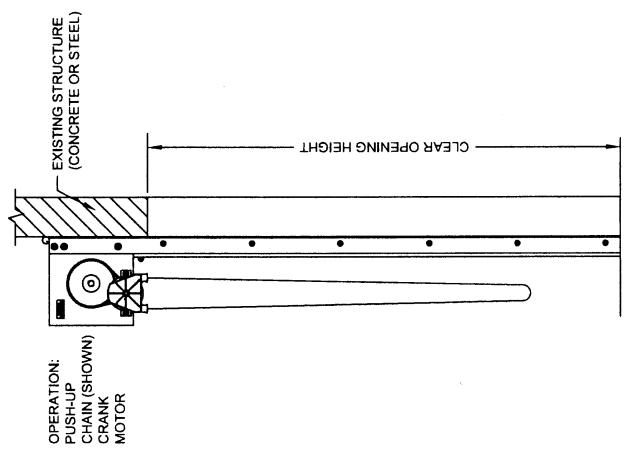
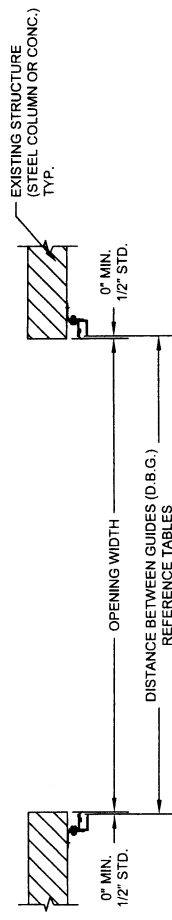
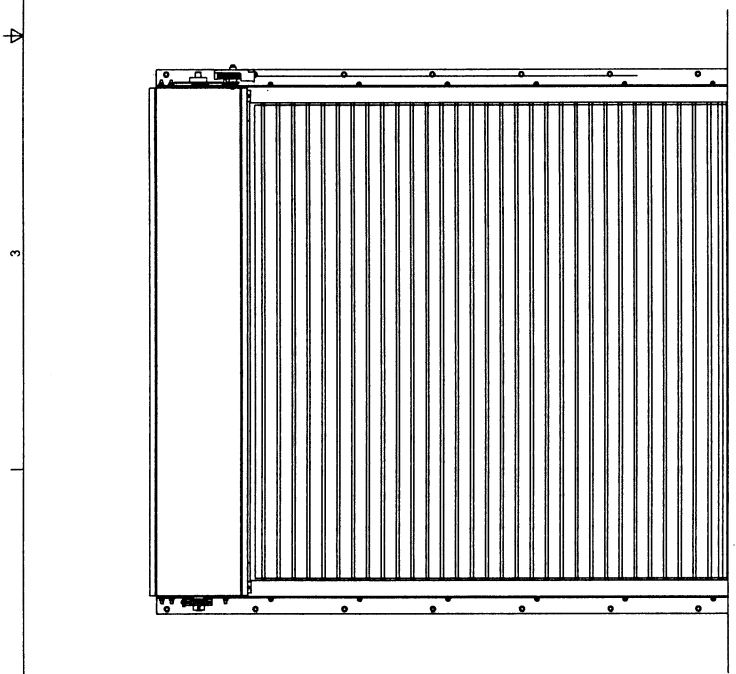


L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/22/04	R.M.	---
A	REV. LANSBURY FAST. FROM RWK BOLT #1 TO RWK BOLT 3	09/02/05	R.M.	1214
B	REVISE PER 2007 FLORIDA BUILDING CODE	11/25/08	R.M.	---



(C) ROLL-UP DOOR SIDE ELEVATION
N.T.S.



(B) ROLL-UP DOOR PLAN VIEW
N.T.S.

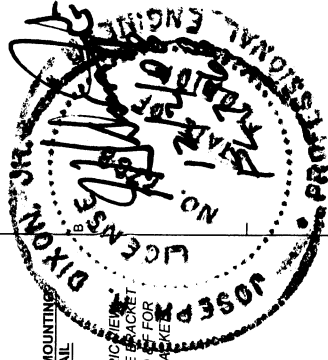
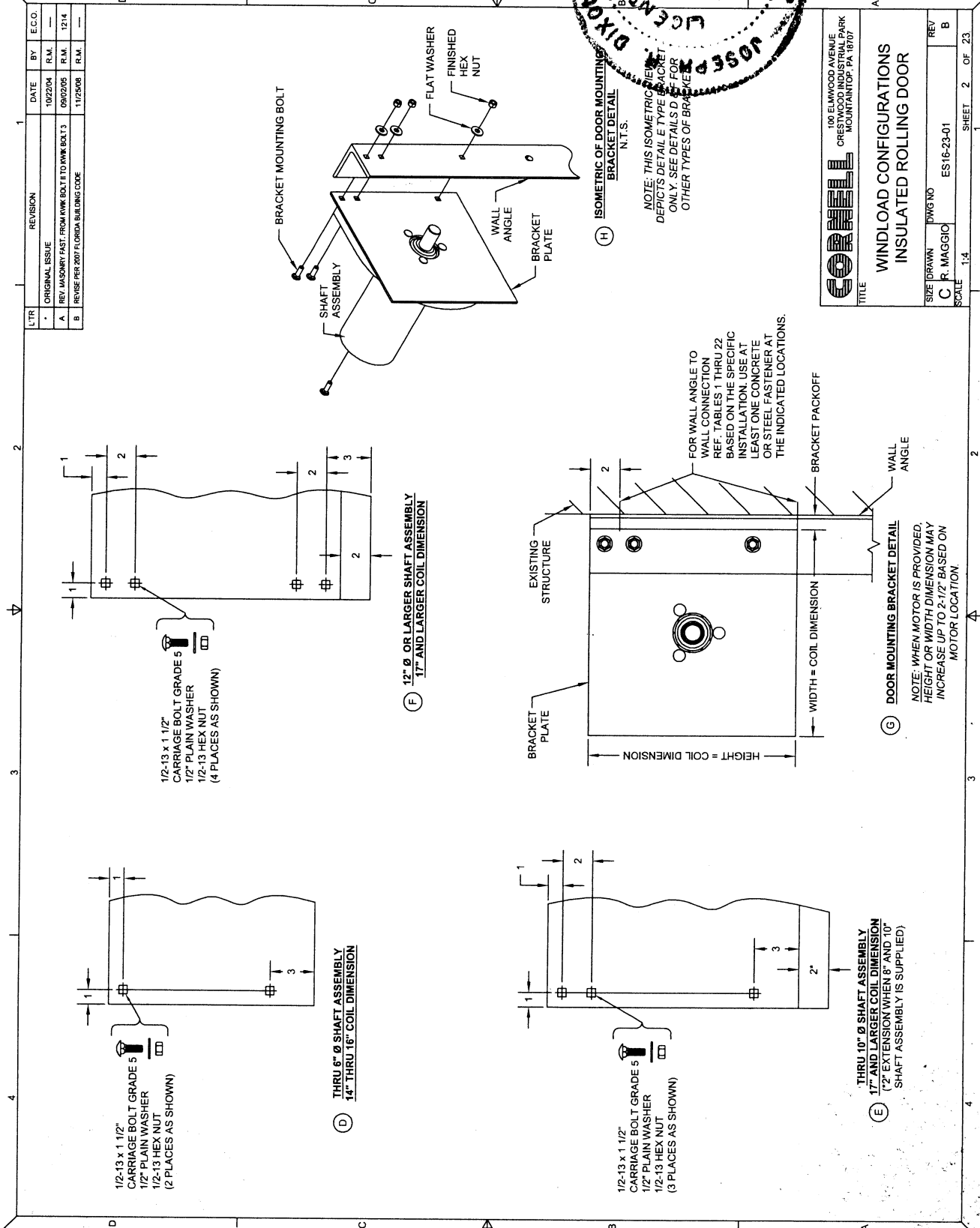


GORBELLE
100 ELWOOD AVENUE
CRENSHAW PARK
MOUNTAIN TOP, PA 18107

TITLE
**WINDLOAD CONFIGURATIONS
INSULATED ROLLING DOOR**

SIZE DRAWN	DWG NO	REV
C. R. MAGGIO	ES16-23-01	B
SCALE	1:16	SHEET 1 OF 23

LTR	REVISION	DATE	BY	E.C.O.
-	ORIGINAL ISSUE	10/22/04	R.M.	-
A	REV. MASONRY FAST FROM KWK BOLT II TO KWK BOLT I3	09/02/05	R.M.	1214
B	REVISE PER 2007 FLORIDA BUILDING CODE	11/29/08	R.M.	-



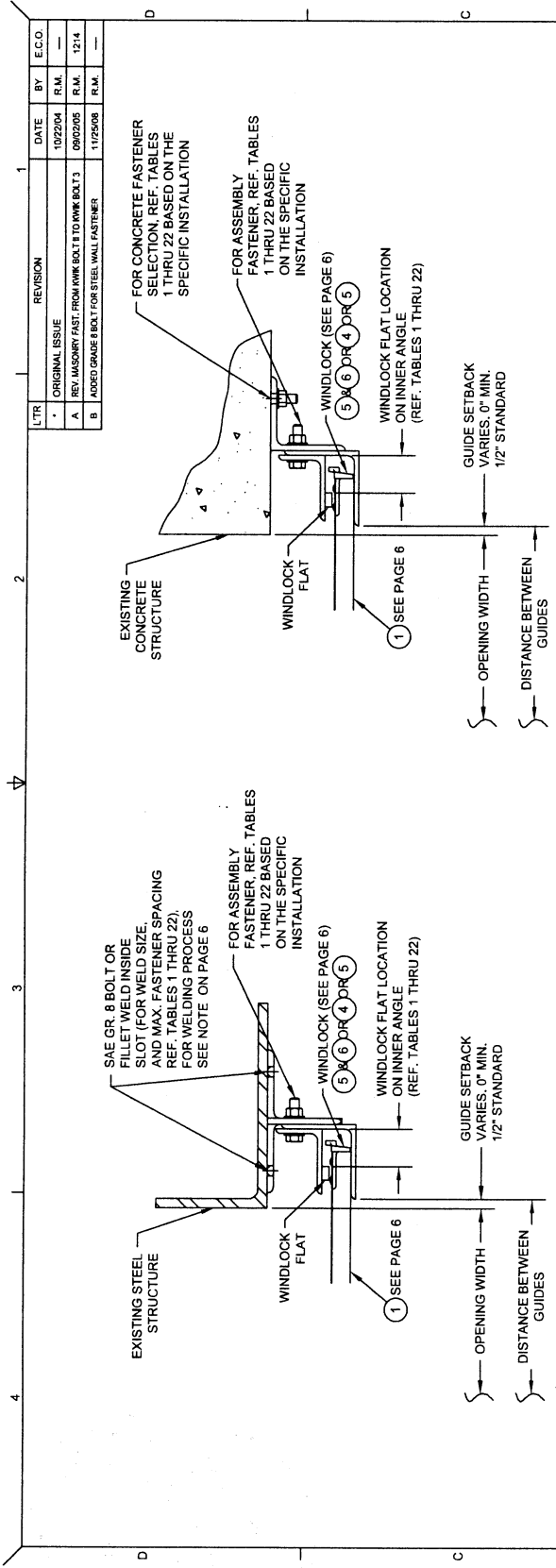
CORRELL
100 ELMWOOD AVENUE
CRESTWOOD INDUSTRIAL PARK
MOUNTAIN TOP, PA 18707

TITLE: **WINDLOAD CONFIGURATIONS INSULATED ROLLING DOOR**

SIZE DRAWN: DWG NO. ES16-23-01
SCALE: 1/4" = 1'-0"

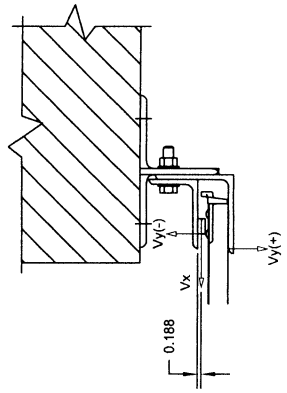
REV B
C. R. MAGGIO

SHEET 2 OF 23



(I) STEEL STRUCTURE ASSEMBLY
(BOX OR ZEE GUIDE)

(J) CONCRETE STRUCTURE ASSEMBLY
(ZEE GUIDE)



(K) SUPERIMPOSED LOAD DIAGRAM
L/8 OF HEIGHT

NOTES:
1. V_x AND V_y ARE HORIZONTAL AND VERTICAL COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE DOOR. THE EXISTING STRUCTURE MUST BE CAPABLE OF RESISTING THE RESULTING REACTIONS AT THE WALL DUE TO THE ECCENTRICITIES OF THE FORCES.

LTR	REVISION	DATE	BY	E.C.O.
1	ORIGINAL ISSUE	10/22/04	R.M.	—
A	REV. MASONRY FAST. FROM HWK BOLT TO HWK BOLT 3	09/02/05	R.M.	1214
B	ADDED GRADE 8 BOLT FOR STEEL WALL FASTENER	11/25/08	R.M.	—

CORABELL
100 ELMWOOD AVENUE
CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP, PA 18707

TITLE
**WINDLOAD CONFIGURATIONS
INSULATED ROLLING DOOR**

SIZE DRAWN DWG NO
C R. MAGGIO ES16-23-01

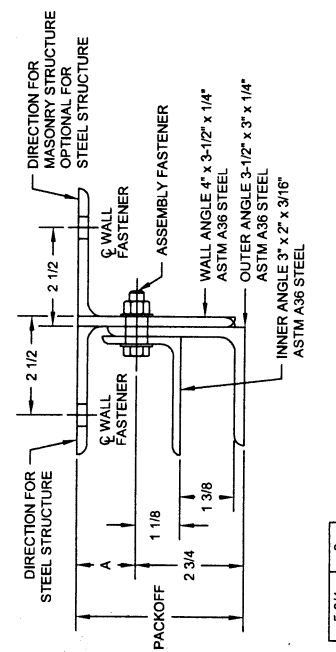
REV B

SCALE 1:4

SHEET 3 OF 23

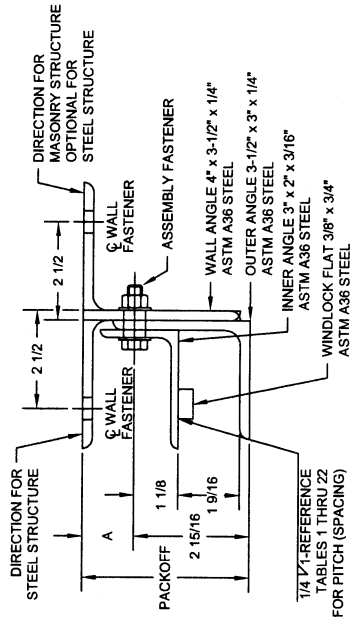


LTR	REVISION	DATE	BY	ECO.
	ORIGINAL ISSUE	10/24/04	R.M.	
A	REV. MASONRY FAST. FROM INWK 802.1 TO INWK 802.3	09/20/05	R.M.	1214
B	REMOVED ASSEMBLY NUMBERS	11/25/08	R.M.	



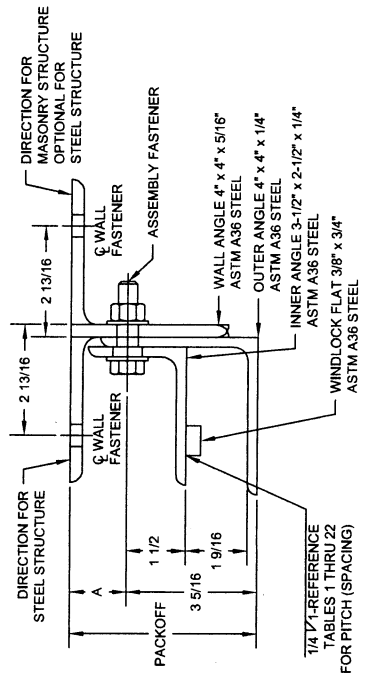
(L) **GUIDE ASSEMBLY TYPE 344***
(NON-WINDLOCK)

5-3/4	3
5-1/4	2-1/2
4-3/4	2
4-1/4	1-1/2
PACKOFF	A



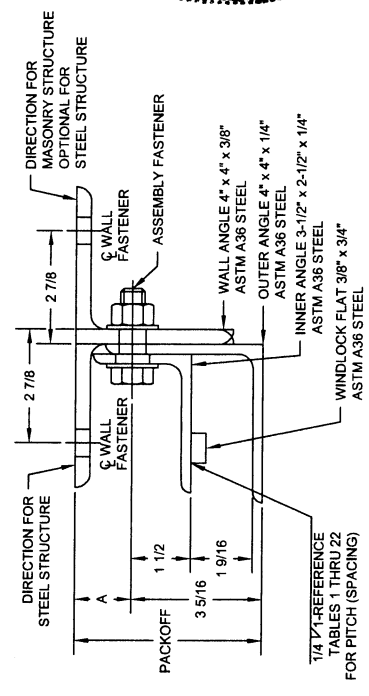
(M) **GUIDE ASSEMBLY TYPE 344**

5-3/4	2-13/16
5-1/4	2-5/16
4-3/4	1-13/16
4-1/4	1-5/16
PACKOFF	A



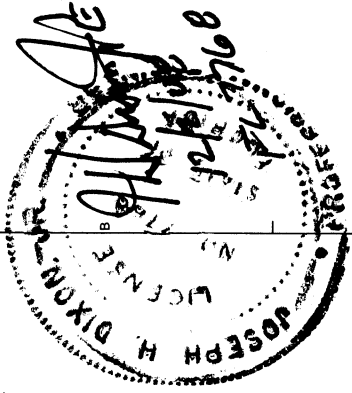
(N) **GUIDE ASSEMBLY TYPE 445**

5-3/4	2-7/16
5-1/4	1-15/16
4-3/4	1-7/16
PACKOFF	A



(O) **GUIDE ASSEMBLY TYPE 446**

5-3/4	2-7/16
5-1/4	1-15/16
4-3/4	1-7/16
PACKOFF	A



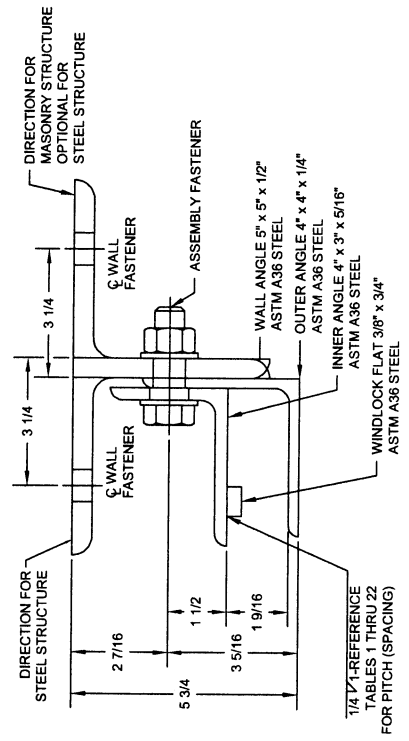
CORBEL
108 ELKWOOD AVENUE
CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP, PA 18707

**WINDLOAD CONFIGURATIONS
INSULATED ROLLING DOOR**

SIZE DRAWN: C R. MAGGIO
DWG NO: ES16-23-01
SCALE: 1/2

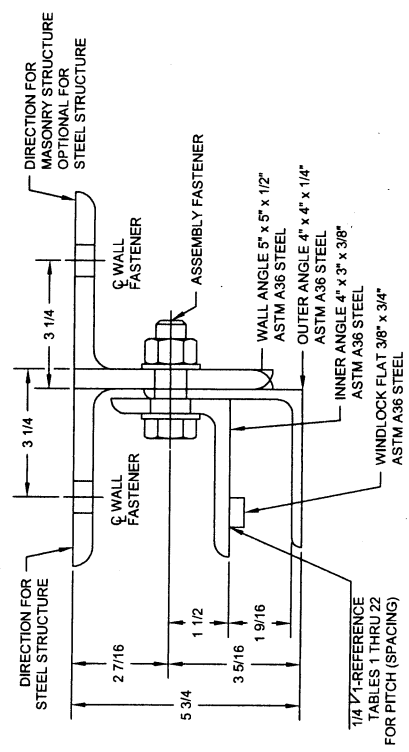
REV: B
SHEET 4 OF 23

CTR	REVISION	DATE	BY	E.C.O.
	ORIGINAL ISSUE	10/24/04	R.M.	
A	REV. MASONRY FAST. FROM IWK BOLT II TO IWK BOLT I	09/02/05	R.M.	1214
B	REVISED ASSEMBLY NUMBER	11/25/08	R.M.	

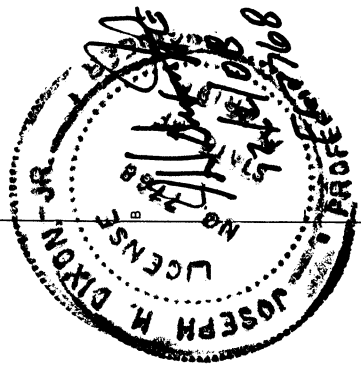


(P) GUIDE ASSEMBLY TYPE 546

5-3/4	2-7/16
5-1/4	1-15/16
4-3/4	1-7/16
PACKOFF	A



(R) GUIDE ASSEMBLY TYPE 648



CORBEL
100 ELAMWOOD AVENUE
CRESTWOOD INDUSTRIAL PARK
MOUNTAIN TOP, PA 18707

TITLE
**WINDLOAD CONFIGURATIONS
INSULATED ROLLING DOOR**

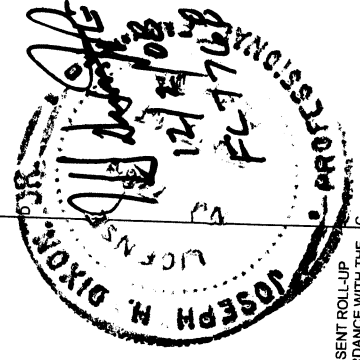
SIZE DRAWN DWG NO
C R. MAGGIO ES16-23-01

REV B

SCALE 1:2

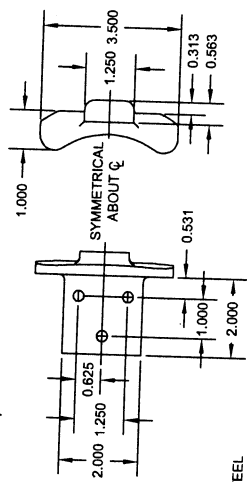
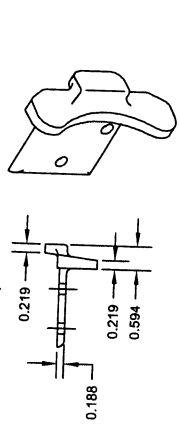
SHEET 5 OF 23

LTR	REVISION	DATE	BY	E.C.O.
-	ORIGINAL ISSUE	10/19/04	R.M.	-
A	REV. MASONRY FAST. FROM HWK 801 TO HWK 801.3	09/02/05	R.M.	1214
B	REVISED GENERAL NOTES	11/25/08	R.M.	-

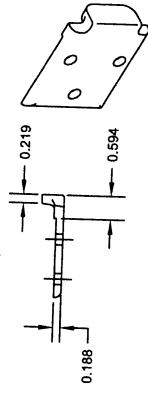


GENERAL NOTES:

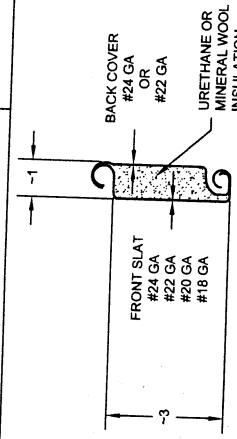
- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT ROLL-UP DOOR ASSEMBLES DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE STANDARD BUILDING CODE.
- DOORS MANUFACTURED WITH SLATS 2024 GA. OR THICKER WILL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AS TESTED PER TAS 201 AND TAS 203 FOR LARGE MISSILE IMPACT AGAINST BOTH SIDES OF THE SLAT.
- A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND WIND VELOCITY.
- THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS V_x & V_y ON THE JAMBS OF THE DOOR.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. MINIMUM WELDING PROCESSES SHALL BE ARC WELDING A.W.S. E7014 OR MIG WELDING A.W.S. ERT05-6.
- DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL.



⑤ CP0630 HEAVY ALT. CAST IRON ENDLOCK/WINDLOCK



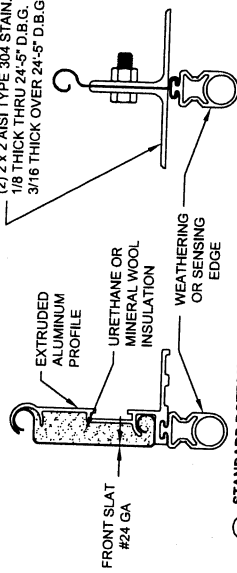
⑥ CP0647 CAST IRON WINDLOCK



① CP0001 / CP0651 SLAT TYPICAL SECTION

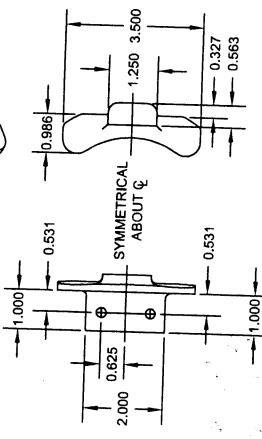
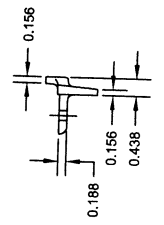
ASTM A653 HSLAS TYPE B GRADE 40 GALVANIZED
OR ASTM A653 HSLAS TYPE A GRADE 40 GALVANIZED
OR ASTM A653 STRUCTURAL STEEL GRADE 40 GALVANIZED
OR TYPE 304 STAINLESS STEEL (MIN. 40 KSI YIELD)
OR TYPE 430 STAINLESS STEEL (MIN. 40 KSI YIELD)
OR TYPE 201 STAINLESS STEEL (MIN. 40 KSI YIELD)

(2) 2 x 2 ASTM A36 STEEL OR
(2) 2 x 2 AISI TYPE 304 STAIN. STEEL
1/8" THICK THRU 24"-5" D.B.G.
3/16" THICK OVER 24"-5" D.B.G.



② STANDARD BOTTOM BAR TYPICAL SECTION

③ OPTIONAL BOTTOM BAR TYPICAL SECTION



④ CP0629 LIGHT ALT. CAST IRON ENDLOCK/WINDLOCK

CORBEL
100 ELMWOOD AVENUE
CRENSHAW INDUSTRIAL PARK
MCINTOSH, PA 15107

WINDLOAD CONFIGURATIONS INSULATED ROLLING DOOR

SIZE DRAWN	DWG NO	REV
C	R. MAGGIO	ES16-23-01
SCALE	1:2	B

DATE	BY	E.C.O.
10/10/08	R.M.K.	1314
REVISION	DESCRIPTION	
A	REVISED PER: TYPING AND LINE WEIGHT DIMENSIONS	
B	LOADS IMPROVED WITH THE RELEASE OF JOINTS FOR JOINTS	
C	LOADS IMPROVED WITH THE RELEASE OF JOINTS FOR JOINTS	
D	LOADS IMPROVED WITH THE RELEASE OF JOINTS FOR JOINTS	

Distance Between Guides (O.B.G.) thru on inner (FT. - IN.)	Windlock Flat Location Angle (IN.)	Windlock	Guide Assembly Type	Windlock Flat Weld Pitch Spacing (IN.)	Fastener Diameter (IN.)	Assembly Fastener S/AE Gr. 8 Maximum O.C. Spacing (IN.)	Wall Fasteners - Concrete Structure Min 3,000 PSI						Wall Fasteners - Steel Structure Min 1/4" fillet weld entire slot perimeter or Gr. 8 bolt		Superimposed Loads POSITIVE (+)		Superimposed Loads NEGATIVE (-)	
							Hilti Kwik Bolt 3		Simpson Wedge-All		Powers Wedge-Bolt		Slot	O.C. Spacing (IN.)	Vx (LBS.)	Vy (LBS.)	Vx (LBS.)	Vy (LBS.)
							Minimum Embedment (IN.)	Maximum O.C. Spacing (IN.)	Minimum Edge Distance (IN.)	Maximum O.C. Spacing (IN.)	Minimum Embedment (IN.)	Maximum O.C. Spacing (IN.)	Minimum Edge Distance (IN.)	Maximum O.C. Spacing (IN.)				
2'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	37	0	35
3'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	52	0	50
4'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	67	0	65
5'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	82	0	80
6'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	97	0	95
7'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	112	0	110
8'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	127	0	125
9'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	142	0	140
10'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	157	0	155
11'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	0	172	0	170
12'-5"	1.5	CP0629	344	12	3/8	18	2 1/2	5 3/4	14	2 1/2	5 3/4	14	2 1/2	5 3/4	74	187	120	189
13'-5"	1.5	CP0629	344	12	3/8	18	2 1/2	5 3/4	14	2 1/2	5 3/4	14	2 1/2	5 3/4	269	202	335	205
14'-5"	1.5	CP0629	344	12	3/8	18	2 1/2	5 3/4	14	2 1/2	5 3/4	14	2 1/2	5 3/4	480	217	507	220
15'-5"	1.5	CP0629	344	12	3/8	18	2 1/2	5 3/4	14	2 1/2	5 3/4	14	2 1/2	5 3/4	691	232	652	235
16'-5"	1.5	CP0629	445	12	1/2	18	3 1/2	6 13/16	14	4 1/2	6 13/16	11	3 1/2	6 13/16	745	247	786	252
17'-5"	1.5	CP0629	445	12	1/2	18	3 1/2	6 13/16	14	4 1/2	6 13/16	14	4 1/2	6 13/16	852	262	886	266
18'-5"	1.5	CP0629	445	12	1/2	18	3 1/2	6 13/16	14	4 1/2	6 13/16	14	4 1/2	6 13/16	944	277	972	281
19'-5"	1.5	CP0629	445	11	1/2	17	3 1/2	6 13/16	10	4 1/2	6 13/16	8	3 1/2	6 13/16	1116	292	1140	296
20'-5"	1.625	CP0630	445	11	1/2	17	3 1/2	6 13/16	10	4 1/2	6 13/16	7	3 1/2	6 13/16	1141	307	1160	311
21'-5"	1.75	CP0630	445	11	1/2	16	3 1/2	6 13/16	10	4 1/2	6 13/16	7	3 1/2	6 13/16	1175	322	1190	325
22'-5"	1.875	CP0630	446	11	5/8	18	4	6 7/8	10	4 1/2	6 7/8	10	4	6 7/8	1213	336	1225	340
23'-5"	2	CP0630	446	10	5/8	18	4	6 7/8	13	4 1/2	6 7/8	10	4	6 7/8	1254	351	1264	354
24'-5"	2	CP0630 & CP0647	446	10	5/8	18	4	6 7/8	11	4 1/2	6 7/8	9	4	6 7/8	1384	366	1393	370
25'-5"	2	CP0630 & CP0647	548	8	5/8	18	4	6 7/8	10	4 1/2	6 7/8	8	4	6 7/8	1513	381	1521	385
26'-5"	2	CP0630 & CP0647	548	8	5/8	18	4	6 7/8	10	4 1/2	6 7/8	8	4	6 7/8	1641	397	1649	400
27'-5"	2.3	CP0630 & CP0647	548	9	5/8	17	4	6 7/8	9	4 1/2	6 7/8	7	4	6 7/8	1769	412	1776	415
28'-5"	2.5	CP0630 & CP0647	548	9	3/4	18	4 3/4	7 1/2	13	5	7 1/2	12	5	7 1/2	1851	425	1844	428
29'-5"	2.5	CP0630 & CP0647	548	9	3/4	18	4 3/4	7 1/2	13	5	7 1/2	11	5	7 1/2	1851	441	1854	443
30'-5"	2.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	12	5	7 1/2	10	5	7 1/2	1760	456	1763	458
31'-5"	2.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	11	5	7 1/2	10	5	7 1/2	1870	471	1873	473
32'-5"	2.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	11	5	7 1/2	9	5	7 1/2	1980	486	1983	489
33'-5"	2.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	10	5	7 1/2	9	5	7 1/2	2091	501	2093	504
34'-5"	2.5	CP0630 & CP0647	648	8	3/4	18	4 3/4	7 1/2	9	5	7 1/2	8	5	7 1/2	2202	516	2204	519
35'-5"	2.5	CP0630 & CP0647	648	8	3/4	18	4 3/4	7 1/2	9	5	7 1/2	8	5	7 1/2	2314	531	2316	534
36'-5"	2.5	CP0630 & CP0647	648	8	3/4	18	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	2427	547	2429	550
37'-5"	2.5	CP0630 & CP0647	648	7	3/4	17	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	2540	562	2543	565
38'-5"	2.5	CP0630 & CP0647	648	7	3/4	17	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	2655	578	2657	580

NOTES:
1. N/R - not required
2. * - non - windlock guide assembly
3. N/A - not available



CORNELL
100 ELWOOD AVENUE
LEWISTON, ME 04240-1000
TEL: 207-533-1111

WINDLOAD CONFIGURATIONS,
INSULATED ROLLING DOOR

SIZE: 10' x 10'
D. F. MacGee
ES16-23-01
DATE: 1/11
SHEET: 7 OF 23

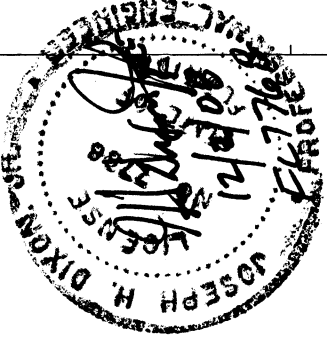
DATE	BY	E.C.C.
10/10/08	R.L.K.	314
01/03/09	R.L.K.	314
11/09/09	R.L.K.	314

REVISION	DATE	BY	E.C.C.
ORIGINAL ISSUE			
NOTE: REVISION NO. 1 TO BE USED FOR ALL REVISIONS			
NOTE: REVISION NO. 2 TO BE USED FOR ALL REVISIONS			
NOTE: REVISION NO. 3 TO BE USED FOR ALL REVISIONS			

DATE	BY	E.C.C.
10/10/08	R.L.K.	314
01/03/09	R.L.K.	314
11/09/09	R.L.K.	314

Distance Between Guides (D.B.G.) thru: (FT. - IN.)	Windlock Flat Location on Inner Angle (IN.)	Windlock	Guide Assembly Type	Windlock Flat Weld Pitch Spacing (IN.)	Fastener Diameter (IN.)	Assembly Fastener SAE Gr. 8 Maximum Spacing (IN.)	Wall Fasteners - Concrete Structure Min. 3,000 PSI						Wall Fasteners - Steel Structure Min 1/4" fillet weld entire slot perimeter or Gr. 8 bolt		Superimposed Loads POSITIVE (+)		Superimposed Loads NEGATIVE (-)			
							HiTi Kwik Bolt 3		Simpson Wedge-All		Powers Wedge-Bolt		Slot	O.C. Spacing (IN.)	Vx (LBS.)	Vy (LBS.)	Vx (LBS.)	Vy (LBS.)	Vx (LBS.)	Vy (LBS.)
2'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	50	0	47
3'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	70	0	67
4'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	23	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	90	0	87
5'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	19	2 1/2	5 3/4	22	2 1/2	5 3/4	9/16" x 3/4"	24	0	130	0	107
6'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	16	2 1/2	5 3/4	19	2 1/2	5 3/4	9/16" x 3/4"	24	0	130	0	127
7'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	14	2 1/2	5 3/4	16	2 1/2	5 3/4	9/16" x 3/4"	24	0	150	0	147
8'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	12	2 1/2	5 3/4	14	2 1/2	5 3/4	9/16" x 3/4"	24	0	170	0	167
9'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	11	2 1/2	5 3/4	13	2 1/2	5 3/4	9/16" x 3/4"	24	0	190	0	187
10'-5"	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	10	2 1/2	5 3/4	11	2 1/2	5 3/4	9/16" x 3/4"	24	0	210	0	207
11'-5"	1.5	CP0629	344	12	3/8	18	2 1/2	5 3/4	12	2 1/2	5 3/4	11	2 1/2	5 3/4	9/16" x 3/4"	18	377	230	444	233
12'-5"	1.5	CP0630	344	12	3/8	14	2 1/2	5 3/4	7	2 1/2	5 3/4	6	2 1/2	5 3/4	9/16" x 3/4"	18	713	250	766	254
13'-5"	1.5	CP0630	445	11	1/2	18	3 1/2	6 13/16	12	4 1/2	6 13/16	8	3 1/2	6 13/16	9/16" x 3/4"	18	977	270	1060	277
14'-5"	1.5	CP0630	445	10	1/2	16	3 1/2	6 13/16	10	4 1/2	6 13/16	7	3 1/2	6 13/16	9/16" x 3/4"	16	1217	280	1286	297
15'-5"	1.5	CP0630	446	10	5/8	18	4	6 7/8	11	4 1/2	6 7/8	9	4	6 7/8	11/16" x 7/8"	16	1426	311	1484	318
16'-5"	1.5	CP0630 & CP0647	546	9	5/8	18	4	6 7/8	10	4 1/2	6 7/8	8	4	6 7/8	11/16" x 7/8"	14	1606	331	1656	338
17'-5"	1.5	CP0630 & CP0647	546	9	5/8	18	4	6 7/8	9	4 1/2	6 7/8	7	4	6 7/8	11/16" x 7/8"	13	1771	351	1814	358
18'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	9	5	7 1/2	10	5	7 1/2	13/16" x 1"	18	1927	372	1968	379
19'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	11	5	7 1/2	9	5	7 1/2	13/16" x 1"	18	2068	382	2105	389
20'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	10	5	7 1/2	9	5	7 1/2	13/16" x 1"	17	2208	412	2241	420
21'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	10	5	7 1/2	N/A	N/A	N/A	N/A	N/A	2349	433	2379	440
22'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	9	5	7 1/2	N/A	N/A	N/A	N/A	N/A	2505	453	2532	460
23'-5"	1.5	CP0630 & CP0647	648	7	3/4	18	7	4 3/4	7 1/2	8	7 1/2	N/A	N/A	N/A	N/A	N/A	2734	474	2760	481
24'-5"	1.5	CP0630 & CP0647	648	7	3/4	18	7	4 3/4	7 1/2	8	7 1/2	N/A	N/A	N/A	N/A	N/A	2714	458	2737	500
25'-5"	1.5	CP0630 & CP0647	648	7	3/4	17	6	4 3/4	7 1/2	8	7 1/2	N/A	N/A	N/A	N/A	N/A	2824	514	2846	521

NOTES:
1. N/R - not required
2. * - non-windlock guide assembly
3. N/A - not available



CORNELL
100 ELMWOOD AVENUE
ORESTOW INDUSTRIAL PARK
REHOBOTH BEACH, NY 11951

TITLE: WINDLOAD CONFIGURATIONS, INSULATED ROLLING DOOR

DATE ISSUED: 12/17/08
DESIGNER: D. P. MAGDO
CHECKER: ES16-23-01
SCALE: 1/1

SHEET 8 OF 23

LTR	REVISION	DATE	BY	E.C.O.
1	ORIGINAL ISSUE	10/10/06	R.M.	1214
2	REVISION (SEE DRAWING FOR DETAILS)	09/20/06	R.M.	1214
3	REVISION (SEE DRAWING FOR DETAILS)	11/20/06	R.M.	1214

Distance Between Guides (D.B.G.) thru: (FT.-IN.)	Windlock Flat Location on Inner Angle (IN.)	Windlock	Guide Assembly Type	Windlock Flat Weld Pitch Spacing (IN.)	Fastener Diameter (IN.)	Assembly Fastener SAE Gr. 8 Maximum O.C. Spacing (IN.)	24124 GA. GALVANIZED OR STAINLESS STEEL - 60 P.S.F.															
							Wall Fasteners - Concrete Structure Min 3,000 PSI						Wall Fasteners - Steel Structure Min 1/4" fillet weld on the slot perimeter or Gr. 8 bolt						Superimposed Loads POSITIVE (+)		Superimposed Loads NEGATIVE (-)	
							Hilti Kwik Bolt 3		Simpson Wedge-All		Powers Wedge-Bolt		Slot		O.C.		Vx (LBS.)		Vy (LBS.)			
2'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	0	62	0	58						
3'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	0	87	0	83						
4'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	18	2 1/2	5 3/4	24	0	112	0	108						
5'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	15	2 1/2	5 3/4	24	0	137	0	133						
6'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	13	2 1/2	5 3/4	24	0	162	0	158						
7'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	11	2 1/2	5 3/4	24	0	187	0	183						
8'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	9	2 1/2	5 3/4	24	0	212	0	208						
9'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	8	2 1/2	5 3/4	24	0	237	0	233						
10'-5"	1.5	CP0629	445	12	1/2	18	4 1/2	6 13/16	7	3 1/2	6 13/16	10	689	282	851	271						
11'-5"	1.5	CP0630	446	10	3/8	18	4	6 7/8	12	4 1/2	6 7/8	9	1256	288	1398	298						
12'-5"	1.5	CP0630 & CP0647	548	8	3/4	18	4 3/4	7 1/2	12	5	7 1/2	10	1825	316	2055	327						

Distance Between Guides (D.B.G.) thru: (FT.-IN.)	Windlock Flat Location on Inner Angle (IN.)	Windlock	Guide Assembly Type	Windlock Flat Weld Pitch Spacing (IN.)	Fastener Diameter (IN.)	Assembly Fastener SAE Gr. 8 Maximum O.C. Spacing (IN.)	24124 GA. GALVANIZED OR STAINLESS STEEL - 60 P.S.F.															
							Wall Fasteners - Concrete Structure Min 3,000 PSI						Wall Fasteners - Steel Structure Min 1/4" fillet weld on the slot perimeter or Gr. 8 bolt						Superimposed Loads POSITIVE (+)		Superimposed Loads NEGATIVE (-)	
							Hilti Kwik Bolt 3		Simpson Wedge-All		Powers Wedge-Bolt		Slot		O.C.		Vx (LBS.)		Vy (LBS.)			
2'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	0	74	0	70						
3'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	23	2 1/2	5 3/4	24	0	104	0	100						
4'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	18	2 1/2	5 3/4	24	0	134	0	130						
5'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	15	2 1/2	5 3/4	24	0	164	0	160						
6'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	12	2 1/2	5 3/4	24	0	194	0	190						
7'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	10	2 1/2	5 3/4	24	0	224	0	220						
8'-5"	NR	NR	344*	NR	3/8	24	2 1/2	5 3/4	9	2 1/2	5 3/4	24	0	254	0	250						
9'-5"	1.5	CP0630	445	11	1/2	17	3 1/2	6 13/16	10	3 1/2	6 13/16	7	985	285	1232	297						

NOTES:
1. N/R - not required
2. * - non-windlock guide assembly
3. N/A - not available



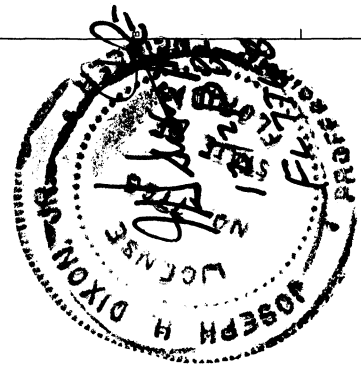
CORNELL
100 ELWOOD AVENUE
CORWATON, OHIO 43007
TEL: 614-881-2200
FAX: 614-881-2201
WWW.CORNELL.COM

TITLE: WINDLOAD CONFIGURATIONS, INSULATED ROLLING DOOR

DESIGNED BY: D. R. MAGGIO
DATE: 11/11/06
SCALE: 1/1

REVISED BY: B
DATE: 9/06/23

LTR	REVISION	DATE	BY	ECO
1	ORIGINAL ISSUE			
2	REVISED DRAWING TO REFLECT ALL TRADE WORKS CHANGES	10/14/24	R.A.L.	
3	ADDED DIMENSIONS TO CLARIFY AND CONFIRM DISTANCE FOR MANUFACTURE	11/09/2023	R.A.L.	



CORWELL 100 ELKWOOD AVENUE CRESTWOOD INDUSTRIAL PARK ADAPTIONWOOD PA 17017 TITLE:	WINDLOAD CONFIGURATIONS, INSULATED ROLLING DOOR CP0001 SLAT
SIZE DRAWN: RING NO. D. P. MARGO DATE: 10/24/24	REV: B SHEET: 10 OF 23

TABLE NO	Distance Between Guides (D.B.G.) (ft. - in.)	Windlock Flat Location on member Angle (in.)	Windlock	Guide Assembly Type	Windlock Flat Width Spacing (in.)	Fastener Diameter (in.)	Assembly Fastener SAE Gr. & Maximum O.C. Spacing (in.)	Wall Fasteners - Concrete Structure Min 3,000 PSI												Superimposed Loads POSITIVE (+)		Superimposed Loads NEGATIVE (-)	
								Simpson Wedge-All				Powers Wedge-Bolt				Wall fasteners - Steel Structure Min 1/4" fillet weld entire slot perimeter or Gr. 8 bolt				Vx (LBS.)	Vy (LBS.)	Vx (LBS.)	Vy (LBS.)
								Minimum O.C. Spacing (in.)	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Minimum O.C. Spacing (in.)	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Minimum O.C. Spacing (in.)	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Minimum O.C. Spacing (in.)	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Slot	Maximum O.C. Spacing		
2'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	37	0	35		
3'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	52	0	50		
4'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	67	0	65		
5'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	82	0	80		
6'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	97	0	95		
7'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	112	0	110		
8'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	127	0	125		
9'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	142	0	140		
10'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	157	0	155		
11'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	172	0	170		
12'-5"	N/R	N/R	N/R	344*	N/R	3/8	24	2 1/2	5 3/4	24	2 1/2	5 3/4	24	2 1/2	5 3/4	9/16" x 3/4"	24	0	187	0	185		
13'-5"	1.5	CP0629	344	344	12	3/8	18	2 1/2	5 3/4	11	2 1/2	5 3/4	11	2 1/2	5 3/4	9/16" x 3/4"	18	117	202	155	204		
14'-5"	1.5	CP0629	344	344	12	3/8	18	2 1/2	5 3/4	15	2 1/2	5 3/4	15	2 1/2	5 3/4	9/16" x 3/4"	18	268	217	296	219		
15'-5"	1.5	CP0629	344	344	12	3/8	16	2 1/2	5 3/4	17	2 1/2	5 3/4	17	2 1/2	5 3/4	9/16" x 3/4"	18	428	366	448	234		
16'-5"	1.5	CP0629	344	344	12	3/8	16	2 1/2	5 3/4	12	2 1/2	5 3/4	12	2 1/2	5 3/4	9/16" x 3/4"	18	555	247	571	249		
17'-5"	1.5	CP0629	344	344	12	3/8	14	2 1/2	5 3/4	8	2 1/2	5 3/4	8	2 1/2	5 3/4	9/16" x 3/4"	18	685	262	676	264		
18'-5"	1.5	CP0629	445	445	12	1/2	18	3 1/2	6 13/16	14	4 1/2	6 13/16	10	3 1/2	6 13/16	10	800	277	829	281			
19'-5"	1.625	CP0629	445	445	12	1/2	18	3 1/2	6 13/16	13	4 1/2	6 13/16	10	3 1/2	6 13/16	10	859	291	861	285			
20'-5"	1.75	CP0629	445	445	12	1/2	18	3 1/2	6 13/16	12	4 1/2	6 13/16	9	3 1/2	6 13/16	9	918	306	938	310			
21'-5"	1.875	CP0629	445	445	11	1/2	17	3 1/2	6 13/16	12	4 1/2	6 13/16	8	3 1/2	6 13/16	8	977	321	991	324			
22'-5"	2	CP0630	446	446	11	1/2	17	3 1/2	6 13/16	11	4 1/2	6 13/16	8	3 1/2	6 13/16	8	1036	336	1046	339			
23'-5"	2	CP0630	446	446	10	5/8	18	4	6 7/8	13	4 1/2	6 7/8	10	4	6 7/8	11/16" x 7/8"	18	1211	351	1221	354		
24'-5"	2	CP0630	446	446	10	5/8	18	4	6 7/8	12	4 1/2	6 7/8	9	4	6 7/8	11/16" x 7/8"	17	1344	366	1354	369		
25'-5"	2	CP0630	446	446	10	5/8	18	4	6 7/8	11	4 1/2	6 7/8	8	4	6 7/8	11/16" x 7/8"	15	1476	381	1485	385		
26'-5"	2	CP0630	446	446	10	5/8	18	4	6 7/8	10	4 1/2	6 7/8	8	4	6 7/8	11/16" x 7/8"	14	1607	396	1615	400		
27'-5"	2	CP0630	446	446	9	5/8	17	4	6 7/8	9	4 1/2	6 7/8	7	4	6 7/8	11/16" x 7/8"	13	1737	412	1745	415		
28'-5"	2.5	CP0630	548	548	10	3/4	18	4 3/4	7 1/2	14	5	7 1/2	12	5	7 1/2	13/16" x 1"	18	1868	428	1876	431		
29'-5"	2.5	CP0630	548	548	9	3/4	18	4 3/4	7 1/2	13	5	7 1/2	11	5	7 1/2	13/16" x 1"	18	1998	444	2006	447		
30'-5"	2.5	CP0630	548	548	9	3/4	18	4 3/4	7 1/2	12	5	7 1/2	11	5	7 1/2	13/16" x 1"	18	2128	460	2136	463		
31'-5"	2.5	CP0630 & CP0647	648	648	9	3/4	18	4 3/4	7 1/2	12	5	7 1/2	11	5	7 1/2	13/16" x 1"	18	2258	476	2266	479		
32'-5"	2.5	CP0630 & CP0647	648	648	8	3/4	18	4 3/4	7 1/2	11	5	7 1/2	10	5	7 1/2	13/16" x 1"	18	2388	492	2396	495		
33'-5"	2.5	CP0630 & CP0647	648	648	8	3/4	18	4 3/4	7 1/2	10	5	7 1/2	9	5	7 1/2	13/16" x 1"	18	2518	508	2526	511		
34'-5"	2.5	CP0630 & CP0647	648	648	8	3/4	18	4 3/4	7 1/2	10	5	7 1/2	9	5	7 1/2	13/16" x 1"	18	2648	524	2656	527		
35'-5"	2.5	CP0630 & CP0647	648	648	8	3/4	18	4 3/4	7 1/2	9	5	7 1/2	8	5	7 1/2	13/16" x 1"	18	2778	540	2786	543		
36'-5"	2.5	CP0630 & CP0647	648	648	8	3/4	18	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	13/16" x 1"	18	2908	556	2916	559		
37'-5"	2.5	CP0630 & CP0647	648	648	7	3/4	17	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	13/16" x 1"	18	3038	572	3046	575		
38'-5"	2.5	CP0630 & CP0647	648	648	7	3/4	17	4 3/4	7 1/2	8	5	7 1/2	8	5	7 1/2	13/16" x 1"	18	3168	588	3176	591		

NOTES:
 1 N/R - not required
 2 * - non-windlock guide assembly
 3 N/A - not available