MIKEY BLOCK™

Easy to Build.
Tough to Beat.

Mikey Block Wall Reinforcement Recommendations[1]					
Design Wind Speed (mph)	**Maximum Unsupported Wall Height (feet)**	**Minimum Reinforcement Size and Spacing**			
		Vertical			**Horizontal**
		Nonload-Bearing Wall or Supporting Roof	**Supporting Light-Framed Second Story & Roof**	**Supporting ICF Second Story & Roof**	**All Cases**
90	8	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	9	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	10	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	11	#4 @ 36"	#4 @ 36"	#4 @ 36"	#4 @ 36"
	12	#4 @ 24"	#4 @ 24"	#4 @ 24"	#4 @ 24"
	>12	Design required	Design required	Design required	Design required
110	8	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	9	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	10	#4 @ 36"; #5 @ 48"	#4 @ 36"; #5 @ 48"	#4 @ 48"	#4 @ 48"
	11	Design required	Design required	#4 @ 36"	#4 @ 36"
	12	Design required	Design required	#4 @ 24"	#4 @ 24"
	>12	Design required	Design required	Design required	Design required
130	8	#4 @ 48"	#4 @ 48"	#4 @ 48"	#4 @ 48"
	9	#4 @ 36"; #5 @ 48"	#4 @ 36"; #5 @ 48"	#4 @ 36"; #5 @ 48"	#4 @ 48"
	10	#4 @ 24"; #5 @ 48"	#4 @ 24"; #5 @ 48"	#4 @ 24"; #5 @ 48"	#4 @ 48"
	11	Design required	Design required	Design required	#4 @ 36"
	12	Design required	Design required	Design required	#4 @ 24"
	>12	Design required	Design required	Design required	Design required

Also refer to 2006 IRC, page 197

[1]Assumes 40,000 psi rebar. Reinforcement distance can be increased by 12" O/C by using 60,000 psi rebar.

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Basement Wall Reinforcement Table[1]			
Height of Basement Wall (feet)	**Maximum Unbalanced Backfill Height (feet)**	**Minimum Reinforcement Size and Spacing**	
		Vertical	**Horizontal**
8	4	#4 @ 48"	#4 @ 48" & within 12" of top of wall
	5	#3 @12"; #4 @ 24"	#4 @ 48" & within 12" of top of wall
	6	#4 @ 12"	#4 @ 48" & within 12" of top of wall
	7	#4 @ 12"	#4 @ 48" & within 12" of top of wall
9	4	#4 @ 48"	#4 @ 48" & within 12" of top of wall
	5	#3 @ 12"; #5 @ 24"	#4 @ 48" & within 12" of top of wall
	6	#4 @ 12"	#4 @ 48" & within 12" of top of wall
	7	Design Required	#4 @ 48" & within 12" of top of wall
	>7	Design Required	#4 @ 36" & within 12" of top of wall
10	4	#4 @ 48"	#4 @ 48" & within 12" of top of wall
	5	#3 @ 12"	#4 @ 48" & within 12" of top of wall
	6	#4 @ 12"	#4 @ 48" & within 12" of top of wall
	7	Design Required	#4 @ 48" & within 12" of top of wall
	>7	Design Required	#4 @ 36" & within 12" of top of wall
>10	Any	Design Required	#4 @ 36" & within 12" of top of wall

Also refer to 2006 IRC, page 93.

[1]Assumes 40,000 psi rebar. Reinforcement distance can be increased by 12" O/C by using 60,000 psi rebar.

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Lintels In Load-Bearing Walls

Lintel Depth (inches)[A]	Lintel Construction[B]	Maximum Clear Span (feet-inches)					
		Supporting Roof Only		Supporting Light-framed Second Story & Roof		Supporting ICF Second Story & Roof	
		Maximum Ground Snow Load (psf)					
		30	70	30	70	30	70
12	None Required	2'	2'	2'	2'	2'	2'
	No. 4 Top and Bottom, No Stirrups	3' 7"	2' 10"	2' 5"	2' 0"	2' 0"	2' 0"
	No. 4 Top and Bottom, using Mikey Lintel Block & Stirrups	6' 8"	5' 5"	5' 0"	4' 5"	4' 6"	4' 1"
24	No. 4 Top and Bottom, No Stirrups	4' 4"	4' 4"	4' 4"	4' 4"	4' 4"	4' 4"
	No. 4 Top and Bottom, Stirrups every 12"	9' 10"	8' 1"	7' 6"	6' 7"	6' 11"	6' 2"
	No. 4 Top, No. 5 Bottom, Stirrups every 12"	12' 3"	10' 0" [C]	9' 3"	8' 3"	8' 7"	7' 8"

[A]Depth of lintel may be increased for additional strength.

[B]Horizontal rebar shall extend 24" beyond opening each direction top and bottom. Vertical No. 4 rebar shall be placed within 12" of either side of opening for the full height of the wall story.

[C]May increase maximum span to 12' 3" with a No. 7 bar at bottom.

Lintels In Nonload-Bearing Walls

Lintel Depth (inches)[A]	Lintel Construction	Maximum Clear Span (feet-inches)	
		Supporting Light-Framed Nonbearing Wall	Supporting ICF Second Story & Nonbearing Wall
12	#4 Rebar Top and Bottom, No Stirrups	5' 8"	4' 1"
24	#4 Rebar Top and Bottom, No Stirrups	16' 3"	9' 1"

[A]Depth of lintel may be increased for additional strength.