


						Rev	D
1 Row Scoreboards (See 241-0413 for bracket dimensions)							
Model	Width	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"	D
1650	8'	3' 3/32"	90	N/A	1'	6'	
1610, 1620, 3650	10'	4' 3/32"	130	N/A	1'	8'	
1625, 1612PC	10'	5' 3/32"	160	N/A	1'	8'	
1632, 3602	12'	5' 3/32"	180	235	2'	8'	
9652	9'	4' 3/32"	110	N/A	6"	8'	
3654	14'	4' 3/32"	190	N/A	3'	8'	
1600	16'	5' 3/16"	260	315	4'	8'	
5632	18'	4' 3/32"	237	N/A	4'	10'	
5633	18'	2' 3/32"	150	N/A	4'	10'	
PCD-08/PCD-08-1	8'	18 3/32"	50	N/A	1'	6'	
PCD-10/PCD-10-1	10'	2' 3/32"	80	N/A	1'	8'	
PCD-16/PCD-16-1	16'	2' 3/32"	130	N/A	4'	8'	
PCD-18/PCD-18-1	18'	2' 3/32"	150	N/A	4'	10'	
2 Row Scoreboards (See 241-0413 for bracket dimensions)							C
Model	Width	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"	
9660, 1655	10'	6' 3/16"	200	N/A	1'	8'	
5625	12'	8' 3/16"	290	N/A	2'	8'	
1654	14'	5' 3/16"	240	N/A	3'	8'	
3655, 3658	16'	5' 3/16"	260	315	4'	8'	
1609, 1635	16'	6' 3/16"	290	345	4'	8'	
1615	16'	7' 9/32"	350	405	4'	8'	
1617PC	16'	7' 3/16"	370	425	4'	8'	
1608, 5634	18'	6' 3/16"	320	375	4'	10'	
1630, 1640, 3600 3614, 3634, 3656 5635	18'	8' 3/16"	420	482	4'	10'	
3625	18'	9' 3/16"	460	522	4'	10'	
3680	18'	8' 3/16"	N/A	590	4'	10'	
3 Row Scoreboards (See 241-0413 for bracket dimensions)							B
Model	Width	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"	
7680	18'	10' 6 5/8"	N/A	710	4'	10'	
7604, 7614, 7624	18'	10' 6 9/32"	530	592	4'	10'	
9650	16'	10' 3/16"	490	N/A	4'	8'	A

- General Notes:
- Column steel to be grade A992 (50 ksi steel minimum).
  - Bracing steel to be ASTM A500 Grade B minimum (see note 2 on sheets 2-6).
  - Minimum bolt grade: A307
  - All welds to conform to AWS standards
  - The dimensions in the charts on sheets 2-6 are calculated using the requirements specified in IBC 2012, and the Manual of Steel Construction (13th Edition). Soil lateral bearing pressure is considered to be 150 psf/f.
  - Check with the local building authority to determine the installation sites wind zone and risk category as specified in IBC 2012 and ASCE 7-10. For the purposes of these installation prints, Risk Category I shall apply to an installation where the scoreboard is more than 1.5 x the overall height away from the nearest spectator section. Risk Category II shall apply to all other installations.
  - The weights of signs to be calculated using 4.3 lb/sq. ft of sign area.
  - The weights of Nevco message centers to be calculated using 8.5 lb/sq ft.
  - The weights of Nevco video displays to be calculated using 9.5 lbs/sq. ft.
  - The weights of Nevco arches to be calculated using 7.7 lbs/sq. ft.

**Important. Read before installation.**

This is not an engineered drawing. It is intended for representational purposes only. The dimensions called out on this drawing are intended to be used as a guide only, and are not intended to be suitable for all conditions. Adding signs or other components around the scoreboard beyond the scope of this drawing or increasing the display height from the ground will affect the installation requirements. Nevco recommends that you consult a professional engineer or architect familiar with the area before attempting installation. They can verify that the selected mounting beams or posts along with the brackets, screws, and other hardware items provided by others or Nevco are adequate for your local soil conditions, wind loads and other local codes. If procedures are used that are not covered in this drawing, careful analysis of the installation is urged.

Outdoor Scoreboard  
Pier Installation  
2 Column



**Nevco, Inc.**  
Greenville, Illinois 62246

Drawing No.  
241-0405

Sheet 1 of 6

Drawn  
KAB

Date  
5/23/2023

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Rev

D

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W8x21	W10x17	2'	8'	23'
8'	W8x24	W8x21	2'	9'	26'
9'	W12x26	W8x21	2'	96"	27'6"
10'	W12x30	W10x22	2'	10'	29'
10'6"	W10x33	W10x22	2'	10'	29'6"
12'	W10x33	W10x26	2'	10'6"	31'6"
14'	W10x39	W12x26	2'	11'6"	34'6"
16'	W10x45	W12x30	2' (3)	12' (10'6")	37' (35'6")
18'	W10x49	W14x30	2' (3)	13' (11')	40' (38')
20'	W10x60	W18x35	2' (3)	14'6" (11'6")	43'6" (40'6")
22'	W12x65	W16x40	2' (3)	15'6" (12')	46'6" (43')
25'	W12x72	W21x44	2' (3)	17'6" (13'6")	51'6" (47'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W10x15	2'	7'	21'
6'	W8x21	W10x17	2'	7'6"	22'6"
7'	W8x21	W8x18	2'	8'	24'
8'	W8x24	W8x18	2'	8'6"	25'6"
10'	W8x28	W8x21	2'	9'6"	28'6"
12'	W10x33	W10x22	2'	10'	31'
14'	W10x39	W10x26	2'	11'	34'
16'	W14x43	W12x26	2' (3)	11'6" (10')	36'6" (35')

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x15	W8x13	2'	6'6"	20'6"
5'	W8x18	W12x14	2'	7'	22'
6'	W8x18	W8x15	2'	7'6"	23'6"
8'	W10x22	W8x18	2'	8'6"	26'6"
10'	W12x26	W8x21	2'	9'	29'

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W10x17	W8x13	2'	6'6"	20'6"
8'	W8x21	W10x17	2'	8'	25'
10'	W8x24	W8x18	2'	8'6"	27'6"
12'	W8x28	W8x21	2' (3)	9' (8')	30' (29')
15'	W8x35	W14x22	2' (3)	10' (9')	34' (33')

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W12x14	W8x13	2'	6'	19'
5'	W8x15	W8x13	2'	6'6"	20'6"
6'	W8x18	W8x13	2'	6'6"	21'6"
8'	W8x21	W8x15	2'	7'6"	24'6"
10'	W8x24	W8x18	2'	8'	27'
12'	W8x28	W8x18	2' (3)	8'6" (7'6")	29'6" (28'6")
15'	W10x33	W10x22	2' (3)	9'6" (8'6")	33'6" (32'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	5'6"	18'6"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	5'	17'
6'	W10x17	W8x13	2'	6'6"	21'6"
8'	W8x18	W12x14	2'	7'	24'

105 MPH WIND ZONES

18 FEET WIDE INSTALLATIONS

16 FEET WIDE INSTALLATIONS

14 FEET WIDE INSTALLATIONS

12 FEET WIDE INSTALLATIONS

10 FEET WIDE INSTALLATIONS

9 FEET WIDE INSTALLATIONS

8 FEET WIDE INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W8x18	W12x14	2'	7'	22'
8'	W8x21	W10x17	2'	7'6"	24'6"
9'	W8x24	W8x18	2'	8'	26'
10'	W8x24	W8x18	2'	8'6"	27'6"
10'6"	W8x24	W8x18	2'	8'6"	28'
12'	W8x28	W8x21	2'	9'	30'
14'	W10x33	W10x22	2'	10'	33'
16'	W8x35	W10x26	2' (3)	10'6" (9')	35'6" (34')
18'	W14x43	W12x26	2' (3)	11' (9'6")	38' (36'6")
20'	W8x48	W12x30	2' (3)	12' (10')	41' (38')
22'	W12x53	W14x30	2' (3)	12'6" (10'6")	43' (41'6")
25'	W10x60	W18x35	2' (3)	14' (11'6")	48' (45'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x15	W8x13	2'	6'	20'
6'	W8x18	W8x13	2'	6'6"	21'6"
7'	W8x18	W10x15	2'	7'	23'
8'	W8x21	W8x15	2'	7'6"	24'6"
10'	W8x24	W8x18	2'	8'	27'
12'	W8x28	W8x21	2'	9'	30'
14'	W10x33	W10x22	2'	9'6"	32'6"
16'	W8x35	W10x22	2' (3)	10' (8'6")	35' (33'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	5'6"	19'6"
5'	W10x15	W8x13	2'	6'	21'
6'	W8x18	W8x13	2'	6'6"	22'6"
8'	W8x21	W10x15	2'	7'	25'
10'	W10x22	W10x17	2'	8'	28'

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W10x15	W8x13	2'	5'6"	19'6"
8'	W8x18	W12x14	2'	7'	24'
10'	W8x21	W8x15	2'	7'6"	26'6"
12'	W8x24	W8x18	2' (3)	8' (7')	29' (28')
15'	W10x33	W8x21	2' (3)	9' (7'6")	33' (31'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	5'	18'
5'	W8x13	W8x13	2'	5'6"	19'6"
6'	W8x15	W8x13	2'	6'	21'
8'	W8x18	W8x13	2'	6'6"	23'6"
10'	W8x21	W10x15	2'	7'	26'
12'	W8x24	W10x17	2' (3)	7'6" (6'6")	28'6" (27'6")
15'	W8x28	W8x18	2' (3)	8'6" (7'6")	32'6" (31'6")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	5'6"	18'6"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	4'6"	16'6"
6'	W8x13	W8x13	2'	5'6"	20'6"
8'	W10x17	W8x13	2'	6'	23'

Outdoor Scoreboard  
Pier Installation  
2 Column

NEVCO

Nevco, Inc.

Greenville, Illinois 62246

Drawing No.

241-0405

Drawn

KAB

Date

5/23/2023

Sheet

2 of 6

Chart Notes:

1. If the display height is between chart values shown above, use the next highest value.

2. \* Requires that braces be placed approximately 10' from ground level spanning both columns. If display is taller than 20' place braces on 10' spacing.

3. 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.

4. 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.



EXPOSURE C (See Note 3)

120 MPH WIND ZONES

EXPOSURE B (See Note 4)

Rev

D

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W10x22	W8x18	2'	9'	24'
8'	W8x28	W10x22	2' (3)	10' (86")	27' (256")
9'	W12x30	W10x22	2' (3)	106" (9')	286" (27')
10'	W10x33	W10x26	2' (3)	11' (96")	30' (286")
106"	W10x33	W10x26	2' (3)	11' (96")	306" (29')
12'	W10x39	W12x26	2' (3)	116" (10')	326" (31')
14'	W10x45	W12x30	2' (3)	126" (106")	356" (336")
16'	W10x49	W14x34	2' (3)	14' (116")	39' (366")
18'	W10x60	W16x36	2' (3)	15' (12')	42' (39')
20'	W12x65	W16x40	2' (3)	17' (13')	46' (42')
22'	W12x72	W21x44	2' (3)	186" (146")	496" (456")
25'	W18x86	W18x50	2' (3)	206" (16')	546" (50')

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x21	W10x17	2'	8'	22'
6'	W8x21	W8x18	2'	86"	236"
7'	W8x24	W8x21	2'	9'	25'
8'	W12x26	W8x21	2' (3)	96" (8')	266" (25')
10'	W10x33	W14x22	2' (3)	106" (9')	296" (28')
12'	W10x39	W12x26	2' (3)	11' (96")	32' (306")
14'	W14x43	W12x30	2' (3)	12' (106")	35' (336")
16'	W10x49	W14x30	2' (3)	13' (11')	38' (36')

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x18	W12x14	2'	7'	21'
5'	W8x18	W12x16	2'	76"	226"
6'	W8x21	W8x18	2'	8'	24'
8'	W8x24	W8x21	2'	9'	27'
10'	W12x30	W10x22	2' (3)	10' (86")	30' (286")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W10x15	2'	76"	216"
8'	W8x24	W8x18	2'	86"	256"
10'	W8x28	W8x21	2'	96"	286"
12'	W10x33	W10x22	2' (3)	10' (86")	31' (296")
15'	W10x39	W12x26	2' (3)	116" (96")	356" (336")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x15	W8x13	2'	66"	196"
5'	W8x18	W12x14	2'	7'	21'
6'	W8x18	W8x15	2'	76"	226"
8'	W10x22	W8x18	2'	8'	25'
10'	W8x24	W8x18	2'	9'	28'
12'	W10x33	W10x22	2'	96"	306"
15'	W8x35	W10x26	2'	106"	346"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x15	W8x13	2'	66"	196"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	56"	176"
6'	W8x18	W12x14	2'	7'	22'
8'	W8x21	W10x17	2'	76"	246"

18 FEET WIDE INSTALLATIONS

16 FEET WIDE INSTALLATIONS

14 FEET WIDE INSTALLATIONS

12 FEET WIDE INSTALLATIONS

10 FEET WIDE INSTALLATIONS

9 FEET WIDE INSTALLATIONS

8 FEET WIDE INSTALLATIONS

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W8x21	W10x17	2'	76"	226"
8'	W8x24	W8x18	2' (3)	86" (76")	256" (246")
9'	W8x24	W8x21	2' (3)	9' (76")	27' (256")
10'	W8x28	W8x21	2' (3)	96" (8')	286" (27')
106"	W8x28	W10x22	2' (3)	96" (86")	29' (28')
12'	W10x33	W10x22	2' (3)	10' (86")	31' (296")
14'	W10x39	W10x26	2' (3)	11' (96")	34' (326")
16'	W14x43	W12x26	2' (3)	116" (10')	366" (35')
18'	W8x48	W12x30	2' (3)	12' (106")	39' (376")
20'	W12x53	W14x34	2' (3)	136" (11')	426" (40')
22'	W10x60	W16x36	2' (3)	146" (12')	456" (43')
25'	W12x65	W16x40	2' (3)	166" (13')	506" (47')

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W8x13	2'	7'	21'
6'	W8x18	W10x15	2'	76"	226"
7'	W8x21	W10x17	2'	8'	24'
8'	W10x22	W8x18	2' (3)	8' (7')	25' (24')
10'	W12x26	W8x21	2' (3)	9' (8')	28' (27')
12'	W10x33	W10x22	2' (3)	96" (86")	306" (296")
14'	W10x33	W10x26	2' (3)	106" (9')	336" (32')
16'	W10x39	W12x26	2' (3)	11' (96")	36' (346")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W10x15	W8x13	2'	6'	20'
5'	W10x17	W8x13	2'	66"	216"
6'	W8x18	W12x14	2'	7'	23'
8'	W8x21	W10x17	2'	8'	26'
10'	W8x24	W8x18	2'	86"	286"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W10x17	W8x13	2'	66"	206"
8'	W8x21	W8x15	2'	76"	246"
10'	W8x24	W8x18	2'	8'	27'
12'	W8x28	W8x21	2' (3)	9' (76")	30' (286")
15'	W10x33	W10x22	2' (3)	10' (86")	34' (326")

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	56"	186"
5'	W10x15	W8x13	2'	6'	20'
6'	W8x18	W8x13	2'	66"	216"
8'	W8x18	W10x15	2'	7'	24'
10'	W10x22	W10x17	2'	76"	266"
12'	W8x24	W8x18	2'	86"	296"
15'	W10x33	W8x21	2'	9'	33'

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	56"	186"

Column and Foundation Requirements (Based on ASCE 7-10)

Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	5'	17'
6'	W8x15	W8x13	2'	6'	21'
8'	W8x18	W8x13	2'	66"	236"

**Chart Notes:**

1. If the display height is between chart values shown above, use the next highest value.
2. \* Requires that braces be placed approximately 10' from ground level spanning both columns. If display is taller than 20' place braces on 10' spacing.
3. 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.
4. 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 Pier Installation 2 Column



**Nevco, Inc.**  
**Greenville, Illinois 62246**

Drawing No.	241-0405
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Drawn	KAB	Date	5/23/2023
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Sheet	3	of	6
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EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W8x24	W8x21	2'	96"	246"
8'	W12x30	W10x22	2' (3)	106" (9')	276" (26')
9'	W10x33	W10x26	2' (3)	11' (96")	29' (276")
10'	W14x38	W12x26	2' (3)	116" (10')	306" (29')
106"	W10x39	W12x26	2' (3)	116" (10')	31' (296")
12'	W12x40	W12x30	2' (3)	126" (106")	336" (316")
14'	W10x49	W14x34	2' (3)	14' (116")	37' (346")
16'	W12x53	W16x36	2' (3)	156" (12')	406" (37')
18'	W14x61	W16x40	2' (3)	17' (13')	44' (40')
20'	W12x72	W21x44	2' (3)	19' (146")	48' (436")
22'	W12x79	W18x50	2' (3)	206" (16')	516" (47')
25'	W12x96	W21x55	2' (3)	226" (176")	566" (516")

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x21	W8x18	2'	86"	226"
6'	W8x24	W8x21	2'	9'	24'
7'	W8x24	W8x21	2'	96"	256"
8'	W8x28	W10x22	2' (3)	10' (86")	27' (256")
10'	W10x33	W10x26	2' (3)	11' (96")	30' (286")
12'	W10x39	W12x26	2' (3)	12' (10')	33' (31')
14'	W10x45	W14x30	2' (3)	13' (11')	36' (34')
16'	W12x53	W14x34	2' (3)	146" (116")	396" (366")

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x18	W8x15	2'	76"	216"
5'	W8x21	W10x17	2'	8'	23'
6'	W10x22	W8x18	2'	86"	246"
8'	W12x26	W10x22	2'	96"	276"
10'	W10x33	W14x22	2' (3)	106" (9')	306" (29')

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W10x17	2'	76"	216"
8'	W8x24	W8x21	2'	9'	26'
10'	W12x30	W10x22	2'	10'	29'
12'	W10x33	W10x26	2' (3)	106" (9')	316" (30')
15'	W14x43	W12x30	2' (3)	12' (106")	36' (346")

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W10x17	W8x13	2'	7'	20'
5'	W8x18	W10x15	2'	76"	216"
6'	W8x21	W10x17	2'	8'	23'
8'	W8x24	W8x18	2'	86"	256"
10'	W8x28	W8x21	2'	96"	286"
12'	W10x33	W10x22	2'	10'	31'
15'	W10x39	W12x26	2'	11'	35'

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W10x17	W8x13	2'	66"	196"

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	6'	18'
6'	W8x18	W10x15	2'	76"	226"
8'	W10x22	W8x18	2'	8'	25'

130 MPH WIND ZONES

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
6'	W8x21	W8x18	2'	8'	23'
8'	W8x24	W8x21	2' (3)	9' (8')	26' (25')
9'	W12x26	W8x21	2' (3)	96" (8')	276" (26')
10'	W12x30	W10x22	2' (3)	10' (86")	29' (276")
106"	W10x33	W10x22	2' (3)	10' (9')	296" (286")
12'	W10x33	W10x26	2' (3)	11' (96")	32' (306")
14'	W10x39	W12x26	2' (3)	116" (10')	346" (33')
16'	W10x45	W12x30	2' (3)	12' (106")	37' (356")
18'	W10x49	W14x34	2' (3)	136" (11')	406" (38')
20'	W10x60	W16x36	2' (3)	15' (12')	44' (41')
22'	W12x65	W16x40	2' (3)	16' (126")	47' (436")
25'	W12x72	W21x44	2' (3)	18' (14')	52' (48')

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W10x15	2'	76"	216"
6'	W8x21	W10x17	2'	8'	23'
7'	W10x22	W8x18	2'	8'	24'
8'	W8x24	W8x18	2' (3)	86" (76")	256" (246")
10'	W8x28	W8x21	2' (3)	96" (8')	286" (27')
12'	W10x33	W14x22	2' (3)	106" (9')	316" (30')
14'	W10x39	W10x26	2' (3)	11' (96")	34' (326")
16'	W14x43	W12x26	2' (3)	116" (10')	366" (35')

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x15	W8x13	2'	66"	206"
5'	W8x18	W12x14	2'	7'	22'
6'	W8x18	W8x15	2'	76"	236"
8'	W8x24	W8x18	2'	86"	266"
10'	W12x26	W8x21	2'	9'	29'

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
5'	W8x18	W8x13	2'	66"	206"
8'	W8x21	W10x17	2'	8'	25'
10'	W8x24	W8x18	2'	86"	276"
12'	W8x28	W8x21	2' (3)	96" (8')	306" (29')
15'	W8x35	W10x26	2' (3)	106" (9')	346" (33')

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W10x15	W8x13	2'	6'	19'
5'	W10x17	W8x13	2'	66"	206"
6'	W8x18	W8x13	2'	7'	22'
8'	W8x21	W8x15	2'	76"	246"
10'	W8x24	W8x18	2'	8'	27'
12'	W8x28	W8x21	2'	9'	30'
15'	W10x33	W10x22	2'	10'	34'

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
4'	W8x13	W8x13	2'	56"	186"

Column and Foundation Requirements (Based on ASCE 7-10)					
Display Height	Unbraced Column	Braced Column*	Pier Dia.	Pier Depth	Column Length
3'	W8x13	W8x13	2'	5'	17'
6'	W10x17	W8x13	2'	66"	216"
8'	W8x18	W12x14	2'	7'	24'

18 FEET WIDE INSTALLATIONS

16 FEET WIDE INSTALLATIONS

14 FEET WIDE INSTALLATIONS

12 FEET WIDE INSTALLATIONS

10 FEET WIDE INSTALLATIONS

9 FEET WIDE INSTALLATIONS

8 FEET WIDE INSTALLATIONS

**Chart Notes:**

1. If the display height is between chart values shown above, use the next highest value.
2. \* Requires that braces be placed approximately 10' from ground level that spans both columns. If installation is taller than 20', place braces on 10' spacing.
3. 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.
4. 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

## Pier Installation

### 2 Column



**Nevco, Inc.**  
**Greenville, Illinois 62246**

Drawing No.	241-0405
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Drawn KAB

Date	5/23/2023
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Sheet 4 of 6







