

INTERPRETATIONS & APPLICATIONS
OF BUILDING CODES & REGULATIONS 21- 4



CODE: 2021 IBC and ASCE7-16

11/04/2014; Rev. 01/06/2017

CODE SECTION: 2021 IBC, Table 1604.5, Sections 1705.3 & 1705.8, Table 1705.7,
Section 1803.2 Exception, and Table 1806.2
ASCE 7-16, Section 12.8.1, table 15.4-2

Purpose: To achieve consistent plans review for Signs, fences and carport canopies

General:

Section 1803.2, Exception allows the use of Table 1806.2 for design of piers. The values in Table 1806.2 are intended to be the lower-bound allowable pressures listed in the soils report. Therefore, Geotechnical special inspection will not be required when using Table 1806.2. The sealed statement by the registrant assures that class of materials stated was not arbitrarily selected.

Design Parameters: Signs, fences and carport canopies will be considered a low hazard to human life in the event of failure.

1. Foundation: A soil report and special inspections will not be required for signs, fences, and carport canopies foundations, if the class of materials is a 4 or 5 per IBC Table 1806.2. The class of materials shall be determined by the requirements of IBC Section 1803.5 or the registrant may make a statement on the sealed drawings, that the registrant determined the class of materials at this site to be 4 or 5 as listed in IBC Table 1806.2
2. The Occupancy Risk Category shall be I, per IBC table 1604.5.
3. Basic design wind speed shall be 95 mph, Occupancy category I, Figure 26.5-1A.
4. The importance factor for seismic design shall be 1.0 per ASCE 7-16, Table 1.5-2

Roof Live Load:

1. Live load on roof surfaces of carport canopies and other similar roof surfaces (except roof surfaces covered with fabric awnings) shall be minimum of 20 PSF (reducible) in accordance with ASCE7-16 Table 4-1 and 2021-IBC Sections 1607.12.2.1, 1607.14.2 and Table 1607.1.