

**ARXX ICFs are available in four types of forms:
ARXX Edge, ARXX Prime, ARXX Steel and ARXX Steel Waffle Grid.**

Standard Form Sizes and Coverage

Table 1.

form type	size	thickness		web spacing o/c	total (inches)			wall area covered (ft. sq.)
		concrete	EPS		W	H	L	
ARXX Edge 16" tall	4	4	2.5	8	9	16	48	5.33
	6	6	2.5	8	11	16	48	5.33
	8	8	2.5	8	13	16	48	5.33
	10	10	2.5	8	15	16	48	5.33
	12+	12	2.5	8	17	16	48	5.33
ARXX Prime 16 3/4" tall	6	6.25	2.625	8	11.5	16.75	48	5.58
	8	7.875	2.375	8	12.5	16.75	48	5.58
	10	9.875	2.5	8	15	16.75	48	5.58
ARXX Steel 24" tall	6	6	2.5	6	11	24	48	8.0
	8	8	2.5	6	13	24	48	8.0
ARXX Steel Waffle Grid 16" tall	6	variable	variable	12	9.25	16	48	5.33
	8	variable	variable	12	11	16	48	5.33

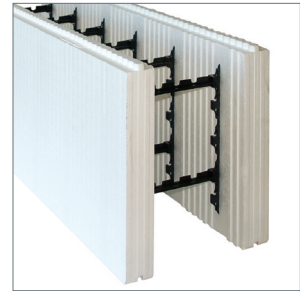
Using the "wall area covered" square feet numbers for each form type in the following calculations provide a rough estimate of the quantity of forms required for a project.

Formula 1.

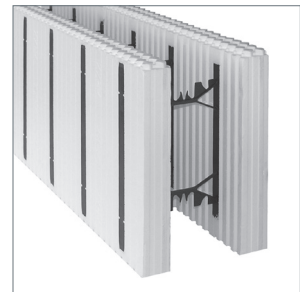
total lineal footage X wall height = gross square footage wall area (GSF)

number of forms = GSF ÷ ARXX form wall area coverage

example: 124 LF X 8 ft. high = 992 GSF
 number of ARXX Prime forms 992 ÷ 5.58 = 178



ARXX Edge



ARXX Prime



ARXX Steel
ARXX Steel Waffle Grid

Reference:

ARXX Technical Bulletin -
ARXX Estimating Formulas

Concrete Volumes

Table 2.

form type	size	cu. yd. per form	cu. m. per form	Use this if you run short at end of concrete placement.									
				number forms filled for every:		cubic yard needed for this number of forms				cubic meters needed for this number of forms			
				cu. yd.	cu. m.	5	12	20	35	5	12	20	35
ARXX Edge 16" tall	4	0.066	0.05	15.2	20.0	0.3	0.8	1.3	2.3	0.3	0.6	1.0	1.8
	6	0.099	0.076	10.1	13.2	0.5	1.2	2.0	3.5	0.4	0.9	1.5	2.7
	8	0.132	0.101	7.6	9.9	0.7	1.6	2.6	4.6	0.5	1.2	2.0	3.5
	10	0.165	0.126	6.1	7.9	0.8	2.0	3.3	5.8	0.6	1.5	2.5	4.4
	12	0.198	0.151	5.1	6.6	1.0	2.4	4.0	6.9	0.8	1.8	3.0	5.3
ARXX Prime 16 3/4" tall	6	0.108	0.082	9.3	12.2	0.5	1.3	2.2	3.8	0.4	1.0	1.6	2.9
	8	0.136	0.104	7.4	9.6	0.7	1.6	2.7	4.8	0.5	1.2	2.1	3.6
	10	0.17	0.13	5.9	7.7	0.9	2.0	3.4	6.0	0.7	1.6	2.6	4.6
ARXX Steel 24" tall	6	0.148	0.113	6.8	8.8	0.7	1.8	3.0	5.2	0.6	1.4	2.3	4.0
	8	0.197	0.151	5	6.6	1.0	2.4	3.9	6.9	0.8	1.8	3.0	5.3
ARXX Steel Waffle Grid 16" tall	6	0.074	0.057	13.5	17.5	0.4	0.9	1.5	2.6	0.3	0.7	1.1	2.0
	8	0.100	0.076	10.0	13.2	0.5	1.2	2.0	3.5	0.4	0.9	1.5	2.7

Note: this table may be used for rough estimates for concrete volumes and should not be utilized for exact volumes when ordering materials.

To calculate a concrete volume per square foot of wall area, utilize the factors in Table 3 and do the following calculations:

Table 3.

concrete per square foot	core size	per square foot factor
ARXX Edge	4	0.0123
	6	0.0185
	8	0.0247
	10	0.0309
ARXX Prime	6	0.0193
	8	0.0243
	10	0.0305
ARXX Steel	6	0.0185
	8	0.0247
ARXX Steel Waffle Grid	6	0.0185
	8	0.0247

Formula 2.

gross square foot of wall (GSF) - total square foot of openings (TSF) = net square foot of wall area (NSF)
 NSF X Form Concrete Factor = Volume of Concrete

example:

992 (GSF) - 122 (TSF opening) = 870 NSF
 870 X 0.0193 (ARXX Prime 6" factor) = 16.79 cuyd

Another method to calculate concrete volume is to estimate the number of forms required per the calculations identified per Formula 1 and multiple the number of forms by the concrete per form factor from Table 2.

example:

total ARXX Prime 6" forms 178 X 0.108 = 19.2 cuyd concrete.

metric conversion factor: 1 cuyd = 0.765 cuM

Redefining building.