2 hour Fire Block.

Built for speed, safety and simplicity.

This 190mm block is built to protect. 61% solid concrete it's fire resistant for 2 hours, offering added protection for what matters most.

SHAW BRICK

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salesinfo@shawbrick.ca | www.shawbrick.ca

Shaw Brick's impressive new concrete block has a fire resistant rating of 2 Hours and weighs in at just 42 pounds.

Let's break it down.

Under Sections 1.6 and 2.1 of the National Building Code: Equivalent Thickness of 190mm Concrete

Block at 61% solid= .61 x 190 = 116mm

Fire Resistance Rating Using the Equivalent Thickness Calculation Method:

S or N Concrete: FRR = 2 hr. + (116-113)/(142-116) x 1 hr. = 2.04 hrs.

SHAW BRICK'S 2 HOUR (61%) 190MM CONCRETE BLOCK FRR IS 2.04 HRS.

Weight per Block:	42lbs
Blocks/ Pallet:	75ea
Pallet Weight:	31 5 0 lbs

TABLE D-2.1.1 OF THE NBC, EXCERPTED:

Minimum Equivalent thickness [1] of Unit Masonry and Monolithic Concrete Walls Load-bearing and Non-Load-bearing, mm.

Type of Wall	Fire-Resistance Rating						
	30 min	45 min	1 hr	1.5 hr	2 hr	3 hr	4 hr
Solid brick units (80% solid and over), actual overall thickness	63	76	90	108	128	152	178
Cored brick units and hollow tile units (less than 80% solid), equivalent thickness.	50	60	72	86	102	122	142
Solid and hollow concrete masonry units, equivalent thickness							
Type S or N concrete [2]	44	59	73	95	**113**	142	167
Type L120S concrete 120concrete 220S concrete	42	54	66	87	102	129	152
Type L	42	54	64	82	97	122	143
Type L	42	54	64	81	94	116	134
Type L2 concrete	42	54	63	79	91	111	127
Monolithic concrete and concrete panels, equivalent thickness							
Type S concrete	60	77	90	112	130	158	180
Type N concrete	59	74	87	108	124	150	171
Type L40S or Type L concrete	49	62	72	89	103	124	140

NOTES TO TABLE D-2.1.1.:

(1) see definition of equivalent thickness in subsection D-1.6.

(2) Hollow concrete masonry units made with Type S or N concrete shall have a minimum compressive strength of 15 MPa based on net area, as defined in CAN/CSA-A165.1, "Concrete Block Masonry Units."

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