

Maximum Accessory Loading for Temporary Structures, Wind Exposure C

Dome Diameter	Pipe Diameter	Pipe Gage	Wind Speed	Dead Load (per node)	Remarks
16'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
16'	1.163" O.D.	17	100 mph	200 lb. @ 5 nodes	
16'	1.315" O.D.	16	100 mph	800 lb. @ 5 nodes	
16'	1.66" O.D.	16	100 mph	2000 lb. @ 5 nodes	
16'	1.9" O.D.	16	100 mph	3000 lb. @ 5 nodes	
20'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
20'	1.163" O.D.	17	100 mph	400 lb. @ 5 nodes	
20'	1.315" O.D.	16	100 mph	800 lb. @ 5 nodes	
20'	1.66" O.D.	16	100 mph	2000 lb. @ 5 nodes	
20'	1.9" O.D.	16	100 mph	3000 lb. @ 5 nodes	
24'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
24'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
24'	1.315" O.D.	16	100 mph	500 lb. @ 10 nodes	
24'	1.66" O.D.	16	100 mph	1000 lb. @ 10 nodes	
24'	1.9" O.D.	16	100 mph	2000 lb. @ 10 nodes	
30'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
30'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
30'	1.315" O.D.	16	100 mph	300 lb. @ 10 nodes	
30'	1.66" O.D.	16	100 mph	1000 lb. @ 10 nodes	
30'	1.9" O.D.	16	100 mph	1500 lb. @ 10 nodes	
36'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
36'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
36'	1.315" O.D.	16	100 mph	200 lb. @ 10 nodes	
36'	1.66" O.D.	16	100 mph	750 lb. @ 10 nodes	
36'	1.9" O.D.	16	100 mph	1250 lb. @ 10 nodes	
44'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
44'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
44'	1.315" O.D.	16	100 mph	150 lb. @ 15 nodes	
44'	1.66" O.D.	16	100 mph	500 lb. @ 15 nodes	
44'	1.9" O.D.	16	100 mph	800 lb. @ 15 nodes	
60'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
60'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
60'	1.315" O.D.	16	100 mph	None	This pipe diameter cannot be used.
60'	1.66" O.D.	16	100 mph	None	This pipe diameter cannot be used.
60'	1.9" O.D.	16	100 mph	500 lb. @ 15 nodes	

- ~ Additional Dead Loads shall be applied at joint/member intersections only.
- ~ For additional dead loads shown on this table, contractor/user shall submit details of attaching the load to the Engineer of Record for approval/disapproval before attaching any load to the dome/structure.
- ~ Roof Live Load of 12 psf has been applied on the horizontal projection.
- ~ Stress increase factor of 1.33 has been applied for load combinations including wind loads.
- ~ Fabric covering must not deflect greater than 1/2" between struts due to applied loads.
- ~ Wind pressure for this table is using an exposure category C per ASCE 7-02

Exposure B: shall apply where the ground surface roughness as described as, urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger, prevail in the upwind direction for a distance of at least 2630 ft. or 10 times the height of the building, whichever is greater.

Exposure C: shall apply for all cases where exposures B or D do not apply.

Exposure D: shall apply where the ground surface roughness as described as, flat, unobstructed areas and water surfaces outside hurricane-prone regions. This category includes smooth mud flats, salt flats and unbroken ice, prevails in the upwind direction for a distance at least 5000 ft. or 10 times the building height, whichever is greater. Exposure D shall extend inland from the shoreline for distance of 660 ft. or 10 times the height of the building, whichever is greater.

- ~ Contact the Engineer of Record for foundation and additional information before using the above table and/or before construction.
- ~ The code used in forming this table is the International Building Code, IBC 2003
- ~ Temporary structures are to be permitted for no more than 180 days per IBC 107.1

Maximum Accessory Loading for Temporary Structures, Wind Exposure B

Dome Diameter	Pipe Diameter	Pipe Gage	Wind Speed	Dead Load (per node)	Remarks
16'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
16'	1.163" O.D.	17	100 mph	200 lb. @ 5 nodes	
16'	1.315" O.D.	16	100 mph	800 lb. @ 5 nodes	
16'	1.66" O.D.	16	100 mph	2000 lb. @ 5 nodes	
16'	1.9" O.D.	16	100 mph	3000 lb. @ 5 nodes	
20'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
20'	1.163" O.D.	17	100 mph	400 lb. @ 5 nodes	
20'	1.315" O.D.	16	100 mph	800 lb. @ 5 nodes	
20'	1.66" O.D.	16	100 mph	2000 lb. @ 5 nodes	
20'	1.9" O.D.	16	100 mph	3000 lb. @ 5 nodes	
24'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
24'	1.163" O.D.	17	100 mph	10 lb. @ 10 nodes	
24'	1.315" O.D.	16	100 mph	500 lb. @ 10 nodes	
24'	1.66" O.D.	16	100 mph	1000 lb. @ 10 nodes	
24'	1.9" O.D.	16	100 mph	2000 lb. @ 10 nodes	
30'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
30'	1.163" O.D.	17	100 mph	25 lb. @ 10 nodes	
30'	1.315" O.D.	16	100 mph	300 lb. @ 10 nodes	
30'	1.66" O.D.	16	100 mph	1000 lb. @ 10 nodes	
30'	1.9" O.D.	16	100 mph	1500 lb. @ 10 nodes	
36'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
36'	1.163" O.D.	17	100 mph	10 lb. @ 10 nodes	
36'	1.315" O.D.	16	100 mph	200 lb. @ 10 nodes	
36'	1.66" O.D.	16	100 mph	750 lb. @ 10 nodes	
36'	1.9" O.D.	16	100 mph	1250 lb. @ 10 nodes	
44'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
44'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
44'	1.315" O.D.	16	100 mph	150 lb. @ 15 nodes	
44'	1.66" O.D.	16	100 mph	500 lb. @ 15 nodes	
44'	1.9" O.D.	16	100 mph	800 lb. @ 15 nodes	
60'	0.922" O.D.	18	100 mph	None	This pipe diameter cannot be used.
60'	1.163" O.D.	17	100 mph	None	This pipe diameter cannot be used.
60'	1.315" O.D.	16	100 mph	None	This pipe diameter cannot be used.
60'	1.66" O.D.	16	100 mph	None	This pipe diameter cannot be used.
60'	1.9" O.D.	16	100 mph	500 lb. @ 15 nodes	

- ~ Additional Dead Loads shall be applied at joint/member intersections only.
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- ~ Roof Live Load of 12 psf has been applied on the horizontal projection.
- ~ Stress increase factor of 1.33 has been applied for load combinations including wind loads.
- ~ Fabric covering must not deflect greater than 1/2" between struts due to applied loads.
- ~ Wind pressure for this table is using an exposure category B per ASCE 7-02

Exposure B: shall apply where the ground surface roughness as described as, urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger, prevail in the upwind direction for a distance of at least 2630 ft. or 10 times the height of the building, whichever is greater.

Exposure C: shall apply for all cases where exposures B or D do not apply.

Exposure D: shall apply where the ground surface roughness as described as, flat, unobstructed areas and water surfaces outside hurricane-prone regions. This category includes smooth mud flats, salt flats and unbroken ice, prevails in the upwind direction for a distance at least 5000 ft. or 10 times the building height, whichever is greater. Exposure D shall extend inland from the shoreline for distance of 660 ft. or 10 times the height of the building, whichever is greater.

- ~ Contact the Engineer of Record for foundation and additional information before using the above table and/or before construction.
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Maximum Accessory Loading for Temporary Structures, Wind Exposure C

Dome Diameter	Pipe Diameter	Pipe Gage	Wind Speed	Dead Load (per node)	Remarks
16'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
16'	1.163" O.D.	17	85 mph	200 lb. @ 5 nodes	
16'	1.315" O.D.	16	85 mph	800 lb. @ 5 nodes	
16'	1.66" O.D.	16	85 mph	2000 lb. @ 5 nodes	
16'	1.9" O.D.	16	85 mph	3000 lb. @ 5 nodes	
20'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
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20'	1.9" O.D.	16	85 mph	3000 lb. @ 5 nodes	
24'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
24'	1.163" O.D.	17	85 mph	20 lb. @ 10 nodes	
24'	1.315" O.D.	16	85 mph	500 lb. @ 10 nodes	
24'	1.66" O.D.	16	85 mph	1000 lb. @ 10 nodes	
24'	1.9" O.D.	16	85 mph	2000 lb. @ 10 nodes	
30'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
30'	1.163" O.D.	17	85 mph	50 lb. @ 10 nodes	
30'	1.315" O.D.	16	85 mph	300 lb. @ 10 nodes	
30'	1.66" O.D.	16	85 mph	1000 lb. @ 10 nodes	
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36'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
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44'	1.66" O.D.	16	85 mph	500 lb. @ 15 nodes	
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60'	0.922" O.D.	18	85 mph	None	This pipe diameter cannot be used.
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60'	1.315" O.D.	16	85 mph	None	This pipe diameter cannot be used.
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