

TABLE B-3100-1
10" POLYSTEEL® PS•3100 WAFFLE GRID
8-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	45 pcf	60 pcf	100 pcf
4 ft.	#4 @ 48	#4 @ 48	#4 @ 48	#4 @ 36; #5 @ 48
5 ft.	#4 @ 48	#4 @ 36; #5 @ 48	#4 @ 36; #5 @ 48	#4 @ 24; #5 @ 36; #6 @ 48
6 ft.	#4 @ 36; #5 @ 48	#4 @ 36; #5 @ 48	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48
7 ft.	#4 @ 36; #5 @ 48	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48	#5 @ 12"; # 6 @ 12; #7 @ 24; #8 @ 36
8 ft.	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48	#6 @ 12; #7 @ 12; #8 @ 24

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
2. The reinforcement requirements listed in this table are based on Grade 60 (ASTM A 615 or ASTM A 996) rebar and 2,500 psi concrete. Basement walls in Seismic Design Category D1 and D2 areas may use the above table for designs to resist lateral soil pressure but must specify Grade 60 (ASTM A 706 for low-alloy steel) rebar and 3,000 psi for construction.
3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.

TABLE B-3100-2
10" POLYSTEEL® PS•3100 WAFFLE GRID
9-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	45 pcf	60 pcf	100 pcf
4 ft.	#4 @ 48	#4 @ 48	#4 @ 48	#4 @ 36; #5 @ 48
5 ft.	#4 @ 48	#4 @ 36; #5 @ 48	#4 @ 36; #5 @ 48	#4 @ 12; #5 @ 36; #6 @ 48
6 ft.	#4 @ 36; #5 @ 48	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48
7 ft.	#4 @ 36; #5 @ 48	#4 @ 12; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 36; #7 @ 36; #8 @ 48	#5 @ 12"; # 6 @ 12; #7 @ 24; #8 @ 36
8 ft.	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 36; #7 @ 36; #8 @ 48	#5 @ 12; #6 @ 12; #7 @ 24; #8 @ 36;	#6 @ 12; #7 @ 12; #8 @ 24
ft.9	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48	#5 @ 12; #6 @ 12; #7 @ 24; #8 @ 36;	#7 @ 12; #8 @ 12;

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
2. The reinforcement requirements listed in this table are based on Grade 60 (ASTM A 615 or ASTM A 996) rebar and 2,500 psi concrete. Basement walls in Seismic Design Category D1 and D2 areas may use the above table for designs to resist lateral soil pressure but must specify Grade 60 (ASTM A 706 for low-alloy steel) rebar and 3,000 psi for construction.
3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.

TABLE B-3100-3
10" POLYSTEEL® PS•3100 WAFFLE GRID
10-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	45 pcf	60 pcf	100 pcf
4 ft.	#4 @ 48	#4 @ 48	#4 @ 48	#4 @ 36; #5 @ 48
5 ft.	#4 @ 48	#4 @ 36; #5 @ 48	#4 @ 36; #5 @ 48	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48
6 ft.	#4 @ 36; #5 @ 48	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48
7 ft.	#4 @ 24; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36 #8 @ 48	#5 @ 12; # 6 @ 12; #7 @ 24; #8 @ 36
8 ft.	#4 @ 12; #5 @ 36; #6 @ 48	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48	#5 @ 12; #6 @ 12; #7 @ 24; #8 @ 36;	#6 @ 12; #7 @ 12; #8 @ 12
9 ft.	#4 @ 12; #5 @ 24; #6 @ 36; #7 @ 48	#5 @ 12; #6 @ 12; #7 @ 24; #8 @ 36;	#5 @ 12; #6 @ 12; #7 @ 12; #8 @ 24;	#7 @ 12; #8 @ 12;
10 ft.	#4 @ 12; #5 @ 12; #6 @ 24; #7 @ 36; #8 @ 48	#5 @ 12; #6 @ 12; #7 @ 24; #8 @ 36;	#6 @ 12; #7 @ 12; #8 @ 12	"Design Required"

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
2. The reinforcement requirements listed in this table are based on Grade 60 (ASTM A 615 or ASTM A 996) rebar and 2,500 psi concrete. Basement walls in Seismic Design Category D1 and D2 areas may use the above table for designs to resist lateral soil pressure but must specify Grade 60 (ASTM A 706 for low-alloy steel) rebar and 3,000 psi for construction.
3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.
9. "Design Required" refers to a design review by the project's structural engineer using higher compressive strength concrete then assumed for the development of this design table and / or the use of offset vertical rebar.

TABLE B-3100-4
10" POLYSTEEL® PS•3100 WAFFLE GRID
12-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	40 pcf	50 pcf	60 pcf
6 ft.	#4 @ 24	#4 @ 24	#4 @ 12	#4 @ 12
7 ft.	#4 @ 24	#4 @ 12	#4 @ 12	#4 @ 12
8 ft.	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12
9 ft.	#4 @ 12	#5 @ 12	#5 @ 12	#6 @ 12
10 ft.	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12
11 ft.	#5 @ 12	#6 @ 12	#7 @ 12	#7 @ 12
12 ft.	#6 @ 12	#6 @ 12	#7 @ 12	"Design Required"

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
2. The reinforcement requirements listed in this table are based on Grade 60 (ASTM A 615 or ASTM A 996) rebar and 2,500 psi concrete. Basement walls in Seismic Design Category D1 and D2 areas may use the above table for designs to resist lateral soil pressure but must specify Grade 60 (ASTM A 706 for low-alloy steel) rebar and 3,000 psi for construction.
3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.
9. "Design Required" refers to a design review by the project's structural engineer using higher compressive strength concrete then assumed for the development of this design table and / or the use of offset vertical rebar.

TABLE B-3100-5
10" POLYSTEEL® PS•3100 WAFFLE GRID
14-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	40 pcf	50 pcf	60 pcf
6 ft.	#4 @ 24	#4 @ 24	#4 @ 24	#4 @ 12
7 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
8 ft.	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12
9 ft.	#5 @ 12	#5 @ 12	#5 @ 12	#6 @ 12
10 ft.	#5 @ 12	#6 @ 12	#6 @ 12	#7 @ 12
11 ft.	#6 @ 12	#6 @ 12	#8 @ 12	"Design Required"
12 ft.	#6 @ 12	#7 @ 12	"Design Required"	"Design Required"
13 ft.	#7 @ 12	"Design Required"	"Design Required"	"Design Required"
14 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
2. The reinforcement requirements listed in this table are based on Grade 60 (ASTM A 615 or ASTM A 996) rebar and 2,500 psi concrete. Basement walls in Seismic Design Category D1 and D2 areas may use the above table for designs to resist lateral soil pressure but must specify Grade 60 (ASTM A 706 for low-alloy steel) rebar and 3,000 psi for construction.
3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.
9. "Design Required" refers to a design review by the project's structural engineer using higher compressive strength concrete then assumed for the development of this design table and / or the use of offset vertical rebar.

TABLE B-3100-6
10" POLYSTEEL® PS•3100 WAFFLE GRID
14-FOOT HIGH BASEMENT WALL

OFFSET⁽³⁾ VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	40 pcf	50 pcf	60 pcf
6 ft.	#4 @ 24	#4 @ 24	#4 @ 24	#4 @ 12
7 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
8 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
9 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#5 @ 12
10 ft.	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12
11 ft.	#4 @ 12	#5 @ 12	#5 @ 12	#6 @ 12
12 ft.	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12
13 ft.	#5 @ 12	#6 @ 12	#6 @ 12	#7 @ 12
14 ft.	#6 @ 12	#6 @ 12	#7 @ 12	#7 @ 12

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas:
Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas:
Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive.
Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive.
Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

NOTES:

1. This table is based on the design criteria of ACI 318-99 "Building Code Requirements for Structural Concrete"
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3. This table assumes the vertical rebar is offset from the center of the wall. Position the vertical rebar near the interior wall surface while providing 3/4" minimum concrete cover. Offset the rebar minimum 10-3/4" from exterior face of wall form.
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.

TABLE B-3100-7
10" POLYSTEEL® PS•3100 WAFFLE GRID
16-FOOT HIGH BASEMENT WALL

VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	40 pcf	50 pcf	60 pcf
8 ft.	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12
9 ft.	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12
10 ft.	#5 @ 12	#6 @ 12	#7 @ 12	#7 @ 12
11 ft.	#6 @ 12	#7 @ 12	#7 @ 12	"Design Required"
12 ft.	#7 @ 12	#7 @ 12	"Design Required"	"Design Required"
13 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"
14 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"
15 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"
16 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

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3. This table assumes the vertical rebar is placed in the center of the 14" thick PolySteel wall (d=7.00").
4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.
9. "Design Required" refers to a design review by the project's structural engineer using higher compressive strength concrete then assumed for the development of this design table and / or the use of offset vertical rebar.

TABLE B-3100-8
10" POLYSTEEL® PS•3100 WAFFLE GRID
16-FOOT HIGH BASEMENT WALL

OFFSET⁽³⁾VERTICAL (Grade 60) REBAR REQUIREMENTS*

Unbalanced Backfill Depth	Backfill Equivalent Fluid Density			
	30 pcf	40 pcf	50 pcf	60 pcf
8 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
9 ft.	#4 @ 12	#4 @ 12	#4 @ 12	#5 @ 12
10 ft.	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12
11 ft.	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12
12 ft.	#5 @ 12	#6 @ 12	#7 @ 12	#7 @ 12
13 ft.	#5 @ 12	#6 @ 12	#7 @ 12	#7 @ 12
14 ft.	#6 @ 12	#6 @ 12	#7 @ 12	"Design Required"
15 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"
16 ft.	"Design Required"	"Design Required"	"Design Required"	"Design Required"

*** Minimum Rebar Requirements:**

- If the basement wall is **NOT** supporting an above grade PolySteel wall in Seismic Design Category A, B, C, D1, and D2 areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category A, B, and C areas: Vertical rebar size and spacing per table above. Minimum horizontal rebar is #4 @ 48" o.c.
- If the basement wall **IS** supporting an above grade PolySteel wall in Seismic Design Category D1 and D2 areas: Maximum spacing of vertical rebar is 12" o.c. Minimum vertical rebar is #4 @ 12" o.c. or table above if more restrictive. Vertical rebar size and spacing shall match the above grade wall reinforcement if more restrictive. Minimum horizontal rebar is #5 @ 16" o.c. (See note #2 below.)

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4. The basement floor must be poured and the first floor in place before backfilling.
5. The floor or roof system supporting the top of the basement wall and the connection to the top of the basement wall, must be specifically designed to provide the necessary strength to resist the horizontal reaction or force developed at the top of the basement wall by the lateral loads exerted on the wall by the backfill.
6. Concrete must cure a minimum of 7 days before backfilling.
7. Backfill should be well drained.
8. Refer to the PolySteel® Installation Manual for proper basement drainage and waterproofing systems.
9. "Design Required" refers to a design review by the project's structural engineer using higher compressive strength concrete then assumed for the development of this design table and / or the use of offset vertical rebar.