

Exposure C 20 FEET WIDE INSTALLATIONS

90 MPH WIND ZONES

Exposure B

Rev

20 FEET WIDE INSTALLATIONS

	Column and	Pier Requi	rements (Based	on ASCE 7-05	Exposure C for 90	mph Wind Load)
	Display Height	Pier Dia	Pier Depth	Col. Length	Unbraced Column	Braced Column *
\Box	8	2' (3')	8'6" (7'6")	25'6" (24'6")	W8 x 24	W8 x18
D	10	2' (3')	9'6" (8')	28'6" (27')	W8 x 28	W8 x 21
	12	2' (3')	10' (9')	31' (30')	W10 x 33	W10 x 22
	14	2' (3')	11' (9'6")	34' (32'6")	W10 x 39	W10 x 26
	16	2' (3')	11'6" (10')	36'6" (35')	W14 x 43	W12 x 26
	18	2' (3')	12' (10'6")	39' (37'6")	W8 x 48	W12 x 30
	20	2' (3')	13' (11')	42' (40')	W10 x 49	W14 x 34
	22	2' (3')	14'6" (11'6")	45'6" (42'6")	W10 x 60	W18 x 35
	25	3' (4')	12'6" (11')	46'6" (45')	W12 x 65	W16 x 40
	30	3' (4')	14'6" (12'6")	53'6" (51'6")	W12 x 87	W16 x 50
	35	3' (4')	16'6" (14')	60'6" (58')	W12 x 106	W21 x 55
	40	3' (4')	19' (16')	68' (65')	W14 x 120	W21 x 62

Column and I	Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 90mph Wind Load)									
Display Height	Pier Dia	Pier Depth	Col. Length	Unbraced Column	Braced Column *					
8	2' (3')	7'6" (6'6")	24'6" (23'6")	W8 x 21	W8 x 15					
10	2' (3')	8' (7')	27' (26')	W8 x 24	W8 x 18					
12	2' (3')	9' (7'6")	30' (28'6")	W8 x 28	W8 x 21					
14	2' (3')	9'6" (8')	32'6" (31')	W10 x 33	W10 x 22					
16	2' (3')	10' (8'6")	35' (33'6")	W8 x 35	W10 x 22					
18	2' (3')	10'6" (9')	37'6" (36')	W10 x 39	W10 x 26					
20	2' (3')	11' (9'6")	40' (38'6")	W10 x 45	W12 x 26					
22	2' (3')	12' (10'6")	43' (41'6")	W10 x 49	W12 x 30					
25	3' (4')	11' (10')	45' (44')	W10 x 60	W14 x 34					
30	3' (4')	12' (11')	51' (50')	W12 x 72	W16 x 40					
35	3' (4')	13'6" (12')	57'6" (56')	W12 x 87	W14 x 48					
40	3' (4')	15'6" (13')	64'6" (62')	W12 x 106	W18 x 55					

Exposure C 24 FEET WIDE INSTALLATIONS

Exposure B 24 FEET WIDE INSTALLATIONS

	Column and I	Pier Requir	rements (Based	on ASCE 7-05	Exposure C for 90	mph Wind Load)
~	Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
_	8'	2' [3']	9' 6" [8' 6"]	27' [26']	W12 x 26	W8 x 21
	10'	2' [3']	10' 6" [9']	30' [28' 6"]	W10 x 33	W14 x 22
	12'	2' [3']	11' 6" [10']	33' [31' 6"]	W10 x 39	W12 x 26
	14'	2' [3']	12' [10' 6"]	36' [33' 6"]	W14 x 43	W12 x 30
	16'	2' [3']	13' 6" [11']	39' [36' 6"]	W10 x 49	W14 x 34
	18'	2' [3']	14' 6" [12']	42' [39' 6"]	W12 x 53	W18 x 35
	20'	2' [3']	16' [12' 6"]	45' 6" [42']	W14 x 61	W16 x 40
	22	2' (3')	14' (11')	46' (43')	W12 x 65	W14 x 43
\geqslant	25	3' (4')	12'6" (10'6")	47'6" (45'6")	W12 x 79	W18 x 50
	30	3' (4')	14'6" (12'6")	54'6" (52'6")	W24 x 104	W21 x 55
	35	3' (4')	16'6" (14')	61'6" (59')	W14 x 120	W21 x 68
	40	3' (4')	19' (16')	69' (66')	W14 x 145	W24 x 76

Column and	Pier Requi	irements (Based	on ASCE 7-05	Exposure B for 90n	nph Wind Load)	
Display Height	Pier Dia.	Pier Depth	Col. Len.	Unbraced Column	Braced Column *	(
8'	2' [3']	8' 6" [7']	26' [24' 6"]	W8 x 24	W8 x 18	
10'	2' [3']	9' [8']	28' 6" [27' 6"]	W12 x 26	W8 x 21	
12'	2' [3']	10' [8' 6"]	31' 6" [30']	W10 x 33	W10 x 22	
14'	2' [3']	10' 6" [9']	34' [32' 6"]	W8 x 35	W10 x 26	
16'	2' [3']	11' [9' 6"]	36' 6" [35']	W14 x 43	W12 x 26	
18'	2' [3']	12' [10' 6"]	39' 6" [38']	W14 x 48	W12 x 30	
20'	2' [3']	13' [11']	42' 6" [40' 6"]	W10 x 49	W14 x 30	
22	2' (3')	14' (11')	46' (43')	W10 x 60	W14 x 34	
25	3' (4')	12'6" (10'6")	47'6" (45'6")	W12 x 65	W16 x 40	\in
30	3' (4')	14'6" (12'6")	54'6" (52'6")	W12 x 87	W16 x 50	
35	3' (4')	16'6" (14')	61'6" (59')	W12 x 106	W21 x 55	
40	3' (4')	19' (16')	69' (66')	W14 x 120	W21 x 62	

Exposure C 28 FEET WIDE INSTALLATIONS

Exposure B 28 FEET WIDE INSTALLATIONS

	Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 90mph Wind Load)									
	Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *				
O	8	2' (3')	10' (8'6")	27'6" (26')	W8 x 28	W10 x 22				
	10	2' (3')	11' (9'6")	30'6" (29')	W10 x 33	W10 x 26				
	12	2' (3')	12' (10')	33'6" (31'6")	W10 x 39	W12 x 26				
	14	2' (3')	13' (11')	36'6" (34'6")	W10 x 45	W14 x 30				
	16	2' (3')	14'6" (11'6")	40' (37')	W12 x 53	W14 x 34				
	18	2' (3')	16' (12'6")	43'6" (40')	W10 x 60	W16 x 40				
	20	2' (3')	17' (13'6")	46'6" (43')	W12 x 65	W14 x 43				
	22	2' (3')	18'6" (14'6")	50'6" (46'6")	W12 x 72	W14 x 48				
	25	3' (4')	16' (13'6")	51' (48'6")	W12 x 87	W18 x 50				
	30	3' (4')	19'6" (16'6")	59'6" (56'6")	W14 x 109	W21 x 62				
	35	3' (4')	22' (18'6")	67' (63'6")	W14 x 132	W24 x 68				
	40	3' (4')	25' (21')	75' (71')	W14 x 159	W24 x 84				

Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 90mph Wind Load)							
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *		
8	2' (3')	8'6" (7'6")	26' (25')	W8 x 24	W8 x 18		
10	2' (3')	9'6" (8')	29' (27'6")	W8 x 28	W8 x 21		
12	2' (3')	10'6" (9')	32' (30'6")	W10 x 33	W14 x 22		
14	2' (3')	11' (9'6")	34'6" (33')	W10 x 39	W10 x 26		
16	2' (3')	12' (10')	37'6" (35'6")	W10 x 45	W12 x 30		
18	2' (3')	12'6" (11')	40' (38'6")	W10 x 49	W14 x 30		
20	2' (3')	14' (11'6")	43'6" (41')	W12 x 53	W14 x 34		
22	2' (3')	15' (11'6")	47' (43'6")	W10 x 60	W16 x 36		
25	3' (4')	13' (11')	48' (46')	W12 x 72	W16 x 40		
30	3' (4')	15'6" (13')	55'6" (53')	W12 x 96	W18 x 55		
35	3' (4')	18' (15')	63' (60')	W14 x 109	W21 x 62		
40	3' (4')	20'6" (17')	70'6" (67')	W14 x 132	W21 x 68		

Chart Notes:

- 1. * Requires that braces be placed approximately 10' from ground level that spans both columns. See detail on sheet 5. If display height is taller than 10', braces must be installed at each 10' increment in display height.
- 2. Wind loading figured at **Exposure "C" Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- 3. Wind loading figured at Exposure "B" Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard Installation 3 Column Multi-Section

12/14/18

Drawn

DBB

Nevco, Inc. Greenville, Illinois 62246

8

Drawing No. 241-0358 Sheet of 2

4

Exposure C Exposure B Rev В 130 MPH WIND ZONES 20 FEET WIDE INSTALLATIONS 20 FEET WIDE INSTALLATIONS Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 130mph Wind Load) Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 130mph Wind Load) Display Height | Pier Dia | Pier Depth Col. Length Display Height Pier Depth Col. Length **Unbraced Column** Pier Dia **Unbraced Column Braced Column * Braced Column** 9'6" (8'6" 10'6" (9') 11'6" (9'6") 28'6" (26'6") 2' (3') 26'6" (25'6") W12 x 26 W10 x 33 W10 x 26 W10 x 22 8 29'6" (28') 32'6" (31') 12'6" (10'6") | 31'6" (29'6") W10 x 33 10 10 W10 x 39 W10 x 26 $W12 \times 30$ 2' (3') 2' (3') 12 14' (11'6") 35' (32'6") W14 x 48 12 11'6" (10') W10 x 39 W12 x 26 W14 x 34 2' (3') 2' (3') 2' (3') 2' (3') 2' (3') 39' (35'6") 12'6" (10'6") | 35'6" (33'6") 16' (12'6" W10 x 45 14 W12 x 53 W12 x 30 W16 x 36 14 42'6" (38'6") 17'6" (13'6") 13'6" (11'6") | 38'6" (36'6") W14 x 61 W10 x 49 16 W16 x 40 16 W14 x 34 19' (14'6") 20'6" (16') 23' (18') 15' (12') 42' (39') 16'6" (12'6") 45'6" (41'6") 2' (3') 2' (3') 46' (41'6") 18 W12 x 65 W12 x 53 W21 x 44 18 W16 x 36 2' (3') 49'6" (45') 20 20 W16 x 40 W18 x 76 $W18 \times 50$ W14 x 61 2' (3') 3' (4') 18'6" (14') 49'6" (45') 2' (3') 22 54' (49') W12 x 96 22 W12 x 72 W21 x 55 W21 x 44 3' (4') 50' (47'6") 20' (16'6") 54' (50'6'') 16' (13'6''<u>)</u> 25 30 W21 x 101 25 W18 x 86 W18 x 50 W21 x 62 3' (4') 23' (19') 62' (58') 3' (4') 18'6" (15'6") | 57'6" (54'6") W24 x 131 30 W18 x 76 W12 x 106 W21 x 62 3' (4') 26'6" (22') 70'6" (66') 65'6" (62') 35 3' (4') 21'6" (18') W14 x 159 W24 x 94 35 W14 x 132 W24 x 68 29'6" (24'6") 78'6" (73'6") 24' (20') W24 x 84 W14 x 193 W24 x 104 73' (69') W14 x 159 Exposure C Exposure B 24 FEET WIDE INSTALLATIONS 24 FEET WIDE INSTALLATIONS Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 130mph Wind Load) Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 130mph Wind Load) **Unbraced Column** Display Height | Pier Dia Pier Depth Col Len Display Height | Pier Dia. Pier Depth **Unbraced Column Braced Column *** Braced Column * Col. Len. 13' (11') 31' (29') 15' (12') 35' (32') 17'6" (13'6") 39'6" (35'6") 15' (12'6") 39' (36'6") 11' (9'6") 12' (10'6" 29' (27'6") 32' (30'6") 2' (3') 2' (3') 2' (3') 2' (3') W10 x 39 W12 x 30 W10 x 33 W10 x 26 10 W14 x 48 10 W14 x 34 $W10 \times 39$ W12 x 26 35'6" (33') 36' (35') 13'6" (11') W12 x 53 2' (3') 12 W10 x 45 W16 x 40 12 W14 x 30 W14 x 61 3' (4') 12' (11') W18 x 35 14 W12 x 53 W21 x 44 14 3' (4') 16'6" (14') 42'6" (40') 39' (37'6") 3' (4') <u>13' (11'6"</u> 16 W12 x 72 W18 x 50 W14 x 61 16 W16 x 40 46' (43') 42'6" (40') 18' (15') 14'6" (12' 3' (4') W12 x 65 W21 x 44 18 W18 x 86 W21 x 55 18 19'6" (16'6") 49'6" (46'6") 21' (17'6") 53' (49'6") 24'6" (20'6") 59'6" (55'6") 3' (4') 45'6" (43') 20 W12 x 96 <u>15'6" (13')</u> 20 W14 x 74 W16 x 50 W21 x 62 3' (4') 3' (4') 3' (4') 3' (4') 3' (4') 49' (46') ² 54'6" (51'6") 22 <u>17' (14')</u> W21 x 101 W18 x 86 W21 x 68 22 W18 x 55 19'6" (16'6") 25 W21 x 122 W24 x 76 25 W21 x 101 W21 x 62 3' (4') 23' (19') 26'6" (22') 28'6" (24') 30 68'6" (64') W14 x 159 63' (59') 30 W24 x 94 W24 x 131 W18 x 76 33' (27') 78' (72') 3' (4') 35 W21 x 201 71'6" (67') W24 x 104 35 W14 x 159 W24 x 94 3' (4') 37' (30'6") 87' (80'6") 30' (25') W24 x 131 40 W18 x 234 80' (75') 40 W14 x 193 W24 x 104 Exposure B Exposure C 28 FEET WIDE INSTALLATIONS 28 FEET WIDE INSTALLATIONS Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 130mph Wind Load) Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 130mph Wind Load) Display Height | Pier Dia Pier Depth Unbraced Column Braced Column * Col Len Pier Depth Col Len Display Height | Pier Dia Unbraced Column | Braced Column 14' (11'6") 32' (29'6") 2' (3') 29'6" (28') 32'6" (31') W12 x 40 W14 x 30 8 2' (3') 11'6" (10') W10 x 33 W12 x 26 8 16'6" (12'6") 36'6" (32'6") W16 x 36 10 12'6" (11') W14 x 48 10 W12 x 40 W12 x 30 18'6" (14'6") 16' (13'6") 40'6" (36'6") 12 W14 x 61 36'6" (33'6") 36'6" (35') 2' (3') 14'6" (11'6") W14 x 43 W14 x 48 W14 x 34 12 3' (4') 14 40' (37'6") W16 x 50 W12 x 65 3' (4') 12'6" (11') W16 x 36 W12 x 53 14 3' (4') 18' (15') 44' (41') 16 3' (4') W18 x 55 W18 x 76 14' (12') 40' (38') W14 x 61 16 W21 x 44 19'6" (16'6") 47'6" (44'6" 3' (4') W18 x 86 W21 x 62 3' (4') 43'6" (41') 18 15'6" (13') 18 W12 x 72 W16 x 50 20 21'6" (17'6") 51'6" (47'6") 3' (4' W21 x 68 47' (44') W21 x 101 3' (4') <u>17' (14')</u> 20 W12 x 79 W18 x 55 3' (4') 23' (19') 55' (51') 3' (4') <u>18'6" (15'6")</u> 22 50'6" (47'6") W24 x 104 W24 x 68 22 W12 x 96 W21 x 55 25 W24 x 76 20'6" (17') 3' (4' 25'6" (21') 60'6" (56') 55'6" (52') W18 x 130 3' (4') 25 W24 x 104 W21 x 62 3' (4') 31' (26') 71' (66') 3' (4') 65' (60'6") 30 W18 x 175 W24 x 103 25' (20'6") 30 W18 x 143 W24 x 76 36' (29'6") 81' (74'6") 3' (4') 73'6" (69') 35 W14 x 233 W24 x 131 3' (4') 28'6" (24') 35 W21 x 101 W18 x 175 3' (4') 40'6" (33'6") 90'6" (83'6") 40 W18 x 258 W24 x 146 32'6" (27') 82'6" (77') 3' (4') W14 x 211 40 W24 x 117 **Chart Notes:** 1. * Requires that braces be placed approximately 10' from ground level that spans both columns. See detail on sheet 5. If display height is taller than 10', braces must be installed at each 10' increment in

display height.

2. Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.

3. Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard Installation 3 Column Multi-Section

12/14/18

Drawn

DBB

Nevco, Inc. Greenville, Illinois 62246

Drawing No. 241-0358 Sheet of

8

3

4 3

150 MPH WIND ZONES

Exposure B 20 FEET WIDE INSTALLATIONS Rev

 \mathbf{B}

	Column and	Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 150mph Wind Load						Pier Requ	uirements (Bas	ed on ASCE 7	-05 Exposure B for 15	0mph Wind Load)	
	Display Height	Pier Dia	Pier Depth	Col. Length	Unbraced Column	Braced Column *	Display Height	Pier Dia	Pier Depth	Col. Length	Unbraced Column	Braced Column *	
D	8	2' (3')	13' (11')	30' (28')	W10 x 39	W12 x 30	8	2' (3')	11' (9'6")	28' (26'6")	W10 x 33	W10 x 26	D
	10	2' (3')	15' (12')	34' (31')	W14 x 43	W14 x 34	10	2' (3')	12' (10')	31' (29')	W10 x 39	W12 x 26	
	12	2' (3')	17' (13')	38' (34')	W12 x 53	W16 x 40	12	2' (3')	13'6" (11')	34'6" (32')	W14 x 43	W14 x 30	
	14	2' (3')	19' (14'6")	42' (37'6")	W14 x 61	W21 x 44	14	2' (3')	15' (12')	38' (35')	W12 x 53	W18 x 35	
	16	2' (3')	21' (16')	46' (41')	W16 x 67	W18 x 50	16	2' (3')	16'6" (13')	41'6" (38')	W10 x 60	W16 x 40	ĺ
	18	2' (3')	23' (17'6")	50' (44'6")	W18 x 76	W18 x 55	18	2' (3')	18' (14')	45' (41')	W12 x 65	W21 x 44	ĺ
	20	2' (3')	25' (19')	54' (48')	W12 x 96	W21 x 55	20	2' (3')	19'6" (15')	48'6" (44')	W12 x 72	W16 x 50	ĺ
	22	2' (3')	28' (21'6")	59' (52'6")	W21 x 101	W21 x 68	22	2' (3')	22' (17')	53' (48')	W18 x 86	W18 x 55	ĺ
	25	3' (4')	24' (20')	58' (54')	W14 x120	W18 x 76	25	3' (4')	19' (16')	53' (50')	W21 x 101	W21 x 62	ĺ
	30	3' (4')	28' (23')	67' (62')	W18 x 158	W24 x 94	30	3' (4')	22' (18'6")	61' (57'6")	W14 x 120	W24 x 68	\vdash
	35	3' (4')	32' (26'6")	76' (70'6")	W18 x 192	W24 x 104	35	3' (4')	25'6" (21'6")	69'6" (65'6")	W14 x 159	W24 x 84	ĺ
	40	3' (4')	36' (29'6")	85' (78'6")	W14 x 233	W24 x 131	40	3' (4')	29' (24')	78' (73')	W18 x 192	W21 x 101	ĺ

Exposure C 24 FEET WIDE INSTALLATIONS Exposure B

24 FEET WIDE INSTALLATIONS

	Column and Pier Requirements (Based on ASCE 7-05 Exposure C for 150mph Wind Load)								
	Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *			
()	8	2' (3')	15'6" (12')	33'6" (30')	W14 x 43	W14 x 34			
	10	2' (3')	18'6" (14')	38'6" (34')	W12 x 53	W16 x 40			
	12	2' (3')	21' (16')	43' (38')	W14 x 61	W16 x 50			
	14	2' (3')	24' (18')	48' (42')	W14 x 74	W18 x 55			
	16	2' (3')	26'6" (20')	52'6" (46')	W18 x 86	W21 x 62			
	18	2' (3')	29' (22')	57' (50')	W18 x 97	W21 x 68			
	20	2' (3')	31'6" (23'6")	61'6" (53'6")	W21 x 101	W24 x 68			
	22	3' (4')	25'6" (21')	57'6" (53')	W24 x 117	W24 x 76			
	25	3' (4')	29'6" (24'6")	64'6" (59'6")	W24 x 146	W24 x 94			
P	30	3' (4')	35' (28'6")	75' (68'6")	W18 x 192	W24 x 117			
	35	3' (4')	40' (33')	85' (78')	W18 x 234	W24 x 146			
	40	3' (4')	45' (37')	95' (87')	W18 x 283	W24 x 176			

Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 150mph Wind Load)									
Display Height	Pier Dia	Pier Depth	Col. Length.	Unbraced Column	Braced Column *				
8	2' (3')	12' (10'6")	30' (28'6")	W14 x 38	W12 x 30				
10	2' (3')	14' (11'6")	34' (31'6")	W14 x 43	W14 x 34				
12	2' (3')	16' (12'6")	38' (34'6")	W12 x 53	W16 x 36				
14	2' (3')	18'6" (14')	42'6" (38')	W14 x 61	W21 x 44				
16	2' (3')	20'6" (15'6")	46'6" (41'6")	W16 x 67	W16 x 50				
18	2' (3')	22'6" (17')	50'6" (45')	W18 x 76	W18 x 55				
20	2' (3')	24'6" (18'6")	54'6" (48'6")	W18 x 86	W21 x 55				
22	3' (4')	20' (17')	52' (49')	W21 x 101	W21 x 62				
25	3' (4')	23'6" (19'6")	58'6" (54'6")	W24 x 117	W24 x 68				
30	3' (4')	27'6" (23')	67'6" (63')	W18 x 158	W24 x 94				
35	3' (4')	32' (26'6")	77' (71'6")	W18 x 192	W24 x 104				
40	3' (4')	36' (29'6")	86' (79'6")	W14 x 233	W24 x 131				

Exposure C 28 FEET WIDE INSTALLATIONS

Exposure B 28 FEET WIDE INSTALLATIONS

	Column and	Pier Requir	rements (Based	on ASCE 7-05 E	Exposure C for 150n	nph Wind Load)
	Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *
В	8	2' (3')	17' (13')	35' (31')	W14 x 48	W16 x 36
	10	2' (3')	19'6" (15')	39'6" (35')	W14 x 61	W21 x 44
	12	2' (3')	22'6" (17')	44'6" (39')	W16 x 67	W18 x 50
	14	2' (3')	25'6" (19'6")	49'6" (43'6")	W18 x 76	W21 x 55
	16	2' (3')	28'6" (21'6")	54'6" (47'6")	W18 x 97	W21 x 62
	18	2' (3')	31'6" (24')	59'6" (52')	W21 x 101	W24 x 68
	20	2' (3')	34' (26')	64' (56')	W21 x 111	W24 x 76
	22	3' (4')	28' (23')	60' (55')	W24 x 131	W24 x 84
	25	3' (4')	31' (25'6")	66' (60'6")	W18 x 158	W21 x 101
	30	3' (4')	38' (31')	78' (71')	W21 x 201	W24 x 131
	35	3' (4')	44' (36')	89' (81')	W18 x 258	W24 x 162
	40	3' (4')	49'6" (40'6")	99'6" (90'6")	W18 x 311	W24 x 192

Column and F	Column and Pier Requirements (Based on ASCE 7-05 Exposure B for 150mph Wind Load)							
Display Height	Pier Dia	Pier Depth	Col Length	Unbraced Column	Braced Column *			
8	2' (3')	13' (11')	31' (29')	W10 x 39	W12 x 30			
10	2' (3')	15'6" (12')	35'6" (32')	W14 x 48	W14 x 34			
12	2' (3')	17'6" (13'6")	39'6" (35'6")	W12 x 53	W16 x 40			
14	2' (3')	19'6" (15')	43'6" (39')	W14 x 61	W21 x 44			
16	2' (3')	22' (17')	48' (43')	W14 x 74	W18 x 50			
18	2' (3')	24'6" (18'6")	52'6" (46'6")	W18 x 86	W21 x 55			
20	2' (3')	26'6" (20'6")	56'6" (50'6")	W18 x 97	W21 x 62			
22	3' (4')	22' (18'6")	54' (50'6")	W21 x 101	W21 x 68			
25	3' (4')	24'6" (20'6")	59'6" (55'6")	W21 x 122	W24 x 76			
30	3' (4')	30' (25')	70' (65')	W24 x 162	W21 x 101			
35	3' (4')	34'6" (28'6")	79'6" (73'6")	W21 x 201	W24 x 117			
40	3' (4')	39' (32'6")	89' (82'6")	W14 x 257	W24 x 146			

Chart Notes:

- 1. * Requires that braces be placed approximately 10' from ground level that spans both columns. See detail on sheet 5. If display height is taller than 10', braces must be installed at each 10' increment in display height.
- 2. Wind loading figured at **Exposure "C" Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- 3. Wind loading figured at **Exposure "B" Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.

Outdoor Scoreboard Installation 3 Column Multi-Section

Drawn

DBB

Nevco, Inc. Greenville, Illinois 62246

8

Drawing No. 241-0358 Sheet of 4

12/14/18

4







