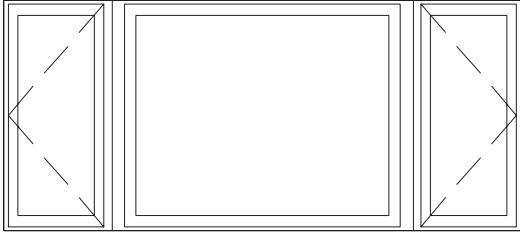
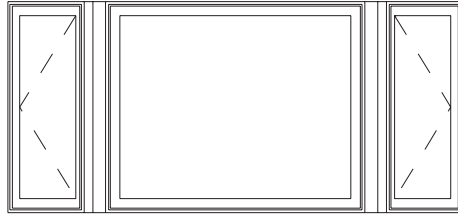


CASEMENT BAYS

30° Bays



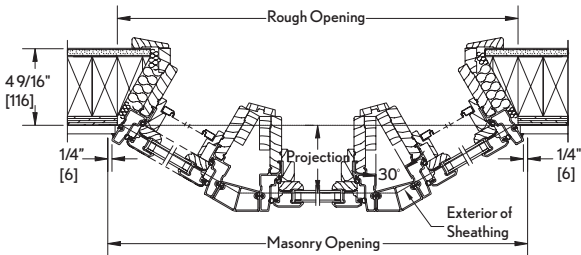
45° Bays



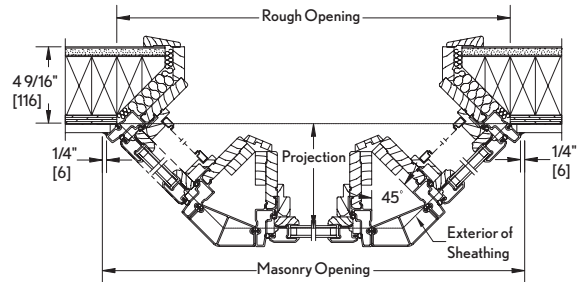
ROUGH OPENING		
CN Width	Width	Projection
17-17-17	4-0 21/32" (1236 mm)	8 5/8" (219 mm)
17-21-17	4-4 21/32 (1337)	8 5/8" (219)
17-25-17	4-8 21/32 (1439)	8 5/8" (219)
17-29-17	5-0 21/32 (1541)	8 5/8" (219)
17-33-17	5-4 21/32 (1642)	8 5/8" (219)
17-37-17	5-8 21/32 (1744)	8 5/8" (219)
17-49-17	6-8 21/32 (2049)	8 5/8" (219)
21-21-21	4-11 19/32 (1514)	10 5/8 (270)
21-25-21	5-3 19/32 (1615)	10 5/8 (270)
21-29-21	5-7 19/32 (1717)	10 5/8 (270)
21-33-21	5-11 19/32 (1818)	10 5/8 (270)
21-37-21	6-3 19/32 (1920)	10 5/8 (270)
21-49-21	7-3 19/32 (2225)	10 5/8 (270)
21-57-21	7-11 19/32 (2428)	10 5/8 (270)
21-73-21	9-3 19/32 (2834)	10 5/8 (270)
25-25-25	5-10 1/2 (1791)	12 5/8 (321)
25-29-25	6-2 1/2 (1892)	12 5/8 (321)
25-33-25	6-6 1/2 (1994)	12 5/8 (321)
25-37-25	6-10 1/2 (2096)	12 5/8 (321)
25-49-25	7-10 1/2 (2400)	12 5/8 (321)
25-57-25	8-6 1/2 (2604)	12 5/8 (321)
29-29-29	6-9 7/16 (2069)	14 5/8 (371)
29-33-29	7-1 7/16 (2170)	14 5/8 (371)
29-37-29	7-5 7/16 (2272)	14 5/8 (371)
29-49-29	8-5 7/16 (2577)	14 5/8 (371)
29-57-29	9-1 7/16 (2780)	14 5/8 (371)
33-33-33	7-8 3/8 (2346)	16 5/8 (422)
33-37-33	8-0 3/8 (2448)	16 5/8 (422)
33-49-33	9-0 3/8 (2753)	16 5/8 (422)

ROUGH OPENING		
CN Width	Width	Projection
17-17-17	3-9 11/32 (1152)	12 5/8 (321)
17-21-17	4-1 11/32 (1253)	12 5/8 (321)
17-25-17	4-5 11/32 (1355)	12 5/8 (321)
17-29-17	4-9 11/32 (1457)	12 5/8 (321)
17-33-17	5-1 11/32 (1558)	12 5/8 (321)
17-37-17	5-5 11/32 (1660)	12 5/8 (321)
17-49-17	6-5 11/32 (1965)	12 5/8 (321)
21-21-21	4-7 (1397)	15 1/2 (394)
21-25-21	4-11 (1499)	15 1/2 (394)
21-29-21	5-3 (1600)	15 1/2 (394)
21-33-21	5-7 (1702)	15 1/2 (394)
21-37-21	5-11 (1803)	15 1/2 (394)
21-49-21	6-11 (2108)	15 1/2 (394)
21-57-21	7-7 (2311)	15 1/2 (394)
21-73-21	8-11 (2718)	15 1/2 (394)
25-25-25	5-4 21/32 (1642)	18 5/16 (465)
25-29-25	5-8 21/32 (1744)	18 5/16 (465)
25-33-25	6-0 21/32 (1845)	18 5/16 (465)
25-37-25	6-4 21/32 (1947)	18 5/16 (465)
25-49-25	7-4 21/32 (2252)	18 5/16 (465)
25-57-25	8-0 21/32 (2455)	18 5/16 (465)
25-73-25	9-4 21/32 (2861)	18 5/16 (465)
29-29-29	6-2 5/16 (1888)	21 1/8 (537)
29-33-29	6-6 5/16 (1989)	21 1/8 (537)
29-37-29	6-10 5/16 (2091)	21 1/8 (537)
29-49-29	7-10 5/16 (2396)	21 1/8 (537)
29-57-29	8-6 5/16 (2599)	21 1/8 (537)

Construction Details



30° Casement Bay with Stationary/Picture Center Unit

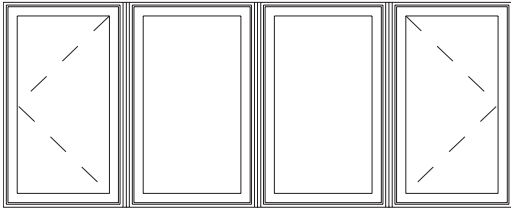
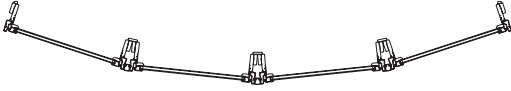


45° Casement Bay with Stationary/Picture Center Unit

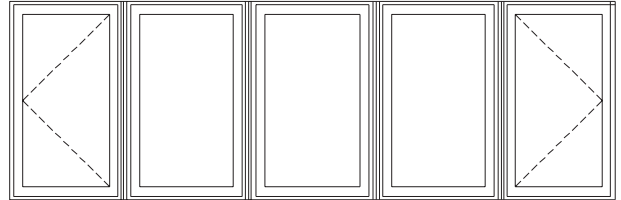
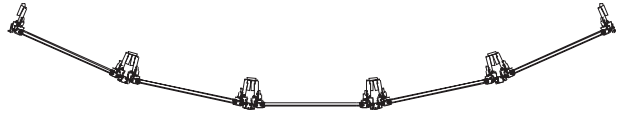
CASEMENT BAYS/BOWS

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

4 Wide Bows



5 Wide Bows



ROUGH OPENING

CN Width	Width	Projection
17 - 4W	5-515/32 (1663)	6 7/8 (175)
21 - 4W	6-91/32 (2058)	8 1/2 (216)
25 - 4W	8-09/16 (2453)	10 3/16 (259)
29 - 4W	9-45/32 (2848)	11 27/32 (301)

ROUGH OPENING

CN Width	Width	Projection
17 - 5W	6-8 5/8 (2048)	10 1/4 (260)
21 - 5W	8-3 3/4 (2534)	12 11/16 (322)
25 - 5W	9-10 7/8 (3019)	15 5/32 (385)

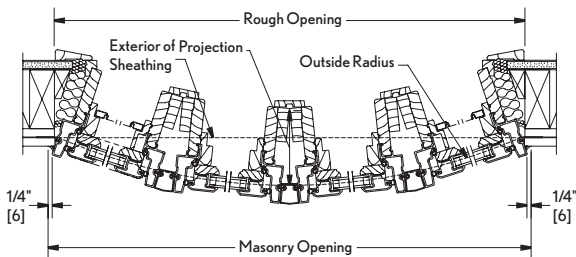
BAY/BOW HEIGHT DIMENSIONS

Unit #	Rough Opening Height
31	2-713/16 (808)
35	2-1113/16 (910)
39	3-313/16 (1011)
43	3-713/16 (1113)
47	3-1113/16 (1214)
55	4-713/16 (1418)
59	4-1113/16 (1519)
63	5-313/16 (1621)
71	5-1113/16 (1824)

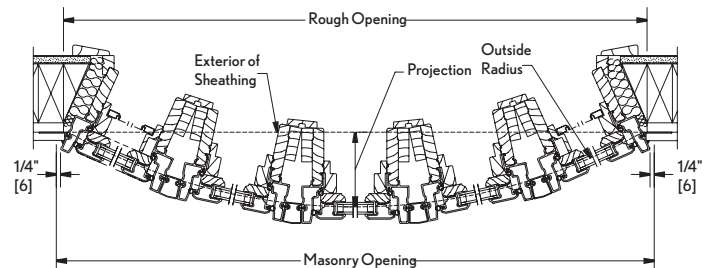
Details and Elevations not to scale.

For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.

Construction Details



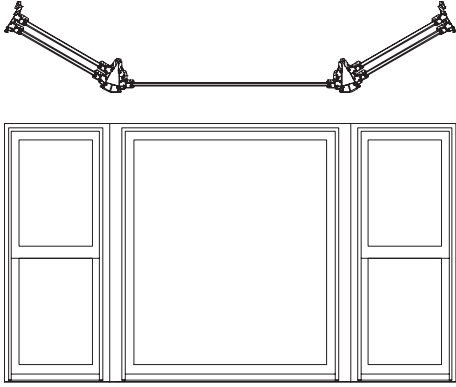
4-Wide Casement Bow Unit



5-Wide Casement Bow Unit

DOUBLE HUNG BAYS

30° Bay Picture Center Unit



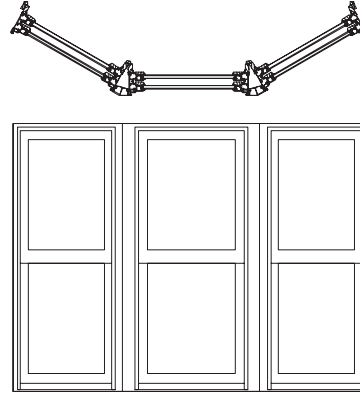
ROUGH OPENING

CN Width	Width	Projection
22 - 42 - 22	6-11 11/16 (2126)	11 3/8 (289)
22 - 50 - 22	7-7 11/16 (2329)	11 3/8 (289)
22 - 54 - 22	7-11 11/16 (2430)	11 3/8 (289)
22 - 62 - 22	8-7 11/16 (2634)	11 3/8 (289)
26 - 42 - 26	7-6 19/32 (2301)	13 3/8 (340)
26 - 50 - 26	8-2 19/32 (2504)	13 3/8 (340)
26 - 54 - 26	8-6 19/32 (2606)	13 3/8 (340)
26 - 62 - 26	9-2 19/32 (2809)	13 3/8 (340)
30 - 42 - 30	8-1 17/32 (2477)	15 3/8 (391)
30 - 50 - 30	8-9 17/32 (2680)	15 3/8 (391)
30 - 54 - 30	9-1 17/32 (2782)	15 3/8 (391)
32 - 38 - 32	8-1 (2464)	16 3/8 (416)
32 - 42 - 32	8-5 (2565)	16 3/8 (416)
32 - 50 - 32	9-1 (2769)	16 3/8 (416)
34 - 42 - 34	8-8 15/32 (2654)	17 3/8 (441)
34 - 50 - 34	9-4 15/32 (2857)	17 3/8 (441)
36 - 42 - 36	8-11 15/16 (2742)	18 3/8 (467)
38 - 42 - 38	9-3 3/8 (2829)	19 3/8 (492)

BAY HEIGHT DIMENSIONS

Double Hung Unit	Rough Opening Height	Picture Unit
36	3-11 1/16 (957)	N/A
40	3-5 11/16 (1059)	N/A
44	3-9 11/16 (1160)	44
48	4-1 11/16 (1262)	48
52	4-5 11/16 (1364)	52
56	4-9 11/16 (1465)	56
60	5-1 11/16 (1567)	60
64	5-5 11/16 (1668)	64
68	5-9 11/16 (1770)	68
72	6-1 11/16 (1872)	N/A
76	6-5 11/16 (1973)	N/A

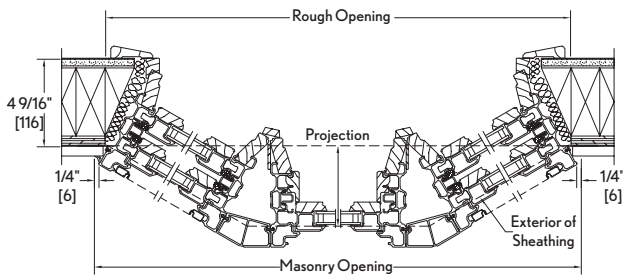
30° Bay Operator Center Unit



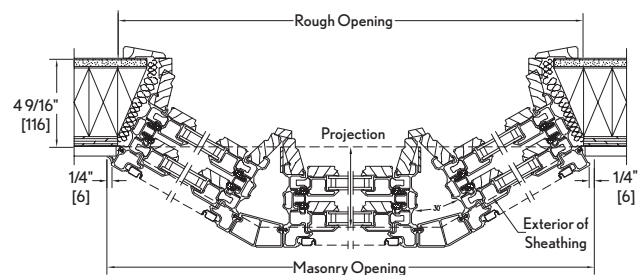
ROUGH OPENING

CN Width	Width	Projection
22 - 22 - 22	5-3 11/16 (1618)	11 3/8 (289)
22 - 26 - 22	5-7 11/16 (1719)	11 3/8 (289)
22 - 30 - 22	5-11 11/16 (1821)	11 3/8 (289)
22 - 32 - 22	6-1 11/16 (1871)	11 3/8 (289)
22 - 34 - 22	6-3 11/16 (1922)	11 3/8 (289)
22 - 36 - 22	6-5 11/16 (1973)	11 3/8 (289)
22 - 38 - 22	6-7 11/16 (2024)	11 3/8 (289)
22 - 42 - 22	6-11 11/16 (2126)	11 3/8 (289)
26 - 26 - 26	6-2 19/32 (1895)	13 3/8 (340)
26 - 30 - 26	6-6 19/32 (1996)	13 3/8 (340)
26 - 32 - 26	6-8 19/32 (2047)	13 3/8 (340)
26 - 34 - 26	6-10 19/32 (2098)	13 3/8 (340)
26 - 36 - 26	7-0 19/32 (2149)	13 3/8 (340)
26 - 38 - 26	7-2 19/32 (2199)	13 3/8 (340)
26 - 42 - 26	7-6 19/32 (2301)	13 3/8 (340)
30 - 30 - 30	7-1 17/32 (2172)	15 3/8 (391)
30 - 32 - 30	7-3 17/32 (2223)	15 3/8 (391)
30 - 34 - 30	7-5 17/32 (2274)	15 3/8 (391)
30 - 36 - 30	7-7 17/32 (2325)	15 3/8 (391)
30 - 38 - 30	7-9 17/32 (2376)	15 3/8 (391)
30 - 42 - 30	8-1 17/32 (2477)	15 3/8 (391)
32 - 22 - 32	6-9 (2057)	16 3/8 (416)
32 - 26 - 32	7-1 (2159)	16 3/8 (416)
32 - 30 - 32	7-5 (2261)	16 3/8 (416)
32 - 32 - 32	7-7 (2311)	16 3/8 (416)
32 - 34 - 32	7-9 (2362)	16 3/8 (416)
32 - 36 - 32	7-11 (2413)	16 3/8 (416)
32 - 38 - 32	8-1 (2463)	16 3/8 (416)
32 - 42 - 32	8-5 (2565)	16 3/8 (416)
34 - 32 - 34	7-10 15/32 (2400)	17 3/8 (441)
34 - 34 - 34	8-0 15/32 (2450)	17 3/8 (441)
34 - 36 - 34	8-2 15/32 (2501)	17 3/8 (441)
34 - 38 - 34	8-4 15/32 (2552)	17 3/8 (441)
34 - 42 - 34	8-8 15/32 (2654)	17 3/8 (441)
36 - 32 - 36	8-1 15/16 (2487)	18 3/8 (467)
36 - 36 - 36	8-5 15/16 (2589)	18 3/8 (467)
36 - 38 - 36	8-7 15/16 (2640)	18 3/8 (467)
36 - 42 - 36	8-11 15/16 (2742)	18 3/8 (467)
38 - 32 - 38	8-5 (2575)	19 3/8 (492)
38 - 38 - 38	8-11 3/8 (2727)	19 3/8 (492)
38 - 42 - 38	9-3 3/8 (2829)	19 3/8 (492)

Construction Details



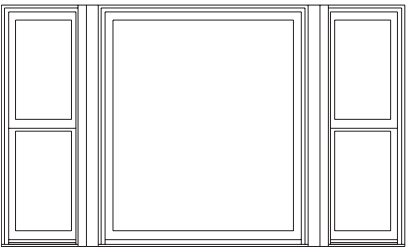
30° Bay with Picture Center Unit Jamb



30° Bay with Operator Center Unit Jamb

DOUBLE HUNG BAYS

45° Bay Picture Center Unit



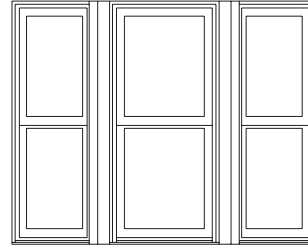
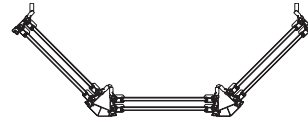
ROUGH OPENING

CN Width	Width	Projection
22 - 42 - 22	6-6 19/32 (1996)	16 9/16 (421)
22 - 50 - 22	7-2 19/32 (2199)	16 9/16 (421)
22 - 54 - 22	7-6 19/32 (2301)	16 9/16 (421)
22 - 62 - 22	8-2 19/32 (2504)	16 9/16 (421)
26 - 42 - 26	7-0 9/32 (2141)	19 3/8 (492)
26 - 50 - 26	7-8 9/32 (2344)	19 3/8 (492)
26 - 54 - 26	8-0 9/32 (2446)	19 3/8 (492)
26 - 62 - 26	8-8 9/32 (2649)	19 3/8 (492)
30 - 42 - 30*	7-5 15/16 (2284)	22 7/32 (564)
30 - 50 - 30*	8-115/16 (2488)	22 7/32 (564)
30 - 54 - 30*	8-5 15/16 (2589)	22 7/32 (564)
30 - 62 - 30*	9-115/16 (2792)	22 7/32 (564)

BAY HEIGHT DIMENSIONS

Double Hung Unit	Rough Opening Height	Picture Unit
36	3-111/16 (957)	N/A
40	3-5 11/16 (1059)	N/A
44	3-9 11/16 (1160)	44
48	4-111/16 (1262)	48
52	4-5 11/16 (1364)	52
56	4-9 11/16 (1465)	56
60	5-111/16 (1567)	60
64	5-5 11/16 (1668)	64
68	5-9 11/16 (1770)	68
72	6-111/16 (1872)	N/A
76	6-5 11/16 (1973)	N/A

45° Bay Operator Center Unit



ROUGH OPENING

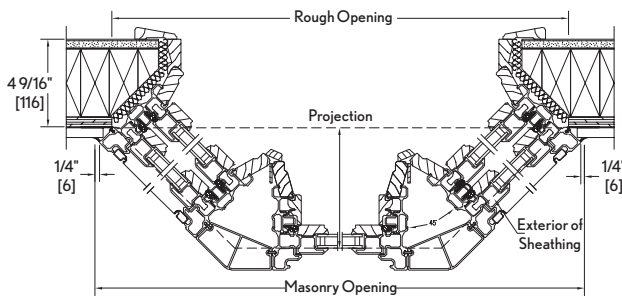
CN Width	Width	Projection
22 - 22 - 22	4-10 19/32 (1488)	16 9/16 (421)
22 - 26 - 22	5-2 19/32 (1590)	16 9/16 (421)
22 - 30 - 22	5-6 19/32 (1691)	16 9/16 (421)
22 - 32 - 22	5-8 19/32 (1743)	16 9/16 (421)
22 - 34 - 22	5-10 19/32 (1793)	16 9/16 (421)
22 - 36 - 22	6-0 19/32 (1844)	16 9/16 (421)
22 - 38 - 22	6-2 19/32 (1895)	16 9/16 (421)
22 - 42 - 22	6-6 19/32 (1996)	16 9/16 (421)
26 - 26 - 26	5-8 9/32 (1734)	19 3/8 (492)
26 - 30 - 26	6-0 9/32 (1836)	19 3/8 (492)
26 - 32 - 26	6-2 9/32 (1886)	19 3/8 (492)
26 - 34 - 26	6-4 9/32 (1938)	19 3/8 (492)
26 - 36 - 26	6-6 9/32 (1988)	19 3/8 (492)
26 - 38 - 26	6-8 9/32 (2039)	19 3/8 (492)
26 - 42 - 26	7-0 9/32 (2141)	19 3/8 (492)
30 - 30 - 30*	6-5 15/16 (1980)	22 7/32 (564)
30 - 32 - 30	6-7 15/16 (2030)	22 7/32 (564)
30 - 34 - 30*	6-9 15/16 (2081)	22 7/32 (564)
30 - 36 - 30*	6-115/16 (2132)	22 7/32 (564)
30 - 38 - 30*	7-115/16 (2183)	22 7/32 (564)
30 - 42 - 30*	7-5 15/16 (2284)	22 7/32 (564)

Details and Elevations not to scale.

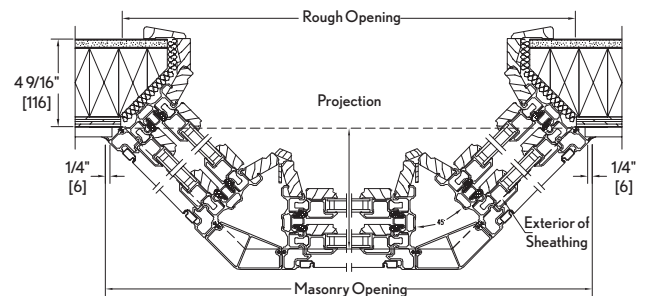
For rough opening height of a Bay, add 1 7/16" to the Double Hung rough opening height.

* Not available with 6 9/16" (167 mm) or 6 13/16" (173 mm) jamb.

Construction Details



45° Bay with Stationary/Picture Center Unit Jamb



45° Bay with Operator Center Unit Jamb