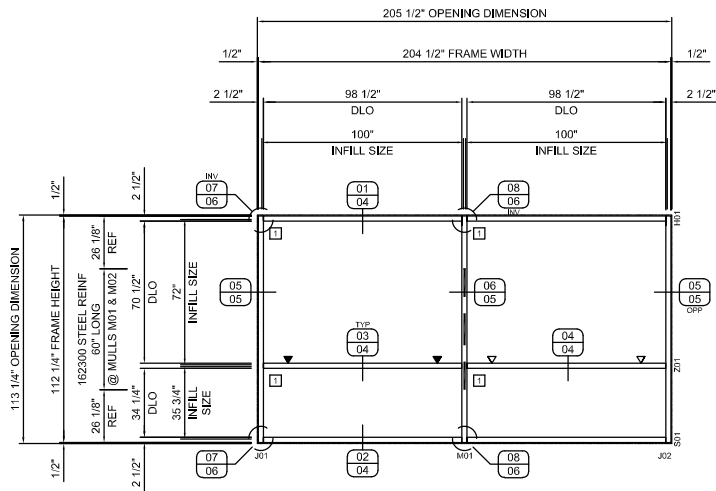


DESIGN PRESSURE = +/- 50 PSF

▼ = LOCATE SETTING BLOCK AT 1/8th POINTS

▽ = LOCATE SETTING BLOCK 6" FROM EACH END OF HORIZONTAL



TEST UNITS #1 & #2

UNIT 1: AIR, WATER, STRUCTURAL, LMI, CYCLE
UNIT 2: STRUCTURAL, LMI, CYCLE
KAWNEER 1600 Wall System™ 1
7 13/16" SYSTEM DEPTH
TWO (2) THUS REQUIRED

CERTIFICATION TEST UNITS
KAWNEER 1600 Wall System™ 1 - 7 13/16" DEPTH
IMPACT TESTING
ASTM E283, E330, E331, 1886/1996 & TAS 201, 202, 203
1 5/16" GLAZING

GLAZING SCHEDULE

TYPE	NOMINAL THICKNESS	TYPICAL THICKNESS	DESCRIPTION
1	1 5/16"	1.340	1/4 " FT OUTBOARD / 1/2" SPACER/ 1/4" HS INBOARD / 0.090 KURARAY SG / 1/4" HS INBOARD
INFILL SIZE = SEE ELEVATION			

NOTES

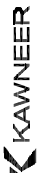
1. FINISH TO BE #17 CLEAR ANODIZED.
2. ALL MATERIAL TO BE FACTORY FABRICATED. ASSEMBLED, GLAZED, AND INSTALLED IN STEEL BUCKS ON SITE.
3. SEE SHEETS 02 OF 06 FOR TEST SCHEDULES.
4. SEE SHEET 03 OF 06 FOR MATERIAL LIST AND TYPICAL GLAZING DETAIL.
5. SEE SHEETS 04 AND 05 OF 06 FOR DETAILS.
6. SEE SHEET 06 OF 06 FOR FASTENER/ANCHOR DETAILS.

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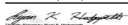
TEST UNIT DRAWINGS
KAWNEER 1600 Wall System™ 1 - 7 13/16"
ASTM E283, E330, E331, 1886/1996
TAS 201 / 202 / 203

SCALE:

DRAWN BY WJM	DATE 02/28/2018
DRWG. NO. T162964	
SHEET 01 OF 06	



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Report #: J0847-550-18
Date: 02/14/19
Verified by: 

TAS 202 TEST SCHEDULE

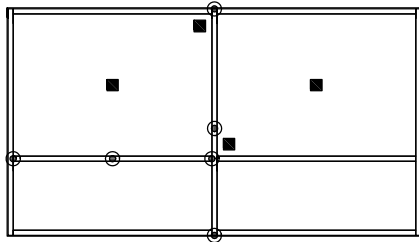
TEST	PROCEDURE	LOAD	PASS/FAIL CRITERIA
Air	ASTM E 283/TAS 202/NFRC 400	1,57/6,24 PSF	Maximum 0,06 CFM/FT ²
Structural	ASTM E 330/TAS 202	.5 X Positive Design Pressure = +25 PSF (30 SEC.)	
Structural	ASTM E 330/TAS 202	Positive Design Pressure = +50 PSF (30 SEC.)	No Glass Breakage or Permanent Damage, Maximum Deflection = L/180
Structural	ASTM E 330/TAS 202	.5 X Negative Design Pressure = -25 PSF (30 SEC.)	
Structural	ASTM E 330/TAS 202	Negative Design Pressure = -50 PSF (30 SEC.)	No Glass Breakage or Permanent Damage, Maximum Deflection = L/180
Water	ASTM E 331/TAS 202	Minimum 20 PSF	No Water Infiltration Per TAS 202 Section 5.2.6 or ASTM E 331
Structural	ASTM E 330/TAS 202	Positive Full Test Load = +75 PSF (30 SEC.)	No Glass Breakage or Permanent Damage Maximum Allowable Permanent Deformation 0,4% of Clear Span
Structural	ASTM E 330/TAS 202	Negative Full Test Load = -75 PSF (30 SEC.)	

TAS 201 / 203 TEST SCHEDULE

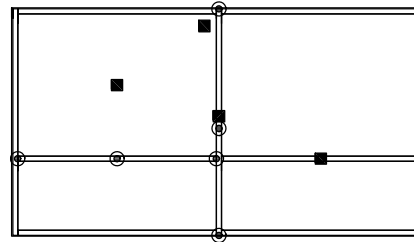
TEST	PROCEDURE	LOAD	PASS/FAIL CRITERIA
LMI	ASTM E 1886/1996 / TAS 201	Large Missile (9lb. 2x4) at 50 fps	No Penetration
Cycle	ASTM E 1886/1996 / TAS 203	Positive Range for 4500 Cycles Up To Design Pressure	No opening > 5" x 1/16" that air can pass through
Cycle	ASTM E 1886/1996 / TAS 203	Negative Range for 4500 Cycles Up To Design Pressure	

- = LOCATION OF LARGE MISSILE IMPACTS
- ⊙ = LOCATION OF DIAL INDICATORS FOR NET DEFLECTIONS AND PERMANENT SET

DESIGN PRESSURE = +/- 50 PSF



UNIT #1
AIR, WATER, STRUCTURAL & LMI
CYCLE



UNIT #2
STRUCTURAL & LMI
CYCLE

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KAWNEER

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TEST UNIT DRAWINGS

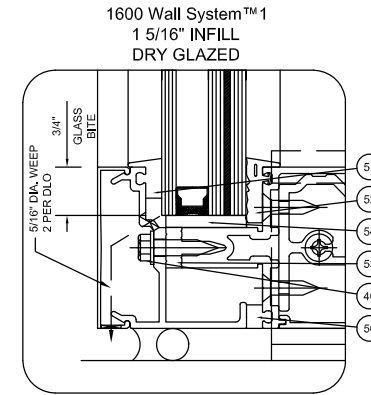
KAWNEER 1600 Wall System™ 1 - 7' 13/16"
ASTM E283, E330, E331, 1886/1996
TAS 201 / 202 / 203

SCALE: 1/8" = 1'-0"

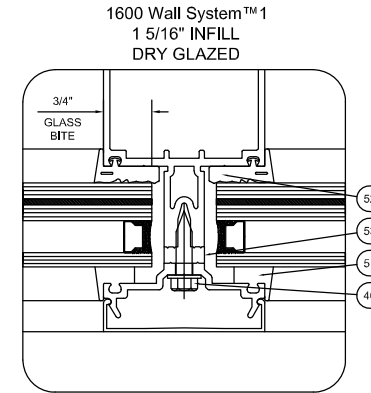
DRAWN BY WJM	DATE 02/28/2018	T162964
DRWG. NO.		SHEET
02 OF 06		

BILL OF MATERIALS				
NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
EXTRUSIONS				
01	162006	COVER	2,500 x 0.504 x 0.060	6063 T6 ALUMINUM
02	162528	PERIMETER PRESSURE PLATE	2,500 x 2.097 x 0.100	6063 T6 ALUMINUM
03	162517	PRESSURE PLATE	2,500 x 0.847 x 0.100	6063 T6 ALUMINUM
04	162003	7 1/2" MULLION	2,500 x 6.500 x 0.100	6063 T6 ALUMINUM
05	162095	7 1/2" OPEN BACK HEAD/SILL	2,500 x 6.500 x 0.100	6063 T6 ALUMINUM
06	162020	OPEN BACK FILLER	0.434 x 4.973 x 0.090	6063 T6 ALUMINUM
07	162332	HEAD/SILL SHEAR BLOCK	4.395 x 2.895 x 0.125	6063 T6 ALUMINUM
08	162378	HORIZONTAL SHEAR BLOCK	4.395 x 2.895 x 0.125	6063 T6 ALUMINUM
09	162311	"F" ANCHOR	3.250 x 8.000 x 0.250	6063 T6 ALUMINUM
10	162312	"T" ANCHOR	3.250 x 8.500 x 0.250	6063 T6 ALUMINUM
11	162091	7 1/2" OPEN BACK HORIZONTAL	2,500 x 6.500 x 0.100	6063 T6 ALUMINUM
12	162020	7 1/2" OPEN BACK SHIM FILLER	0.434 x 4.973 x 0.090	6063 T6 ALUMINUM
13	162529	1 5/16" JOINT PLUG HEAD/SILL	1.688 x 1.042 x 1.562	6063 T6 ALUMINUM
14	162539	1 5/16" JOINT PLUG	1.720 x 1.046 x 0.932	REPROCESSED HIPS, HIPS OR ABS
15	162541	1 5/16" JAMB END CAP	1.000 x 1.000 x 1.375	6063 T6 ALUMINUM
16	162004	7-1/2" HEAVY VERTICAL/HORIZONTAL	2,500 x 6.500 x 0.100	6063 T6 ALUMINUM
FASTENERS				
40	128406	PRESSURE PLATE ATTACHMENT SCREW	1/4 X 1" AB HWHTF - AT 3" O.C.	300 SERIES STAINLESS STEEL
41	128405	HORIZONTAL ATTACHMENT SCREW	#12 x 7/8" AB FHTF	300 SERIES STAINLESS STEEL
42	128394	SHEAR BLOCK ATTACHMENT SCREW	#12 x 1 7/8" B PHTF	430 SERIES STAINLESS STEEL
43	904208	STEEL REINFORCING ATTACHMENT SCREW	1/4"-20 x 2" FHTCMS "D/F"	300 SERIES STAINLESS STEEL
44	128396	"F" ANCHOR LOCATION SCREW	#12 x 7/16" B PHTF	430 SERIES STAINLESS STEEL
45		ANCHOR ATTACHMENT SCREW	3/8" x 2-1/2" LAG SCREW	300 SERIES STAINLESS STEEL
GASKETS AND WEATHERING				
50	027857	FIXED PERIMETER GASKET	0.360 x 0.400	SHORE "A" 70±5 DUROMETER EPDM
51	027850	FIXED GASKET	0.615 x 0.630	SHORE "A" 60±5 DUROMETER EPDM
52	127196	FIXED GASKET	0.520 x 1.008	SHORE "A" 60±5 DUROMETER EPDM
53	162310	THERMAL BREAK	0.250 x 0.626	SHORE "A" 70±5 DUROMETER EPDM
54	027081	SETTING BLOCK	4.125 x 1.250 x 0.188	SHORE "A" 85±5 DUROMETER EPDM
REINFORCING				
90	162300	HI-SPAN STEEL REINFORCING	1.750 x 4.560 x 0.164	GRADE 50 STEEL

GLAZING DETAILS



INFILL SIZE FORMULA
DLO + 1 1/2"
FOR LARGE MISSILE



INFILL SIZE FORMULA
DLO + 1 1/2"
FOR LARGE MISSILE

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A	02/12/19	ADDED NO. 16	MRC
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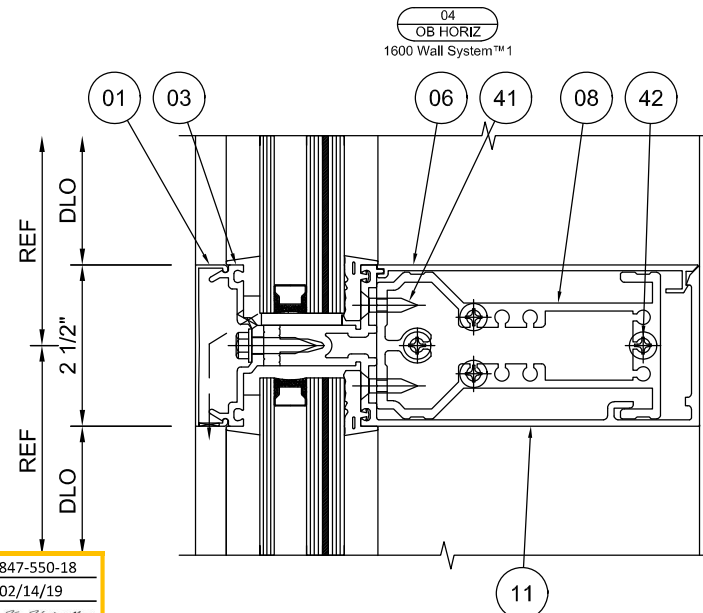
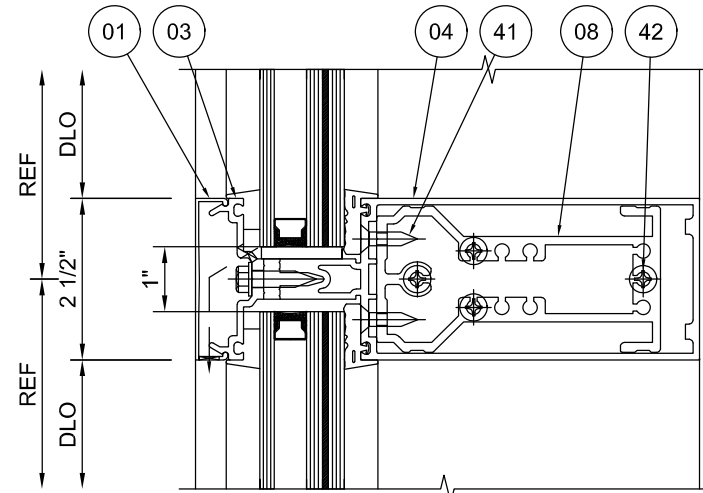
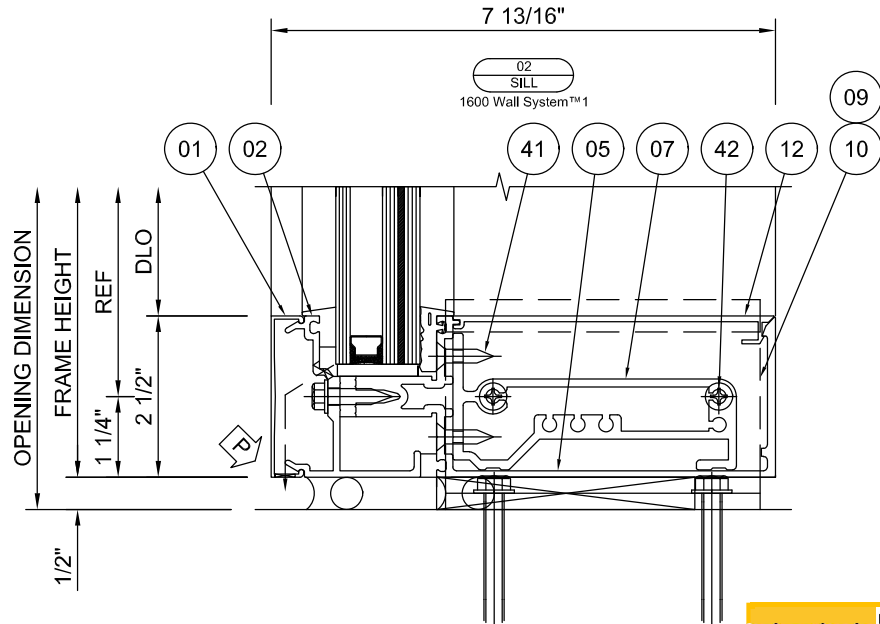
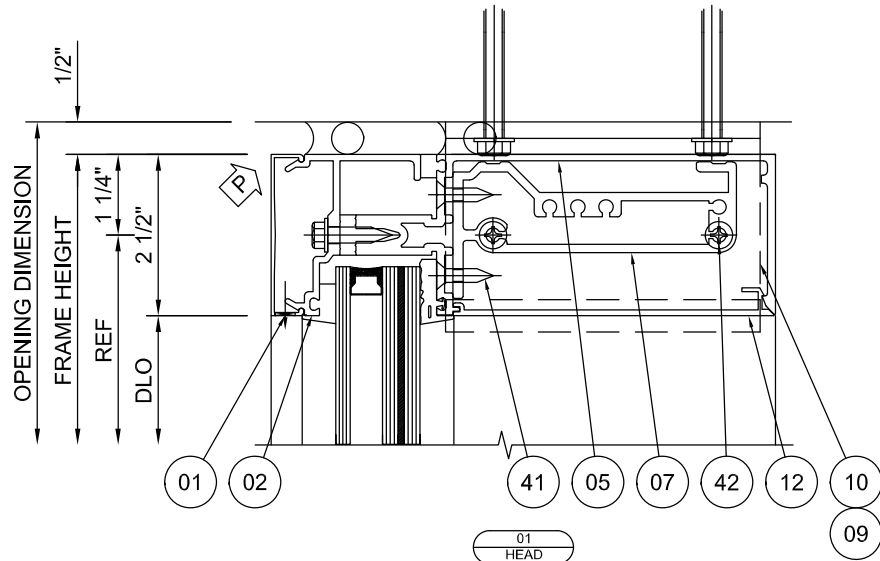
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NORFOLK, VA 23502
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FAX (770) 734-1580

TEST UNIT DRAWINGS
KAWNEER 1600 Wall System™1 - 7 13/16"
ASTM E283, E330, E331, 1886/1996
TAS 201 / 202 / 203

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

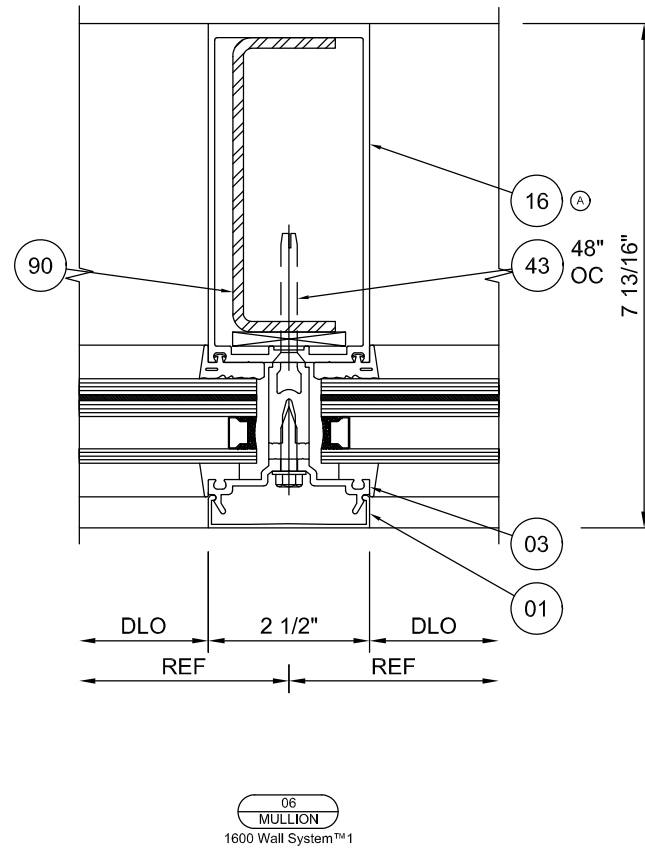
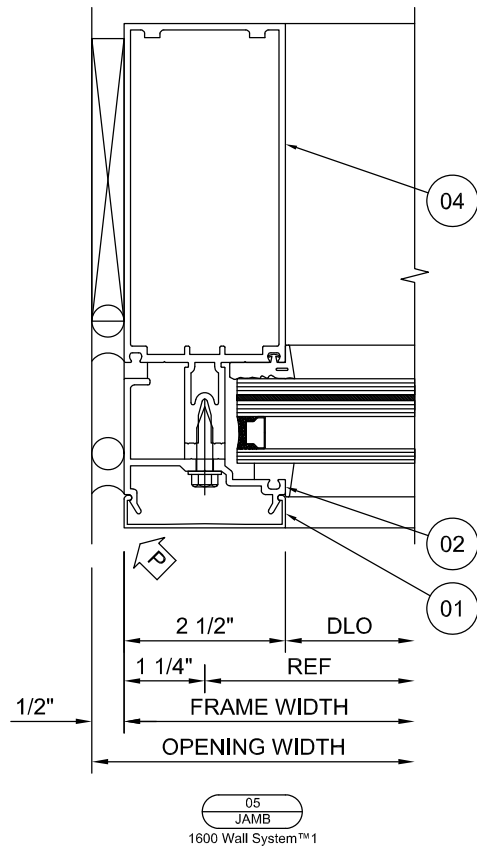
DRAWN BY WJM	DATE 02/28/2018
DRWG. NO.	T162964
SHEET	03 OF 06

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DRAWN BY: WJM		DATE: 02/28/2018	
DRWG. NO.			
SHEET			
04 OF 06			

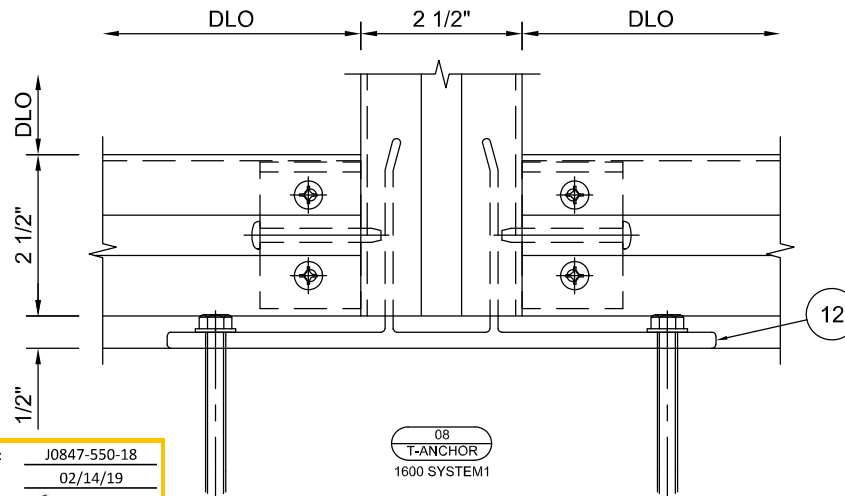
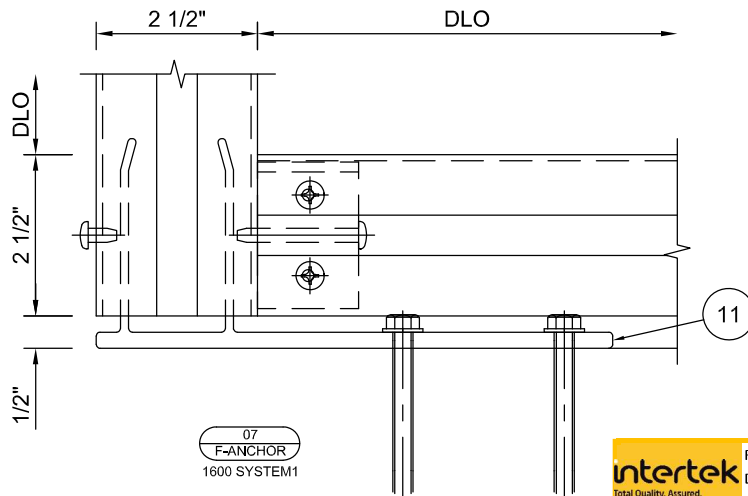
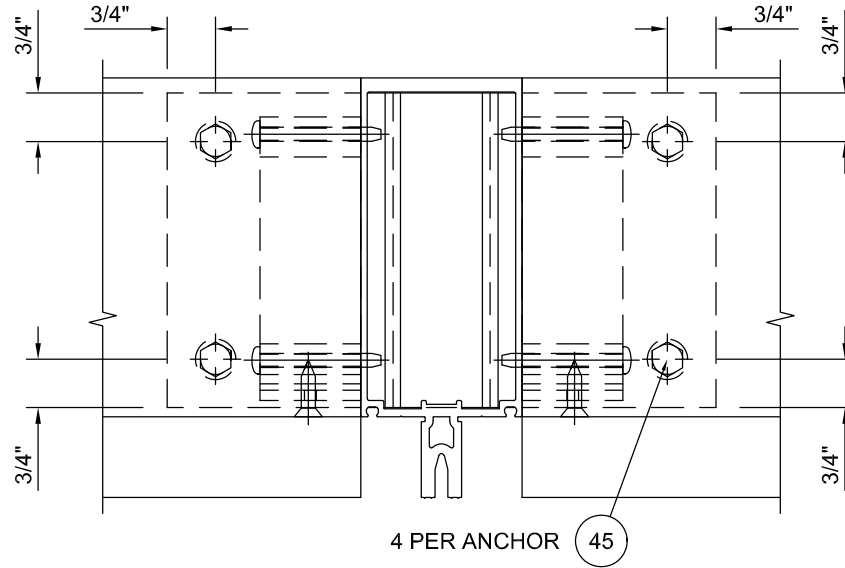
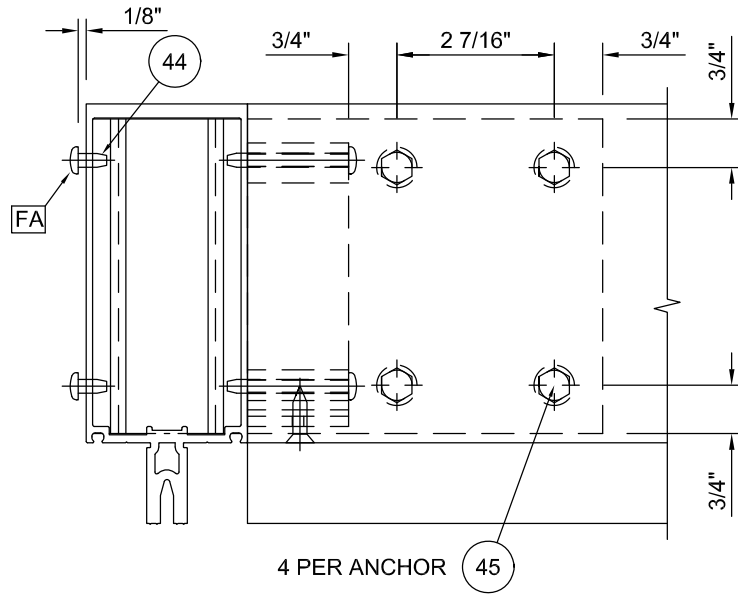


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KAWNEER		555 GUTHRIE COURT NORFOLK, VA 23502 PHONE (770) 448-6555 FAX (770) 734-1550	
TEST UNIT DRAWINGS KAWNEER 1600 Wall System™ 1 - 7' 13/16" ASTM E283, E330, E331, 1886/1996 TAS 201 / 202 / 203		SCALE: HALF	
DRAWN BY WJM		DATE 02/28/2018	
DRWG. NO. T162964			
SHEET 05 OF 06			

PERIMETER FASTENER NOTE:
 3/8" LAG SCREWS, 2 1/2" LONG,
 2" MINIMUM EMBEDMENT, 3" MINIMUM EDGE DISTANCE.



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