

c:\Users\franciscobriceno\building drops, inc\building drops landing - common\projects\condado window\fbc-22-0120 - fbc submittal - 55mm & 44mm rolldown shutter and accordian shutter\dwgs\cdw017.dwg 8/26/2024 10:07 AM

CONDADO WINDOW

44 MM ROLLDOWN SHUTTER

(HVHZ) (IMPACT)

GENERAL NOTES:

1. 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 E330-14(21)
 - ASTM E1886-19
 - ASTM E1996-20
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. 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.
3. 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.
4. 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.
5. INSTALLATION OF ROLL DOWN MAY EITHER BE INSIDE OR OUTSIDE OF THE TIE BEAM.
6. ALL EXTRUSION MATERIAL: 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
7. DESIGN AND OPERATION OF ROLLLUP MECHANISM IS NOT PART OF THIS APPROVAL, MANUFACTURER SPECIFICATIONS SHOULD BE FOLLOWED. CARE SHOULD BE TAKEN WHEN SHUTTER IS IN MOTION ENSURING THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.
8. FOR DESIGN PRESSURES SEE SHEET 3
9. HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.
- 10.SHUTTER MANUFACTURER LABEL SHALL BE LOCATED IN A READILY VISIBLE LOCATION, PER SECTION 1709.9.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. 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.
4. REFER TO ANCHOR SCHEDULE CHART ON SHEETS 5 - 10 FOR ANCHOR TYPE, SUBSTRATE TYPE, EDGE DISTANCE AND MINIMUM EMBEDMENT.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. ASSEMBLY FASTENERS SHALL HAVE A CORROSION RESISTANT COATING.
7. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. 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.

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9	COMPONENTS & BILL OF MATERIALS



CONDADO WINDOW
903RH TODD AVENUE
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TITLE:
44 MM ROLL DOWN SHUTTER
(HVHZ) (IMPACT)
GENERAL & INSTALLATION NOTES

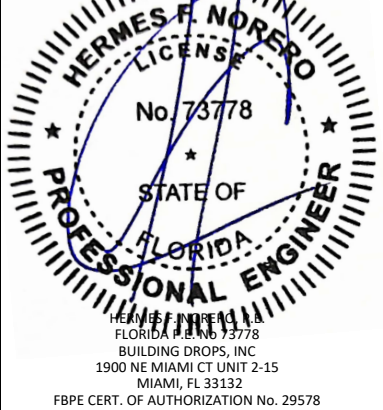
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BUILDING DROPS, INC.
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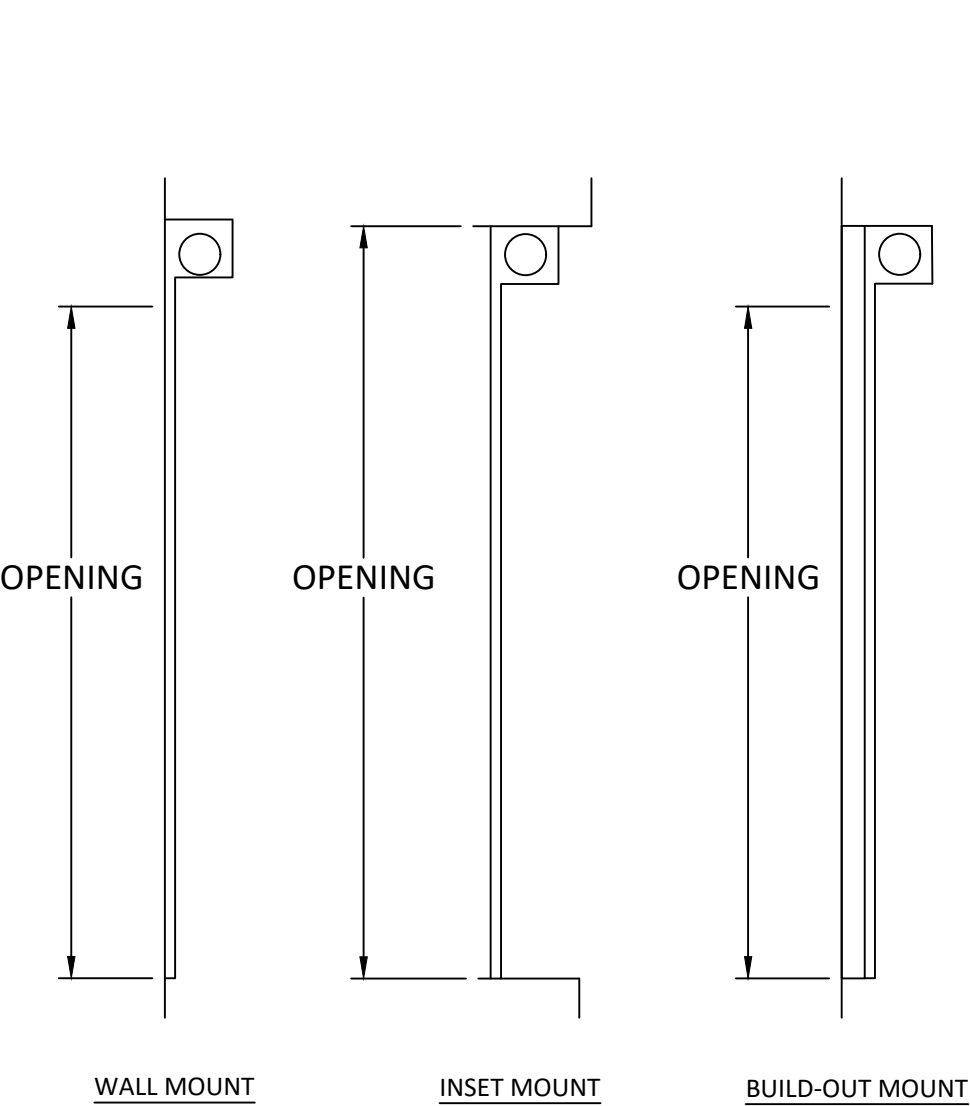
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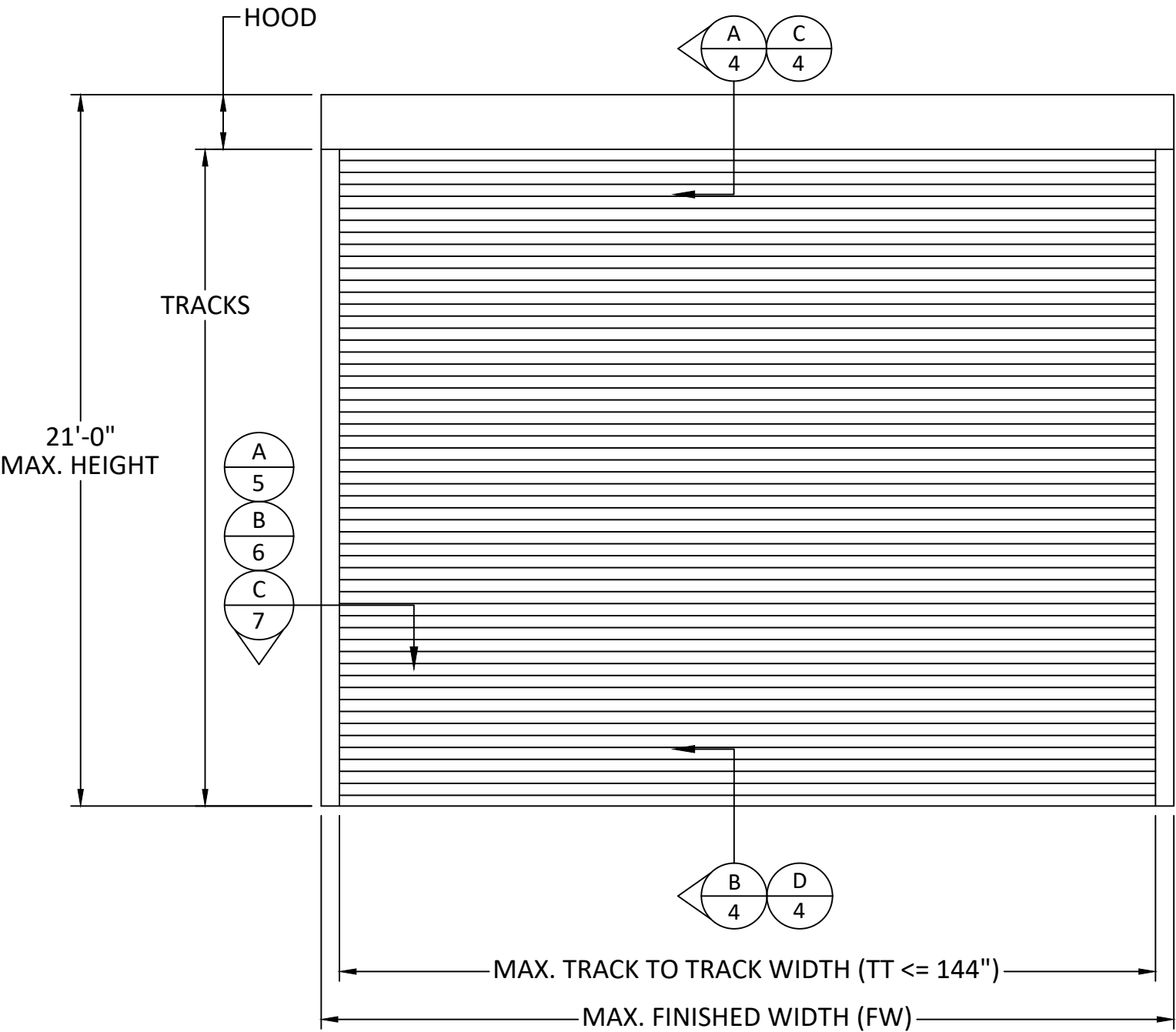


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A
2 **WALL OPENING DETAIL**



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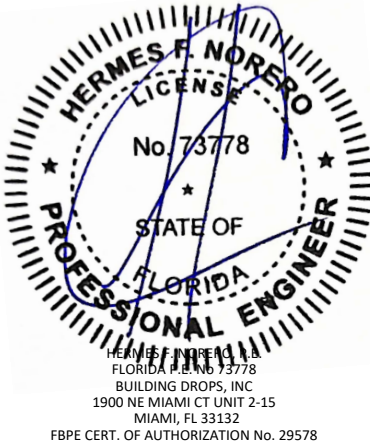
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ELEVATION

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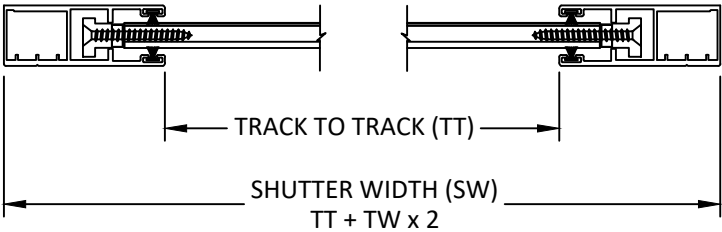
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**TABLE 1 :
DESIGN PRESSURE RATINGS**

W/ END RETENTION		
TT MAX	POSITIVE	NEGATIVE
144.0	40.0	40.0
132.0	45.5	46.8
120.0	50.9	53.6
108.0	56.4	60.5
100.0	60.0	65.0
96.0	68.0	68.0
84.0	77.0	77.0
72.0	86.0	86.0
60.0	95.0	95.0

NOTES:
1. DESIGN PRESSURES MUST NOT EXCEED 95 PSF FOR END RETENTION SYSTEM.
2. SHUTTER SIZE (TT) MUST NOT EXCEED 144".
3. SEE TABLE 2 FOR GLASS SEPERATION.
4. SEE TABLE 3 FOR APPROPRIATE ANCHOR SPACING FOR WALL MOUNT INSTALLATION.
5. SEE TABLE 4 FOR APPROPRIATE ANCHOR SPACING FOR BUILD OUT MOUNT INSTALLATION.
6. SEE TABLE 5 FOR APPROPRIATE ANCHOR SPACING FOR INSET MOUNT INSTALLATION.



**A
3** CROSS SECTION DETAIL
MOUNT TYPE 1
BUILD OUT MOUNT

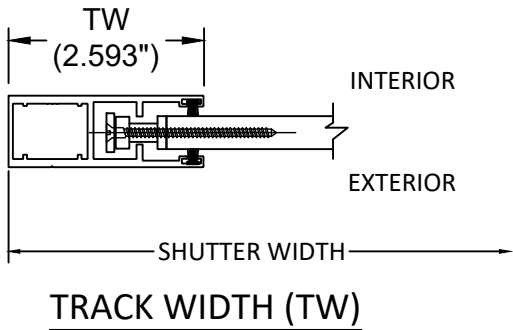
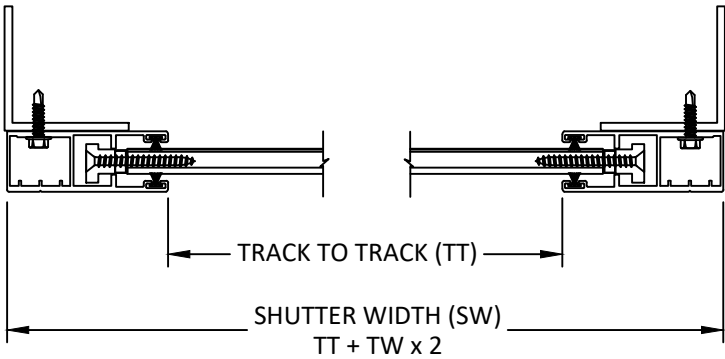


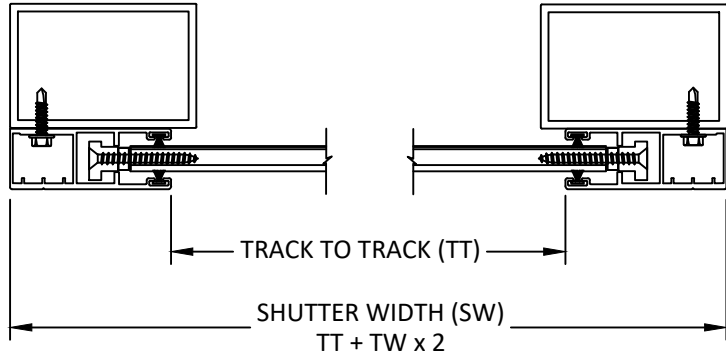
**TABLE 2:
GLASS SEPARATION TABLE**

TABLE 2: GLASS SEPARATION (GS) INCHES									
LOAD (PSF)	TRACK TO TRACK (IN)								
	60.0	72.0	84.0	96.0	100.0	108.0	120.0	132.0	144.0
40	3.50	3.75	4.00	4.50	4.50	4.75	5.25	6.00	7.00
47	3.75	4.25	4.50	5.00	5.25	5.50	6.00	7.00	-
54	4.25	4.50	5.00	5.50	5.75	6.25	7.00	-	-
60	4.75	5.00	5.50	6.25	6.50	7.00	-	-	-
65	5.00	5.50	6.00	6.50	7.00	-	-	-	-
68	5.25	5.50	6.25	7.00	-	-	-	-	-
77	5.75	6.25	7.00	-	-	-	-	-	-
86	6.25	7.00	-	-	-	-	-	-	-
95	7.00	-	-	-	-	-	-	-	-

- NOTE:
- MINIMUM GLASS SEPARATION BASED ON MAXIMUM DEFLECTION + 1".
 - ANALYSIS IS LIMITED BY DEFLECTION UNDER STRUCTURAL LOADS AS WELL AS DEFLECTION DUE TO MISSILE LEVEL D LARGE MISSILE IMPACTS.
 - APPROPRIATE INSTALLATION METHOD SHALL BE USED TO ACHIEVE THE REQUIRED SEPARATION IN THE ABOVE TABLE.
 - GLASS SEPARATION REQUIRED IN HVHZ AREAS. GLASS SEPARATION TO BE DETERMINED BY AHJ OUTSIDE OF HVHZ REGION.



**B
3** CROSS SECTION DETAIL
MOUNT TYPE 2
INSET MOUNT



**C
3** CROSS SECTION DETAIL
MOUNT TYPE 3
WALL MOUNT



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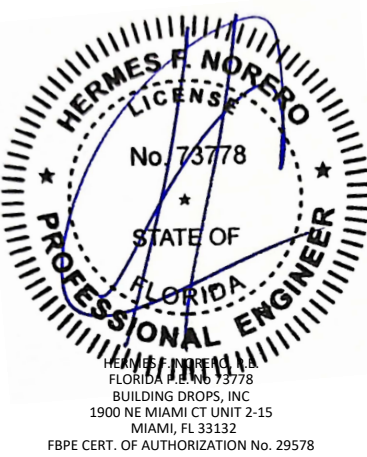
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44 MM ROLL DOWN SHUTTER
(HVHZ) (IMPACT)
MOUNTING DETAILS, DESIGN
PRESSURE & GLASS SEPARATION
TABLES

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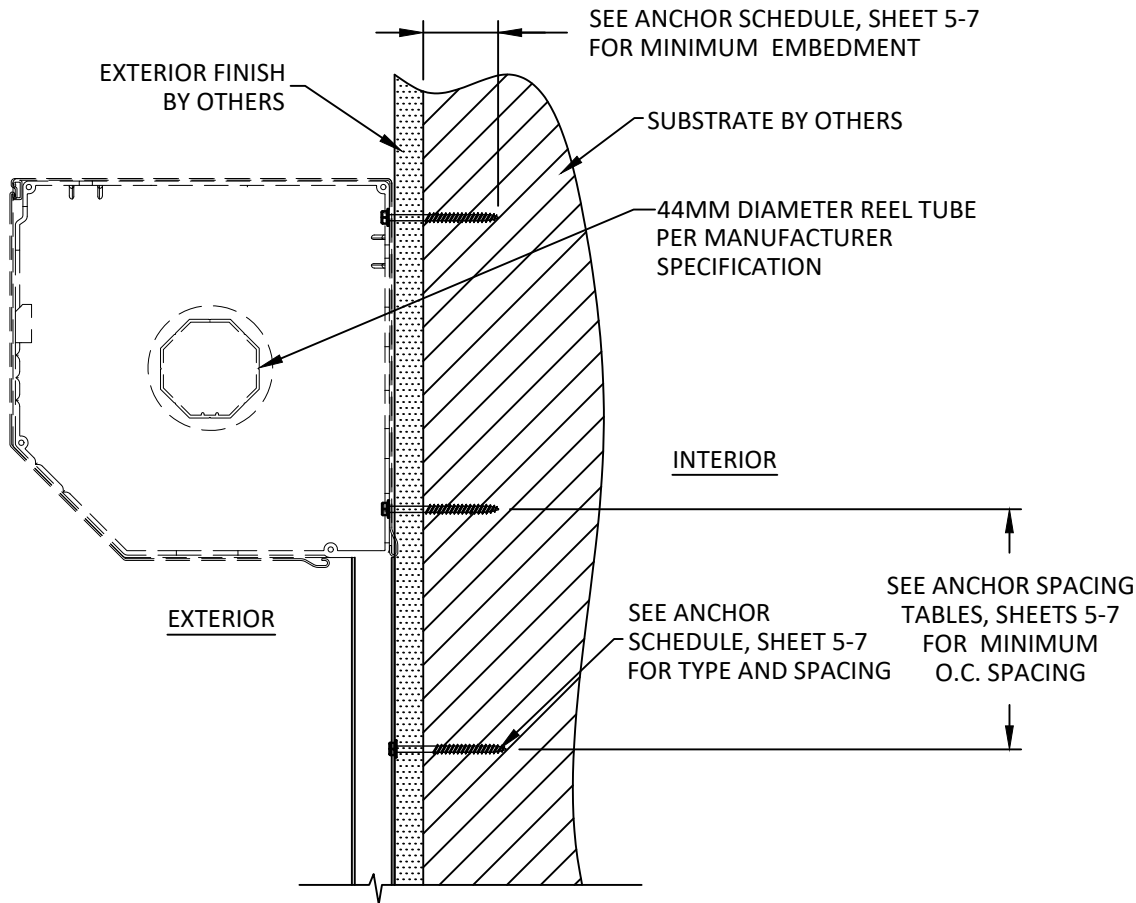
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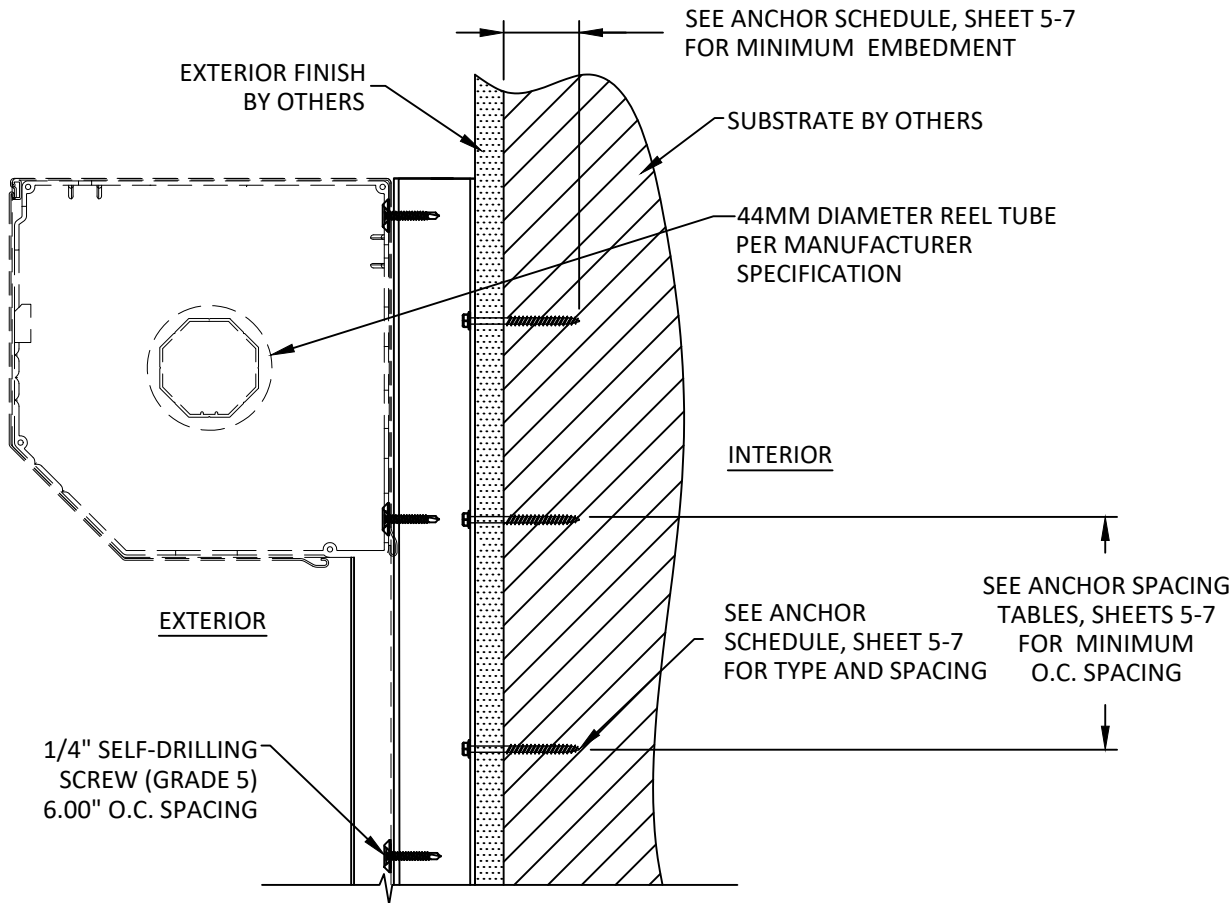
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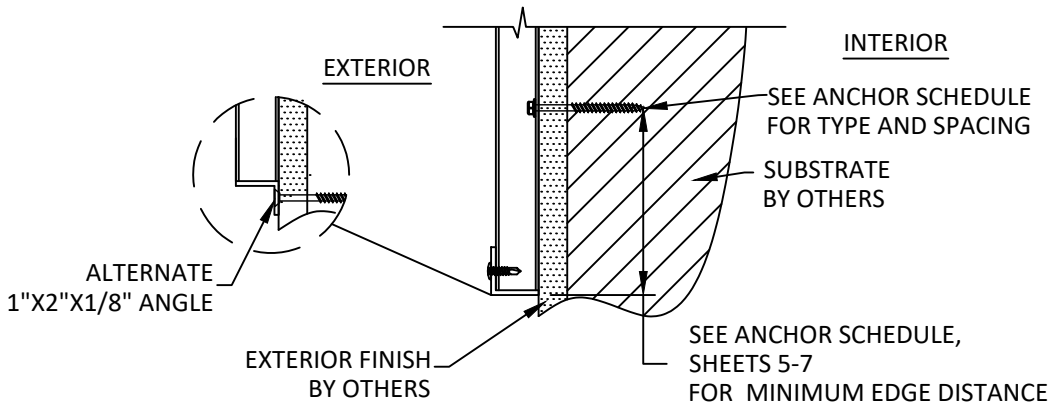
TYPICAL VERTICAL SECTIONS



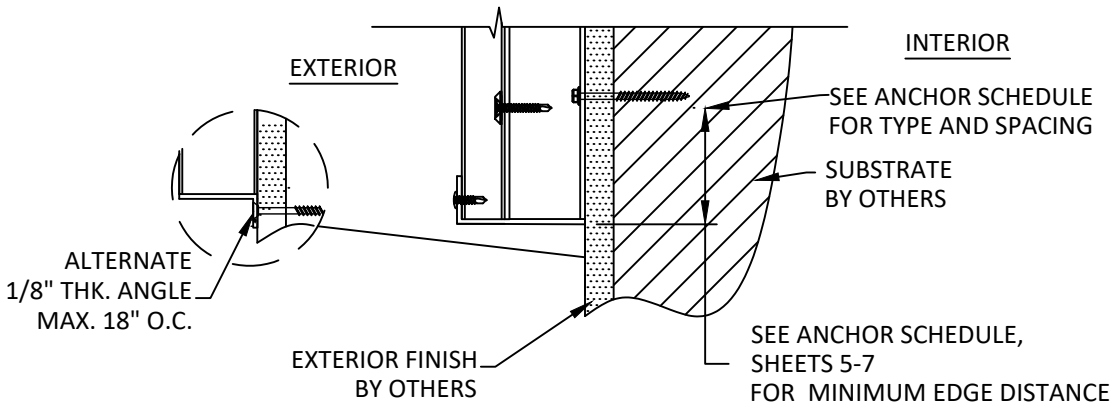
A
4
VERTICAL SECTION
WALL MOUNT
SEE SCHEDULES ON SHEETS 5-7 FOR DETAILS



C
4
VERTICAL SECTION
BUILD OUT
SEE SCHEDULES ON SHEETS 5-7 FOR DETAILS



B
4
VERTICAL SECTION
WALL MOUNT
SEE SCHEDULES ON SHEETS 5-7 FOR DETAILS



D
4
VERTICAL SECTION
BUILD OUT
SEE SCHEDULES ON SHEETS 5-7 FOR DETAILS

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



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VERTICAL SECTIONS

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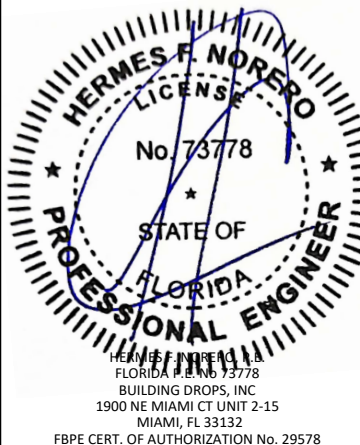
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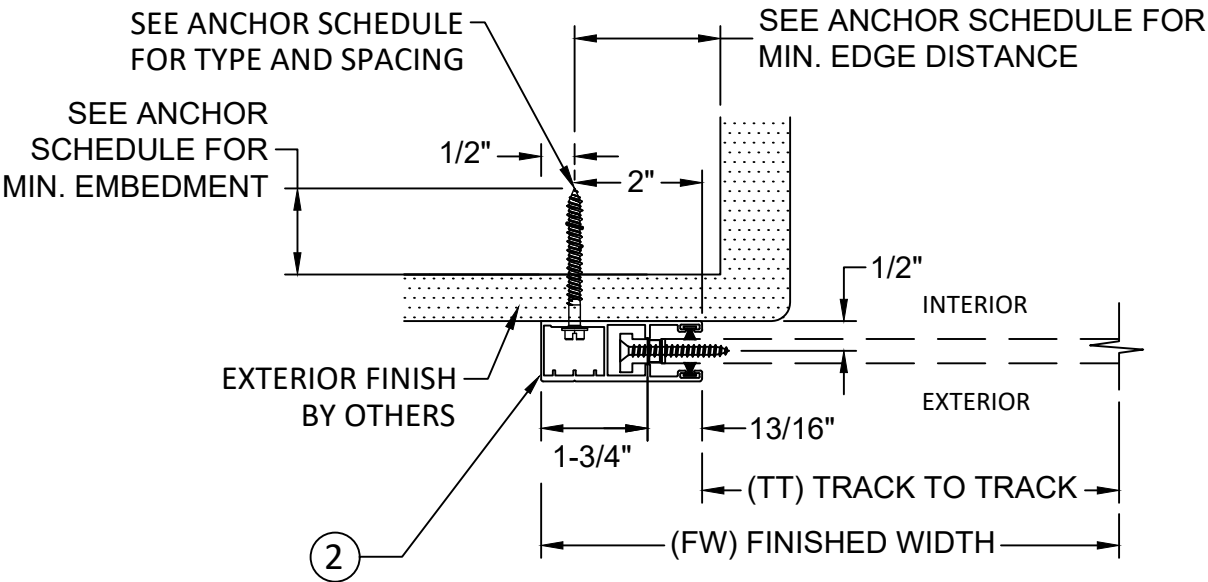
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TABLE 3 - WALL MOUNT ANCHOR SPACING															
TRACK TO TRACK SPAN (IN.) & DP PRESSURE						ANCHOR TYPE & SPACING (IN.)									
TT	DP	Vy	Vx	Ts	Vs	A	B	C	D	E	F	G	H	I	J
60	40	8.3	0.0	27.0	0.0	12	12	12	12	12	10	12	12	12	12
	47	9.8	0.0	31.6	0.0	12	12	12	11	12	9	12	12	12	12
	54	11.2	31.0	11.9	31.0	6	6	12	12	12	11	12	12	12	12
	60	12.6	33.1	13.0	33.1	6	6	12	12	12	10	12	12	12	12
	65	13.5	34.3	13.7	34.3	6	6	12	12	12	9	12	12	12	12
	68	14.2	34.9	14.1	34.9	5	6	12	12	12	9	12	12	12	12
	77	16.0	36.6	15.3	36.6	5	5	12	11	12	9	12	12	11	12
	86	17.9	38.0	16.4	38.0	5	5	12	10	12	8	12	11	11	12
72	40	10.0	0.0	32.4	0.0	12	11	12	11	12	8	12	12	12	12
	47	11.7	0.0	37.9	0.0	12	10	12	9	12	7	12	12	12	12
	54	13.4	40.4	15.1	40.4	5	5	12	10	12	8	12	11	10	11
	60	15.1	43.2	16.4	43.2	4	5	12	10	11	8	12	10	10	11
	65	16.3	44.7	17.3	44.7	4	4	12	9	10	7	12	10	9	10
	68	17.0	45.5	17.8	45.5	4	4	12	9	10	7	12	9	9	10
	77	19.3	47.7	19.2	47.7	4	4	12	8	10	7	12	9	9	9
	86	21.5	49.5	20.6	49.5	4	4	12	8	9	6	12	8	8	9
84	40	11.7	0.0	37.8	0.0	12	10	12	9	12	7	12	12	12	12
	47	13.7	0.0	44.3	0.0	12	8	12	8	12	6	12	12	12	12
	54	15.6	49.3	18.1	49.3	4	4	12	9	10	7	12	9	9	9
	60	17.6	52.6	19.7	52.6	4	4	12	8	9	6	12	8	8	9
	65	19.0	54.4	20.7	54.4	3	3	12	8	9	6	11	8	8	8
	68	19.8	55.5	21.3	55.5	3	3	12	7	8	6	11	8	7	8
	77	22.5	58.2	23.0	58.2	3	3	12	7	8	5	11	7	7	8
	86	25.2	60.9	25.7	60.9	3	3	12	6	7	4	10	6	6	7
96	40	13.3	0.0	43.2	0.0	12	8	12	8	12	6	12	12	12	12
	47	15.6	0.0	6.6	0.0	12	12	12	12	12	12	12	12	12	12
	54	17.9	59.0	21.3	59.0	3	3	12	7	8	6	11	7	7	8
	60	20.2	62.9	23.2	62.9	3	3	12	7	7	5	10	7	7	7
	65	21.7	65.1	24.3	65.1	3	3	11	6	7	5	10	6	6	7
	77	24.9	69.9	27.9	69.9	3	3	10	5	6	4	9	5	5	6
	86	28.1	74.7	31.7	74.7	3	3	9	4	5	3	8	4	4	5
	96	31.3	79.5	35.5	79.5	3	3	8	3	4	2	7	3	3	4
100	40	13.3	0.0	43.2	0.0	12	8	12	8	12	6	12	12	12	12
	47	15.6	0.0	6.6	0.0	12	12	12	12	12	12	12	12	12	12
	54	17.9	59.0	21.3	59.0	3	3	12	7	8	6	11	7	7	8
	60	20.2	62.9	23.2	62.9	3	3	12	7	7	5	10	7	7	7
	65	21.7	65.1	24.3	65.1	3	3	11	6	7	5	10	6	6	7
108	40	15.0	0.0	48.6	0.0	12	7	12	7	12	5	12	12	11	12
	47	17.6	58.4	21.0	58.4	3	3	12	7	8	6	11	7	7	8
	54	20.1	64.0	23.4	64.0	3	3	12	6	7	5	10	7	6	7
	60	22.7	68.3	25.5	68.3	3	3	11	6	7	5	9	6	6	7
120	40	16.7	0.0	54.0	0.0	11	7	12	6	12	5	12	12	10	12
	47	19.5	64.0	23.1	64.0	3	3	12	6	7	5	10	7	6	7
	54	22.3	70.1	25.7	70.1	3	3	10	6	7	5	9	6	6	6
132	40	18.3	59.0	21.5	59.0	3	3	12	7	8	6	11	7	7	8
	47	21.5	67.6	24.8	67.6	3	3	11	6	7	5	9	6	6	7
144	40	20.0	60.0	22.4	60.0	3	3	12	7	8	5	10	7	7	7

TYPICAL HORIZONTAL SECTIONS
& ANCHOR SPACING TABLES
WALL MOUNT



A5 HORIZONTAL SECTION
MOUNT TYPE 1
WALL MOUNT

ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	5/16" DEWALT ULTRA CON	WOOD, MIN. SG = 0.55	1-9/16"	2"
B	#14 WOOD SCREW	WOOD, MIN. SG = 0.55	3/4"	1-1/2"
C	5/16" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	3/4"	3 THREAD
D	5/16" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	3/4"	
E	1/4" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	1/2"	3 THREAD
F	1/4" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	1/2"	
G	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	3-1/2"	3-1/4"
H	3/8" DEWALT SCREW-BOLT+	GROUT FILLED C-90 BLOCK	3-1/2"	3-1/4"
I	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
J	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"



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WALL MOUNT HORIZONTAL
SECTIONS & ANCHOR SPACING

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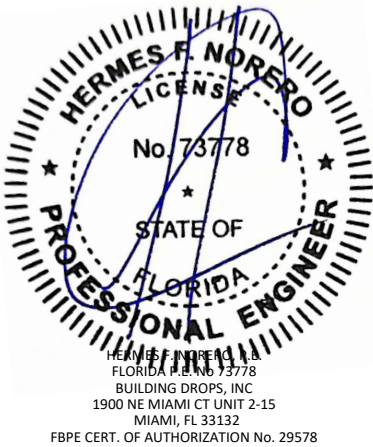
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FL#:
FL46856

DATE: 06.07.24

DWG. BY:
FB

CHK. BY:
HFN

SCALE: NTS

DWG. #: CDW017

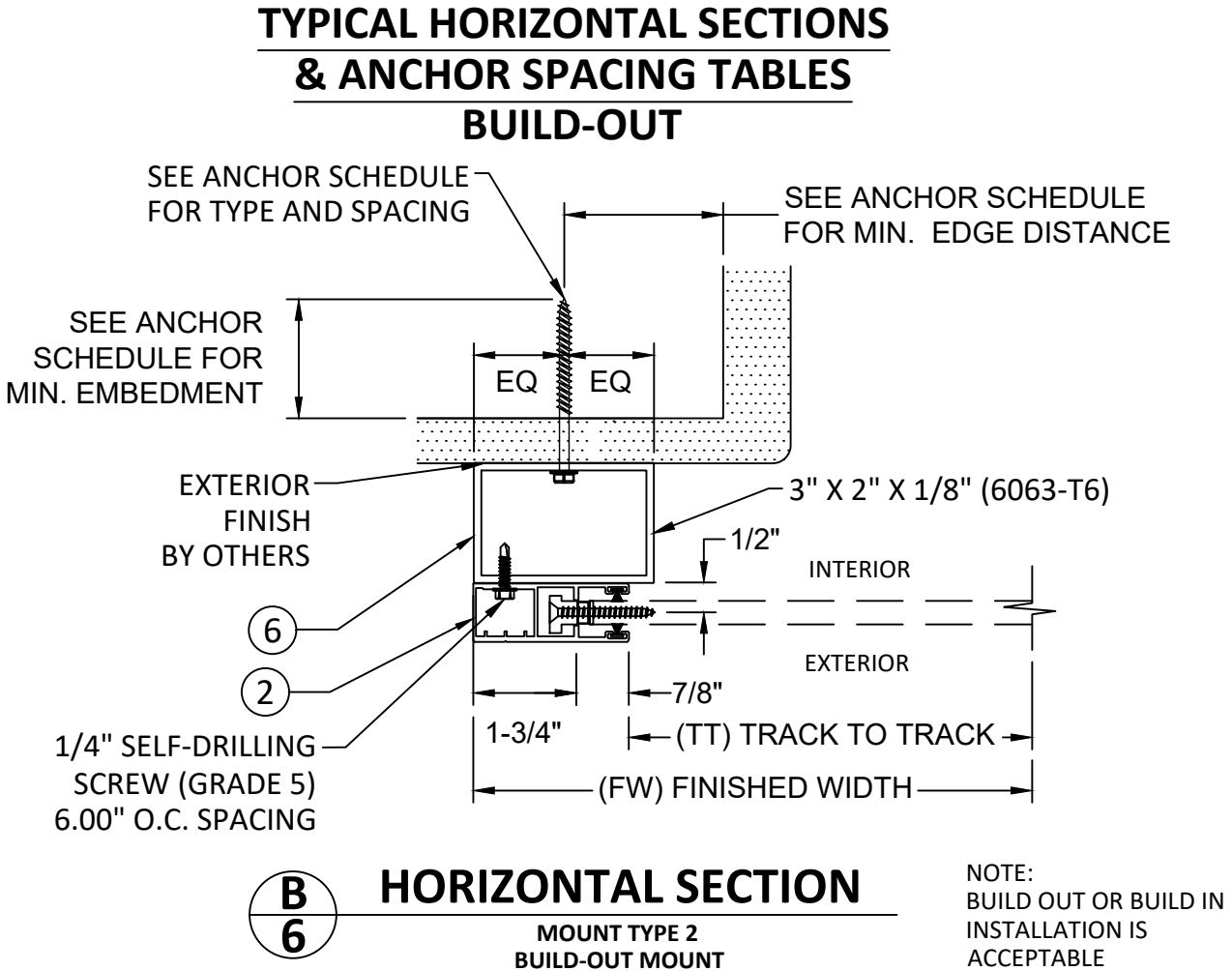
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c:\users\franciscobriceno\building drops, inc\building drops landing - common\projects\condado window\fbc-22-0120 - fbc submittal - 55mm & 44mm rolldown shutter and accordian shutter\dwgs\cdw017.dwg 8/26/2024 10:07 AM

TABLE 4 - BUILD OUT MOUNT ANCHOR SPACING															
TRACK TO TRACK SPAN (IN.) & DP PRESSURE						ANCHOR TYPE & MAX. O.C. SPACING (IN.)									
TT	DP	Vy	Vx	Ts	Vs	A	B	C	D	E	F	G	H	I	J
60	40	8.3	0.0	9.5	0.0	12	12	12	12	12	12	12	12	12	12
	47	9.8	0.0	11.2	0.0	12	12	12	12	12	12	12	12	12	12
	54	11.2	21.8	48.9	21.8	5	4	12	6	10	4	12	10	8	10
	60	12.6	24.9	55.6	24.9	5	4	12	5	9	4	12	9	7	8
	65	13.5	26.6	59.6	26.6	4	3	11	5	8	4	12	8	6	8
	68	14.2	27.7	61.9	27.7	4	3	11	4	8	3	12	8	6	7
	77	16.0	30.2	68.3	30.2	4	3	10	4	7	3	11	7	5	7
	86	17.9	32.2	73.8	32.2	3	3	9	4	6	3	10	7	5	6
	95	19.8	33.9	78.6	33.9	3	3	8	3	6	3	9	6	5	6
72	40	10.0	0.0	11.4	0.0	12	12	12	12	12	12	12	12	12	12
	47	11.7	0.0	13.4	0.0	12	12	12	12	12	12	12	12	12	12
	54	13.4	28.4	62.4	28.4	4	3	11	4	8	3	12	8	6	7
	60	15.1	32.5	71.0	32.5	3	3	9	4	7	3	10	7	5	6
	65	16.3	34.7	76.0	34.7	3	3	9	3	6	3	10	6	5	6
	68	17.0	36.0	79.1	36.0	3	-	8	3	6	3	9	6	5	6
	77	19.3	39.4	87.2	39.4	3	-	7	3	5	-	8	5	4	5
	86	21.5	42.0	94.1	42.0	3	-	7	3	5	-	8	5	4	5
84	40	11.7	0.0	13.4	0.0	12	12	12	12	12	12	12	12	12	12
	47	13.7	0.0	15.6	0.0	12	12	12	12	12	12	12	12	12	12
	54	15.6	34.6	75.2	34.6	3	3	9	3	6	3	10	6	5	6
	60	17.6	39.6	85.7	39.6	3	-	7	3	5	-	8	6	4	5
	65	19.0	42.3	91.7	42.3	3	-	7	3	5	-	8	5	4	5
	68	19.8	43.9	95.4	43.9	-	-	7	3	5	-	7	5	4	5
	77	22.5	48.0	105.1	48.0	-	-	6	-	4	-	7	4	3	4
96	40	0.6	0.0	0.7	0.0	12	12	12	12	12	12	12	12	12	12
	47	0.7	0.0	0.8	0.0	12	12	12	12	12	12	12	12	12	12
	54	0.8	40.0	67.0	40.0	3	3	9	4	6	3	10	6	5	6
	60	0.9	45.7	76.6	45.7	3	-	8	3	5	-	8	5	4	5
	65	1.0	48.8	81.8	48.8	-	-	7	3	5	-	8	5	4	5
	68	1.0	50.7	84.9	50.7	-	-	7	3	5	-	7	5	4	5
100	40	0.6	0.0	0.7	0.0	12	12	12	12	12	12	12	12	12	12
	47	0.7	0.0	0.8	0.0	12	12	12	12	12	12	12	12	12	12
	54	0.8	41.4	69.4	41.4	3	3	9	4	6	3	9	6	5	6
	60	0.9	47.4	79.4	47.4	3	-	7	3	5	-	8	5	4	5
	65	1.0	50.6	84.8	50.6	-	-	7	3	5	-	7	5	4	5
108	40	15.0	0.0	17.2	0.0	12	12	12	12	12	12	12	12	12	12
	47	17.6	36.6	80.7	36.6	3	-	8	3	6	-	9	6	4	6
	54	20.1	45.0	97.4	45.0	-	-	7	3	5	-	7	5	4	4
	60	22.7	51.4	110.9	51.4	-	-	6	-	4	-	6	4	3	4
120	40	16.7	0.0	19.1	0.0	12	12	12	12	12	12	12	12	12	12
	47	19.5	40.1	88.7	40.1	3	-	7	3	5	-	8	5	4	5
	54	22.3	49.2	107.0	49.2	-	-	6	-	4	-	7	4	3	4
132	40	18.3	14.8	45.4	14.8	7	5	12	6	12	5	12	12	9	11
	47	21.5	42.4	94.7	42.4	3	-	7	3	5	-	8	5	4	5
144	40	20.0	15.0	47.7	15.0	7	5	12	6	11	5	12	12	9	11



ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	5/16" DEWALT ULTRAICON	WOOD, MIN. SG = 0.55	1-9/16"	2"
B	#14 WOOD SCREW	WOOD, MIN. SG = 0.55	3/4"	1-1/2"
C	5/16" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	3/4"	3 THREAD
D	5/16" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	3/4"	
E	1/4" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	1/2"	3 THREAD
F	1/4" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	1/2"	
G	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	3-1/2"	3-1/4"
H	3/8" DEWALT SCREW-BOLT+	GROUT FILLED C-90 BLOCK	3-1/2"	3-1/4"
I	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
J	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"



CONDADO WINDOW
903RH TODD AVENUE
SAN JUAN, PUERTO RICO, 00907
PH: (787) 723-5469 FAX: (787)722-1395

TITLE:
44 MM ROLL DOWN SHUTTER
(HVHZ) (IMPACT)
BUILD-OUT MOUNT HORIZONTAL
SECTIONS & ANCHOR SPACING

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FLORIDA LICENSE 73778
BUILDING DROPS, INC
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL#:
FL46856

DATE:
06.07.24

DWG. BY:
FB

CHK. BY:
HFN

SCALE:
NTS

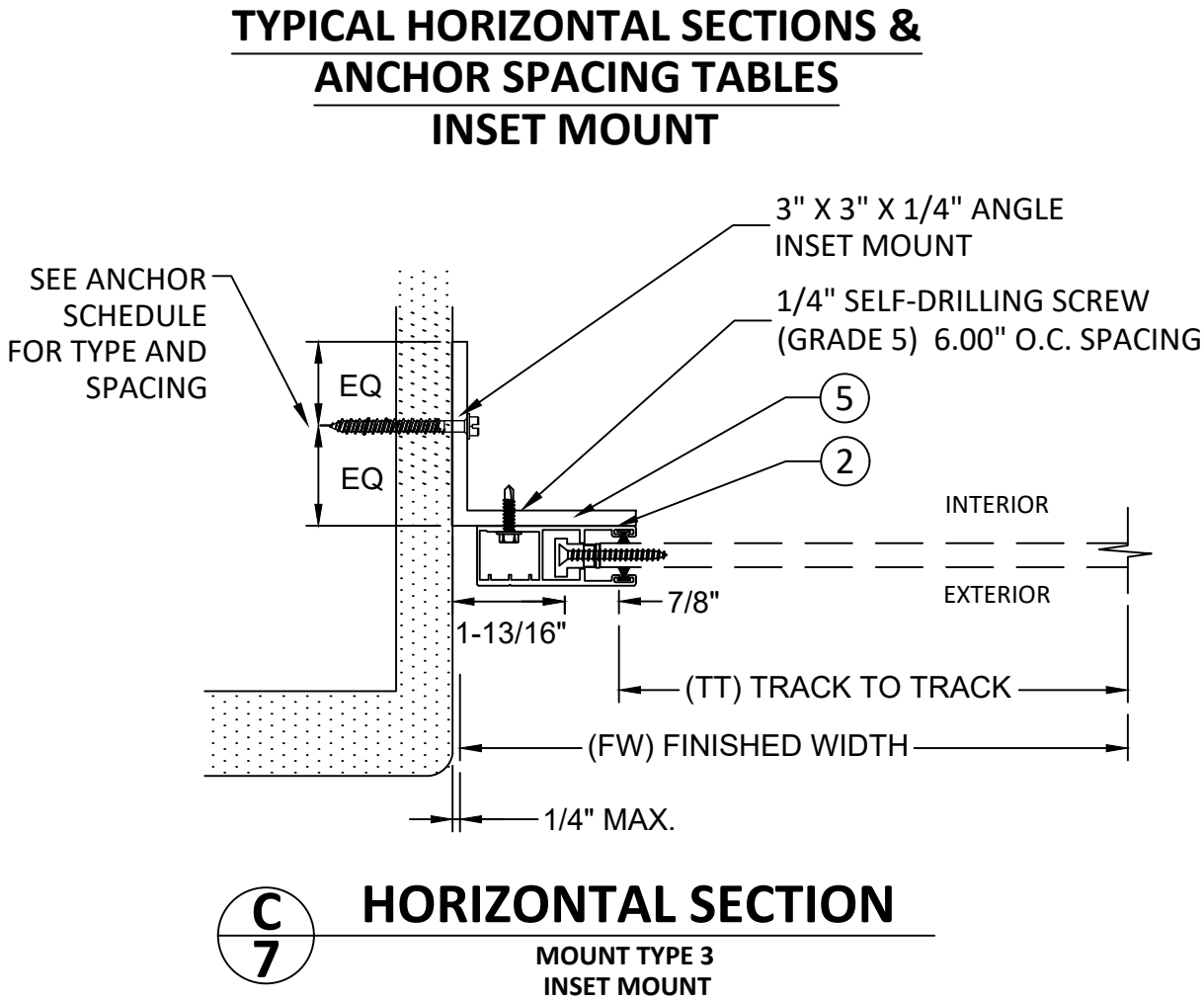
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CDW017

SHEET:
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OF 9

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TABLE 5 - INSET MOUNT ANCHOR SPACING															
TRACK TO TRACK SPAN (IN.) & DP PRESSURE						ANCHOR TYPE & MAX. O.C. SPACING (IN.)									
TT	DP	Vy	Vx	Ts	Vs	A	B	C	D	E	F	G	H	I	J
60	40	8.3	0.0	19.1	0.0	12	12	12	12	12	12	12	12	12	12
	47	9.8	0.0	22.4	0.0	12	12	12	12	12	12	12	12	12	12
	54	11.2	21.8	56.6	21.8	5	4	12	5	9	4	12	9	7	9
	60	12.6	24.9	64.3	24.9	4	3	11	4	8	3	12	8	6	8
	65	13.5	26.6	68.9	26.6	4	3	10	4	7	3	11	8	6	7
	68	14.2	27.7	71.7	27.7	4	3	10	4	7	3	11	7	5	7
	77	16.0	30.2	79.7	30.2	3	3	9	3	6	3	10	7	5	6
	86	17.9	32.2	86.8	32.2	3	-	8	3	6	-	9	6	4	6
72	95	19.8	33.9	93.5	33.9	3	-	7	3	5	-	8	6	4	5
	40	10.0	0.0	23.0	0.0	12	12	12	12	12	12	12	12	12	12
	47	11.7	0.0	26.9	0.0	12	12	12	12	12	10	12	12	12	12
	54	13.4	28.4	71.1	28.4	4	3	10	4	7	3	11	7	5	7
	60	15.1	32.5	80.8	32.5	3	3	8	3	6	3	9	6	5	6
	65	16.3	34.7	86.6	34.7	3	-	8	3	6	-	9	6	4	5
	68	17.0	36.0	90.1	36.0	3	-	7	3	5	-	8	6	4	5
	77	19.3	39.4	100.0	39.4	3	-	7	3	5	-	8	5	4	5
84	86	21.5	42.0	108.9	42.0	-	-	6	-	4	-	7	5	3	4
	40	11.7	0.0	26.8	0.0	12	12	12	12	12	10	12	12	12	12
	47	13.7	0.0	31.4	0.0	12	12	12	11	12	9	12	12	12	12
	54	15.6	34.6	85.0	34.6	3	-	8	3	6	-	9	6	4	5
	60	17.6	39.6	96.6	39.6	3	-	7	3	5	-	8	5	4	5
	65	19.0	42.3	103.5	42.3	-	-	6	-	5	-	7	5	3	4
	68	19.8	43.9	107.8	43.9	-	-	6	-	4	-	7	5	3	4
	77	22.5	48.0	119.6	48.0	-	-	5	-	4	-	6	4	3	4
96	40	13.3	0.0	30.6	0.0	12	12	12	11	12	9	12	12	12	12
	47	15.6	0.0	35.9	0.0	12	10	12	10	12	8	12	12	12	12
	54	17.9	40.0	97.7	40.0	3	-	7	3	5	-	8	5	4	5
	60	20.2	45.7	111.0	45.7	-	-	6	-	4	-	7	4	3	4
	65	21.7	48.8	119.0	48.8	-	-	5	-	4	-	6	4	3	4
	68	22.7	50.7	123.9	50.7	-	-	5	-	4	-	6	4	3	4
100	40	13.9	0.0	31.9	0.0	12	12	12	11	12	9	12	12	12	12
	47	16.3	0.0	37.4	0.0	12	10	12	9	12	7	12	12	12	12
	54	18.6	41.4	101.5	41.4	-	-	6	3	5	-	7	5	4	4
	60	21.0	47.4	115.4	47.4	-	-	6	-	4	-	6	4	3	4
	65	22.6	50.6	123.6	50.6	-	-	5	-	4	-	6	4	3	4
108	40	15.0	0.0	34.5	0.0	12	11	12	10	12	8	12	12	12	12
	47	17.6	36.6	92.3	36.6	3	-	7	3	5	-	8	5	4	5
	54	20.1	45.0	109.9	45.0	-	-	6	-	4	-	7	4	3	4
	60	22.7	51.4	124.9	51.4	-	-	5	-	4	-	6	4	3	4
120	40	16.7	0.0	38.3	0.0	12	10	12	9	12	7	12	12	12	12
	47	19.5	40.1	101.7	40.1	3	-	7	3	5	-	7	5	4	5
	54	22.3	49.2	121.1	49.2	-	-	5	-	4	-	6	4	3	4
132	40	18.3	14.8	63.0	14.8	6	4	12	5	9	4	12	10	7	9
	47	21.5	42.4	109.4	42.4	-	-	6	-	4	-	7	5	3	4
144	40	20.0	15.0	67.2	15.0	5	4	11	4	9	3	12	9	6	8



ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	5/16" DEWALT ULTRA CON	WOOD, MIN. SG = 0.55	1-9/16"	2"
B	#14 WOOD SCREW	WOOD, MIN. SG = 0.55	3/4"	1-1/2"
C	5/16" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	3/4"	3 THREAD
D	5/16" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	3/4"	
E	1/4" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	1/2"	3 THREAD
F	1/4" SELF DRILLING SCREW (GRADE 5)	3/8" 6063-T5 ALUMINUM	1/2"	
G	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	3-1/2"	3-1/4"
H	3/8" DEWALT SCREW-BOLT+	GROUT FILLED C-90 BLOCK	3-1/2"	3-1/4"
I	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
J	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"



CONDADO WINDOW
903RH TODD AVENUE
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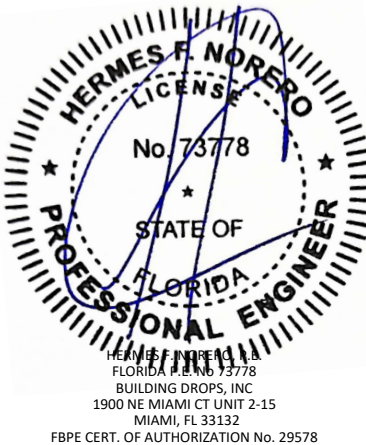
TITLE: 44 MM ROLL DOWN SHUTTER (HVHZ) (IMPACT)
INSET MOUNT HORIZONTAL SECTIONS & ANCHOR SPACING

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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FL#: **FL46856**

DATE: **06.07.24**

DWG. BY: **FB** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **CDW017**

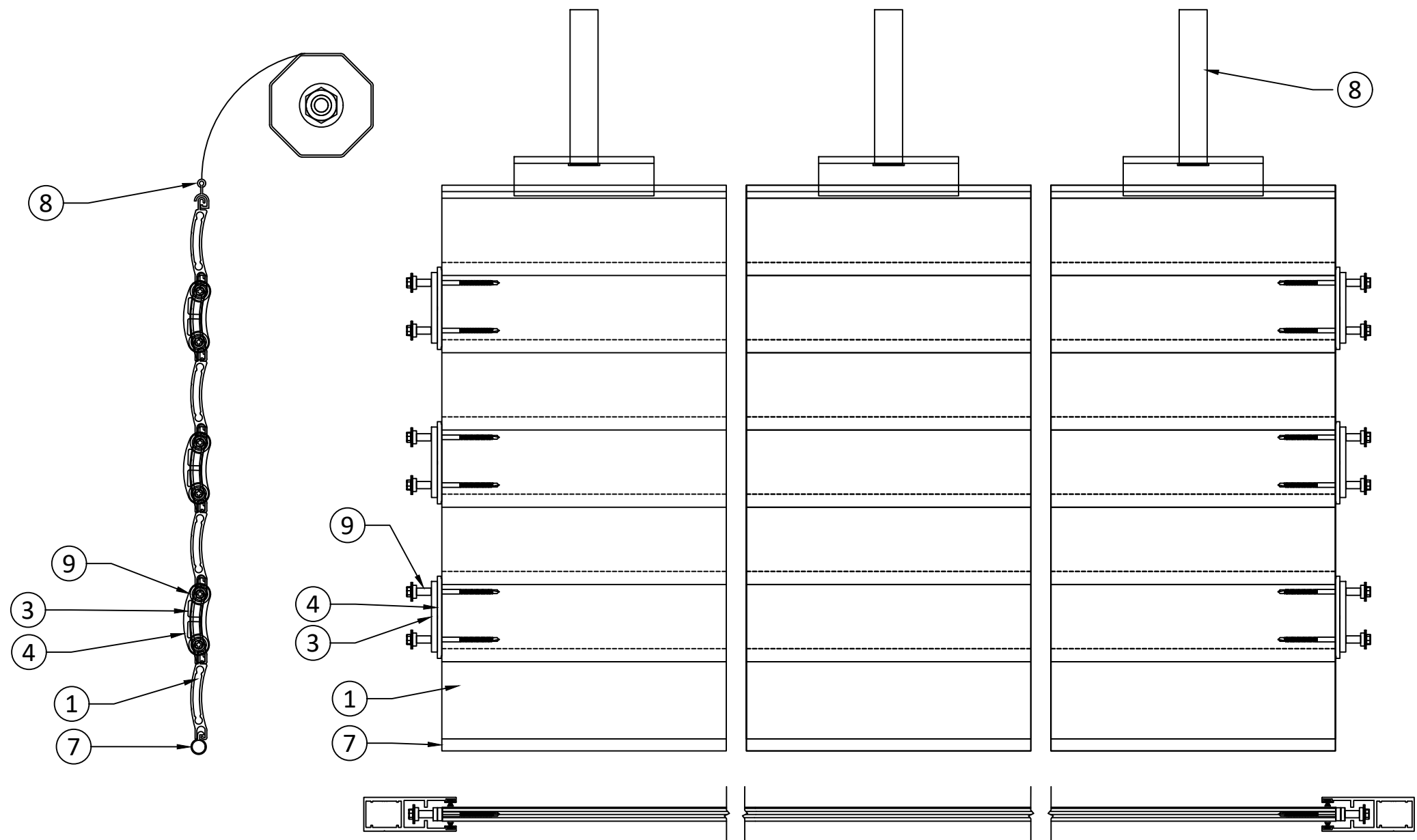
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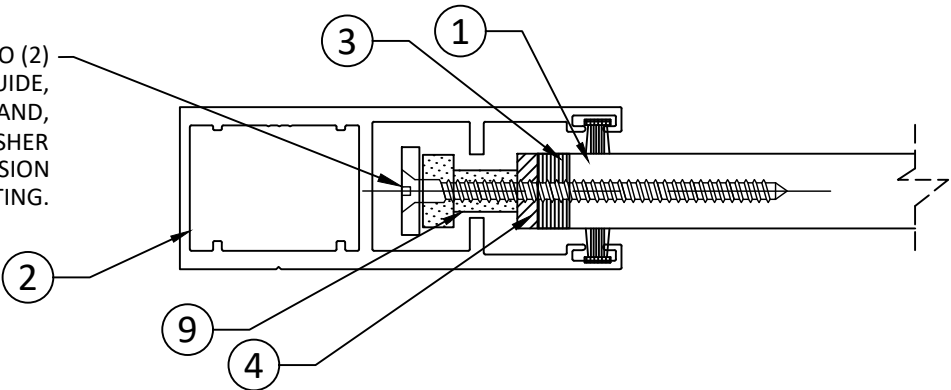
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SLAT END RETENTION LAY-OUT



- NOTES:
1. SLAT END RETENTION LOCK TO BE AT EVERY OTHER SLAT
 2. INSTALLATION SCREWS SHALL BE COATED WITH AN CORROSION RESISTANT COATING SYSTEM.
 3. THE ROLL-UP MECHANISM (GEARS, MOTOR, SUPPORTING END PLATES) ARE NOT A PART OF THIS APPROVAL AND SHALL BE SELECTED BASED ON MANUFACTURER'S SPECIFICATIONS.
 4. 44MM DIAMETER REEL TUBE PER MANUFACTURER SPECIFICATION
 5. TUBULAR MOTOR MAY BE REPLACED WITH GEAR FOR MANUAL OPERATION.

#10 X 3" HEX HEAD SCREW, TWO (2)
PER END RETENTION SLAT LOCK GUIDE,
ONE $\phi 3/16"$ I.D. BY $\phi 3/4"$ O.D. AND,
ONE $\phi 1/4"$ I.D. BY $\phi 5/8"$ O.D. WASHER
PER FASTENER WITH A CORROSION
RESISTANT COATING.



CONDADO WINDOW
903RH TODD AVENUE
SAN JUAN, PUERTO RICO, 00907
PH: (787) 723-5469 FAX: (787) 722-1395

TITLE:
44 MM ROLL DOWN SHUTTER
(HVHZ) (IMPACT)

SLAT END RETENTION

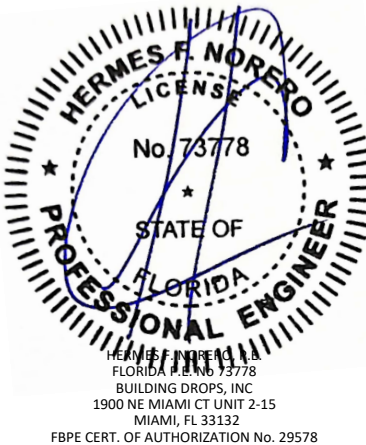
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



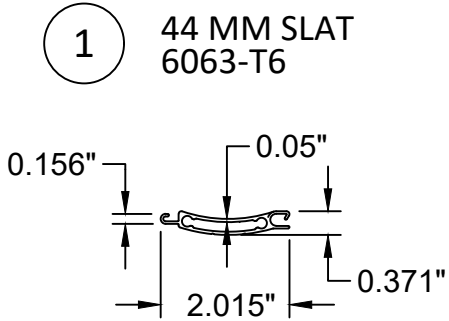
REMARKS	BY	DATE

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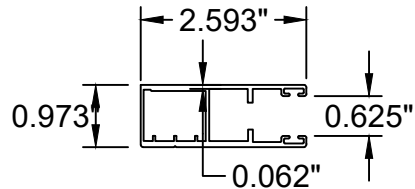


FL#:	FL46856
DATE:	06.07.24
DWG. BY:	FB
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	CDW017
SHEET:	8

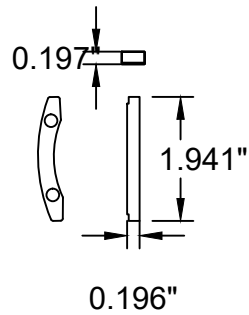
BILL OF MATERIALS				
ITEM NO.	PART NO.	QTY.	DESCRIPTION	MATERIAL
1	CDW-120	AS REQ.	44 MM SLAT	6063-T6
2	CDW-119	2	44 MM RETENTION TRACK	6063-T6
3	RS-SLB-44RB	AS REQ.	44 MM SLAT LOCK BASE	NYLON
4	RS-SLB-44 RT	AS REQ.	44 MM SLAT LOCK	NYLON
5	AXXX-221820	AS REQ.	3" X 3" X 1/4" INSET MOUNT ANGLE	6063-T6
6	TB-XX-2320	AS REQ.	3" X 2" X 1/8" RECT. TUBE	6063-T6
7	WX-Z232-70B	AS REQ.	GASKET	EPDM
8	-	AS REQ.	SLAT HANGERS	-
9	-	AS REQ.	BUSHINGS	-



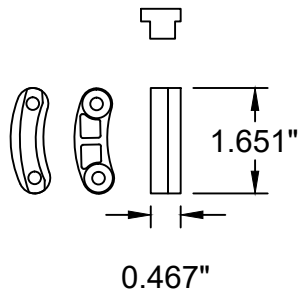
2 44 MM RETENTION TRACK
6063-T6



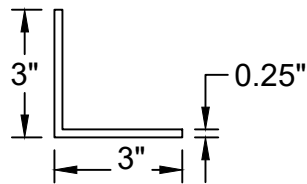
3 44 MM SLAT LOCK BASE
(NYLON)



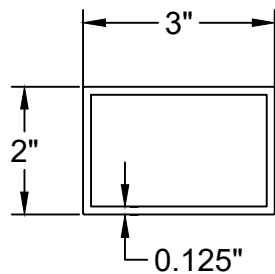
4 44 MM SLAT LOCK
(NYLON)



5 3" X 3" X 0.25" ANGLE INSET MOUNT
6063-T6



6 3" X 2" X 0.125" RECT. TUBE
6063-T6



CONDADO WINDOW
903RH TODD AVENUE
SAN JUAN, PUERTO RICO, 00907
PH: (787) 723-5469 FAX: (787)722-1395

TITLE:
44 MM ROLL DOWN SHUTTER
(HVHZ) (IMPACT)

COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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BUILDING DROPS

REMARKS	BY	DATE

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FLORIDA LICENSE NO. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL#: **FL46856**

DATE: **06.07.24**

DWG. BY:
FB

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **CDW017**

SHEET: