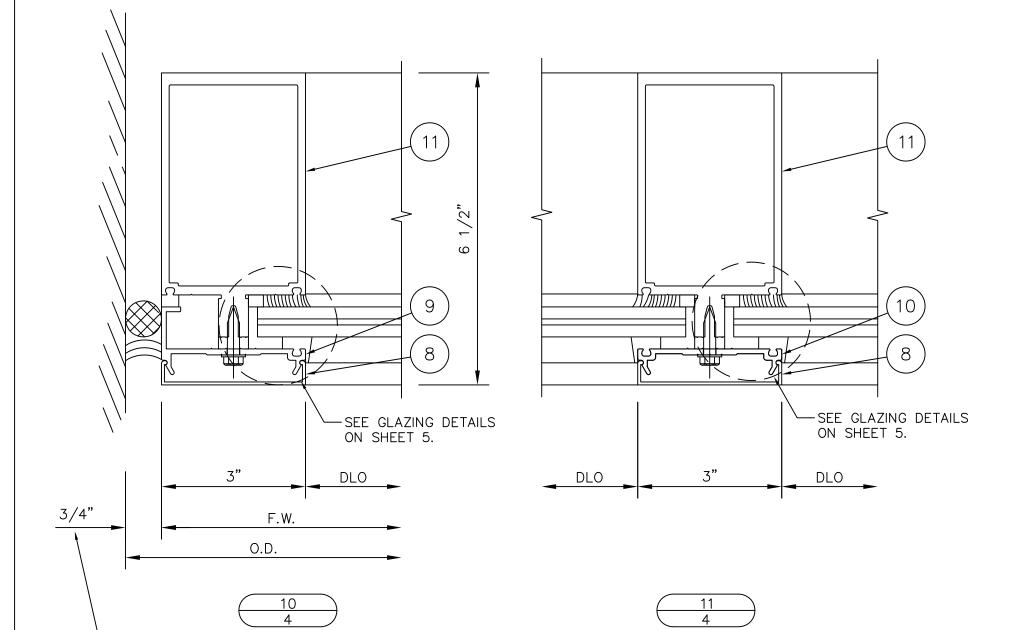
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PRODUCT: 1600 WALL SYS 1 3" LEVEL E

1600-3IR-LVLE SECTION:

SHEET:

VERTICAL DETAILS



-NOMINAL DIMENSION. PERIMETER SEALANT WIDTH MUST COMPLY WITH MANUFACTURER'S

RECOMMENDATIONS AND ASTM C1472.

MULLION CHART						
		MAX D	ESIGN P	RESSUR	E (psf)	
		MUL	LION	JAMB		
HEIGHT	WIDTH	M1		J1		
(in)	(in)	(+)	(-)	(+)	(-)	
	48	100	123	100	123	
78	60	100	123	100	123	
	64 1/2	100	123	100	123	
	69	100	123	100	123	
	48	100	123	100	123	
83	60	100	123	100	123	
	64 1/2	100	123	100	123	
	69	100	123	100	123	
	48	100	123	100	123	
89	60	100	123	100	123	
	64 1/2	100	123	100	123	
	69	-	-	100	123	

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AN ARCONIC COMPANY
PH: (770) 449–555





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PRODUCT: 1600 WALL SYS 1 3" LEVEL E

DWG: 1600-3IR-LVLE SECTION:

SHEET:

LEVEL E LARGE AND SMALL MISSILE GLAZING

GLASS TYPE 1:

5/8" LAMINATED

1/4" HEAT STRENGTHENED

0.050" SAFLEX HP INTERLAYER

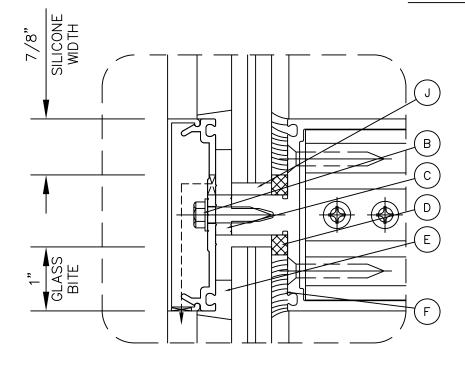
0.077" VANCEVA STORM INTERLAYER

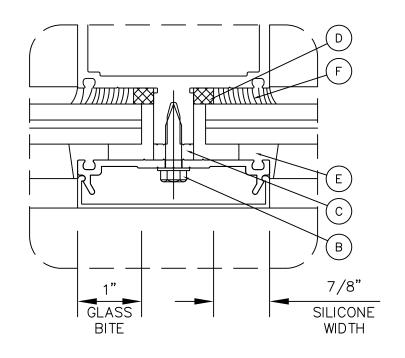
0.050" SAFLEX HP INTERLAYER

1/4" HEAT STRENGTHENED

GLASS CHART						
GLASS TYPE	GLASS TYPE 1 (LEVEL E LMI/SMI)					
TESTED DLO'S	TESTED DLO'S = 57"x83" (+100/-123 psf), 66"x40" (+100/-123 psf)					
	ALLOW	ABLE DESIG	GN PRESSU	RE (psf)		
DLO HEIGHT		DLO WII	DTH (in)			
(in)	57	60	63	66		
63	+100/-123	+100/-123	+100/-123	+100/-123		
67	+100/-123	+100/-123	+100/-123	+100/-123		
72	+100/-123 +100/-123 +100/-123 +10					
75	+100/-123	+100/-123	+100/-123	-		
79	+100/-123	+100/-123	-	2		
83	+100/-123		5	77.		

GLAZING DETAILS

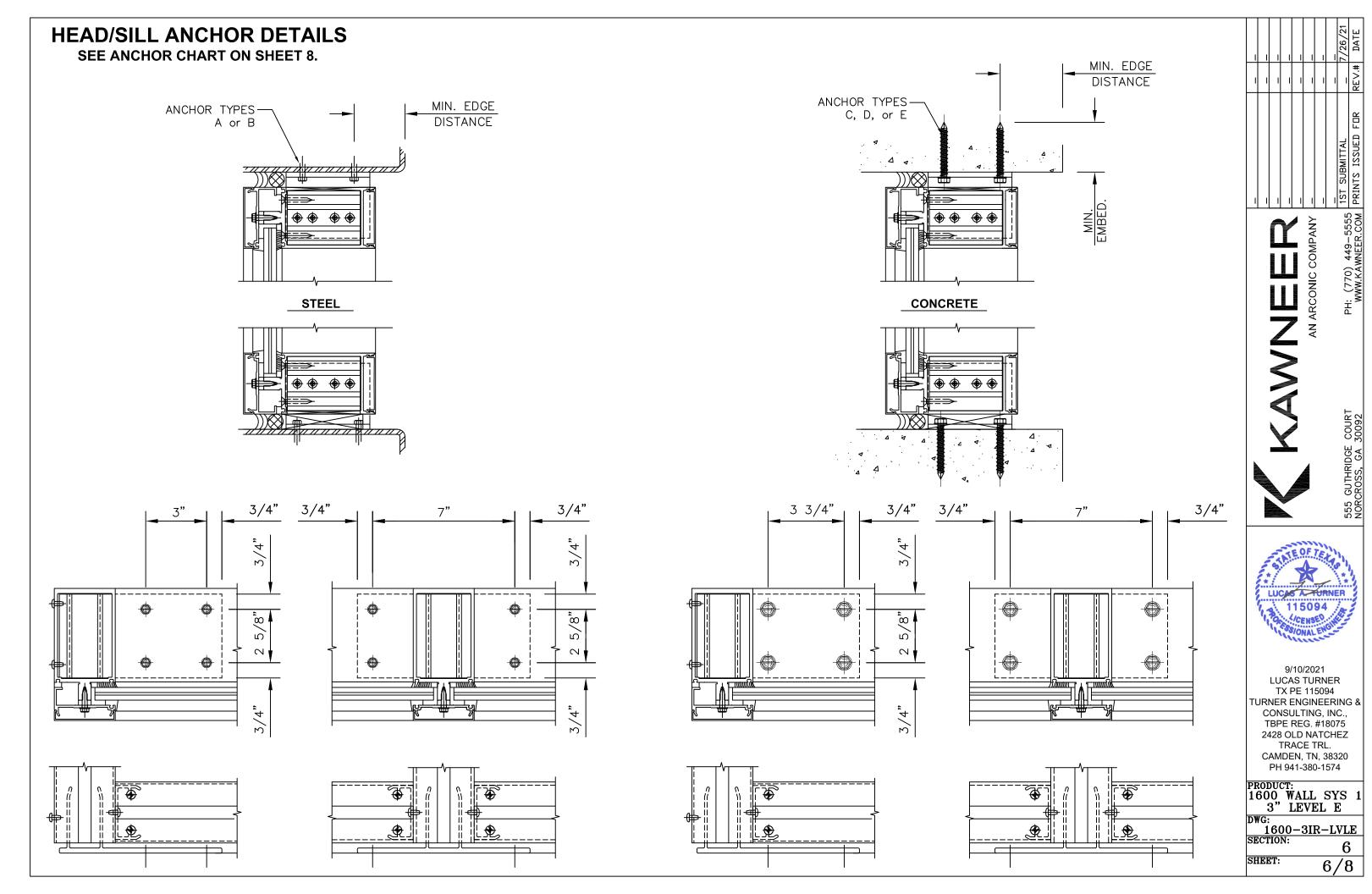




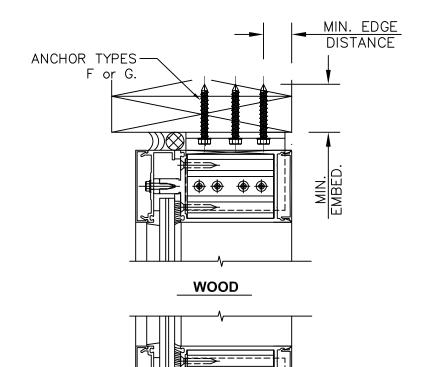
- 3 128-406 1/4 x 1" AB HWHTF (3" O.C.)
- C 162-310 THERMAL SEPARATOR
 - (SHORE "A" 70±5 DUROMETER EPDM)
- D 027-845 1/4" X 5/16" TREMCO V2200 SERIES FOAM TAPE
- E 27-850 FIXED GASKET
 - (SHORE "A" 60±5 DUROMETER EPDM)
- F DOW CORNING 995 SILICONE SEALANT (NBK)
- J 27-342 SETTING BLOCK-FBC 2411.3.3.1 COMPLIANT (80±5 DUROMETER NEOPRENE)

- 128-406 1/4 x 1" AB HWHTF (3" O.C.)
- 162-310 THERMAL SEPARATOR
 - (SHORE "A" 70±5 DUROMETER EPDM)
- 0 027-845 1/4" X 5/16" TREMCO V2200 SERIES FOAM TAPE
- 027-850 FIXED GASKET
 - (SHORE "A" 60±5 DUROMETER EPDM)
- DOW CORNING 995 SILICONE SEALANT (NBK)



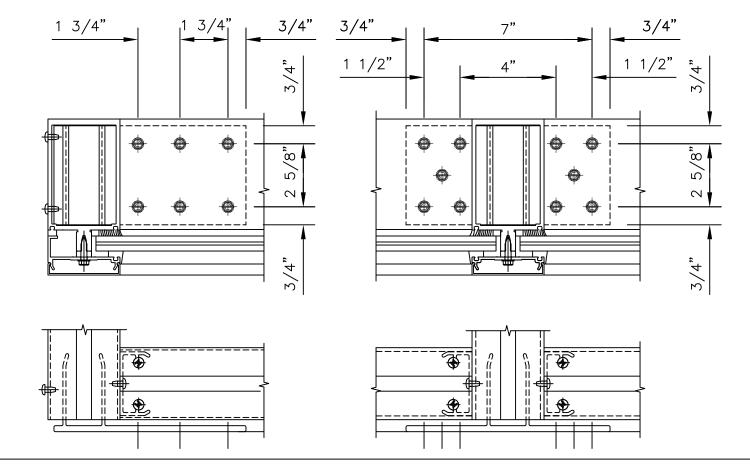


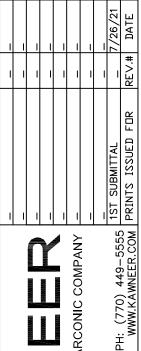
HEAD/SILL ANCHOR DETAILS



		HEAD/SILL AND	HORS			
				YTITY	MIN EMBED	MIN EDGE
SUBSTRATE	MARK	TYPE	MULLION	JAMB	(in)	DISTANCE (in)
	Α	5/16" DIA. F-TYPE SCREW	6	4	FULL*	1"
STRUCTURAL STEEL		(Fu=120 ksi min)	3			
(1/4", A36 min)	В	5/16" DIA. ELCO DRIL-FLEX	6	4	FULL*	1"
	С	3/8" DIA. POWERS WEDGE BOLT	4	4	3 1/2"	4 1/2"
CONCRETE (4000 psi min)	D	3/8" DIA. DEWALT SCREW- BOLT+	4	4	3 1/2"	4 1/2"
	E	3/8" DIA. SIMPSON-STRONG TIE TITAN HD	4	4	3 1/2"	4 1/2"
WOOD	F	5/16" DIA. ELCO ULTRACON	10	6	2"	1 1/2"
(3", S.G.=0.5 min)	G	#14 WOOD SCREW (Fu=120 ksi min)	10	6	2"	1 1/2"

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.







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PRODUCT: 1600 WALL SYS 1 3" LEVEL E

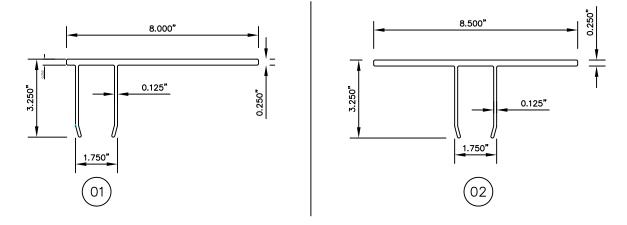
1600-3IR-LVLE SECTION: 6

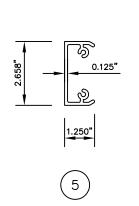
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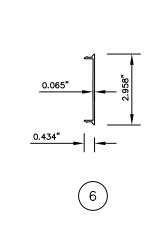
BILL OF MATERIALS

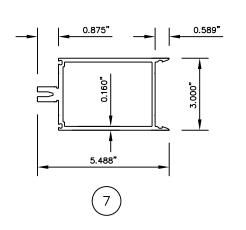
BILL OF MATERIALS								
NO.	PART NO.	DESCRIPTION	MATERIAL					
01	833141	"F" ANCHOR	6063 T6 ALUMINUM					
02	833142	"T" ANCHOR	6063 T6 ALUMINUM					
03	128284	#12 x 1 1/2" AB FHTF SCREW	400 SERIES STAINLESS STEEL					
04	128396	#12 x 7/16" B PHTF SCREW	300 SERIES STAINLESS STEEL					
05	05 833140 SHEAR BLOCK		6063 T6 ALUMINUM					
06	06 809752 FILLER		6063 T6 ALUMINUM					
07	833136	CUSTOM HORIZONTAL	6063 T6 ALUMINUM					
80	813879	3" COVER	6063 T6 ALUMINUM					
09	833139	3" PERIMETER PRESSURE PLATE	6063 T6 ALUMINUM					
10	808074	3" PRESSURE PLATE	6063 T6 ALUMINUM					
11	808074	CUSTOM MULLION	6063 T6 ALUMINUM					
12	965648	CHANNEL	6063 T6 ALUMINUM					
13	027933	PERIMETER GASKET	SHORE "A" 70±5 DUROMETER EPDM					

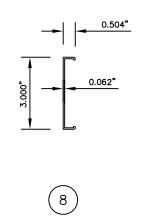
EXTRUSION PROFILES

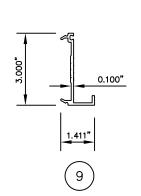


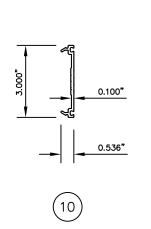


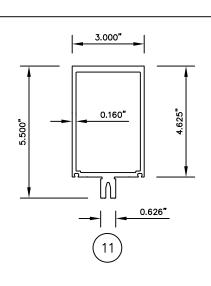
















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DWG:
1600-3IR-LVLE
SECTION:

SHEET: O