

CLIMATE AND DESIGN CRITERIA FOR ASH FLAT, ARKANSAS

TABLE R301.2

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD ^o	WIND DESIGN				SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			ICE BARRIER UNDERLAYMENT REQUIRED ^b	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ^j
	Speed ^d (mph)	Topographic effects ^k	Special wind region ^l	Windborne debris zone ^m		Weathering ^a	Frost line depth ^b	Termite ^c				
15.4 lb./ft.	105	no	no	no	C/D0	Severe	14"	Yes	Yes	Location Specific	280	59.2

- a. Where weathering requires a higher strength concrete or [grade](#) of [masonry](#) than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The weathering column shall be filled in with the weathering index, "negligible," "moderate" or "severe" for concrete as determined from Figure R301.2(1). The [grade](#) of [masonry units](#) shall be determined from ASTM C34, ASTM C55, ASTM C62, ASTM C73, ASTM C90, ASTM C129, ASTM C145, ASTM C216 or ASTM C652.
- b. Where the frost line depth requires deeper footings than indicated in [Figure R403.1\(1\)](#), the frost line depth strength required for weathering shall govern. The [jurisdiction](#) shall fill in the frost line depth column with the minimum depth of footing below finish [grade](#).
- c. The [jurisdiction](#) shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
- d. The [jurisdiction](#) shall fill in this part of the table with the wind speed from the [basic wind speed](#) map [Figure R301.2(2)]. Wind exposure category shall be determined on a site-specific basis in accordance with [Section R301.2.1.4](#).
- e. The [jurisdiction](#) shall fill in this section of the table to establish the design criteria using Table 10A from ACCA Manual J or established criteria determined by the [jurisdiction](#).
- f. The [jurisdiction](#) shall fill in this part of the table with the [seismic design category](#) determined from [Section R301.2.2.1](#).
- g. The [jurisdiction](#) shall fill in this part of the table with: the date of the [jurisdiction](#)'s entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas); the title and date of the currently effective Flood Insurance Study or other flood hazard study and maps adopted by the authority having [jurisdiction](#), as amended.
- h. In accordance with Sections [R905.1.2](#), [R905.4.3.1](#), [R905.5.3.1](#), [R905.6.3.1](#), [R905.7.3.1](#) and [R905.8.3.1](#), where there has been a history of local damage from the effects of ice damming, the [jurisdiction](#) shall fill in this part of the table with "YES." Otherwise, the [jurisdiction](#) shall fill in this part of the table with "NO."
- i. The [jurisdiction](#) shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from [Figure R403.3\(2\)](#) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
- j. The [jurisdiction](#) shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
- k. In accordance with [Section R301.2.1.5](#), where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the [jurisdiction](#) shall fill in this part of the table with "YES." Otherwise, the [jurisdiction](#) shall indicate "NO" in this part of the table.
- l. In accordance with Figure R301.2(2), where there is local historical data documenting unusual wind conditions, the [jurisdiction](#) shall fill in this part of the table with "YES" and identify any specific requirements. Otherwise, the [jurisdiction](#) shall indicate "NO" in this part of the table.
- m. In accordance with [Section R301.2.1.2](#) the [jurisdiction](#) shall indicate the wind-borne debris wind [zone](#)(s). Otherwise, the [jurisdiction](#) shall indicate "NO" in this part of the table.
- n. The [jurisdiction](#) shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the [jurisdiction](#).
- o. The [jurisdiction](#) shall fill in this section of the table using the Ground Snow Loads in Figures R301.2(3) and R301.2(4).