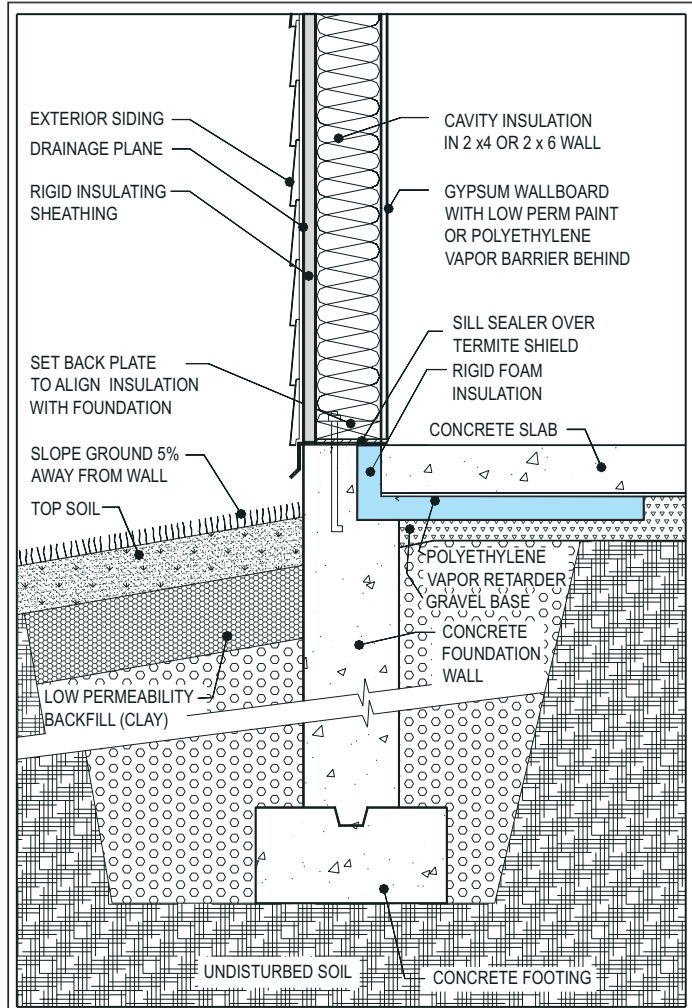


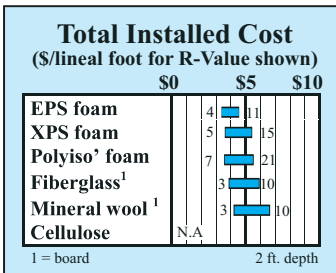
Foam boards are the most common form of exterior slab-on-grade insulation. The above grade portion must have UV and structural protection and a metal termite shield is recommended. Foundations in climate zone 1 in the colder northwest should be insulated to a depth of four feet.

Exterior Slab-on-Grade Insulation



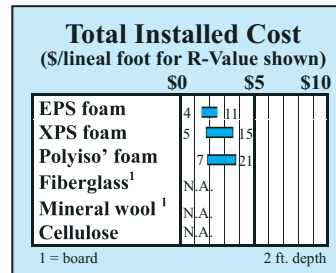
Interior slab-on-grade insulation can be horizontal. Interior placement avoids the need for protection, but may require cutting small pieces and more difficult details.

Interior Slab-on-Grade Insulation



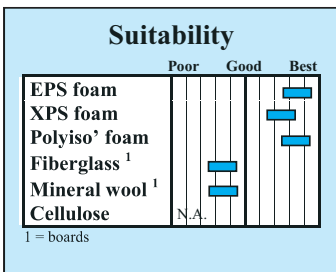
Recommended Minimum Slab Perimeter R-Value

| Climate Zone | Energy Cost | | |
|--------------|-------------|------|------|
| | L | M | H |
| 1 (4 ft.) | R-5 | R-10 | R-10 |
| 2 (2 ft.) | R-5 | R-8 | R-10 |
| 3 (2 ft.) | R-5 | R-5 | R-8 |



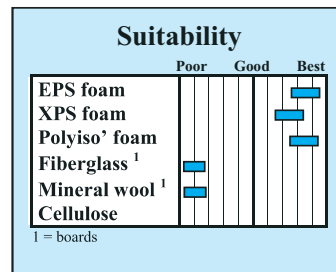
Recommended Minimum Slab Perimeter R-Value

| Climate Zone | Energy Cost | | |
|--------------|-------------|------|------|
| | L | M | H |
| 1 (4 ft.) | R-5 | R-10 | R-10 |
| 2 (2 ft.) | R-10 | R-10 | R-10 |
| 3 (2 ft.) | R-5 | R-10 | R-10 |



Energy Cost Savings
(\$/lineal foot/year)
(R-Values Recommended Above)

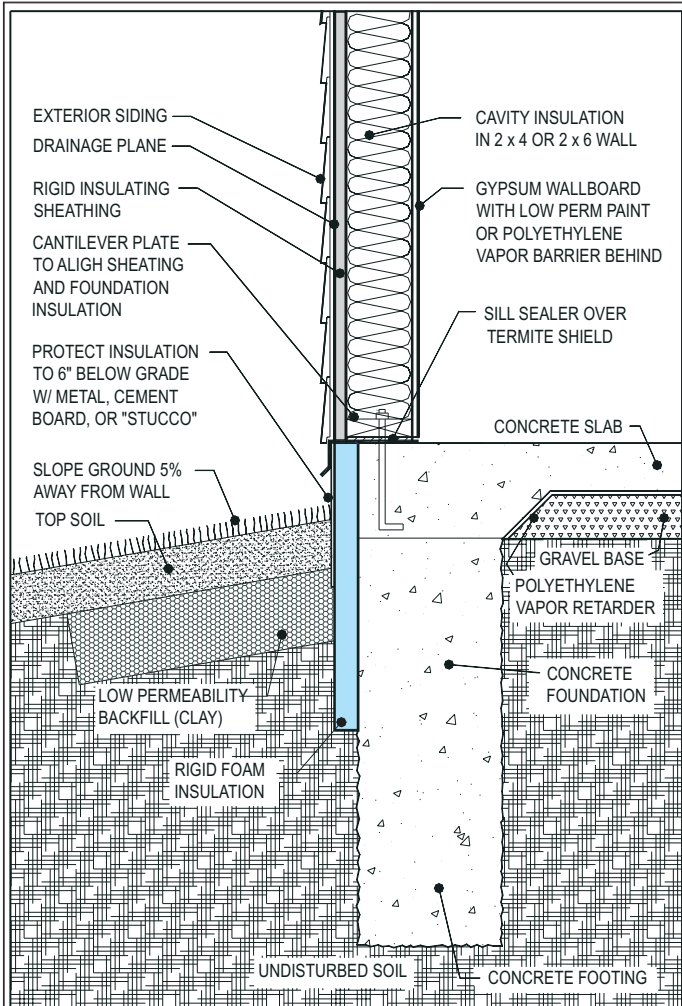
| Climate Zone | Energy Cost | | |
|--------------|-------------|--------|--------|
| | L | M | H |
| 1 (4 ft.) | \$0.30 | \$0.50 | \$0.75 |
| 2 (2 ft.) | \$0.25 | \$0.45 | \$0.65 |
| 3 (2 ft.) | \$0.15 | \$0.30 | \$0.40 |



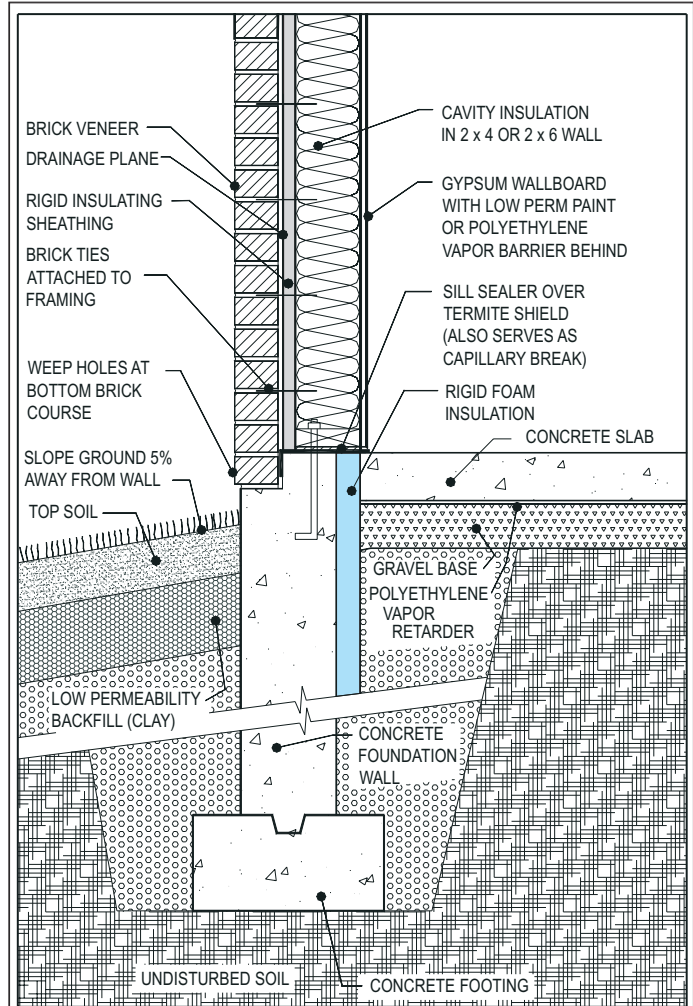
Energy Cost Savings
(\$/lineal foot/year)
(R-Values Recommended Above)

| Climate Zone | Energy Cost | | |
|--------------|-------------|--------|--------|
| | L | M | H |
| 1 (4 ft.) | \$0.30 | \$0.50 | \$0.75 |
| 2 (2 ft.) | \$0.25 | \$0.45 | \$0.65 |
| 3 (2 ft.) | \$0.15 | \$0.30 | \$0.40 |

Residential Foundation Insulation



Trench footings or monolith pours can be easily insulated by attaching foam board to the perimeter form board. The portion above grade requires UV and structural protection and a metal termite shield is recommended.



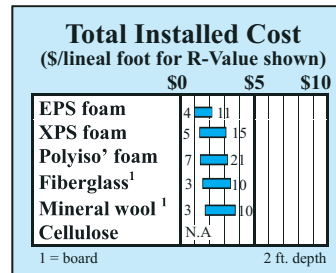
Interior slab-on-grade foundation insulation can be installed vertically but to maintain continuity it must be carefully detailed to permit acceptable floor finish. A metal termite shield is recommended.

Exterior Insulation on Trench Footings

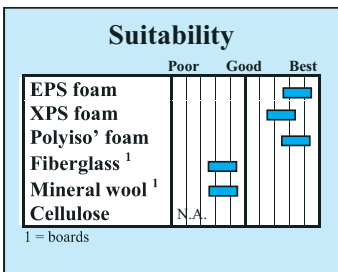
Interior Slab-on-Grade w/ Brick Veneer Wall



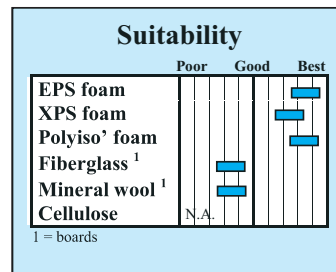
| Recommended Minimum Basement Wall R-Value | | | | |
|---|-------------|------|------|--|
| Climate Zone | Energy Cost | | | |
| | L | M | H | |
| 1 | R-5 | R-10 | R-10 | |
| 2 | R-5 | R-8 | R-10 | |
| 3 | R-5 | R-5 | R-8 | |



| Recommended Minimum Basement Wall R-Value | | | | |
|---|-------------|------|------|--|
| Climate Zone | Energy Cost | | | |
| | L | M | H | |
| 1 | R-5 | R-10 | R-10 | |
| 2 | R-5 | R-8 | R-10 | |
| 3 | R-5 | R-10 | R-8 | |



| Energy Cost Savings (\$/lineal foot/year) (R-Values Recommended Above) | | | | |
|--|-------------|--------|--------|--|
| Climate Zone | Energy Cost | | | |
| | L | M | H | |
| 1 (4 ft.) | \$0.30 | \$0.50 | \$0.75 | |
| 2 (2 ft.) | \$0.25 | \$0.45 | \$0.65 | |
| 3 (2 ft.) | \$0.15 | \$0.30 | \$0.40 | |



| Energy Cost Savings (\$/lineal foot/year) (R-Values Recommended Above) | | | | |
|--|-------------|--------|--------|--|
| Climate Zone | Energy Cost | | | |
| | L | M | H | |
| 1 (4 ft.) | \$0.30 | \$0.50 | \$0.75 | |
| 2 (2 ft.) | \$0.25 | \$0.45 | \$0.65 | |
| 3 (2 ft.) | \$0.15 | \$0.30 | \$0.40 | |