

IMPACT HURRICANE SYSTEMS

60 MM ROLL DOWN SHUTTERS

(HVHZ) (IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- REFER TO ANCHOR SCHEDULE CHART ON SHEETS 5, 6, 7, 9 & 11 FOR ANCHOR TYPE, SUBSTRATE TYPE, EDGE DISTANCE AND MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING WITH A MINIMUM TENSILE STRENGTH OF 60 ksi.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E330-02
 - ASTM E1886-12
 - ASTM E1996-12
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- INSTALLATION OF ROLL DOWN MAY EITHER BE INSIDE OR OUTSIDE OF THE TIE BEAM.
- ALL EXTRUSION MATERIAL: 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
- OPERATION OF ROLLLUP MECHANISM IS NOT PART OF THIS APPROVAL. CARE SHOULD BE TAKEN WHEN SHUTTER IS IN MOTION ENSURING THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.
- FOR DESIGN PRESSURES SEE SHEETS 5-8.
- HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.

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IMPACT HURRICANE SYSTEMS, INC.
1114 SE 12TH COURT
CAPE CORAL, FL 33390
PHONE: (786) 367-8740

TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)

GENERAL & INSTALLATION NOTES

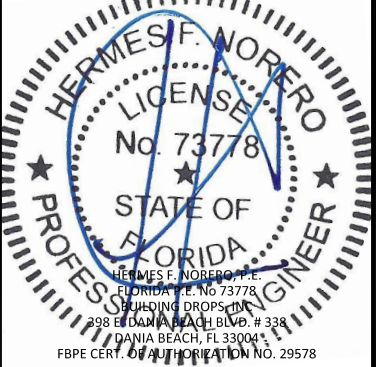
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BUILDING DROPS, INC.

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REMARKS	BY	DATE
2020 FBC UPDATE	NUS	09/21/20

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FL21901

DATE: 02.06.17

DWG. BY: LMS

CHK. BY: HFN

SCALE: NTS

DWG. #: IHS002

SHEET:

OF 13

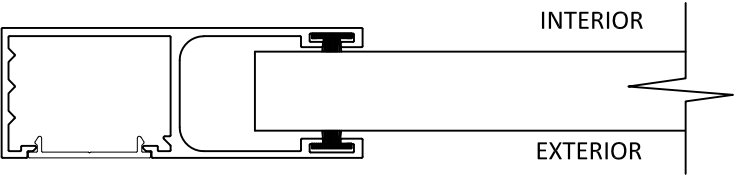
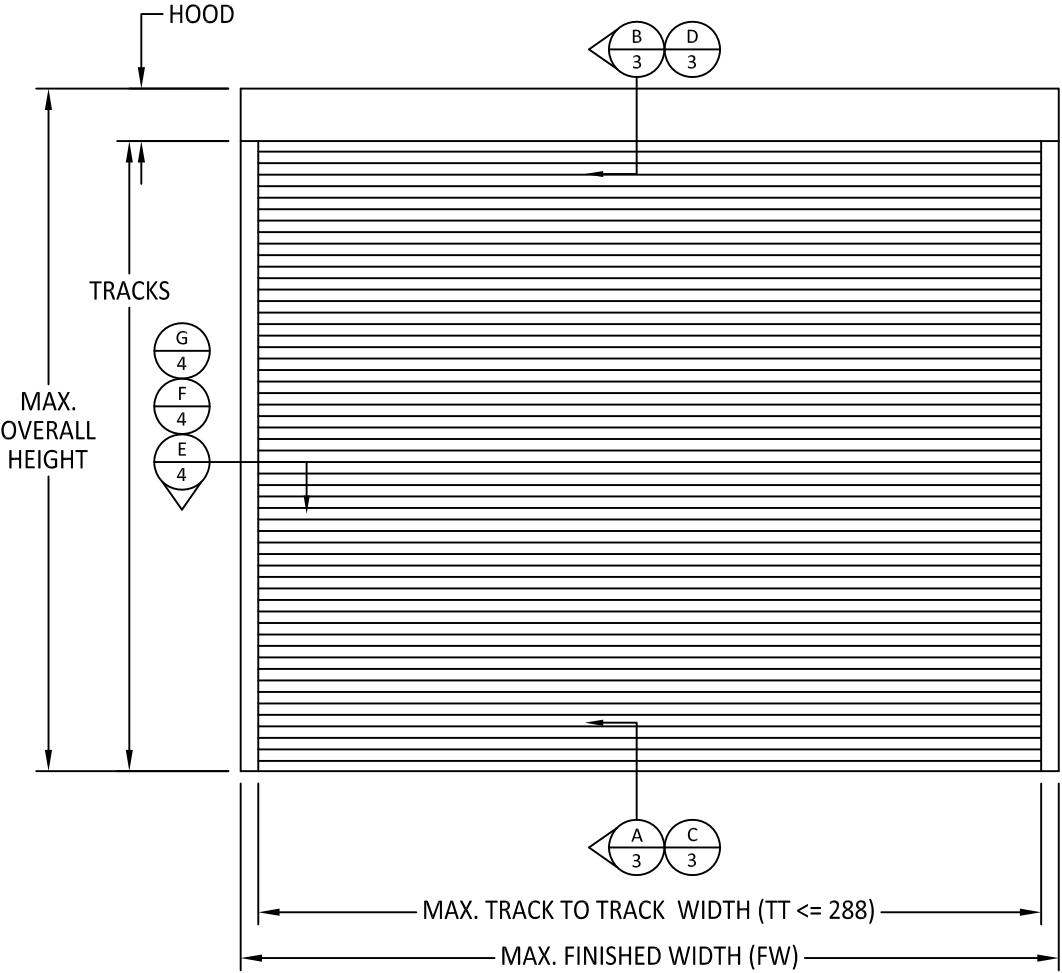
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Reason: I am approving this document
Date: 2020.10.08 23:09:03 +02'00'

TABLE 1 - ALLOWABLE DESIGN PRESSURE		
W/ END RETENTION		
TT MAX	POSITIVE	NEGATIVE
288	+40	-40
264	+45	-45
240	+50	-50
216	+55	-55
204	+60	-60
168	+100	-100
144	+125	-125
132	+135	-135
120	+150	-150
108	+160	-160
96	+175	-175
84	+185	-185
72	+200	-200
W/O END RETENTION		
TT MAX	POSITIVE	NEGATIVE
72	+60	-60
NOTES:		
1. DESIGN PRESSURES MUST NOT EXCEED 200 PSF FOR END RETENTION SYSTEM.		
2. SHUTTER SIZE (TT) MUST NOT EXCEED 288".		
MULTIPLE SHUTTER NOTES:		
1. USE TABLE 1 TO VERIFY MAXIMUM ALLOWABLE PRESSURE.		
2. USE TABLE 2, 3 & 4 TO SELECT INTERMEDIATE AND END MULLIONS.		
3. SELECT PROPER MULLION ANCHORAGE.		

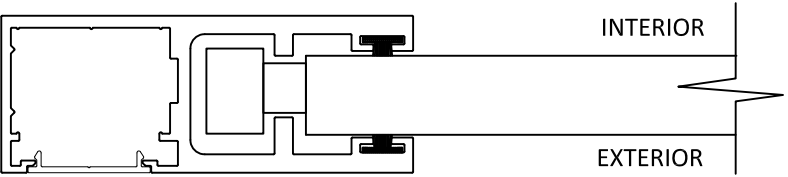
TABLE: GLASS SEPARATION (GS) INCHES

LOAD (PSF)	TRACK TO TRACK (IN)												
	72	84	96	108	120	132	144	168	204	216	240	264	288
40	2.25	2.50	2.50	2.75	3.00	3.25	3.50	4.50	7.50	7.75	8.25	9.00	10.25
45	2.50	2.50	2.75	3.00	3.25	3.50	4.00	5.00	8.25	8.50	9.25	10.00	-
50	2.50	2.75	3.00	3.25	3.50	3.75	4.25	5.50	9.00	9.25	10.25	-	-
55	2.75	3.00	3.25	3.50	3.75	4.25	4.50	6.00	9.75	10.25	-	-	-
60	3.00	3.25	3.50	3.75	4.00	4.50	5.00	6.25	10.75	-	-	-	-
100	4.25	4.75	5.00	5.50	6.25	6.75	7.75	10.00	-	-	-	-	-
125	5.00	5.50	6.00	6.75	7.50	8.25	9.25	-	-	-	-	-	-
135	5.50	6.00	6.50	7.25	8.00	9.00	-	-	-	-	-	-	-
150	6.00	6.50	7.25	8.00	8.75	-	-	-	-	-	-	-	-
160	6.25	7.00	7.50	8.25	-	-	-	-	-	-	-	-	-
175	6.75	7.50	8.25	-	-	-	-	-	-	-	-	-	-
185	7.00	7.75	-	-	-	-	-	-	-	-	-	-	-
200	7.75	-	-	-	-	-	-	-	-	-	-	-	-

DESIGN PRESSURE RATING



WITHOUT END RETENTION



WITH END RETENTION

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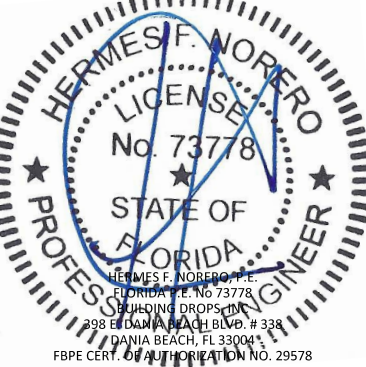
TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)
ELEVATION & DESIGN PRESSURE
TABLE

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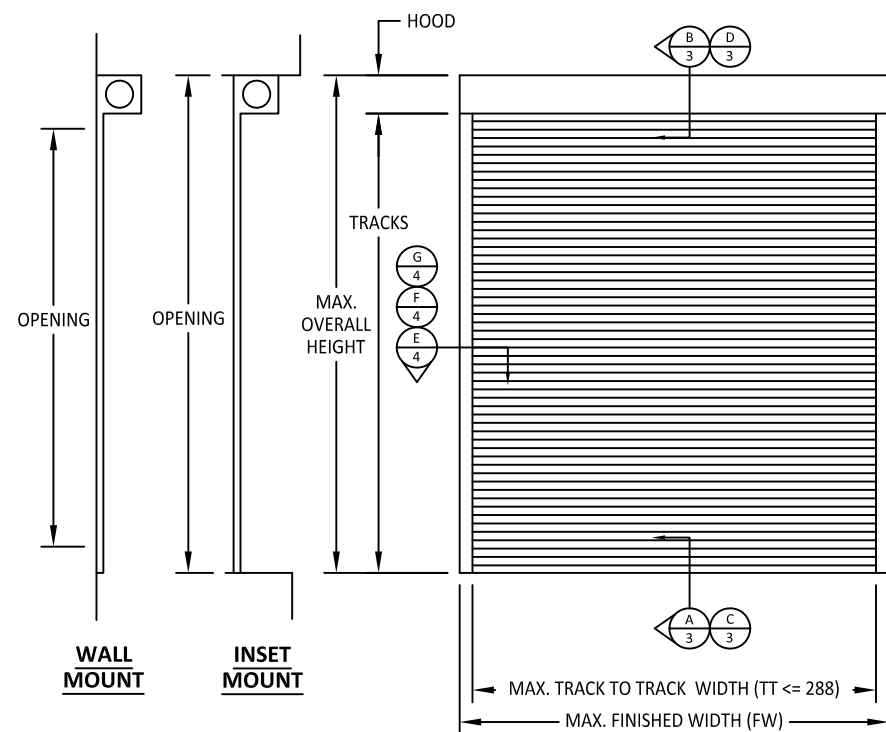


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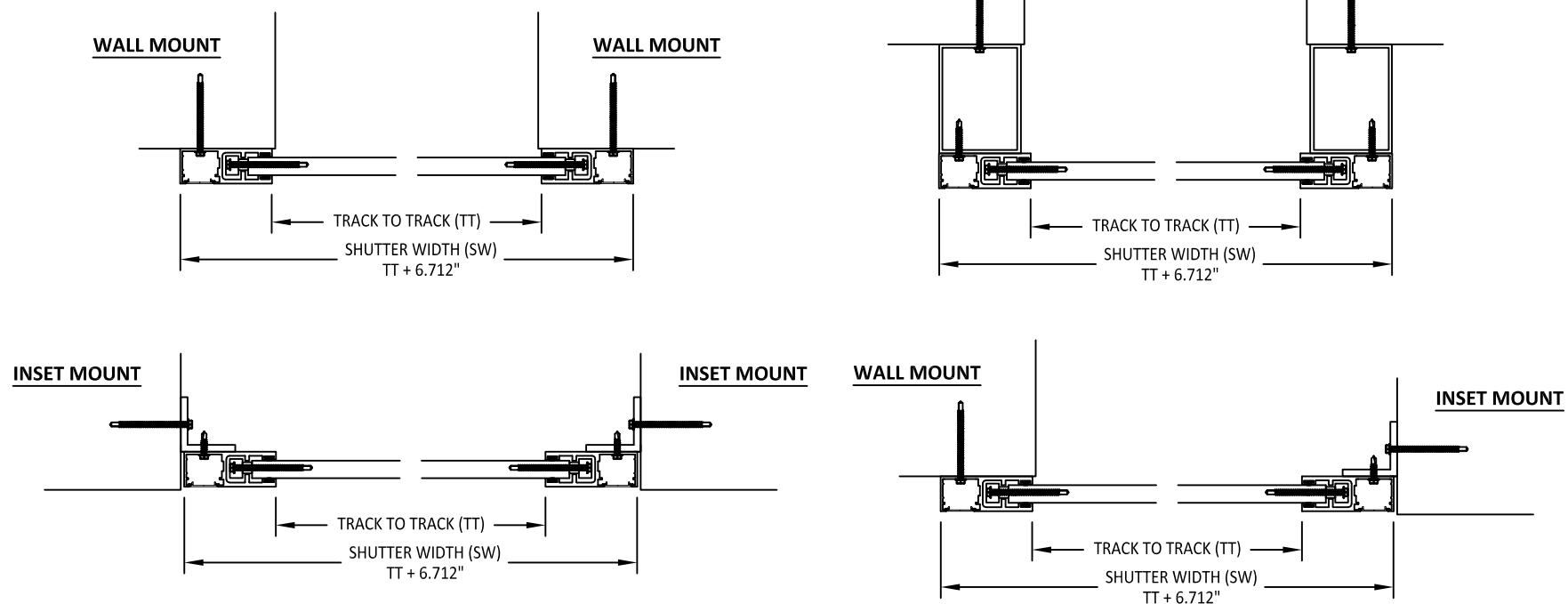


FL21901	
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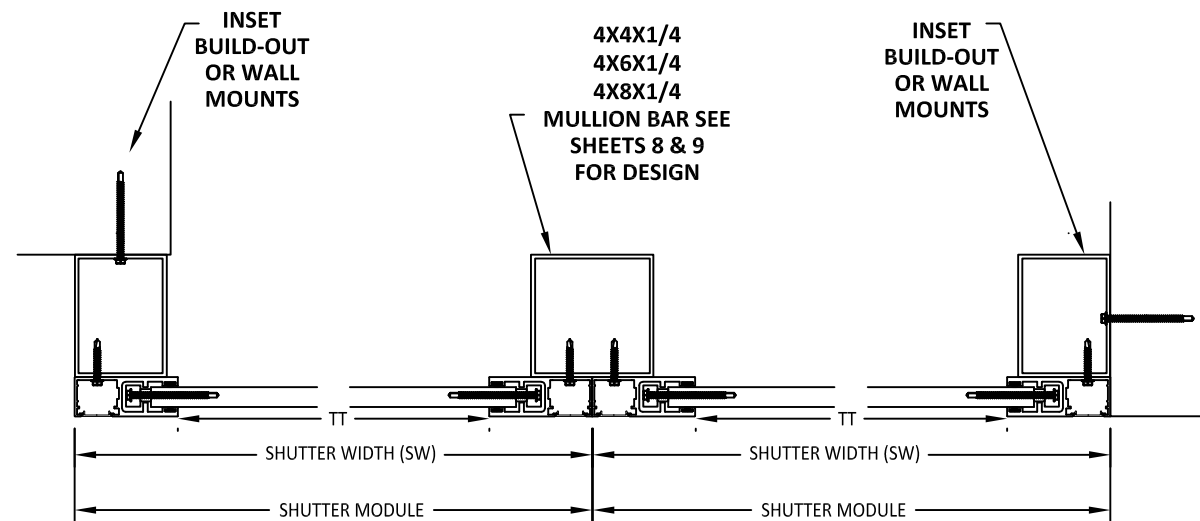
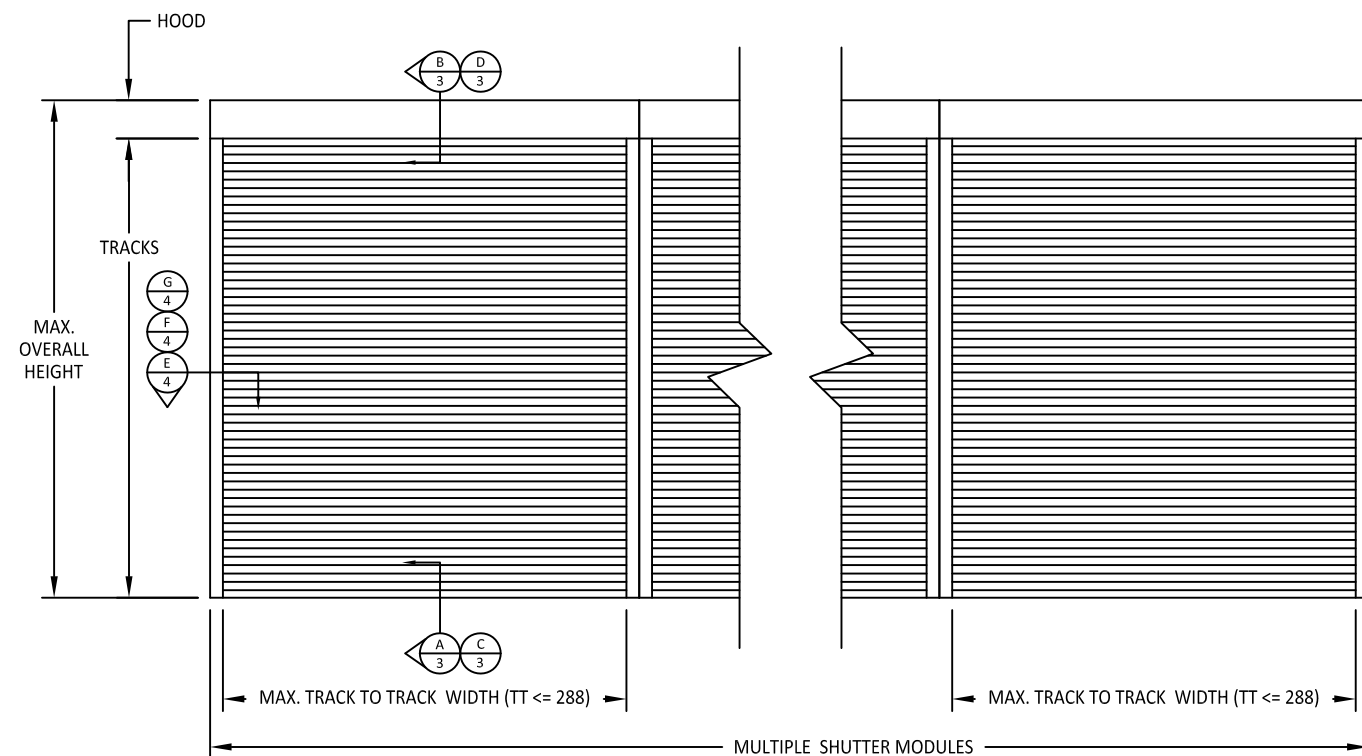
REVERSED INSTALLATION
IS ACCEPTABLE

TYPICAL SINGLE UNIT ELEVATION



COMBINATION MOUNTED:
WALL, INSET, AND BUILD-OUT
MOUNTS CAN BE INSTALLED BY MIXING
AS MANY POSSIBLE COMBINATIONS

TYPICAL MULTIPLE UNITS ELEVATION



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VERTICAL SECTIONS

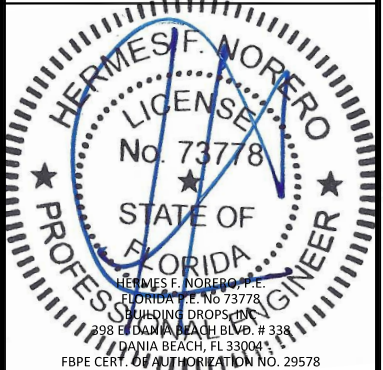
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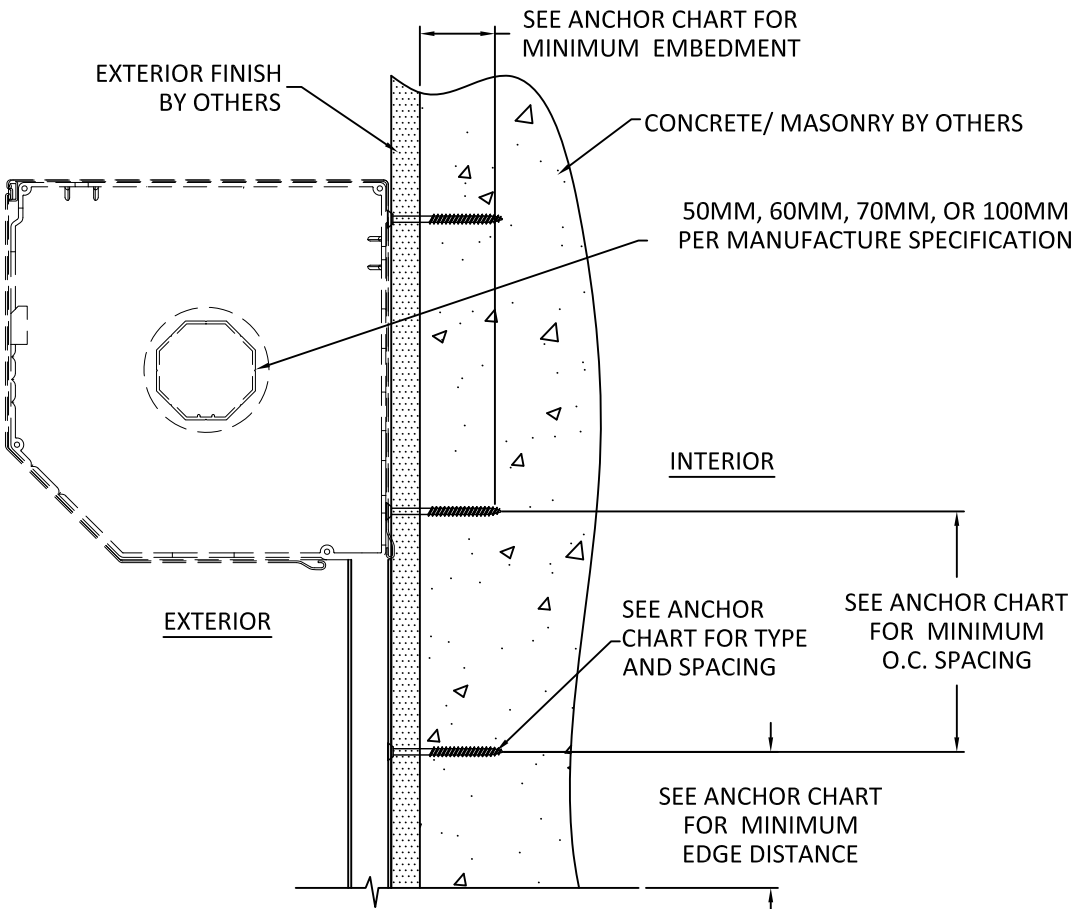


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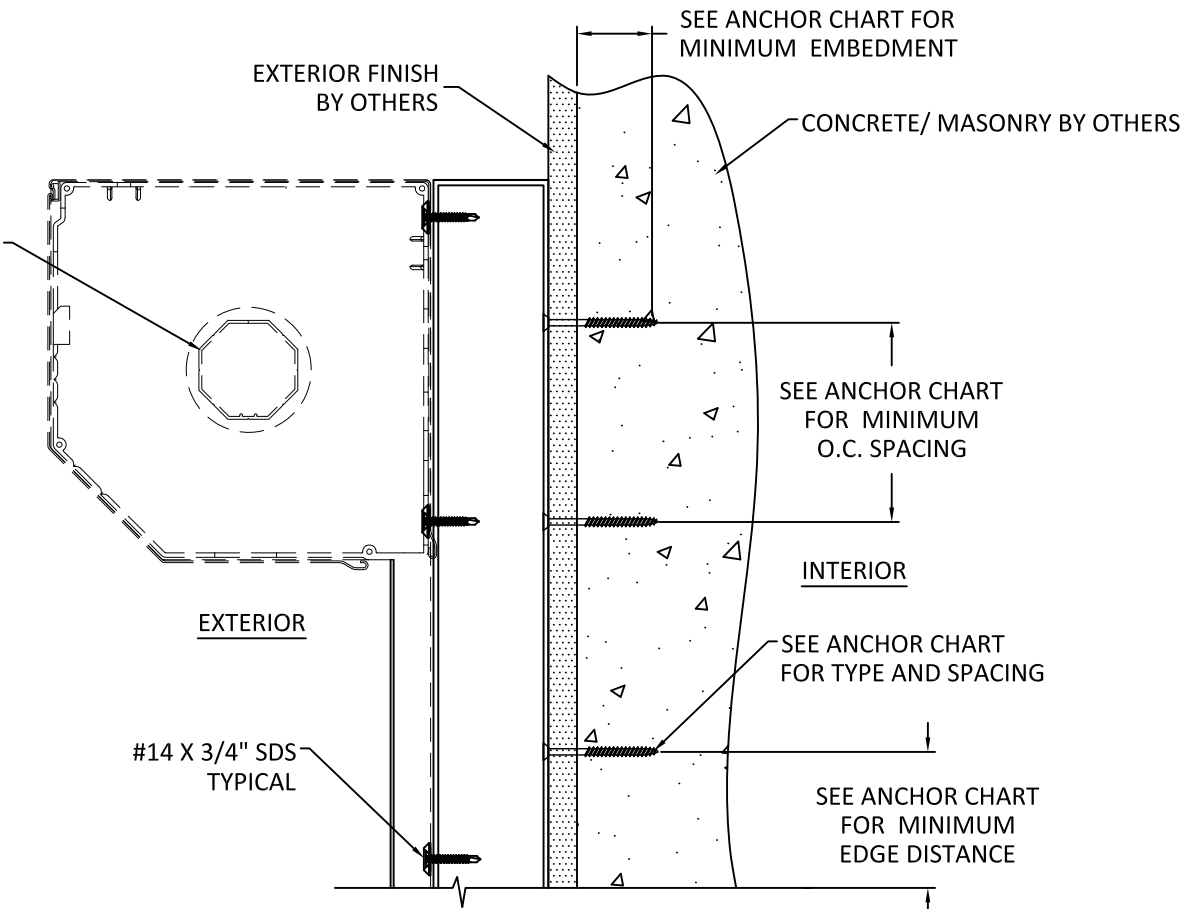
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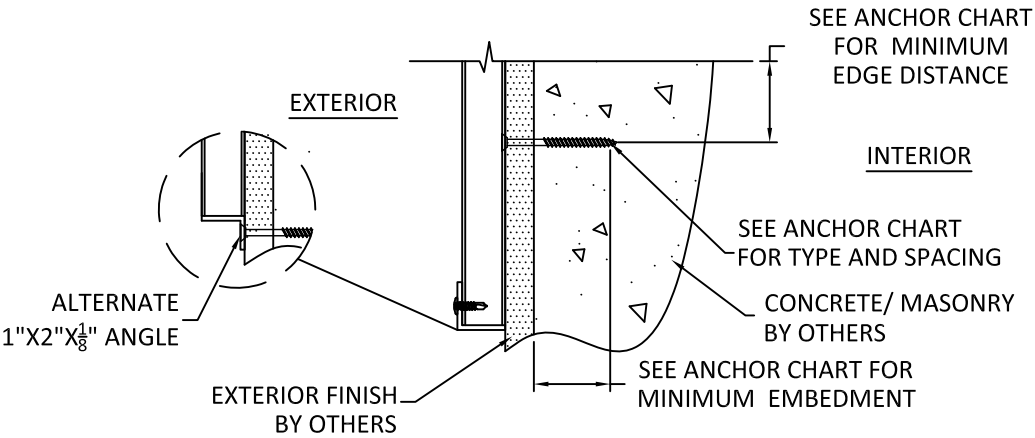
TYPICAL VERTICAL SECTIONS



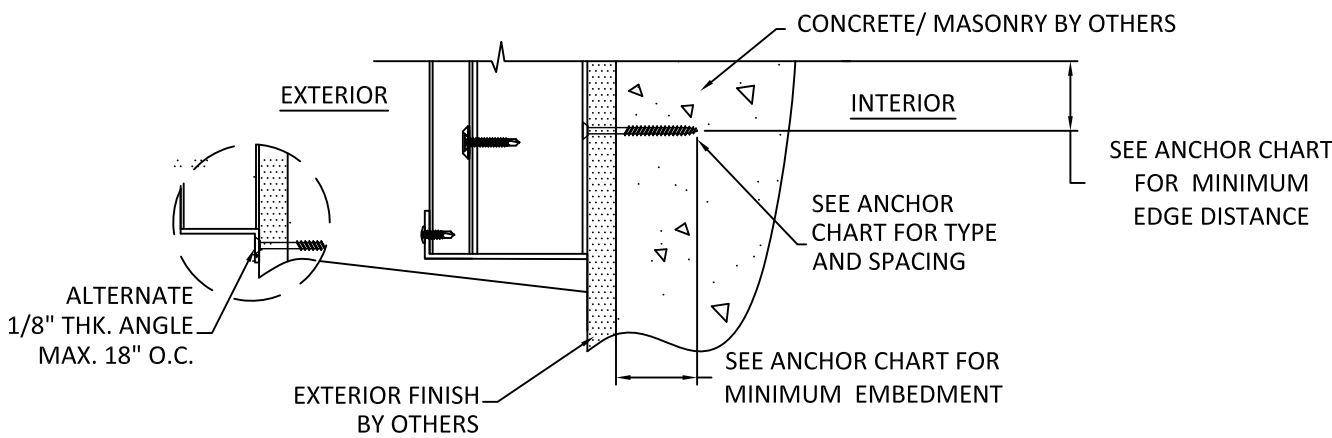
B
4 VERTICAL SECTION
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5 & 6 FOR OTHER SUBSTRATES



D
4 VERTICAL SECTION
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5 & 6 FOR OTHER SUBSTRATES



A
4 VERTICAL SECTION
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5 & 6 FOR OTHER SUBSTRATES



C
4 VERTICAL SECTION
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5 & 6 FOR OTHER SUBSTRATES

NOTES:
1. SLATS NOT SHOWN FOR CLARITY
2. REVERSED INSTALLATION IS ACCEPTABLE

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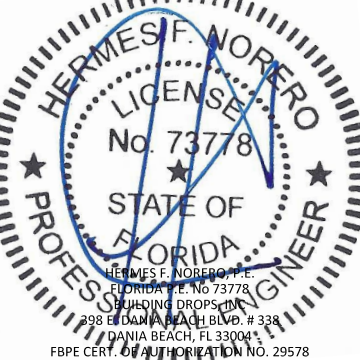
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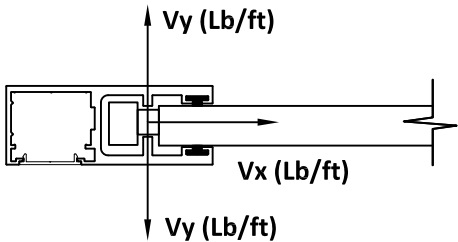
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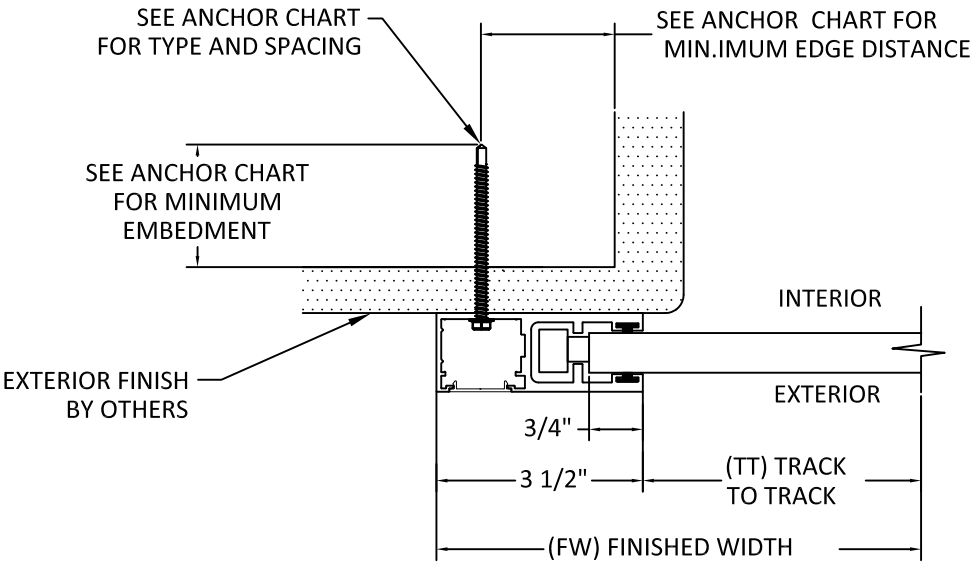
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SHEET: 4	OF 13

TABLE 2 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4, 3X4, OR 3X3 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
72	40	0	10.93	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	12.30	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	13.67	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	15.03	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	16.40	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	17.76	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	19.13	6	6	6	6	-	6	12	12	12	12	12	12
	75	0	20.50	6	6	6	6	-	6	12	12	12	12	12	12
84	40	0	12.60	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	14.17	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	15.75	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	17.32	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	18.90	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	20.47	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	22.05	6	6	6	6	-	6	12	12	12	12	12	12
	75	0	23.62	6	6	6	6	-	6	12	12	12	12	12	12
96	40	0	14.27	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	16.05	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	17.83	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	19.62	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	21.40	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	23.18	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	24.96	6	6	6	6	-	6	12	12	12	12	12	12
	75	0	26.75	6	6	6	6	-	6	12	12	12	12	12	12
108	40	0	15.93	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	17.92	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	19.92	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	21.91	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	23.90	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	25.89	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	27.88	6	6	6	6	-	6	12	12	12	12	12	12
	75	0	29.87	6	6	6	6	-	6	12	12	12	12	12	12
	80	0	31.86	6	6	6	6	-	6	12	12	12	12	12	12



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
FOR MAXIMUM IMPOSED LOADS Vy AND Vx

TYPICAL HORIZONTAL SECTIONS
WALL MOUNT



E 5 HORIZONTAL SECTION
MOUNT TYPE 1
WALL MOUNT
*WITH OR WITHOUT END RETENTION

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	3/8" X 4" WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 1/2"	3 3/4"
B	5/16" X 3" TAPCON	MIN. 3513 PSI CONCRETE	2"	3 1/8"
C	3/8" X 4" WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 1/2"	3 3/4"
D	5/16" X 3" TAPCON	GROUT FILLED C-90 BLOCK	2 1/4"	4"
E	#14 X 3/4" DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL	3 threads penetration	1/2" 3/8"
F	5/16" ELCO Ultracon	MIN. SG = 0.55 WOOD	2"	1 9/16"

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HORIZONTAL SECTIONS

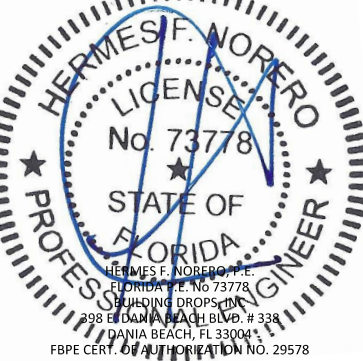
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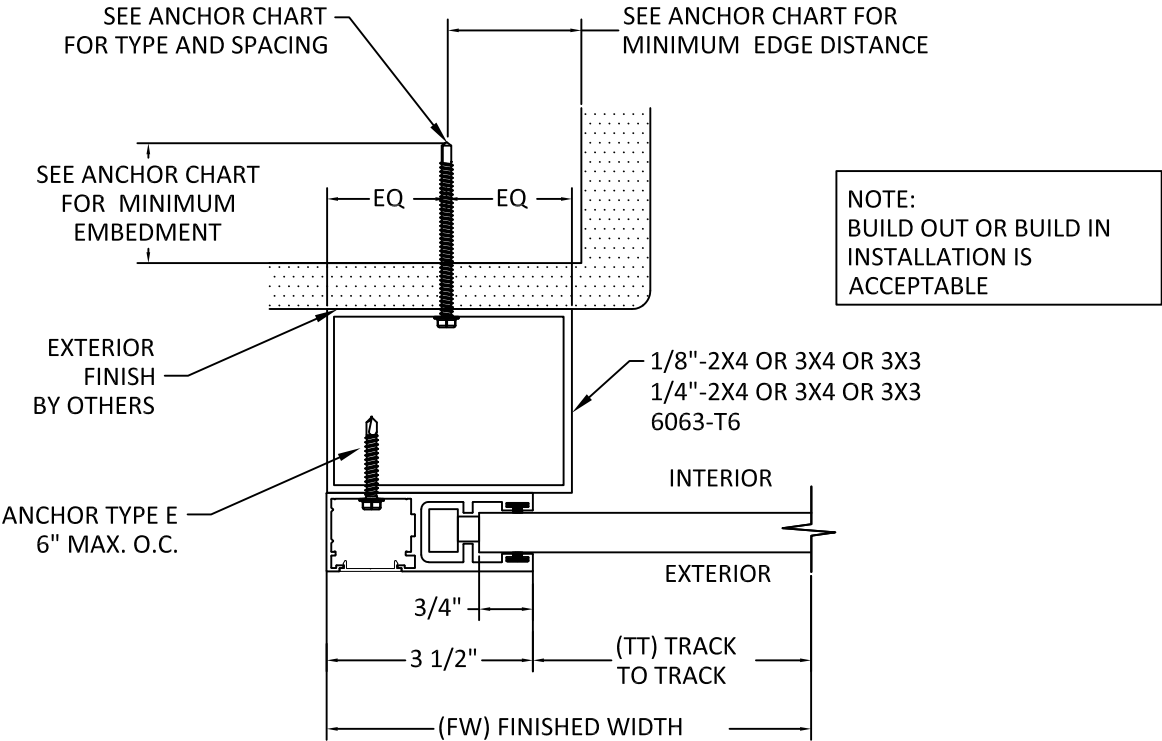


FL21901

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TABLE 2 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4, 3X4, OR 3X3 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
120	40	0	17.60	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	19.80	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	22.00	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	24.20	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	26.40	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	28.60	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	30.80	6	6	6	6	-	6	12	12	12	12	12	12
132	40	0	19.27	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	21.67	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	24.08	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	26.49	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	28.90	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	31.31	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	33.71	6	6	6	6	-	6	12	12	12	12	12	12
144	40	0	20.93	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	23.55	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	26.17	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	28.78	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	31.40	6	6	6	6	-	6	12	12	12	12	12	12
	65	0	34.01	6	6	6	6	-	6	12	12	12	12	12	12
	70	0	36.63	6	6	6	6	-	6	12	12	12	12	12	12
168	40	0	24.27	6	6	6	6	-	6	12	12	12	12	12	12
	45	0	27.30	6	6	6	6	-	6	12	12	12	12	12	12
	50	0	30.33	6	6	6	6	-	6	12	12	12	12	12	12
	55	0	33.37	6	6	6	6	-	6	12	12	12	12	12	12
	60	0	36.40	6	6	6	6	-	6	12	12	12	12	12	12
204	40	29.63971	29.27	6	6	6	6	-	6	12	6	7	7	8	8
	45	52.69282	32.92	6	6	6	6	-	6	10	4	4	4	5	5
	50	71.13531	36.58	6	6	6	6	-	6	8	3	3	3	3	3
	55	86.22462	40.24	6	5	6	5	-	5	6	-	-	-	3	3
	60	98.79904	43.90	6	4	5	4	-	4	6	-	-	-	-	-
216	40	31.77456	30.93	6	6	6	6	-	6	12	6	6	6	7	7
	45	56.48811	34.80	6	6	6	6	-	6	10	4	4	4	4	4
	50	76.25894	38.67	6	6	6	6	-	6	7	3	3	3	3	3
	55	92.43508	42.53	6	5	5	5	-	5	6	-	-	-	3	3
240	40	35.61808	34.27	6	6	6	6	-	6	12	5	5	5	6	6
	45	63.32103	38.55	6	6	6	6	-	6	8	3	3	3	4	4
	50	85.4834	42.83	6	5	6	5	-	5	6	-	-	-	3	3
264	40	77.39882	37.60	6	6	6	5	-	6	7	3	3	3	3	3
	45	103.1984	42.30	6	4	5	4	-	4	5	-	-	-	-	-
288	40	81.50313	40.93	6	5	6	5	-	5	7	-	3	3	3	3

TYPICAL HORIZONTAL SECTIONS
BUILD OUT



F
6
HORIZONTAL SECTION
MOUNT TYPE 2
BUILD-OUT MOUNT
*WITH OR WITHOUT END RETENTION

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	3/8" X 4" WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 1/2"	3 3/4"
B	5/16" X 3" TAPCON	MIN. 3513 PSI CONCRETE	2"	3 1/8"
C	3/8" X 4" WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 1/2"	3 3/4"
D	5/16" X 3" TAPCON	GROUT FILLED C-90 BLOCK	2 1/4"	4"
E	#14 X 3/4" DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL	3 threads penetration	1/2" 3/8"
F	5/16" ELCO Ultracon	MIN. SG = 0.55 WOOD	2"	1 9/16"

IMPACT HURRICANE SYSTEMS, INC.
1114 SE 12TH COURT
CAPE CORAL, FL 33390
PHONE: (786) 367-8740

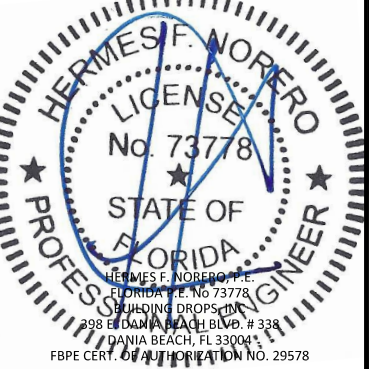
TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)
WALL MOUNT & BUILD OUT
ANCHOR SPACING

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478 FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	09/21/20

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FL21901

DATE: 02.06.17

DWG. BY: LMS

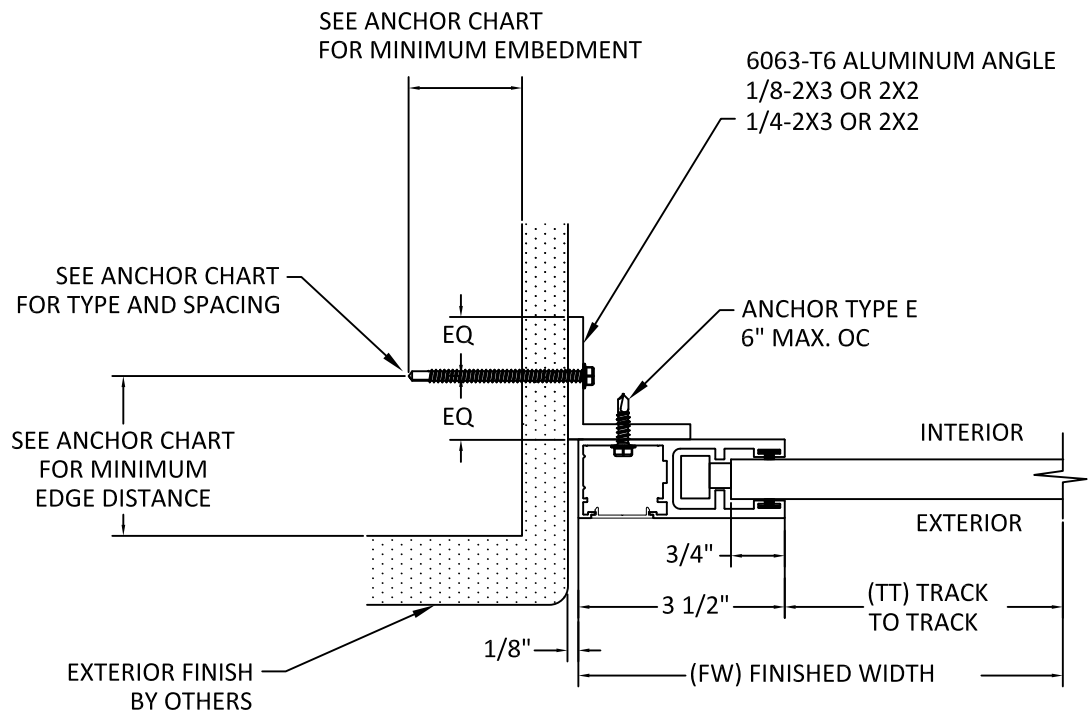
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SCALE: NTS

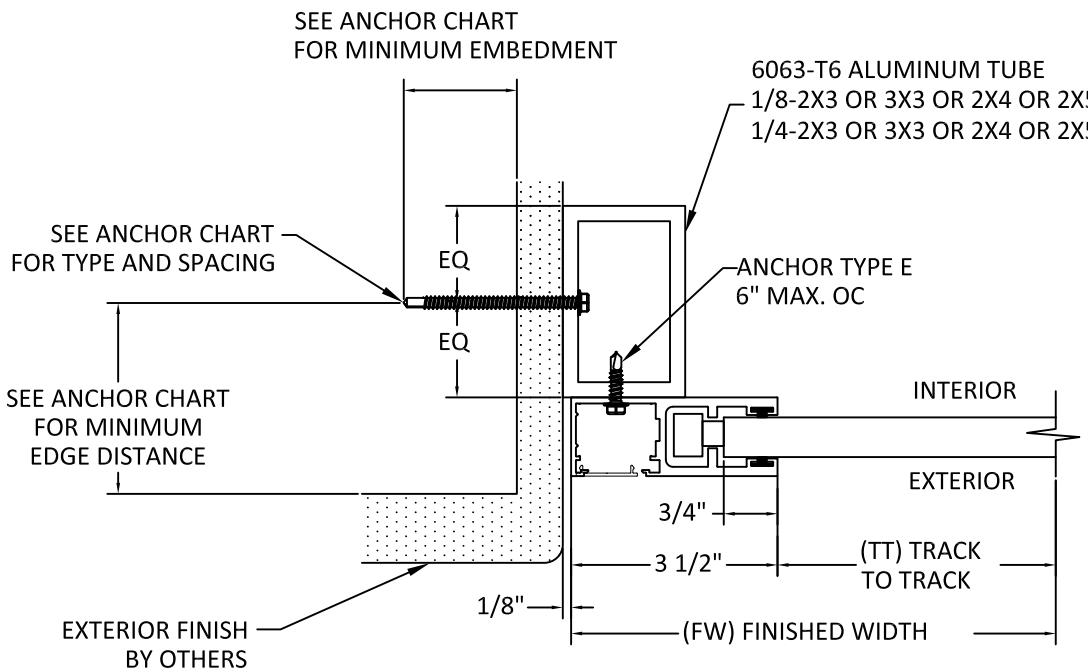
DWG. #: IHS002

SHEET: 6 OF 13

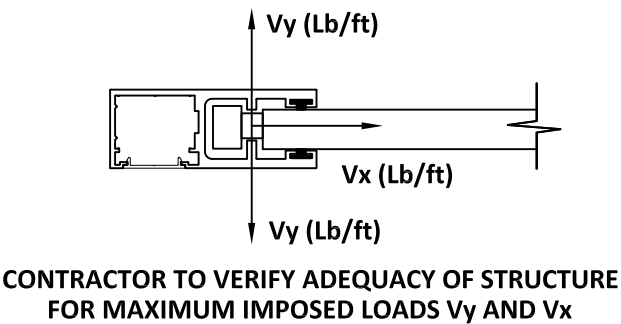
TYPICAL HORIZONTAL SECTIONS
INSET MOUNT



G
7 **HORIZONTAL SECTION**
MOUNT TYPE 3
INSET MOUNT
*WITH OR WITHOUT END RETENTION



H
7 **HORIZONTAL SECTION**
MOUNT TYPE 3
INSET MOUNT
*WITH OR WITHOUT END RETENTION



SEE SHEETS 8 & 9 FOR ANCHOR SPACING TABLES

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	3/8" X 4" WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 1/2"	3 3/4"
B	5/16" X 3" TAPCON	MIN. 3513 PSI CONCRETE	2"	3 1/8"
C	3/8" X 4" WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 1/2"	3 3/4"
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E	#14 X 3/4" DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL	3 threads penetration	1/2" 3/8"
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1114 SE 12TH COURT
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PHONE: (786) 367-8740

TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)

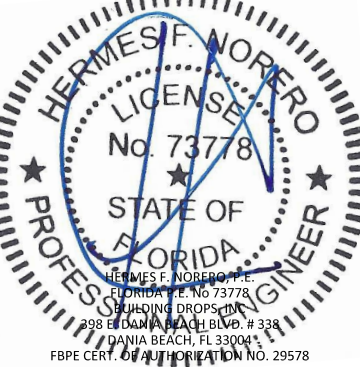
INSET MOUNT ANCHOR SPACING

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478 FAX: (954)744-4738
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REMARKS	BY	DATE
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FL21901

DATE:	02.06.17
DWG. BY:	LMS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	IHS002
SHEET:	OF 13

TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X2 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X3 OR 3X3 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X4 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X5 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
72	40	0	10.93	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	12.30	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	13.67	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	15.03	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60	0	16.40	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	65	0	17.76	12	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	70	0	19.13	12	10	10	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	75	0	20.50	12	9	10	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	80	0	21.86	12	9	9	9	11	11	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
84	40	0	12.60	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	14.17	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	15.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	17.32	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60	0	18.90	12	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	65	0	20.47	12	9	10	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	70	0	22.05	12	9	9	9	10	10	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	75	0	23.62	12	8	8	8	10	10	12	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	80	0	25.20	12	7	8	8	9	9	12	10	11	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12
96	80	0	14.27	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	16.05	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	17.83	12	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	19.62	12	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60	0	21.40	12	9	9	9	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	65	0	23.18	12	8	9	9	10	10	12	11	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	70	0	24.96	12	8	8	8	9	9	12	10	11	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	75	0	26.75	12	7	7	7	9	9	12	9	10	10	11	11	12	11	12	11	12	12	12	12	12	12	12	12
	80	0	28.53	12	7	7	7	8	8	12	9	9	9	10	10	12	10	11	11	12	12	12	12	12	12	12	12
108	40	0	15.93	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	17.92	12	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	19.92	12	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	21.91	12	9	9	9	11	11	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60	0	23.90	12	8	8	8	10	10	12	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	65	0	25.89	12	7	8	8	9	9	12	10	10	10	11	11	12	11	12	12	12	12	12	12	12	12	12	12
	70	0	27.88	12	7	7	7	8	8	12	9	9	9	10	10	12	11	11	11	12	12	12	12	12	12	12	12
	75	0	29.87	12	6	7	7	8	8	12	8	9	9	10	10	12	10	11	10	11	11	12	11	12	11	12	12
	80	0	31.86	12	6	6	6	7	7	12	8	8	8	9	9	12	9	10	9	10	10	12	10	11	11	11	11

IMPACT HURRICANE SYSTEMS, INC.
1114 SE 12TH COURT
CAPE CORAL, FL 33390
PHONE: (786) 367-8740

TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)

INSET MOUNT ANCHOR SPACING

PREPARED BY:

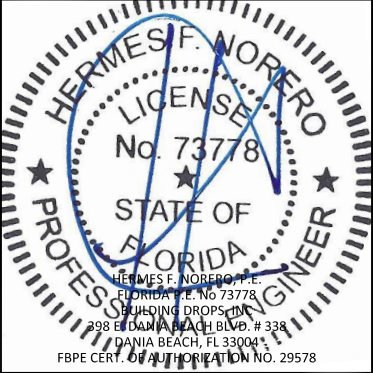


BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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FL21901

DATE: 02.06.17

DWG. BY: LMS

CHK. BY: HFN

SCALE: NTS

DWG. #: IHS002

SHEET: 8 OF 13

TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X2 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X3 OR 3X3 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X4 INSET - MOUNT 3						ANCHOR TYPE & SPACING 2X5 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
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	45	0	19.80	12	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	22.00	12	9	9	9	11	11	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	24.20	12	8	8	8	10	10	12	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60	0	26.40	12	7	7	8	9	9	12	9	10	10	11	11	12	11	12	11	12	12	12	12	12	12	12	12
	65	0	28.60	12	7	7	7	8	8	12	9	9	9	10	10	12	10	11	11	12	12	12	12	12	12	12	12
	70	0	30.80	12	6	6	6	7	7	12	8	9	8	9	9	12	10	10	10	11	11	12	11	12	11	12	12
	75	0	33.00	12	6	6	6	7	7	12	7	8	8	9	9	12	9	10	9	10	10	12	10	11	10	11	11
132	40	0	19.27	12	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	21.67	12	9	9	9	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	0	24.08	12	8	8	8	10	10	12	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	55	0	26.49	12	7	7	7	9	9	12	9	10	10	11	11	12	11	12	11	12	12	12	12	12	12	12	12
	60	0	28.90	12	6	7	7	8	8	12	9	9	9	10	10	12	10	11	10	11	11	12	12	12	12	12	12
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	70	0	33.71	12	5	6	6	7	7	12	7	8	8	8	8	12	9	9	9	10	10	12	10	11	10	11	11
	75	0	36.12	12	5	5	5	6	6	12	7	7	7	8	8	12	8	9	8	9	9	12	9	10	9	10	10
144	40	0	20.93	12	9	10	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
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	70	0	36.63	12	5	5	5	6	6	12	7	7	7	8	8	12	8	9	8	9	9	12	9	10	9	10	10
168	40	0	24.27	12	8	8	8	9	9	12	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	45	0	27.30	12	7	7	7	8	8	12	9	10	9	11	11	12	11	12	11	12	12	12	12	12	12	12	12
	50	0	30.33	12	6	6	6	7	7	12	8	9	8	9	9	12	10	10	10	11	11	12	11	12	11	12	12
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	60	0	36.40	12	5	5	5	6	6	12	7	7	7	8	8	12	8	9	8	9	9	12	9	10	9	10	10
204	40	29.63971	29.27	10	3	3	4	5	5	11	4	4	4	5	5	12	5	5	5	6	6	12	5	5	5	6	6
	45	52.69282	32.92	7	-	-	-	3	3	8	3	3	3	4	4	9	3	3	3	4	4	9	3	3	4	4	4
	50	71.13531	36.58	5	-	-	-	-	-	6	-	-	-	3	3	7	-	-	3	3	3	7	-	3	3	3	3
	55	86.22462	40.24	4	-	-	-	-	-	5	-	-	-	-	-	6	-	-	-	3	3	6	-	-	-	3	3
	60	98.79904	43.90	4	-	-	-	-	-	5	-	-	-	-	-	5	-	-	-	-	-	5	-	-	-	-	-
216	40	31.77456	30.93	9	3	3	3	4	4	11	4	4	4	5	5	12	4	4	5	6	6	12	5	5	5	6	6
	45	56.48811	34.80	6	-	-	-	3	3	7	-	3	3	3	3	8	3	3	3	4	4	9	3	3	3	4	4
	50	76.25894	38.67	5	-	-	-	-	-	6	-	-	-	3	3	6	-	-	-	3	3	7	-	-	-	3	3
	55	92.43508	42.53	4	-	-	-	-	-	5	-	-	-	-	-	5	-	-	-	-	-	6	-	-	-	3	3
240	40	35.61808	34.27	8	3	3	3	4	4	10	3	4	4	4	4	11	4	4	4	5	5	11	4	4	4	5	5
	45	63.32103	38.55	6	-	-	-	3	3	7	-	-	-	3	3	7	-	3	3	3	3	8	3	3	3	4	4
	50	85.4834	42.83	4	-	-	-	-	-	5	-	-	-	-	-	6	-	-	-	3	3	6	-	-	-	3	3
264	40	77.39882	37.60	5	-	-	-	-	-	6	-	-	-	3	3	6	-	-	-	3	3	7	-	-	-	3	3
	45	103.1984	42.30	4	-	-	-	-	-	5	-	-	-	-	-	5	-	-	-	-	-	5	-	-	-	-	-
288	40	81.50313	40.93	5	-	-	-	-	-	5	-	-	-	-	-	6	-	-	-	3	3	6	-	-	-	3	3

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TITLE: 60 MM ROLL DOWN SHUTTERS
(HVHZ) (NON-IMPACT)

INSET MOUNT ANCHOR SPACING

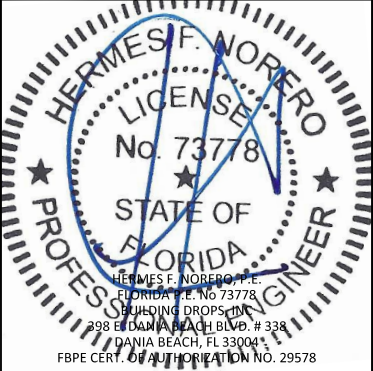
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478 FAX: (954)744-4738
WEB: www.buildingdrops.com



PREPARED BY:

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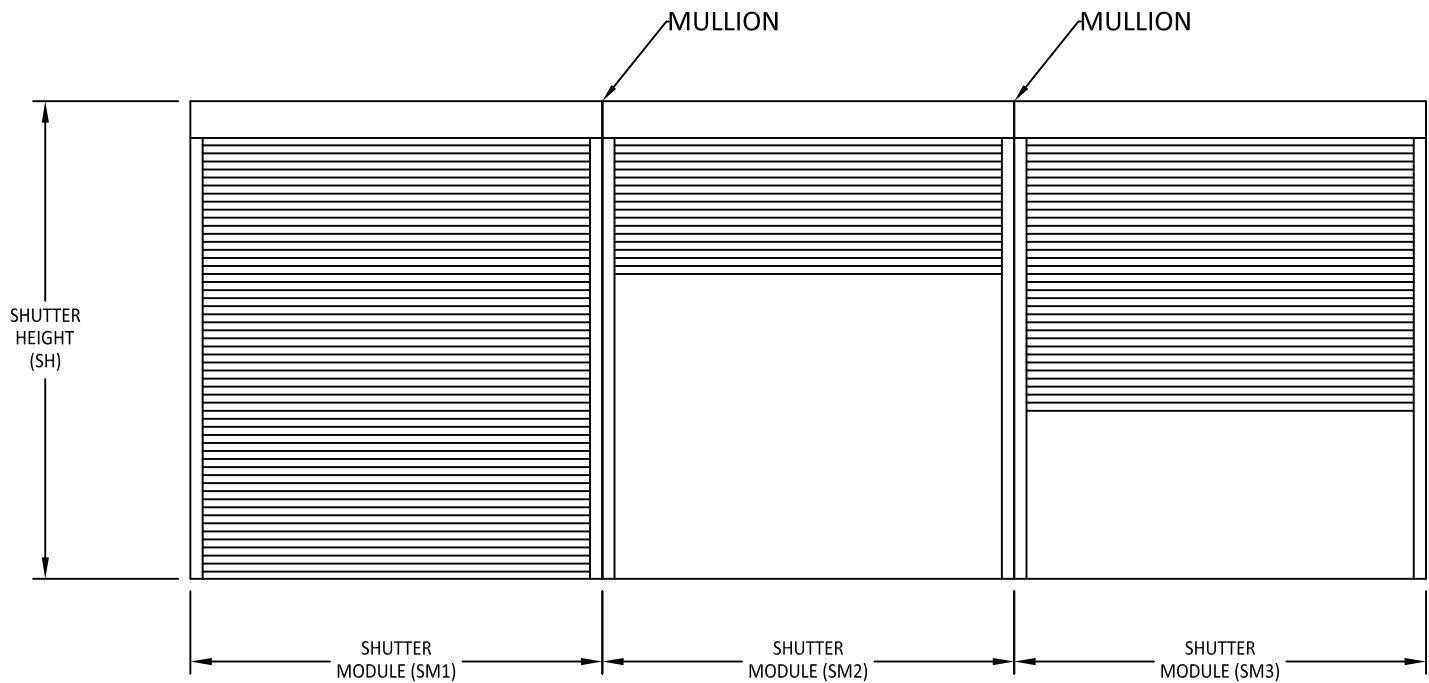
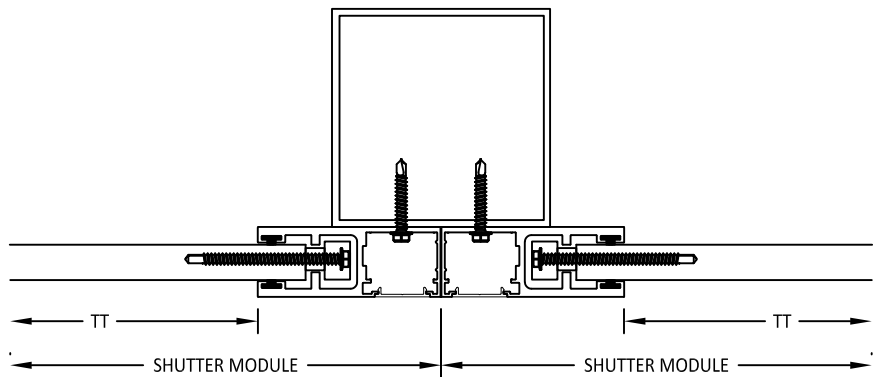


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EQUALLY SPACED MULLIONS SELECTION

FACE MOUNT MULLION

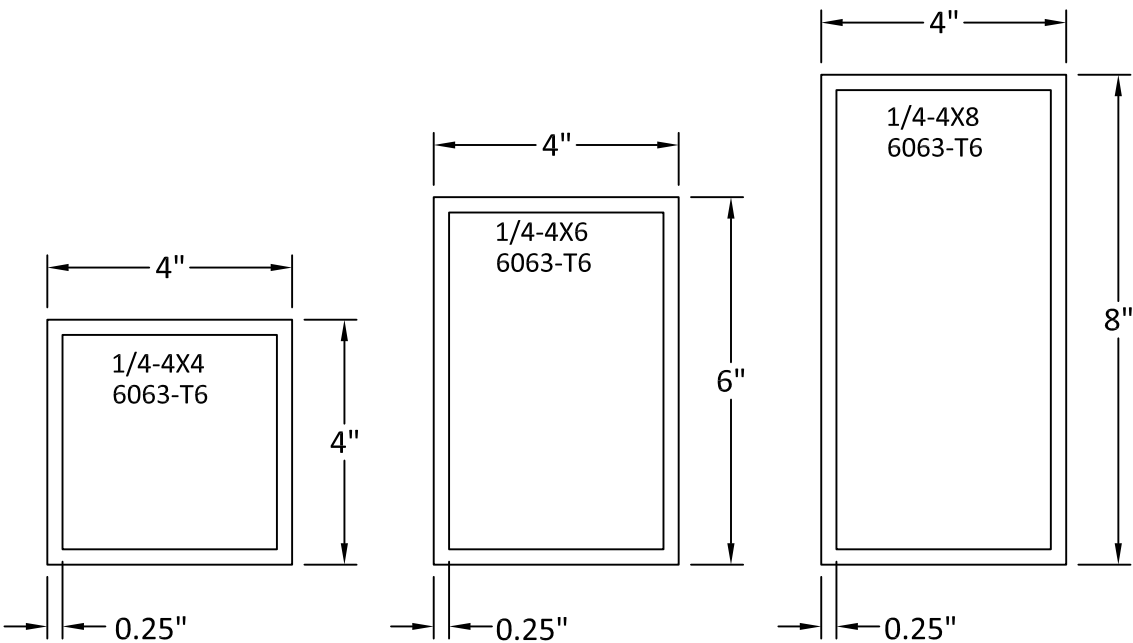


SM1 = SM2 = SM3

Maximum Mullion Designed Pressurs (PSF)

TT Max.	1/4-4x8 mullion span			1/4-4x6 mullion span			1/4-4x4 mullion span		
	144	120	96	144	120	96	144	120	96
288	34	40	40	N/A	N/A	40	N/A	N/A	N/A
264	37	45	45	N/A	31	45	N/A	N/A	N/A
240	41	50	50	N/A	35	50	N/A	N/A	N/A
216	45	55	55	N/A	39	55	N/A	N/A	N/A
204	48	60	60	N/A	41	60	N/A	N/A	30
168	58	100	100	N/A	50	97	N/A	N/A	36
144	68	118	125	33	58	114	N/A	N/A	42
132	74	129	135	36	63	124	N/A	N/A	46
120	82	142	150	40	70	137	N/A	N/A	51
108	91	158	160	45	78	152	N/A	N/A	57
96	103	175	175	50	87	171	N/A	33	64
84	117	185	185	58	100	185	N/A	37	73
72	137	200	200	67	117	200	N/A	44	85

- NOTES:
- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL 2010 EDITION AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
 - DEFLECTION CRITERIA: MAX. SPAN/180
 - VALUES ABOVE ARE APPLICABLE ONLY FOR EQUAL MODULES SM1=SM2=SM3
 - UNEQUAL MODULES ARE TO BE DESIGNED BY RATIONAL ANALYSIS IN A CASE BY CASE BASIS.



IMPACT HURRICANE SYSTEMS, INC.
1114 SE 12TH COURT
CAPE CORAL, FL 33390
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SLAT END RETENTION & HOOD
ASSEMBLY

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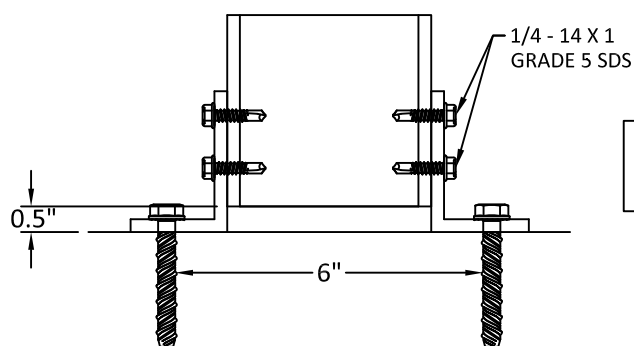
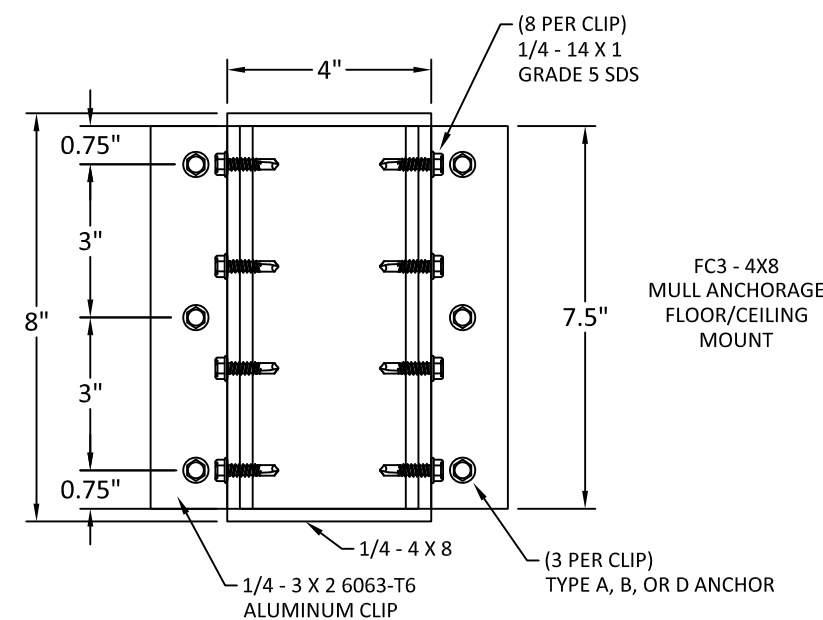
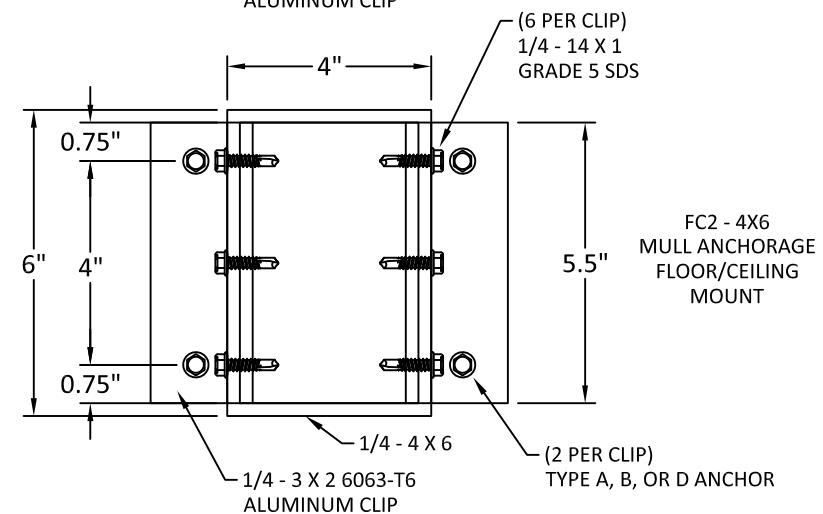
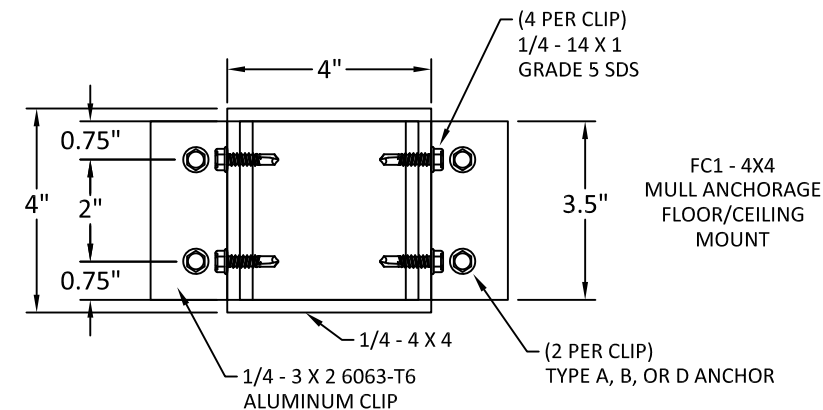


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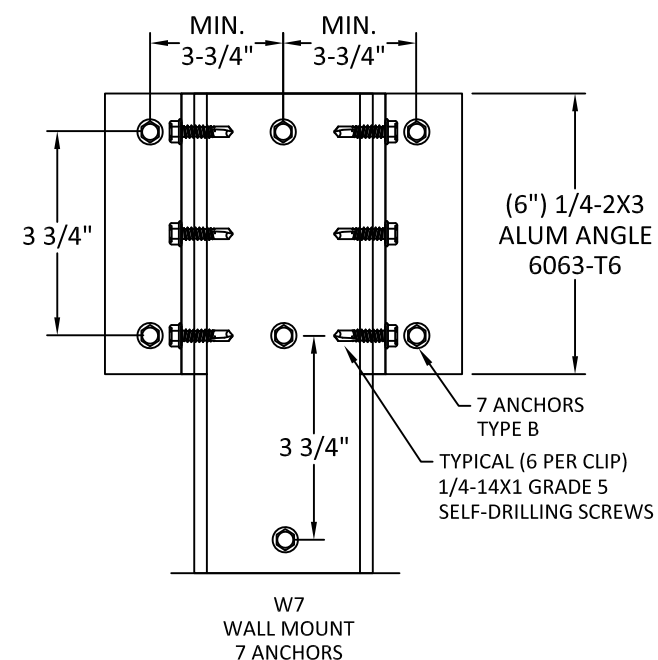
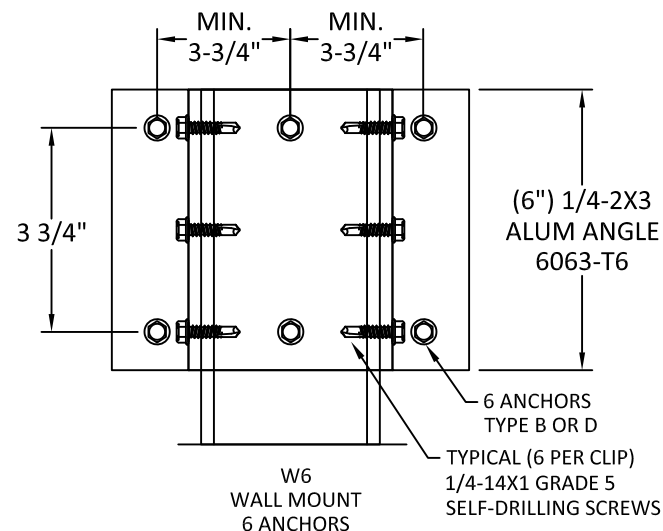
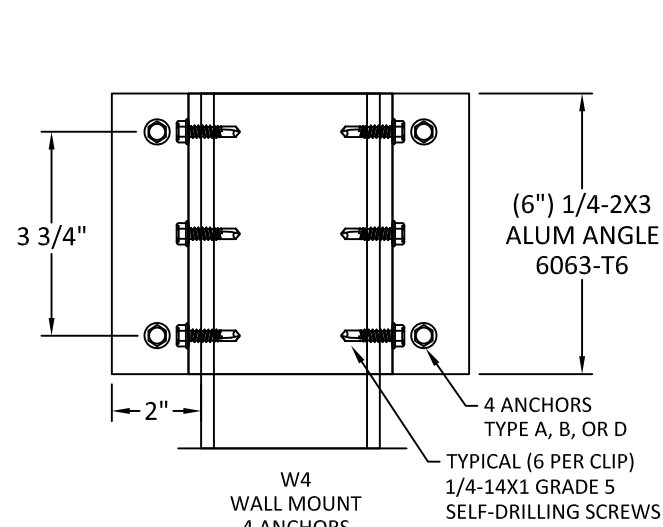


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NOTE: ANGLE CLIP TO
BE PLACED OUTSIDE OR
INSIDE TUBE

EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



WALL MOUNT ANCHOR SELECTION			
ANCHOR TYPE	MULLION TYPE		
	4X4	4X6	4X8
A	W4	W4	W4
B	W4	W6	W7
D	W4	W6	W6

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	3/8" X 4" WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 1/2"	3 3/4"
B	5/16" X 3" TAPCON	MIN. 3513 PSI CONCRETE	2"	3 1/8"
D	5/16" X 3" TAPCON	GROUT FILLED C-90 BLOCK	2 1/4"	4"

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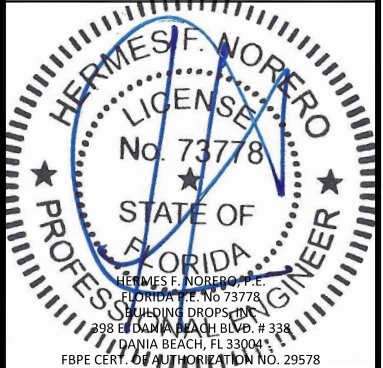
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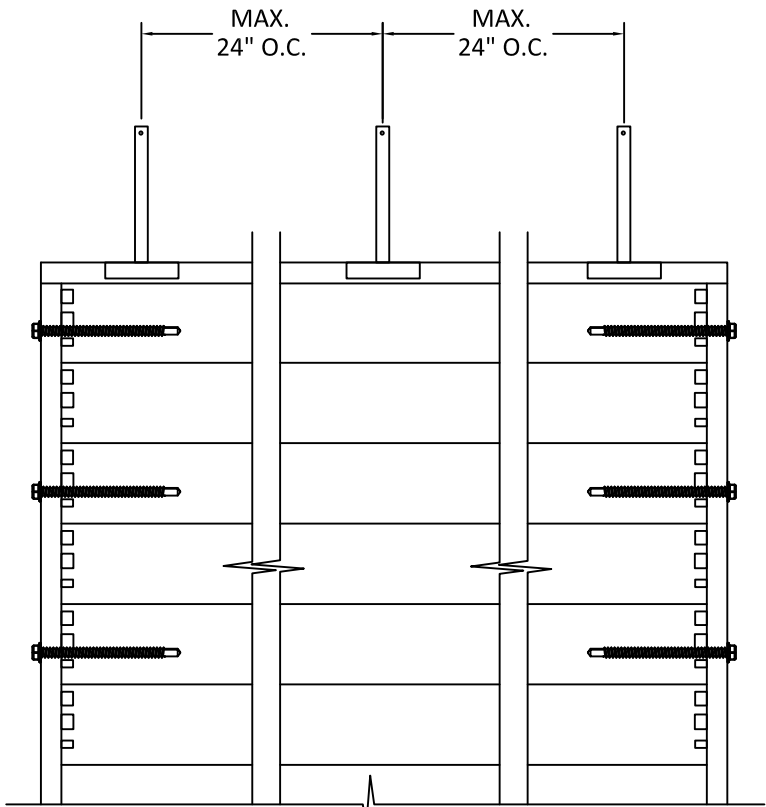
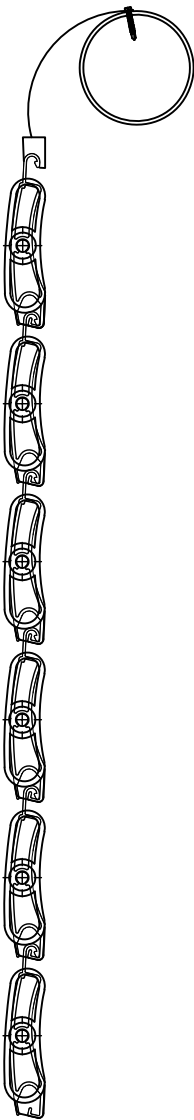
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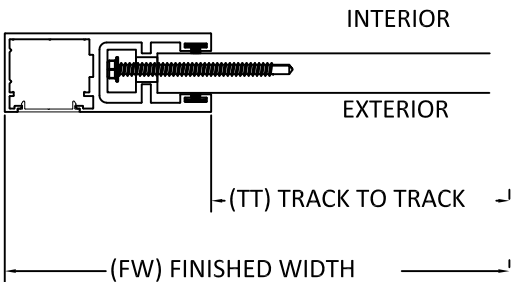
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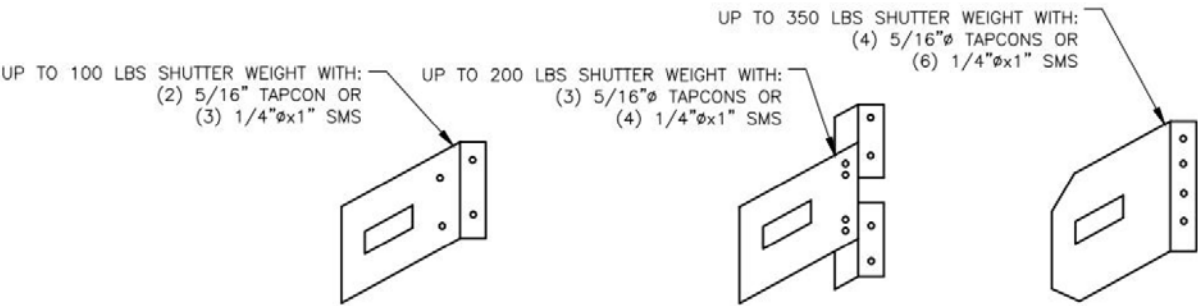
SLAT END RETENTION LAY-OUT



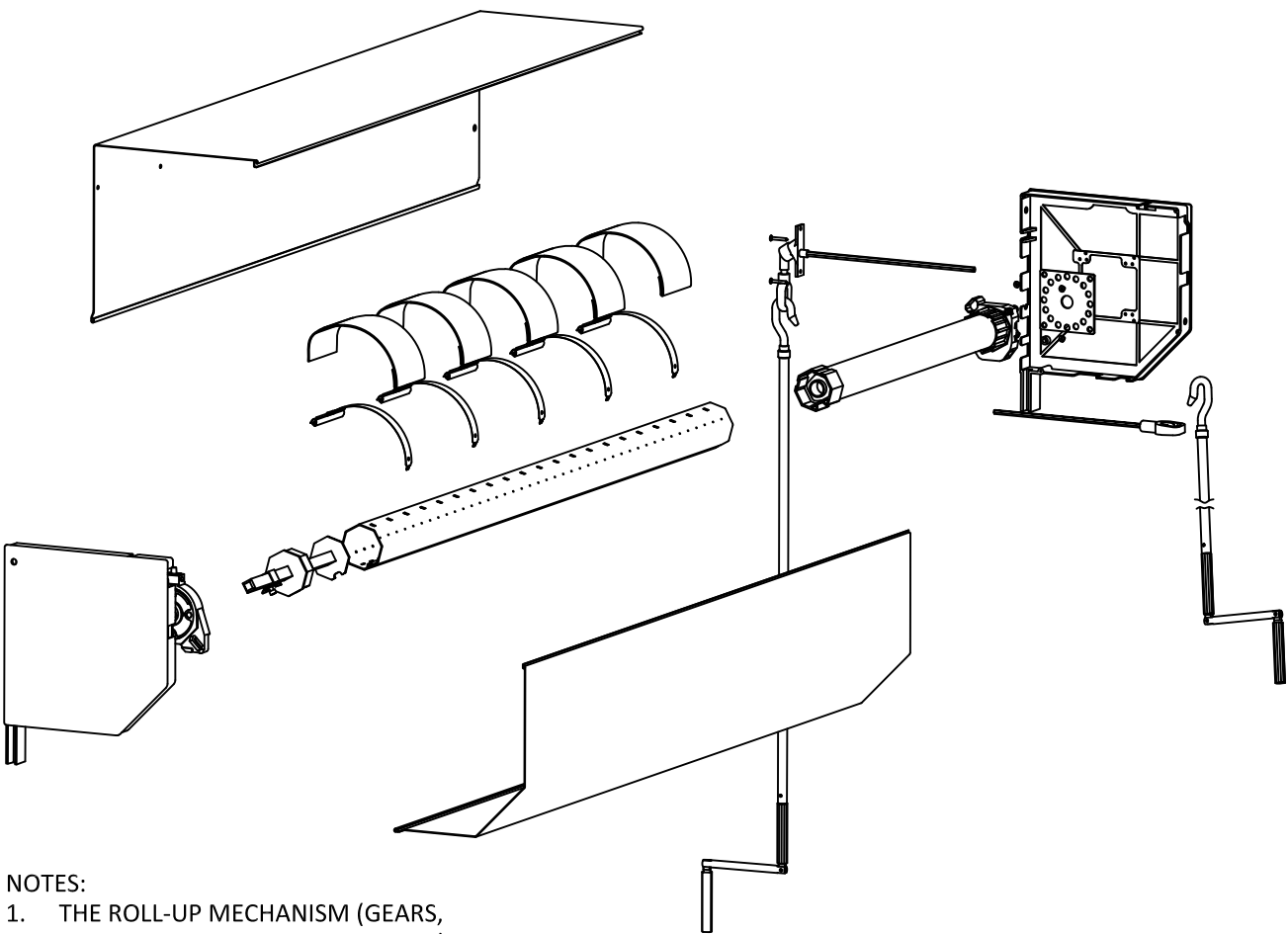
NOTE: SLAT END LOCK TO BE AT EVERY OTHER SLAT



MOUNTING BRACKET



HOOD ASSEMBLY EXPLODED



- NOTES:
1. THE ROLL-UP MECHANISM (GEARS, MOTOR, SUPPORTING END PLATES) ARE NOT APART OF THIS APPROVAL.
 2. THE USE OF 70MM AND 100MM ALUMINUM TUBE IS ACCEPTABLE.
 3. TUBULAR MOTOR MAY BE REPLACED WITH GEAR FOR MANUAL OPERATION.

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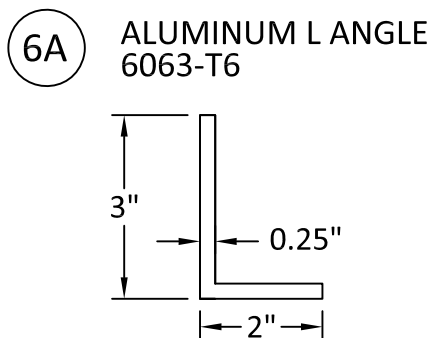
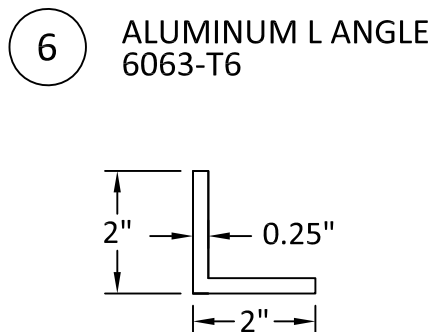
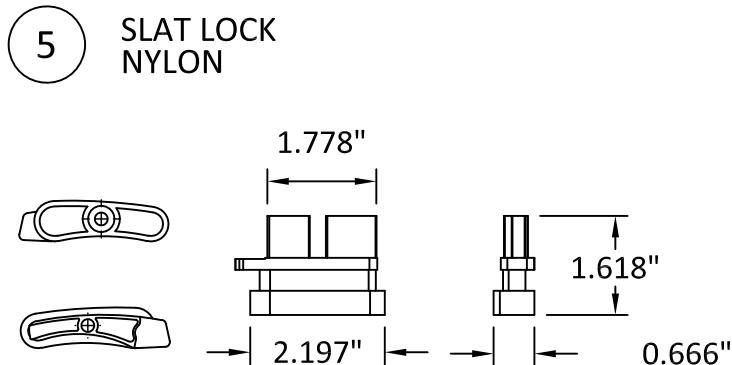
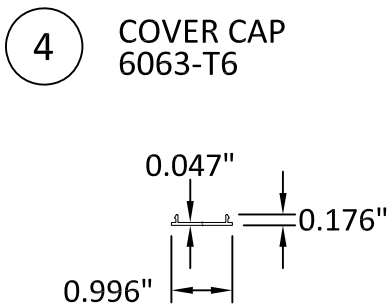
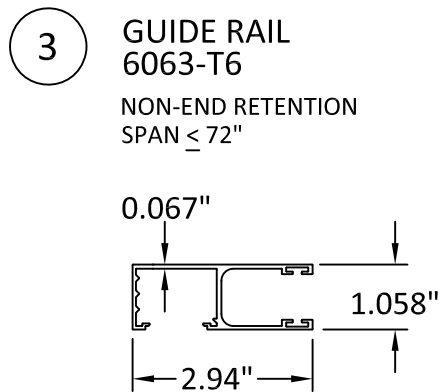
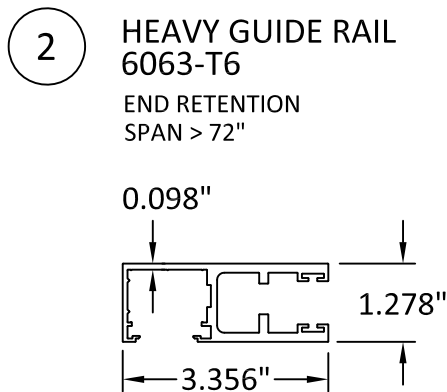
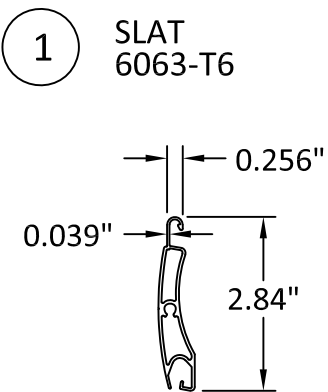
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BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	SLAT	6063-T6	ALUMINA
2	HEAVY GUIDE RAIL	6063-T6	ALUMINA
3	GUIDE RAIL	6063-T6	ALUMINA
4	COVER CAP	6063-T6	ALUMINA
5	SLAT LOCK	NYLON	-
6	ALUMINUM L ANGLE	6063-T6	-



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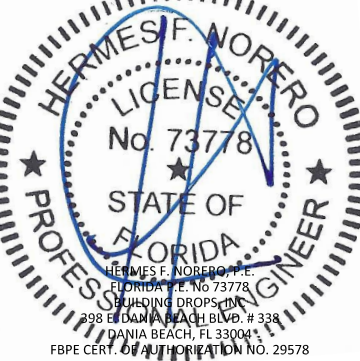
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