

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.)
190 mm	56% (Hollow)	Type S or N	109
		Type L ₁ 20S	129
		Type L ₁	142
		Type L ₂ 20S	154
		Type L ₂	166
	78% (Semi-Solid)	Type S or N	194
		Type L ₁ 20S	230
		Type L ₁	240
		Type L ₂ 20S	240
		Type L ₂	240
	100% (Full Solid)	Type S or N	240
		Type L ₁ 20S	240
		Type L ₁	240
		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