

2021 Virginia Construction Code

CHAPTER 21 MASONRY

SECTION 2114 DRY-STACK MASONRY

2114.1 General.

The design of dry-stack masonry structures shall comply with the requirements of Chapters 1 through 8 of [TMS 402](#) except as modified by [Sections 2114.2](#) through [2114.5](#).

2114.2 Limitations.

Dry-stack masonry shall be prohibited in *Risk Category* IV structures.

2114.3 Materials.

Concrete *masonry units* complying with [ASTM C90](#) shall be used.

2114.4 Strength.

Dry-stack masonry shall be of adequate strength and proportions to support all superimposed *loads* without exceeding the allowable stresses listed in [Table 2114.4](#). Allowable stresses not specified in [Table 2114.4](#) shall comply with the requirements of Chapter 8 of [TMS 402](#).

TABLE 2114.4
GROSS CROSS-SECTIONAL AREA ALLOWABLE STRESS FOR DRY-STACK MASONRY

DESCRIPTION	MAXIMUM ALLOWABLE STRESS (psi)
Compression	45
Flexural tension Horizontal span	30
Vertical span	18
Shear	10

For SI: 1 pound per square inch = 0.006895 MPa.

2114.5 Construction.

Construction of dry-stack masonry shall comply with [ASTM C946](#).