

# Foundation Wall Comparison



TECHNICAL BULLETIN . CONSTRUCTION EFFICIENCY

1.14.09

## FOX BLOCKS ICF VERSUS CONVENTIONAL POURED CONCRETE

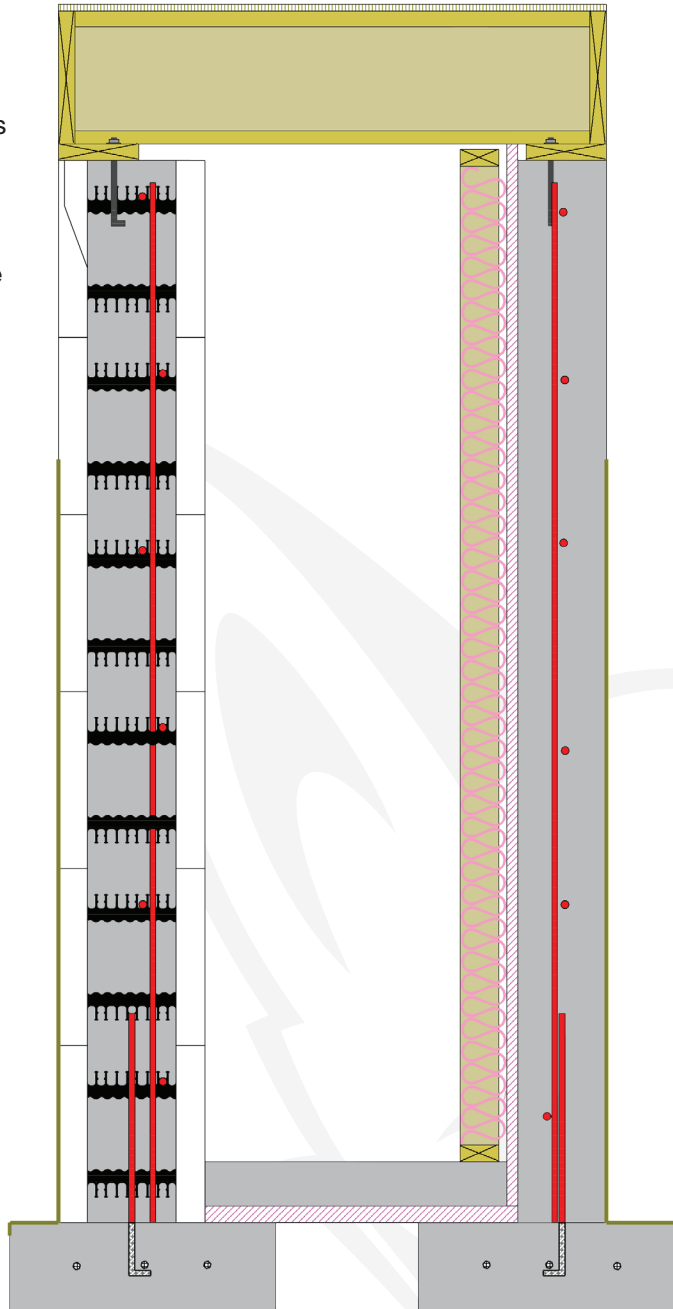
This material and labor wall comparison shows that using Fox Blocks exceeds energy code requirements and is cheaper than conventional poured concrete basements applications.

### Fox Blocks ICF Wall \$12.25\* Sq Ft

- For any height
- Easily build 9' or 10' walls without cost penalty

### R-23.5 / RSI 4.1 Effective

- Double layer of continuous insulation around concrete mass improves thermal resistance
- Only one trade needed



### Conventional Wall \$15.76\* Sq Ft

- For 8' tall walls
- Price increases dramatically as wall gets higher

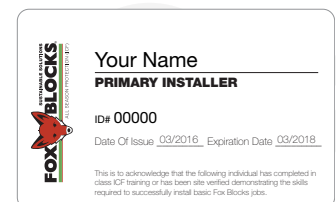
### R21.81 / RSI 3.84 Effective

- Mass concrete exposed to weather will be cold in winter and hot in summer working against the thermal efficiency
- Requires more labor and materials to meet new energy codes and building science criteria
- Up to three different trades needed

\* See next pages for costs

## Fox Blocks is your easiest way to meet the new energy codes.

Are you ready to switch to Fox Blocks? Go to our website or call us for upcoming Foxtraining courses so you can show your inspector your Fox Blocks wallet card.



BELOW GRADE WALLS				
ONE TRADE	ICF 8" FOX BLOCKS WALL (R23.5/RSI 4.11 EFFECTIVE)	UNIT COST	MULTIPLIER	SQ FT COST
	Average Cost of 8" Fox Block	\$21.00	/5.58	\$3.76
	Misc. Fox Blocks Components	\$0.48		\$0.48
	Cost of Concrete per Meter	\$185	/64	\$2.89
	Rebar Cost per Foot	\$0.55	*1.61	\$0.89
	Pump Charge per Hour	\$130.00	/400	\$0.33
	Bracing Rental	\$12.00	/56	\$0.21
	Misc. Lumber for Strapping, etc.	\$125.00	/1280	\$0.10
	Dimple Membrane	\$167.80	/422	\$0.40
	Labor in Time per Sq Ft	0.08		
	Cost of Labor per Sq Ft	\$40.00	*.08	\$3.20
Average Cost per Square Foot for Fox Blocks				\$12.75

Fox Blocks residential foundations may use either 6" or 8" concrete cores depending on design criteria and local codes. This creates an added advantage on material and labor.

Get Fox Blocks delivered and use the money you save on granite counter tops or a nicer truck.

CONVENTIONAL 8" CONCRETE BASEMENT WALL				
FIRST TRADE	(R21.81/RSI 3.84 EFFECTIVE)	UNIT COST	MULTIPLIER	SQ FT COST
	Cost of Concrete per Meter	\$185.00	/64	\$2.89
	Rebar Cost per Foot	\$0.55	*1.61	\$0.89
	Form Ties (each)	\$0.65	*(12/96)	\$0.08
	Forming Rental Cost	?		
	Form Truck to Move from Job to Job	?		
	Form Oil	?		
	Pump Charge per Hour	\$130.00	/400	\$0.33
	Spray on Tar	\$0.35		\$0.35
	Labor in Time per Sq Ft	0.12		
	Cost of Labor per Sq Ft	\$40.00	*.12	\$4.80
Average Cost per Square Foot				\$9.33

Do you get charged for insurance, fuel or wear and tear on the trucks used simply to move formwork from job to job?

More material requires more labor by multiple trades, each waiting for the other before starting or completing their work.

WOOD FRAME WALLS (REQUIRED FOR CONVENTIONAL WALLS)				
SECOND TRADE	2X6 EXTERIOR FRAMED WALL (EFFECTIVE R16.35/RSI 2.88)	UNIT COST	MULTIPLIER	SQ FT COST
	2 x 6 Studs Cost Each	\$5.25	*14/96	\$0.77
	2 x 6 x 12' Cost Each	\$9.55	*3/96	\$0.30
	One Sq Ft of Nails	\$0.12		\$0.12
	Labor in Time per Sq Ft	0.033		
	Cost of Labor per Sq Ft	\$40.00	x 0.033	\$1.32
Average Cost per Square Foot				\$2.50

Note: Costs in this table are from 2018. Adjust material and labor costs to suit your area and current values. The costs advantage will still be there for Fox Blocks.

BATT INSULATION & VAPOR BARRIER				
INSULATION & VAPOR BARRIER (EFFECTIVE R16.35/RSI 2.88)		UNIT COST	MULTIPLIER	SQ FT COST
THIRD TRADE	R20 Fiberglass Cost Per Bundle	\$44.23	/49	\$0.90
	1000 Sq Ft Roll of 6 Mil Poly	\$69.97	/1000	\$0.07
	Vapor Barrier Tape & Caulking	\$300.00	/1280	\$0.23
	Labor in Time per Sq Ft	0.025		
	Cost of Labor per Sq Ft	\$40.00	x 0.025	\$1.00
	Average Cost per Square Foot			\$2.21
	ADDITIONAL INSULATION (TO MEET CODE)			
	ADD 1" RIGID INSULATION (R5/RSI 0.88)			
	1" Rigid R5 Insulation	\$21.40	/16	\$1.34
	Labor in Time per Sq Ft	0.0094		
	Cost of Labor per Sq Ft	\$40.00	*0.0094	\$0.38
	Average Cost per Square Foot			\$1.71
Average Cost per Square Foot for Conventional Basement				\$15.76