

Calculated Fire-Resistance Ratings for UngROUTED or Partially Grouted Single Wythe Masonry Walls Constructed of Standard Concrete Block Masonry Units of Typical Solid Contents (Based on Table D-2.1.1 NBCC-2010)**

Wall Standard Size Unit	% Solid Content	Concrete Type	Fire Resistance Rating (min.)
140 mm	58% (Hollow)	Type S or N	71
		Type L ₁ 20S	81
		Type L ₁	88
		Type L ₂ 20S	90
		Type L ₂	95
	80% (Semi-Solid)	Type S or N	118
		Type L ₁ 20S	142
		Type L ₁	156
		Type L ₂ 20S	169
		Type L ₂	183
	100% (Full Solid)	Type S or N	176
		Type L ₁ 20S	208
		Type L ₁	231
		Type L ₂ 20S	240
		Type L ₂	240

****Note hollow or semi-solid units can be considered solid when cores that are not reinforced are filled with grout, sand or vermiculite**