6 INCH THICK FLAT ICF FOUNDATION WALLS [a, b, c, d, i]

MAXIMUM UNSUPPORTED WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT [f] (FEET)	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING [e, h]		
		Soil classes [g] and design lateral soil load (psf per foot of depth)		
		GW, GP, SW and SP 30	GM, GC, SM, SM-SC and ML 45	SC, ML-CL and Inorganic CL 60
8' – 0"	0 to 4	#4 @ 48"	#4 @ 48"	#4 @ 32", #5 @ 48"
	5 and 6	#4 @ 32", #5 @ 48"	#4 @ 24", #5 @ 40"	#5 @ 32", #6 @ 40"
	7	#4 @ 24", #5 @ 40"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	8	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
9' – 4"	0 to 4	#4 @ 48"	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"
	5 and 6	#4 @ 32", #5 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	7 and 8	#5 @ 32", #6 @ 40"	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"
	9 – 4"	#5 @ 24", #6 @ 32"	#5 @ 8", #6 @ 16"	#5 @ 8"
10' – 0"	0 to 4	#4 @ 48"	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"
	5 and 6	#4 @ 32", #5 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	7 and 8	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @1 6"
	9 and 10	#5 @16", #6 @ 24"	#5 @ 8", #6 @ 16"	#5 @ 8"
11	0 to 4	#4 @ 40"	#4 @ 32	#4 @ 32", #5 @ 48"
	5 and 6	#4 @ 24", #5 @ 32"	#4 @ 24", #5 @ 32"	#5 @ 24", #6 @ 32"
	7 and 8	#5 @ 24", #6 @ 32"	#5 @16", #6 @ 24"	#5 @ 8", #6 @ 16"
	9 and 10	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"	#6 @ 8"
	11	#5 @ 8", #6 @ 16"	#6 @ 8"	**D. R.**
12	0 to 4	#4 @ 32", #5 @ 48"	#4 @ 32", #5 @ 48"	#4 @ 24", #5 @ 40"
	5 and 6	#4 @ 24", #5 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 24", #6 @ 32"
	7 and 8	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"
	9 and 10	#5 @ 16", #6 @ 24"	#5 @ 8"	#6 @ 8"
	11 and 12	#5 @ 8"	#6 @ 8"	**D. R.**

D.R. = Design required by Engineer of Record

a. This table is based on concrete with a minimum specified concrete strength of 2500 psi, reinforcing steel with a minimum yield strength of 60,000 psi.
b. Minimum effective depth, D (outer face of concrete to bar centerline) = 4". See wall section on Sheet No. 2.
c. This table is designed with the top of wall braced by the adequate diaphragm of floor or roof structure, and the base of the wall braced by the floor slab or adequate grade beams.
d. Deflection criteria: L/240, No soil surcharge. Wind load = 30 psf above grade. Maximum vertical bearing load less than 3.5 kips per foot at top of wall.
e. Interpolation between rebar sizes and spacing is not permitted.
f. Unbalanced back fill height is the difference in height of the exterior and interior finished ground. Where walls retain 4 feet or more of unbalanced backfill, they shall be laterally supported a the top and bottom before backfilling.
g. Soil classes are in accordance with the Unified Soil Classifications System. Refer to 2015 IRC Table R405.1. The use of this table shall be prohibited for soil classifications not shown.
h. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing – See Sheet No. 2.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

4 INCH AND 6 INCH THICK ICF FLAT ABOVE GRADE WALLS

MAXIMUM WIND SPEED (mph)			MAXIMUM UNSUPPORTED WALL HEIGHT PER STORY (feet)	MINIMUM VERTICAL REINFORCEMENT BAR SIZE AND SPACING (inches) [f, h]			
				Nominal Wall thickness (inches)			
Exposure Category				4		6	
B	C	D		Top [g]	Side [g]	Top [g]	Side [g]
115			12	#4 @ 16”	#4 @ 16”	#4 @ 40”	#4 @ 32”
			13	**D.R.**	**D.R.**	#4 @ 32”	#4 @ 24”
			14	**E.D.L.**	**E.D.L.**	#4 @ 24”	#5 @ 24”
			15	**E.D.L.**	**E.D.L.**	#5 @ 24”	#5 @ 24”
120			12	#4 @ 16”	#4 @ 16”	#4 @ 40”	#4 @ 32”
			13	**D.R.**	**D.R.**	#4 @ 32”	#4 @ 24”
			14	**E.D.L.**	**E.D.L.**	#4 @ 24”	#5 @ 24”
			15	**E.D.L.**	**E.D.L.**	#5 @ 24”	#5 @ 24”
130	115		12	#4 @ 16”	#4 @ 8”	#4 @ 32”	#4 @ 24”
			13	**D.R.**	**D.R.**	#4 @ 24”	#4 @ 24”
			14	**E.D.L.**	**E.D.L.**	#5 @ 24”	#5 @ 24”
			15	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
140	120	115	12	#4 @ 16”	#4 @ 8”	#4 @ 24”	#5 @ 24”
			13	**D.R.**	**D.R.**	#5 @ 32”	#5 @ 24”
			14	**E.D.L.**	**E.D.L.**	#5 @ 24”	#5 @ 24”
			15	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
150	130	120	12	#4 @ 8”	#4 @ 8”	#4 @ 24”	#5 @ 24”
			13	**D.R.**	**D.R.**	#5 @ 32”	#5 @ 24”
			14	**E.D.L.**	**E.D.L.**	#5 @ 24”	#5 @ 16”
			15	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
160	140	130	12	#4 @ 8”	#4 @ 8”	#5 @ 32”	#5 @ 24”
			13	**D.R.**	**D.R.**	#5 @ 24”	#5 @ 24”
			14	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
			15	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
170	150	140	12	**D.R.**	**D.R.**	#5 @ 24”	#5 @ 24”
			13	**D.R.**	**D.R.**	#5 @ 16”	#5 @ 16”
			14	**E.D.L.**	**E.D.L.**	#5 @ 16”	#5 @ 16”
			15	**E.D.L.**	**E.D.L.**	#6 @ 16”	#6 @ 16”
180	160	150	12	**D.R.**	**D.R.**	#5 @ 16”	#5 @ 16”
			13	**D.R.**	**D.R.**	#5 @ 16”	#5 @ 16”
			14	**E.D.L.**	**E.D.L.**	#6 @ 16”	#6 @ 16”
			15	**E.D.L.**	**E.D.L.**	#5 @ 8”	#5 @ 8”

D.R. = Design required by Engineer of Record E.D.L= Exceed Deflection Limitation

a. Table is based on ASCE 7-10 components and cladding wind pressures for an enclosed building using a mean roof height of 35 feet, interior wall area 4, an effective wind area of 10 square feet, topographic factor, K, equal to 1.0, and Risk Category II.
b. Table is based on concrete with a minimum specified compressive strength of 2,500 psi.
c. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi. Vertical rebar shall be located at center of each wall.
d. Deflection criterion is L/240, where L is the unsupported height of the wall in inches.
e. Interpolation is not permitted.
f. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing – See Sheet No. 15 and 16.
g. “Top” means gravity load from roof or floor construction bear on top of wall. “Side” means gravity load from floor construction is transferred to wall from a wood ledger or cold-formed steel track bolted to side of wall. For nonload-bearing walls where floor framing members span parallel to the wall, use of “Top” bearing condition is permitted. (See Sheet No. 15 and 16)
h. See IRC 2015 Section R608 for exterior concrete wall construction.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

8 INCH THICK FLAT ICF FOUNDATION WALLS REINFORCING [a, b, c, d, i]

MAXIMUM UNSUPPORTED WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT [f] (FEET)	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING [e, h] Soil classes [g] and design lateral soil load (psf per foot of depth)		
		GW, GP, SW and SP 30	GM, GC, SM, SM-SC and ML 45	SC, ML-CL and Inorganic CL 60
8' – 0"	0 to 4	#4 @ 48"	#4 @ 48"	#4 @ 48"
	5 and 6	#4 @ 48"	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"
	7	#4 @ 40", #5 @ 48"	#4 @ 24", #5 @ 40"	#5 @ 32", #6 @ 40"
	8	#4 @ 32", #5 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
9' – 4"	0 to 4	#4 @ 48"	#4 @ 48"	#4 @ 48"
	5 and 6	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"	#4 @ 24", #5 @ 40"
	7 and 8	#4 @ 24", #5 @ 40"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	9' – 4"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
10' – 0"	0 to 4	#4 @ 48"	#4 @ 48"	#4 @ 48"
	5 and 6	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"	#4 @ 24", #5 @ 32"
	7 and 8	#4 @ 24", #5 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
	9 and 10	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @24"	#5 @ 8", #6 @ 16"
12	0 to 4	#4 @ 48"	#4 @ 48"	#4 @ 40", #5 @ 48"
	5 and 6	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"	#5 @ 32", #6 @ 40"
	7 and 8	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
	9 and 10	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"
	11 and 12	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"	#6 @ 8"
14	0 to 4	#4 @ 40", #5 @ 48"	#4 @ 32", #5 @ 48"	#4 @ 32", #5 @ 48"
	5 and 6	#4 @ 32", #5 @ 48"	#5 @ 40", #6 @ 48"	#5 @ 32", #6 @ 40"
	7 and 8	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
	9 and 10	#5 @ 16", #6 @ 24"	#6 @ 16"	#5 @ 8"
	11 and 12	#6 @ 16"	#5 @ 8"	#6 @ 8"
	13 and 14	#5 @ 8"	#6 @ 8"	**D. R.**

D.R. = Design required by Engineer of Record

a. This table is based on concrete with a minimum specified concrete strength of 2500 psi, reinforcing steel with a minimum yield strength of 60,000 psi.
b. Minimum effective depth, D (outer face of concrete to bar centerline) = 6". See wall section on Sheet No. 4.
c. This table is designed with the top of wall braced by the adequate diaphragm of floor or roof structure, and the base of the wall braced by the floor slab or adequate grade beams.
d. Deflection criteria: L/240, No soil surcharge. Wind load = 30 psf above grade. Maximum vertical bearing load less than 5 kips per foot at top of wall.
e. Interpolation between rebar sizes and spacing is not permitted.
f. Unbalanced back fill height is the difference in height of the exterior and interior finished ground. Where walls will retain 4 feet or more of unbalanced backfill, they shall be laterally supported at the top and bottom before backfilling.
g. Soil classes are in accordance with the Unified Soil Classifications System. Refer to 2015 IRC Table R405.1. The use of this table shall be prohibited for soil classifications not shown.
h. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing – See Sheet No. 4.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

8 INCH AND 10 INCH THICK ICF FLAT ABOVE GRADE WALLS [a, b, c, d, e]

MAXIMUM WIND SPEED (mph)			MAXIMUM UNSUPPORTED WALL HEIGHT PER STORY (feet)	MINIMUM VERTICAL REINFORCEMENT BAR SIZE AND SPACING (inches) [f, h]			
				Nominal Wall thickness (inches)			
Exposure Category				8		10	
B	C	D		Top [g]	Side [g]	Top [g]	Side [g]
115			up to 10	#4 @ 48”	#4 @ 48”	#5 @ 48”	#5 @ 48”
			11 – 12	#4 @ 48”	#4 @ 40”	#5 @ 48”	#5 @ 48”
			13 – 14	#4 @ 40”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			15 – 16	#4 @ 32”	#5 @ 32”	#5 @ 48”	#5 @ 48”
120			up to 10	#4 @ 48”	#4 @ 48”	#5 @ 48”	#5 @ 48”
			11 – 12	#4 @ 48”	#4 @ 40”	#5 @ 48”	#5 @ 48”
			13 – 14	#4 @ 40”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			15 – 16	#4 @ 32”	#5 @ 32”	#5 @ 48”	#5 @ 48”
130	115		up to 10	#4 @ 48”	#4 @ 48”	#5 @ 48”	#5 @ 48”
			11 – 12	#4 @ 48”	#4 @ 40”	#5 @ 48”	#5 @ 48”
			13 – 14	#4 @ 32”	#5 @ 40”	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 40”	#5 @ 32”	#5 @ 48”	#5 @ 40”
140	120	115	up to 10	#4 @ 48”	#4 @ 40”	#5 @ 48”	#5 @ 48”
			11 – 12	#4 @ 40”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 40”	#5 @ 32”	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 32”	#5 @ 24”	#5 @ 48”	#5 @ 40”
150	130	120	up to 10	#4 @ 48”	#4 @ 40”	#5 @ 48”	#5 @ 48”
			11 – 12	#4 @ 40”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 40”	#5 @ 32”	#5 @ 48”	#5 @ 40”
			15 – 16	#5 @ 24”	#5 @ 24”	#5 @ 40”	#5 @ 32”
160	140	130	up to 10	#4 @ 48”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			11 – 12	#5 @ 48”	#5 @ 40”	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 32”	#5 @ 32”	#5 @ 48”	#5 @ 40”
			15 – 16	#5 @ 24”	#6 @ 24”	#5 @ 40”	#5 @ 32”
170	150	140	up to 10	#4 @ 40”	#4 @ 32”	#5 @ 48”	#5 @ 48”
			11 – 12	#5 @ 40”	#5 @ 32”	#5 @ 48”	#5 @ 40”
			13 – 14	#5 @ 24”	#5 @ 24”	#5 @ 40”	#5 @ 32”
			15 – 16	#6 @ 24”	#6 @ 24”	#5 @ 32”	#6 @ 32”
180	160	150	up to 10	#4 @ 32”	#5 @ 32"	#5 @ 48”	#5 @ 48”
			11 – 12	#5 @ 32”	#5 @ 24”	#5 @ 48”	#5 @ 40”
			13 – 14	#6 @ 32”	#6 @ 24”	#5 @ 32”	#5 @ 32”
			15 – 16	#6 @ 24”	#6 @ 16”	#6 @ 32”	#6 @ 32”

a. Table is based on ASCE 7-10 components and cladding wind pressures for an enclosed building using a mean roof height of 35 feet, interior wall area 4, an effective wind area of 10 square feet, topographic factor, K, equal to 1.0, and Risk Category II.
b. Table is based on concrete with a minimum specified compressive strength of 2,500 psi.
c. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi. Vertical rebar shall be located at center of each wall.
d. Deflection criterion is L/240, where L is the unsupported height of the wall in inches.
e. Interpolation is not permitted.
f. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing - See Sheet No. 15 and 16.
g. “Top” means gravity load from roof or floor construction bear on top of wall. “Side” means gravity load from floor construction is transferred to wall from a wood ledger or cold-formed steel track bolted to side of wall. For nonload-bearing walls where floor framing members span parallel to the wall, use of “Top” bearing condition is permitted. (See Sheet No. 15 and 16)
h. See IRC 2015 Section R608 for exterior concrete wall construction.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

8 INCH AND 10 INCH THICK ICF FLAT ABOVE GRADE WALLS [a, b, c, d, e]

MAXIMUM WIND SPEED (mph)			MAXIMUM UNSUPPORTED WALL HEIGHT PER STORY (feet)	MINIMUM VERTICAL REINFORCEMENT BAR SIZE AND SPACING (inches) [f, h]			
				Nominal Wall thickness (inches)			
Exposure Category				8		10	
B	C	D		Top [g]	Side [g]	Top [g]	Side [g]
115			17 – 18	#5 @ 32”	#5 @ 24”	#5 @ 48”	#5 @ 40”
			19 – 20	#5 @ 24”	#6 @ 24”	#5 @ 40”	#5 @ 32”
			21 – 22	**D.R.**	**D.R.**	#5 @ 32”	#6 @ 32”
			23 – 24	**D.R.**	**D.R.**	#6 @ 32”	#6 @ 32”
120			17 – 18	#5 @ 32”	#5 @ 24”	#5 @ 48”	#5 @ 40”
			19 – 20	#5 @ 24”	#6 @ 24”	#5 @ 40”	#5 @ 32”
			21 – 22	**D.R.**	**D.R.**	#6 @ 32”	#6 @ 32”
			23 – 24	**D.R.**	**D.R.**	#6 @ 32”	#6 @ 24”
130	115		17 – 18	#5 @ 24”	#6 @ 24”	#5 @ 40”	#5 @ 32”
			19 – 20	#6 @ 24”	#6 @ 24”	#5 @ 32”	#6 @ 32”
			21 – 22	**D.R.**	**D.R.**	#6 @ 32”	#6 @ 24”
			23 – 24	**D.R.**	**D.R.**	#6 @ 24”	#6 @ 24”
140	120	115	17 – 18	#5 @ 24”	#6 @ 24”	#5 @ 32”	#6 @ 32”
			19 – 20	#6 @ 24”	#6 @ 16”	#6 @ 32”	#6 @ 32”
			21 – 22	**D.R.**	**D.R.**	#6 @ 24”	#6 @ 24”
			23 – 24	**D.R.**	**D.R.**	#7 @ 24”	#7 @ 24”
150	130	120	17 – 18	#6 @ 24”	#6 @ 24”	#5 @ 32”	#6 @ 32”
			19 – 20	#6 @ 24”	#6 @ 16”	#6 @ 32”	#6 @ 24”
			21 – 22	**D.R.**	**D.R.**	#6 @ 24”	#6 @ 24”
			23 – 24	**D.R.**	**D.R.**	#7 @ 24”	#7 @ 24”
160	140	130	17 – 18	#6 @ 24”	#6 @ 24”	#6 @ 32”	#6 @ 32”
			19 – 20	#6 @ 16”	#6 @ 16”	#6 @ 24”	#6 @ 24”
			21 – 22	**D.R.**	**D.R.**	#7 @ 24”	#7 @ 24”
			23 – 24	**D.R.**	**D.R.**	#7 @ 24”	#6 @ 16”
170	150	140	17 – 18	#6 @ 16”	#6 @ 16”	#6 @ 32”	#6 @ 24”
			19 – 20	#6 @ 16”	#5 @ 8”	#6 @ 24”	#7 @ 24”
			21 – 22	**D.R.**	**D.R.**	#7 @ 24”	#7 @ 24”
			23 – 24	**D.R.**	**D.R.**	#8 @ 24”	#8 @ 24”
180	160	150	17 – 18	#6 @ 16”	#6 @ 16”	#6 @ 24”	#6 @ 24”
			19 – 20	#5 @ 8”	#5 @ 8”	#7 @ 24”	#7 @ 24”
			21 – 22	**D.R.**	**D.R.**	#8 @ 24”	#8 @ 24”
			23 – 24	**D.R.**	**D.R.**	#7 @ 16”	#7 @ 16”

D.R. = Design required by Engineer of Record

a. Table is based on ASCE 7-10 components and cladding wind pressures for an enclosed building using a mean roof height of 35 feet, interior wall area 4, an effective wind area of 10 square feet, topographic factor, K, equal to 1.0, and Risk Category II.
b. Table is based on concrete with a minimum specified compressive strength of 2,500 psi.
c. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi. Vertical rebar shall be located at center of each wall.
d. Deflection criterion is L/240, where L is the unsupported height of the wall in inches.
e. Interpolation is not permitted.
f. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing - See Sheet No. 15 and 16.
g. “Top” means gravity load from roof or floor construction bear on top of wall. “Side” means gravity load from floor construction is transferred to wall from a wood ledger or cold-formed steel track bolted to side of wall. For nonload-bearing walls where floor framing members span parallel to the wall, use of “Top” bearing condition is permitted. (See Sheet No. 15 and 16)
h. See IRC 2015 Section R608 for exterior concrete wall construction.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

10 INCH THICK FLAT ICF FOUNDATION WALLS [a, b, c, d, i]

MAXIMUM UNSUPPORTED WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT [f] (FEET)	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING [e, h]		
		Soil classes [g] and design lateral soil load (psf per foot of depth)		
		GW, GP, SW and SP 30	GM, GC, SM, SM-SC and ML 45	SC, ML-CL and Inorganic CL 60
8' – 0"	0 to 4	#5 @ 48"	#5 @ 48"	#5 @ 48"
	5 and 6	#5 @ 48"	#5 @ 48"	#5 @ 48"
	7 and 8	#5 @ 48"	#5 @ 40"	#5 @ 32", #6 @ 40"
9' – 4"	0 to 4	#5 @ 48"	#5 @ 48"	#5 @ 48"
	5 and 6	#5 @ 48"	#5 @ 48"	#5 @ 48"
	7 and 8	#5 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	9' – 4"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
10' – 0"	0 to 4	#5 @ 48"	#5 @ 48"	#5 @ 48"
	5 and 6	#5 @ 48"	#5 @ 48"	#5 @ 40"
	7 and 8	#5 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	9 and 10	#5 @ 32", #6 @ 40"	#5 @24", #6 @ 32"	#5 @ 16", #6 @ 24"
12' – 0"	0 to 4	#5 @ 48"	#5 @ 48"	#5 @ 48"
	5 and 6	#5 @ 48"	#5 @ 48"	#5 @ 40"
	7 and 8	#5 @ 40"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	9 and 10	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"	#6 @ 16", #7 @ 24"
	11 and 12	#5 @ 16", #6 @ 24"	#6 @ 16", #7 @ 24"	#5 @ 8", #7 @ 16"
14' – 0"	0 to 6	#5 @ 48"	#5 @ 40", #6 @ 48"	#5 @ 32", #6 @ 40"
	7 and 8	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
	9 and 10	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"	#6 @ 16", #7 @ 24"
	11 and 12	#5 @ 16", #6 @ 24"	#5 @ 8", #6 @ 16"	#5 @ 8", #7 @ 16"
	13 and 14	#6 @ 16", #7 @ 24"	#5 @ 8", #7 @ 16"	#6 @ 8"
16' – 0"	0 to 6	#5 @ 40", #6 @ 48"	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"
	7 and 8	#5 @ 32", #6 @ 40"	#5 @ 24", #6 @ 32"	#5 @ 16", #6 @ 24"
	9 and 10	#5 @ 16", #6 @ 24"	#6 @ 16", #7 @ 24"	#7 @ 16", #8 @ 24"
	11 and 12	#6 @ 16", #6 @ 24"	#7 @ 16", #8 @ 24"	#6 @ 8", #8 @ 16"
	13 and 14	#7 @ 16", #8 @ 24"	#6 @ 8", #8 @ 16"	#7 @ 8"
	15 and 16	#5 @ 8", #7 @ 16"	#7 @ 8"	**D.R.**

D.R. = Design required by Engineer of Record

a. This table is based on concrete with a minimum specified concrete strength of 2500 psi and reinforcing steel with yield strength of 60,000 psi.
b. Minimum effective depth, D (outer face of concrete to bar centerline) = 7 5/8". See wall section on Sheet No. 6.
c. This table is designed with the top of wall braced by the adequate diaphragm of floor or roof structure, and the base of the wall braced by the floor slab or adequate grade beams.
d. Deflection criteria: L/240, No soil surcharge. Wind load = 30 psf above grade. Maximum vertical bearing load less than 7 kips per foot at top of wall.
e. Interpolation between rebar sizes and spacing is not permitted.
f. Unbalanced back fill height is the difference in height of the exterior and interior finished ground. Where walls retain 4 feet or more of unbalanced backfill, they shall be laterally supported a the top and bottom before backfilling.
g. Soil classes are in accordance with the Unified Soil Classifications System. Refer to 2015 IRC Table R405.1. The use of this table shall be prohibited for soil classifications not shown.
h. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing – See Sheet No. 6.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record

12 INCH THICK FLAT ICF FOUNDATION WALLS [a, b, c, d, i]

MAXIMUM UNSUPPORTED WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT [f] (FEET)	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING [e, h]		
		Soil classes [g] and design lateral soil load (psf per foot of depth)		
		GW, GP, SW and SP 30	GM, GC, SM, SM-SC and ML 45	SC, ML-CL and Inorganic CL 60
10	0 – 6	#5 @ 48”	#5 @ 48”	#5 @ 40”
	7 – 8	#5 @ 48”	#5 @ 40”	#5 @ 32”
	9 – 10	#5 @ 40”	#5 @ 24”	#6 @ 24”
12	0 – 6	#5 @ 48”	#5 @ 48”	#5 @ 40”
	7 – 8	#5 @ 40”	#5 @ 32”	#5 @ 24”, #6 @ 32”
	9 – 10	#5 @ 32”	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”
	11 – 12	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24”
14	0 – 6	#5 @ 48”	#5 @ 48”	#5 @ 40”
	7 – 8	#5 @ 40”	#5 @ 32”	#5 @ 24”, #6 @ 32”
	9 – 10	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24”
	11 – 12	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24”	#7 @ 16”, #8 @ 24”
	13 – 14	#6 @ 16”, #7 @ 24”	#7 @ 16”, #8 @ 24”	#6 @ 8”, #8 @ 16”
16	0 – 6	#5 @ 48”	#5 @ 40”	#5 @ 32”
	7 – 8	#5 @ 32”	#5 @ 24”, #6 @ 32”	#5 @ 24”, #6 @ 32”
	9 – 10	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24”
	11 – 12	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24”	#7 @ 16”, #8 @ 24”
	13 – 14	#6 @ 16”, #7 @ 24”	#7 @ 16”	#6 @ 8”, #8 @ 16”
	15 – 16	#7 @ 16”, #8 @ 24”	#6 @ 8”, #8 @ 16”	#7 @ 8”
18	0 – 6	#5 @ 40”	#5 @ 40”	#5 @ 32”
	7 – 8	#5 @ 32”	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”
	9 – 10	#5 @ 24”, #6 @ 32”	#6 @ 24”, #7 @ 32”	#6 @ 16”, #7 @ 24””
	11 – 12	#6 @ 24”, #7 @ 32”	#6 @ 16”	#7 @16”
	13 – 14	#6 @ 16”	#6 @ 8”, #8 @ 16”	#7 @ 8”
	15 – 16	#7 @ 16”	#7 @ 8”	#8 @ 8”
	17 - 18	#6 @ 8”, #8 @ 16”	#7 @ 8”	**D.R.**
20	0 – 6	#5 @ 40”	#5 @ 32”	#5 @ 24”
	7 – 8	#5 @ 32”	#6 @ 24”, #7 @ 32”	#6 @ 24”, #7 @ 32”
	9 – 10	#6 @ 24”	#6 @ 16”, #7 @ 24”	#6 @ 16”, #7 @ 24””
	11 12	#7 @ 24”	#7 @ 16”, #8 @ 24”	#6 @ 8”, #8 @ 16”
	13 - 14	#7 @ 16”, #8 @ 24”	#6 @ 8”, #8 @ 16”	#7 @ 8”
	15 - 16	#8 @ 16”	#7 @ 8”	#8 @ 8”
	17 - 18	#6 @ 8”	#8 @8”	**D.R.**
	19 - 20	#7 @ 8”	**D.R.**	**D.R.**

D.R. = Design required by Engineer of Record

a. This table is based on concrete with a minimum specified concrete strength of 2500 psi and reinforcing steel with yield strength of 60,000 psi.
b. Minimum effective depth, D (outer face of concrete to bar centerline) = 9”. See wall section on Sheet No. 8.
c. This table is designed with the top of wall braced by the adequate diaphragm of floor or roof structure, and the base of the wall braced by the floor slab or adequate grade beams.
d. Deflection criteria: L/240, No soil surcharge. Wind load = 30 psf above grade. Maximum vertical bearing load less than 10.0 kips per foot at top of wall.
e. Interpolation between rebar sizes and spacing is not permitted.
f. Unbalanced back fill height is the difference in height of the exterior and interior finished ground. Where walls retain 4 feet or more of unbalanced backfill, they shall be laterally supported a the top and bottom before backfilling.
g. Soil classes are in accordance with the Unified Soil Classifications System. Refer to 2015 IRC Table R405.1. The use of this table shall be prohibited for soil classifications not shown.
h. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing – See Sheet No. 8.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

12 INCH THICK ICF FLAT ABOVE GRADE WALLS [a, b, c, d, e]

MAXIMUM WIND SPEED (mph)			MAXIMUM UNSUPPORTED WALL HEIGHT PER STORY (feet)	MINIMUM VERTICAL REINFORCEMENT BAR SIZE AND SPACING (inches) [f, h]	
Exposure Category				Nominal Wall thickness (inches)	
B	C	D		Top [g]	Side [g]
115 and 120			up to 12	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 48”	#5 @ 48”
			17 – 18	#5 @ 48”	#5 @ 48”
			19 – 20	#5 @ 48”	#5 @ 40”
130	115		up to 12	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 48”	#5 @ 40”
			17 – 18	#5 @ 48”	#5 @ 40”
			19 – 20	#5 @ 40”	#6 @ 32”
140	120	115	up to 12	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 48”	#5 @ 40”
			17 – 18	#5 @ 40”	#5 @ 32”
			19 – 20	#5 @ 32”	#6 @ 32”
150	130	120	up to 12	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 48”	#5 @ 48”
			15 – 16	#5 @ 48”	#5 @ 40”
			17 – 18	#5 @ 40”	#5 @ 32”
			19 – 20	#6 @ 32”	#6 @ 32”
160	140	130	up to 12	#5 @ 48”	#5 @ 48”
			13 – 14	#5 @ 48”	#5 @ 40”
			15 – 16	#5 @ 40”	#5 @ 32”
			17 – 18	#5 @ 32”	#6 @ 32”
			19 – 20	#6 @ 32”	#6 @ 24”
170	150	140	up to 12	#5 @ 48”	#5 @ 40”
			13 – 14	#5 @ 40”	#5 @ 32”
			15 – 16	#5 @ 32”	#6 @ 32”
			17 – 18	#6 @ 32”	#6 @ 32”
			19 – 20	#6 @ 24”	#6 @ 24”
180	160	150	up to 12	#5 @ 48”	#5 @ 40”
			13 – 14	#5 @ 40”	#5 @ 32”
			15 – 16	#6 @ 32”	#6 @ 32”
			17 – 18	#6 @ 32”	#6 @ 32”
			19 – 20	#6 @ 24”	#6 @ 24”

a. Table is based on ASCE 7-10 components and cladding wind pressures for an enclosed building using a mean roof height of 35 feet, interior wall area 4, an effective wind area of 10 square feet, topographic factor, K, equal to 1.0, and Risk Category II.
b. Table is based on concrete with a minimum specified compressive strength of 2,500 psi.
c. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi. Vertical rebar shall be located at center of each wall.
d. Deflection criterion is L/240, where L is the unsupported height of the wall in inches.
e. Interpolation is not permitted.
f. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing - See Sheet No. 15 and 16.
g. “Top” means gravity load from roof or floor construction bear on top of wall. “Side” means gravity load from floor construction is transferred to wall from a wood ledger or cold-formed steel track bolted to side of wall. For nonload-bearing walls where floor framing members span parallel to the wall, use of “Top” bearing condition is permitted. (See Sheet No. 15 and 16)
h. See IRC 2015 Section R608 for exterior concrete wall construction.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.

12 INCH THICK ICF FLAT ABOVE GRADE WALLS [a, b, c, d, e]

MAXIMUM WIND SPEED (mph)			MAXIMUM UNSUPPORTED WALL HEIGHT PER STORY (feet)	MINIMUM VERTICAL REINFORCEMENT BAR SIZE AND SPACING (inches) [f, h]	
Exposure Category				Nominal Wall thickness (inches)	
B	C	D		Top [g]	Side [g]
115 and 120			21 – 22	#5 @ 40”	#5 @ 32”
			23 – 24	#5 @ 32”	#6 @ 32”
			25 – 26	#6 @ 32”	#6 @ 24”
			27 – 28	#6 @ 24”	#6 @ 24”
			29 – 30	#7 @ 24”	#7 @ 24”
130	115		21 – 22	#5 @ 32”	#6 @ 32”
			23 – 24	#6 @ 32”	#6 @ 24”
			25 – 26	#6 @ 24”	#6 @ 24”
			27 – 28	#7 @ 24”	#7 @ 24”
			29 – 30	#6 @ 16”	#6 @ 16”
140	120	115	21 – 22	#6 @ 32”	#6 @ 32”
			23 – 24	#6 @ 24”	#6 @ 24”
			25 – 26	#7 @ 24”	#7 @ 24”
			27 – 28	#7 @ 24”	#7 @ 24”
			29 – 30	#8 @ 24”	#8 @ 24”
150	130	120	21 – 22	#6 @ 32”	#6 @ 32”
			23 – 24	#6 @ 24”	#6 @ 24”
			25 – 26	#7 @ 24”	#7 @ 24”
			27 – 28	#8 @ 24”	#8 @ 24”
			29 – 30	#8 @ 24”	#7 @ 16”
160	140	130	21 – 22	#6 @ 24”	#6 @ 24”
			23 – 24	#6 @ 24”	#7 @ 24”
			25 – 26	#7 @ 24”	#8 @ 24”
			27 – 28	#8 @ 24”	#8 @ 24”
			29 – 30	#7 @ 16”	#8 @16”
170	150	140	21 – 22	#6 @ 24”	#7 @ 24”
			23 – 24	#7 @ 24”	#7 @ 24”
			25 – 26	#8 @ 24”	#8 @ 24”
			27 – 28	#7 @ 16”	#7 @16”
			29 – 30	#8 @ 16”	#8 @16”
180	160	150	21 – 22	#7 @ 24”	#7 @ 24”
			23 – 24	#7 @ 24”	#8 @ 24”
			25 – 26	#8 @ 24”	#8 @ 16”
			27 – 28	#8 @ 16”	#8 @ 16”
			29 – 30	#6 @ 8”	#6 @ 8”

a. Table is based on ASCE 7-10 components and cladding wind pressures for an enclosed building using a mean roof height of 35 feet, interior wall area 4, an effective wind area of 10 square feet, topographic factor, K, equal to 1.0, and Risk Category II.
b. Table is based on concrete with a minimum specified compressive strength of 2,500 psi.
c. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi. Vertical rebar shall be located at center of each wall.
d. Deflection criterion is L/240, where L is the unsupported height of the wall in inches.
e. Interpolation is not permitted.
f. Rebar lap splice length shall be 60 times the bar diameter, and horizontal reinforcing - See Sheet No. 15 and 16.
g. “Top” means gravity load from roof or floor construction bear on top of wall. “Side” means gravity load from floor construction is transferred to wall from a wood ledger or cold-formed steel track bolted to side of wall. For nonload-bearing walls where floor framing members span parallel to the wall, use of “Top” bearing condition is permitted. (See Sheet No. 15 and 16)
h. See IRC 2015 Section R608 for exterior concrete wall construction.
i. This table is not intended to prohibit the use of engineering design by Engineer of Record.