

Data Sheet for CarpenterStone Products

Product	lb/ft ³	Compressive Strength psi	Tensile Strength psi	Flexular Strength 2.5" thickness	Thermal Conductivity BTUh/sf/°F	Thermal Resistance per inch (R-value)	Impact	Pull-out Resistance 2.5" thickness
CarpenterStone 1:4*	71	2,400	TBD	830	0.88	1.04	TBD	1,005
CarpenterStone 1:6	59	1,498	TBD	730	0.76	1.34	TBD	680
CarpenterStone 1:8	47	1,230	TBD	686	0.69	1.51	TBD	603

* Cement:Vermiculite Ratio

- 1) Weight estimate based upon estimated 5% variance due to scales used. Higher percent chance of variance on lower weight samples.
- 2) Compressive strength psi for all products are all certified strengths. However, 1:4 has ranged from around 1,800 to 2,550 depending upon fiber, chemical mix, etc. (I would use 2,000)
- 3) Flexural Strength is the "load value" at which the piece cracks (it doesn't break) per thickness measurement stated. Dade County now requires "Total Load Applied" instead of PSI.
- 4) Thermal Conductivity and Resistance data for CarpenterStone is estimated based upon industry data for traditional cement/vermiculite mixtures and is adjusted negatively to reflect increased density.
- 5) Pull-out is based upon a 2.5" piece (per letter from the engineering firm)