

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.)
90 mm	73% (Hollow)	Type S or N	52
		Type L ₁ 20S	59
		Type L ₁	63
		Type L ₂ 20S	63
		Type L ₂	65
	82% (Semi-Solid)	Type S or N	61
		Type L ₁ 20S	71
		Type L ₁	76
		Type L ₂ 20S	77
		Type L ₂	80
	100% (Full Solid)	Type S or N	83
		Type L ₁ 20S	96
		Type L ₁	106
		Type L ₂ 20S	110
		Type L ₂	117

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