VIPER™ VaporCheck

UNDER SLAB INSTALLATION INSTRUCTIONS

Note: The following installation instructions are based on ASTM E 1643 (Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.

1. Install Viper VaporCheck over aggregate, sand or earth base. Viper VaporCheck is designed to withstand rugged construction environments; therefore it is not necessary to have a perfectly smooth subsurface.

2. Unroll Viper VaporCheck with the longest dimension parallel with the direction of the concrete pour. Viper VaporCheck should completely cover the entire pour area.

3. Lap Viper VaporCheck over footings or seal to foundation wall or both. The most effective installation of Viper VaporCheck includes placement on top of the footing and against the vertical foundation wall. This placement of Viper VaporCheck on top of the footing and against the vertical foundation wall will help protect the concrete slab from both horizontal and vertical moisture migration. (Refer to Slab On Grade Details 1,2,3).

4. All joints and seams should be overlapped a minimum six inches and sealed with pressure sensitive tape, adhesive or both.

***Note:** The area of adhesion should be free from dust, dirt and moisture to allow maximum adhesion of the pressure sensitive tape.

5. All penetrations such as utilities and columns should be sealed using Viper VaporCheck, appropriate tape, and/or mastic. Doing so creates a monolithic membrane between the surface of the slab and moisture sources below the slab. (Refer to Boot and Patch Details).

6. If Viper VaporCheck gets damaged during or after installation, repairs must be made. Simply cut an extra piece of Viper VaporCheck large enough to extend six inches beyond damaged area on all sides. Secure patch with pressure sensitive tape, adhesive or both. All adhesive areas should be free from dust, dirt and moisture.

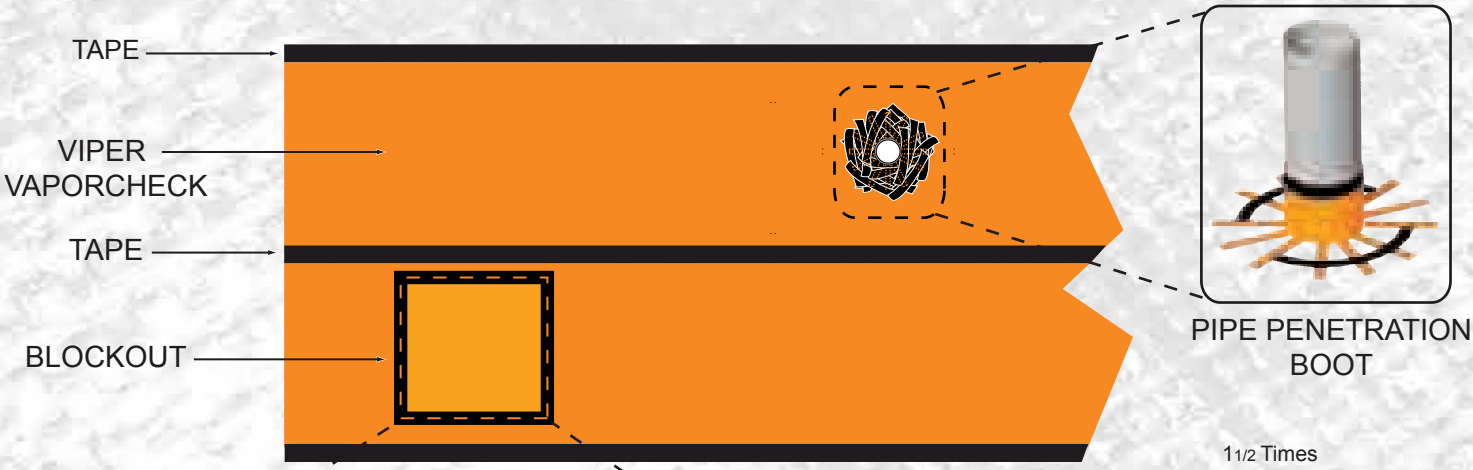
7. A secondary protective layer, such as fine washed gravel or sand, on top of Viper VaporCheck is not necessary due to the strength and durability of the product.

***Note:** Check with local building code regulations, and/or architectural design firms recommendations when using a secondary protective layer.

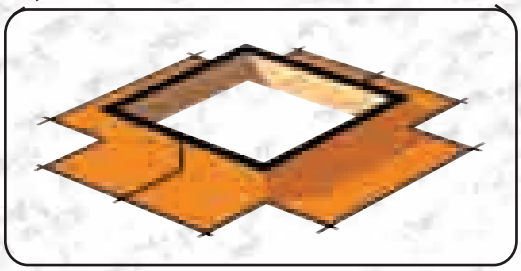
*Note: Viper VaporCheck detail drawings are for use as guides, for further details check with local building codes, ASTM E 1643, ACI 302 & 360, and/or Architect/Engineer specifications.

VIPER™ VaporCheck

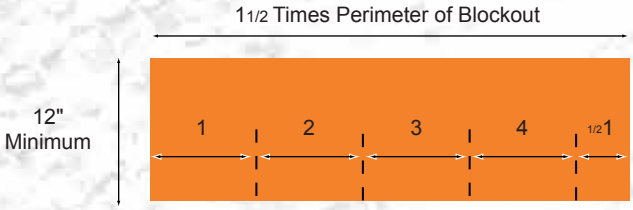
Penetration Boot Details

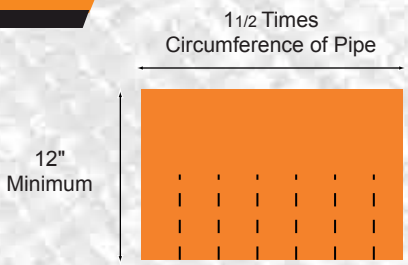


PIPE PENETRATION BOOT



BLOCKOUT BOOT





Blockout Boot Instructions:

1. Cut Viper VaporCheck minimum 12" in width, and 1 1/2 times the perimeter (of the blockout) in length.
2. Use scissors and cut flaps 1/2 the width of Viper VaporCheck (See above detail).
3. Wrap and tape the created boot around blockout. Tape all flaps to existing Viper VaporCheck (See above details).

Pipe Penetration Instructions:

1. Cut Viper VaporCheck minimum 12" in width, and 1 1/2 times (the pipe circumference) in length.
2. Use scissors and cut flaps 1/2 the width of Viper VaporCheck (See above detail).
3. Wrap and tape the created boot around pipe penetration. Tape all flaps to existing Viper VaporCheck (See above details).

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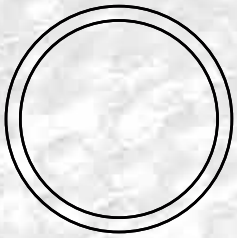
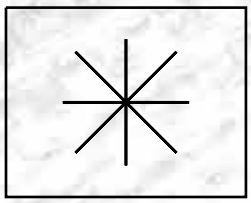
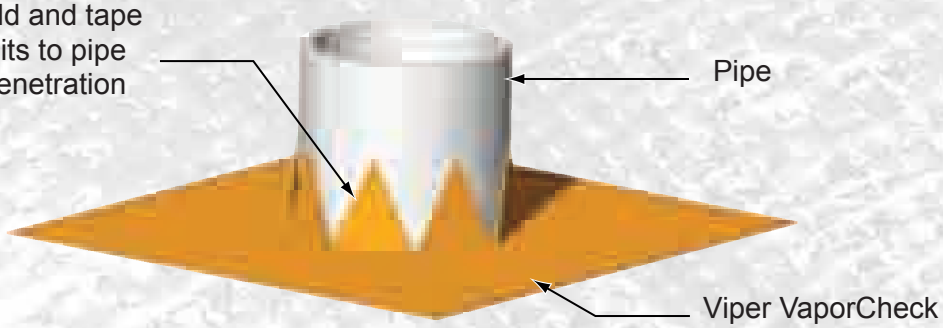
Penetration Patch Details



Pipe

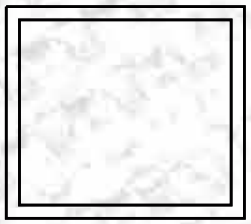


Viper VaporCheck
(Cut Pattern)

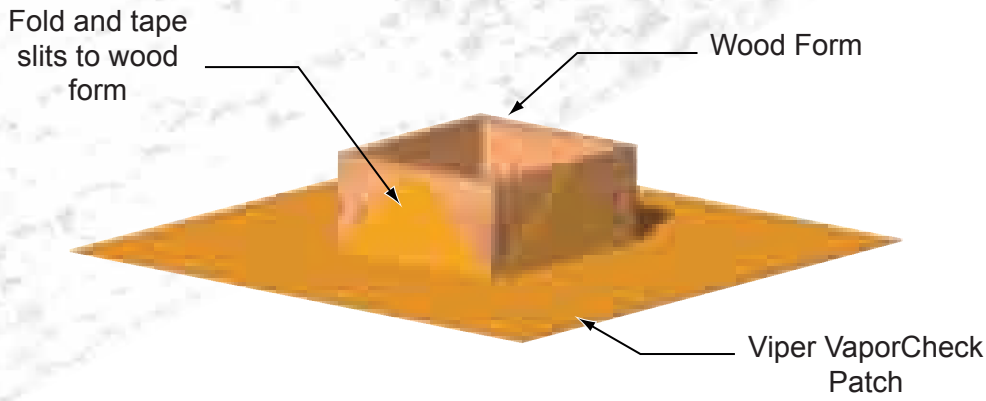


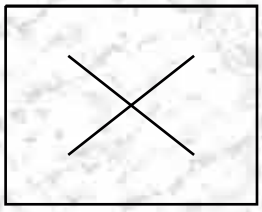
Penetration Patch Instructions:

1. Cut out a small area around penetrations.
2. Cut patch out of Viper VaporCheck. This patch should extend at least 6" in all directions from penetration.
3. Fasten patch to penetration with tape.
4. Tape overlapped patch to existing Viper VaporCheck.



Wood Form





Viper VaporCheck
(Cut Pattern)

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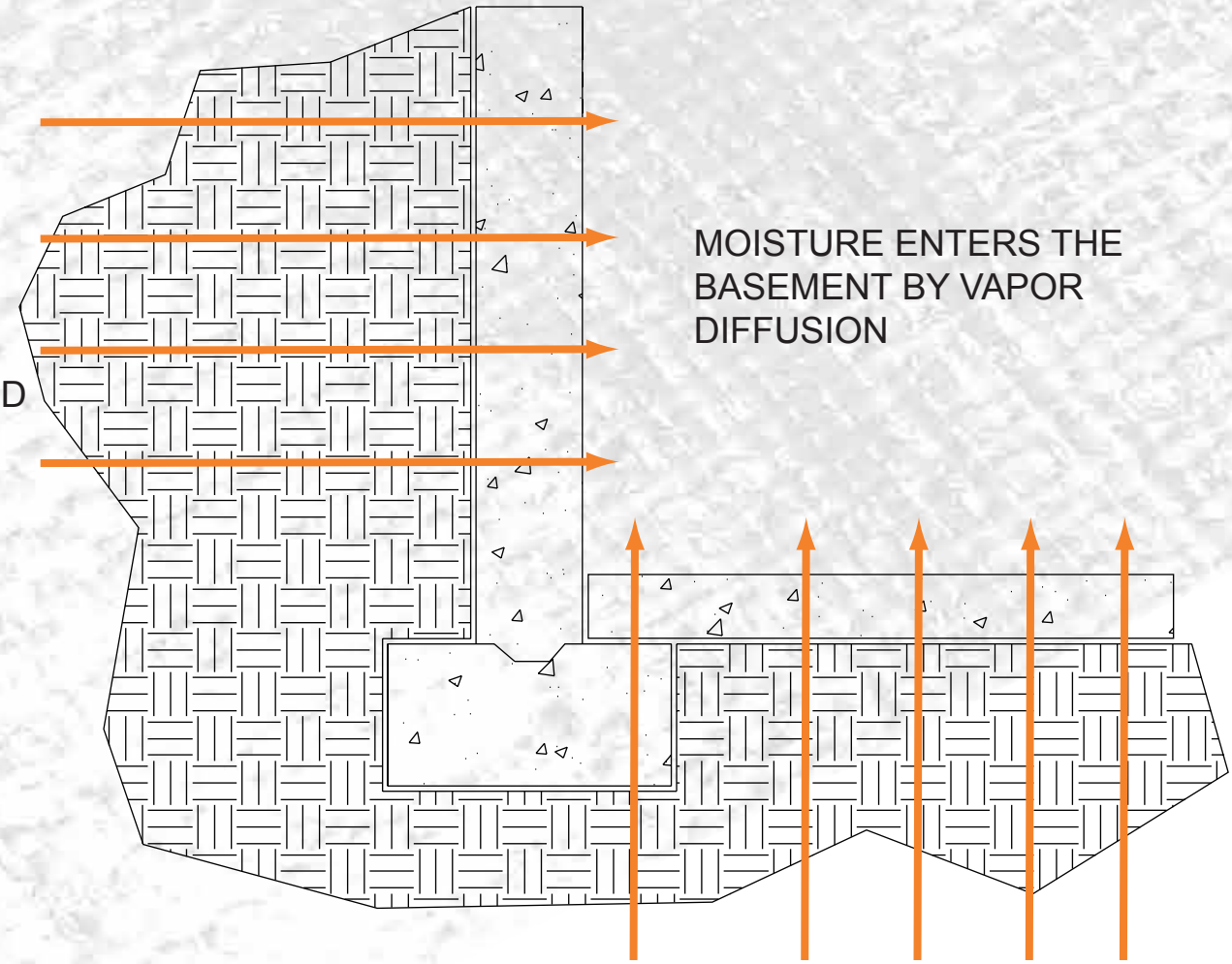
Note: Viper VaporCheck patch must cover penetration area by at least 6" on all sides.

VIPER™ VaporCheck

Vapor Diffusion Through Foundation Walls & Floors



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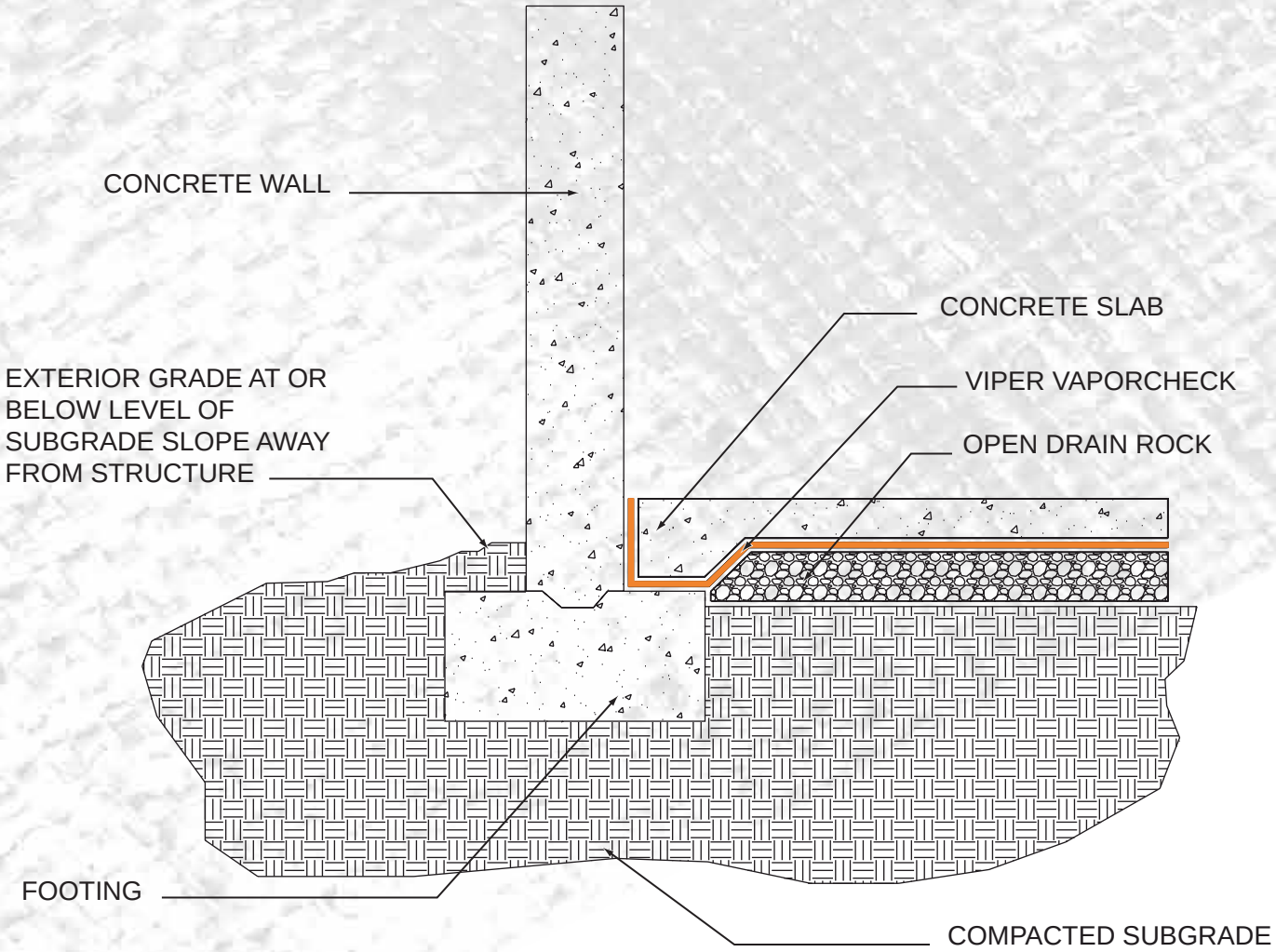
Slab-On-Grade Detail 1



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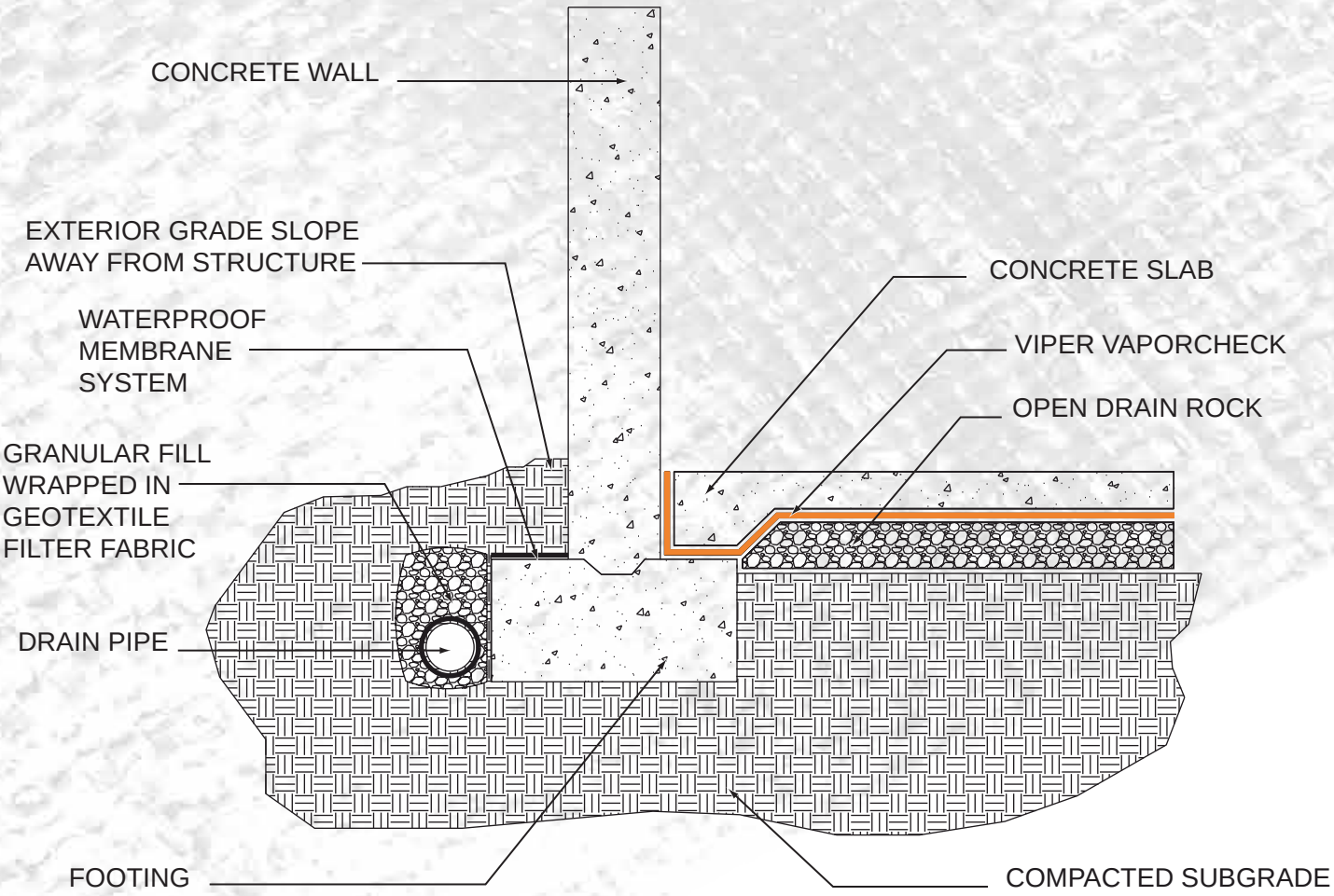
Slab-On-Grade Detail 2



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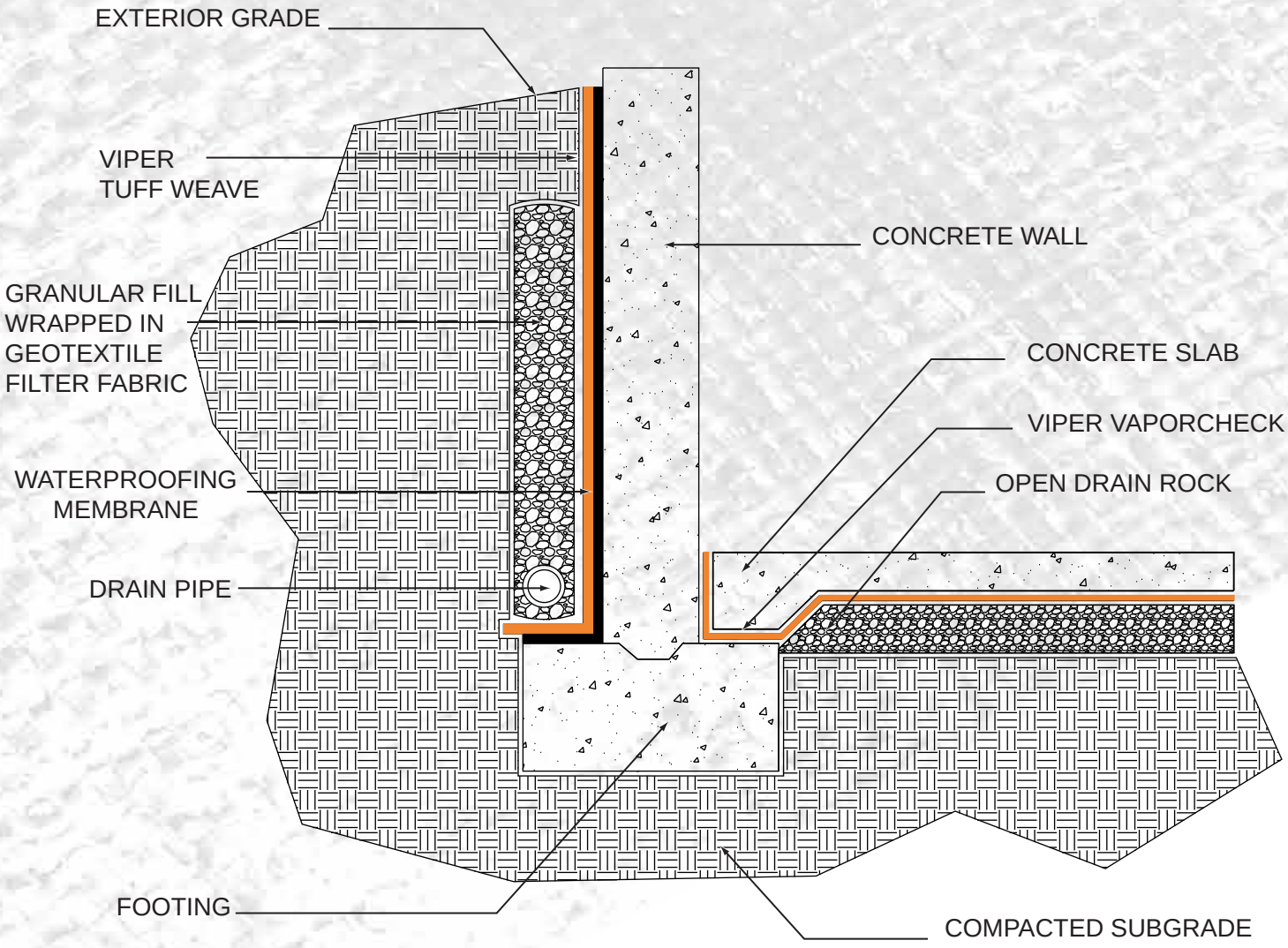
Slab-On-Grade Detail 3



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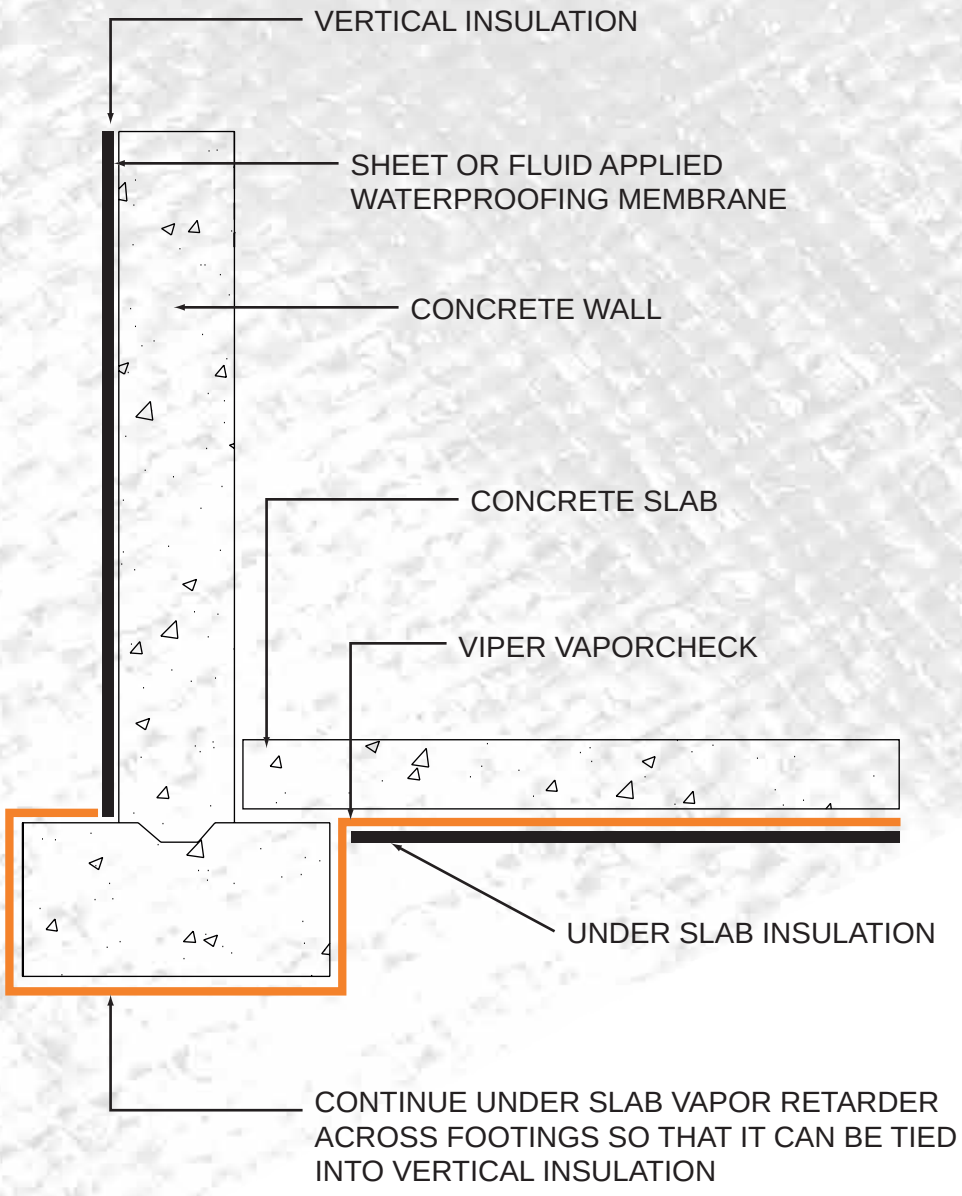
Slab-On-Grade Detail 4



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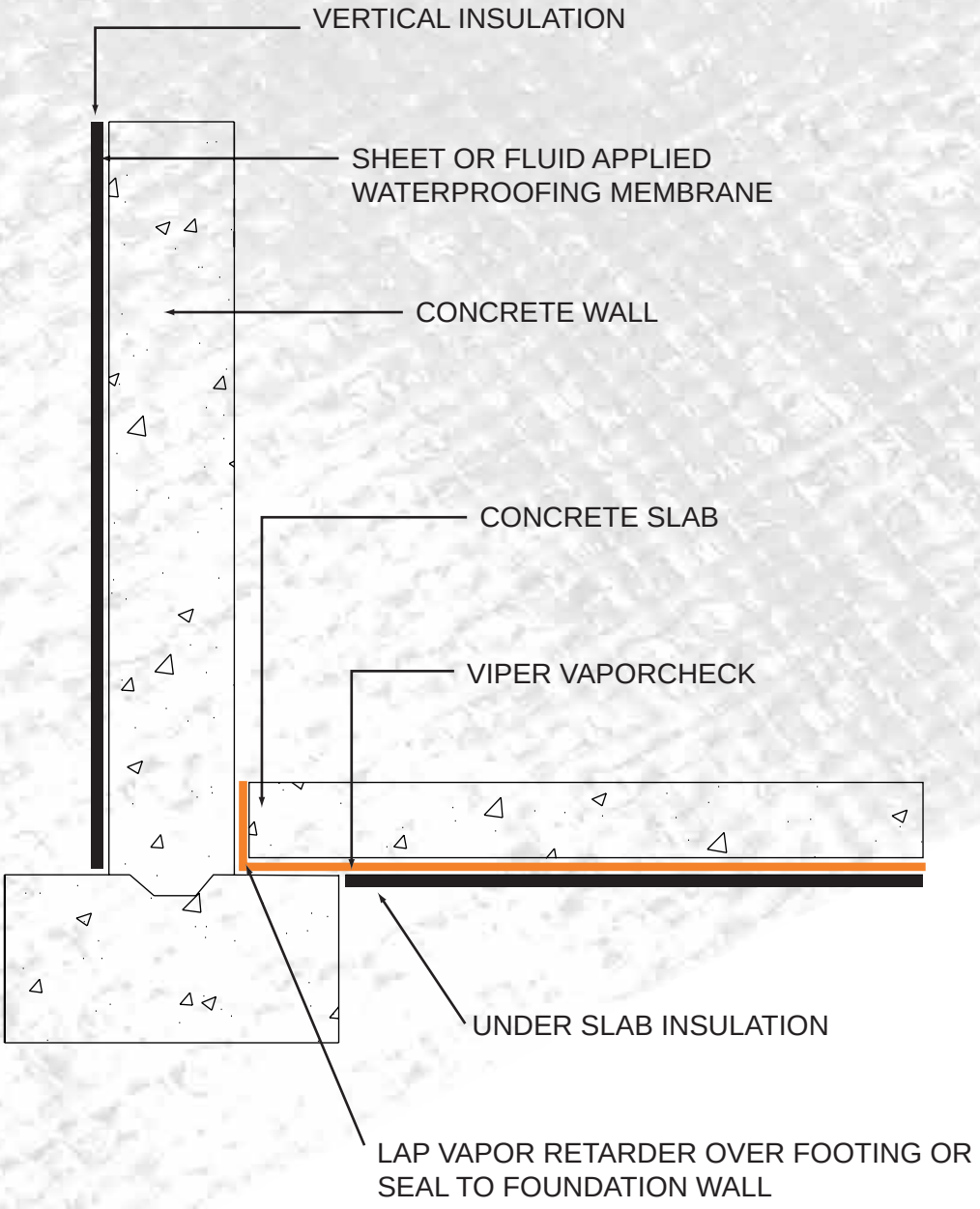
Slab-On-Grade Detail 5



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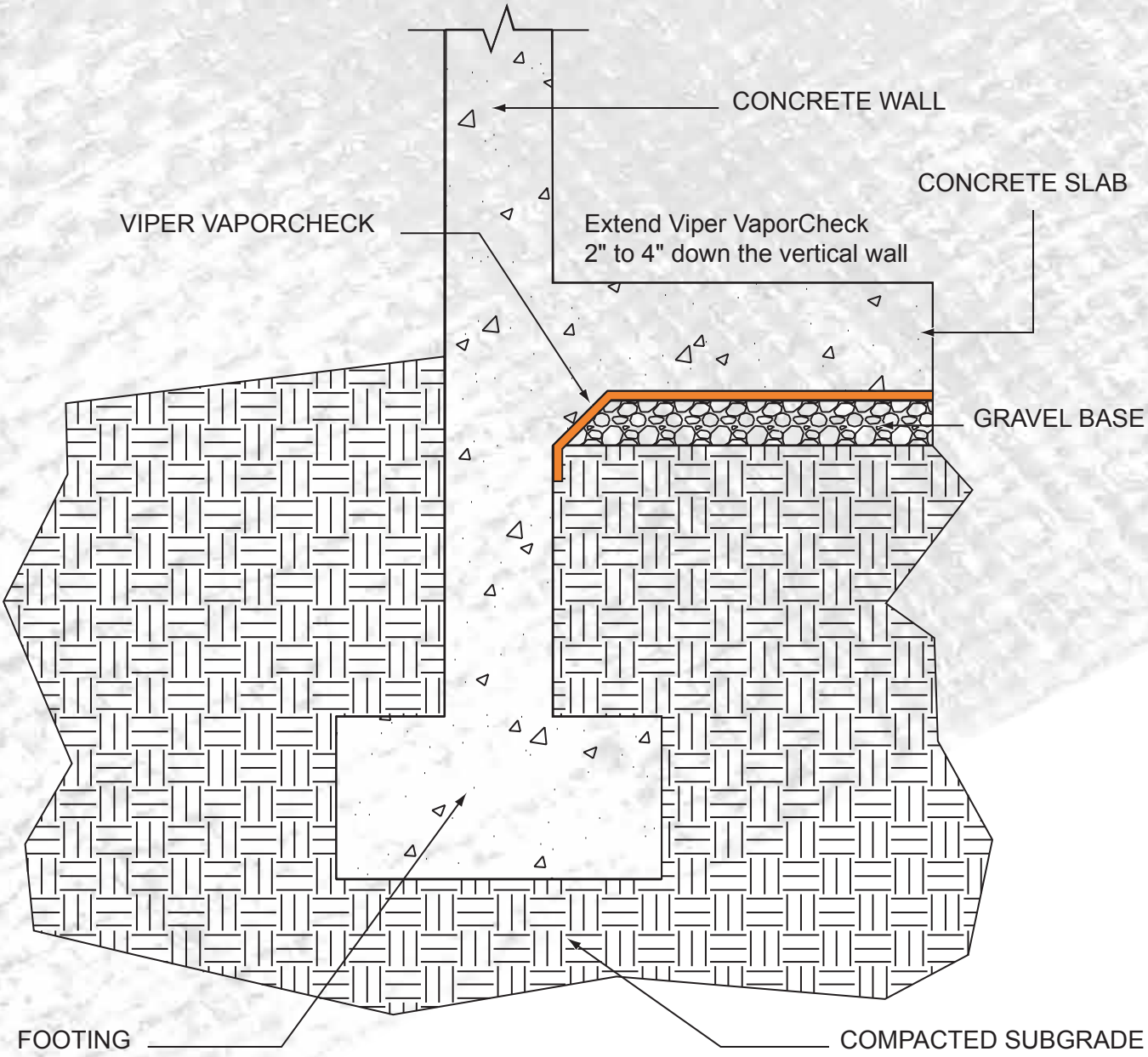
Slab Wall Footing Detail



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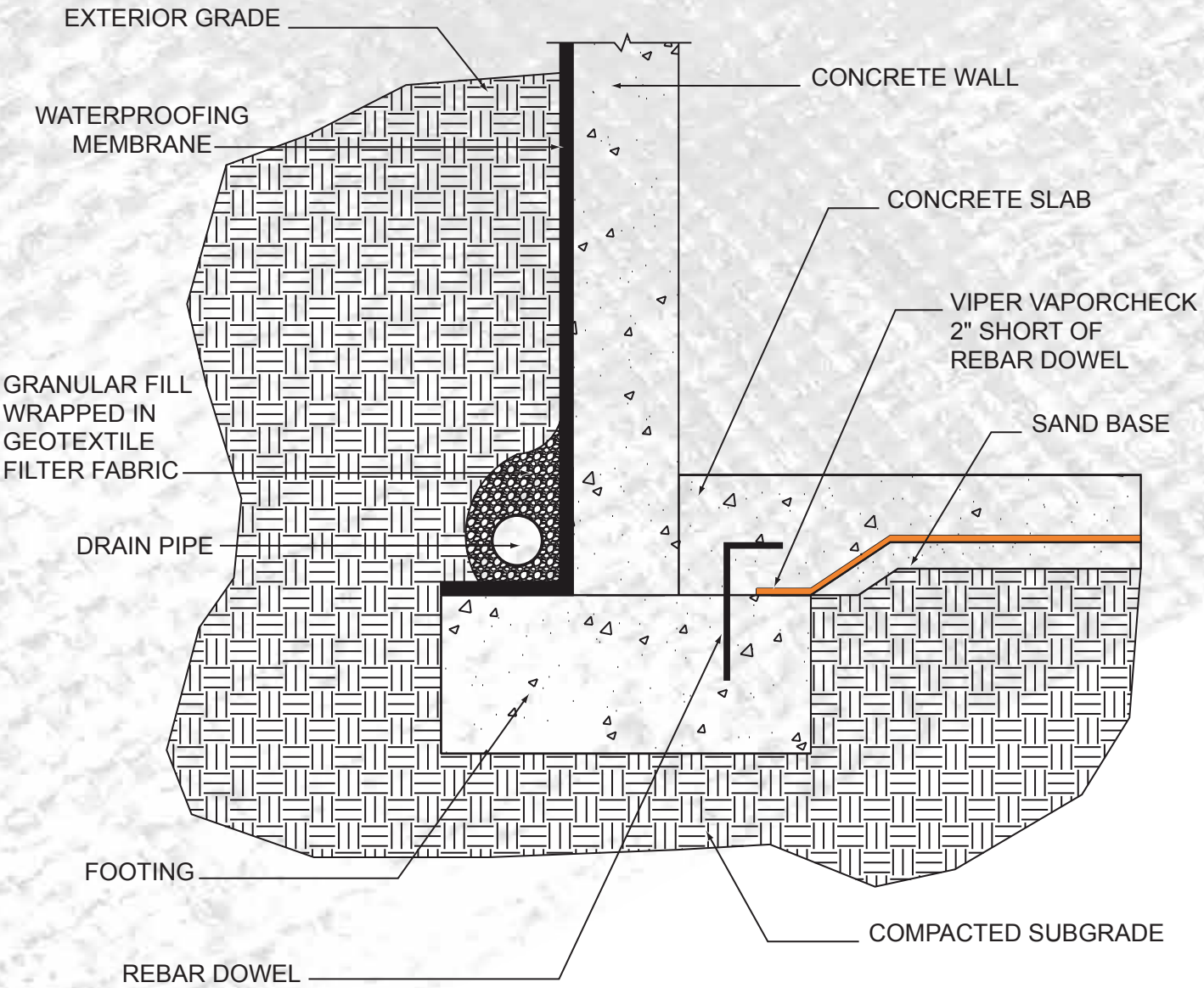
Termination At Rebar Dowel Detail



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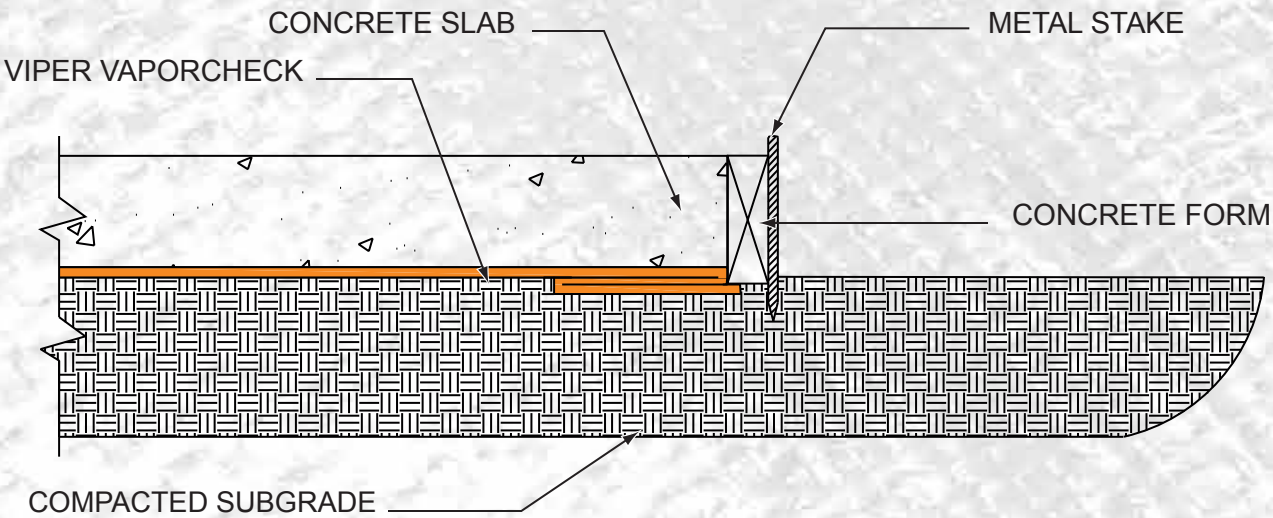
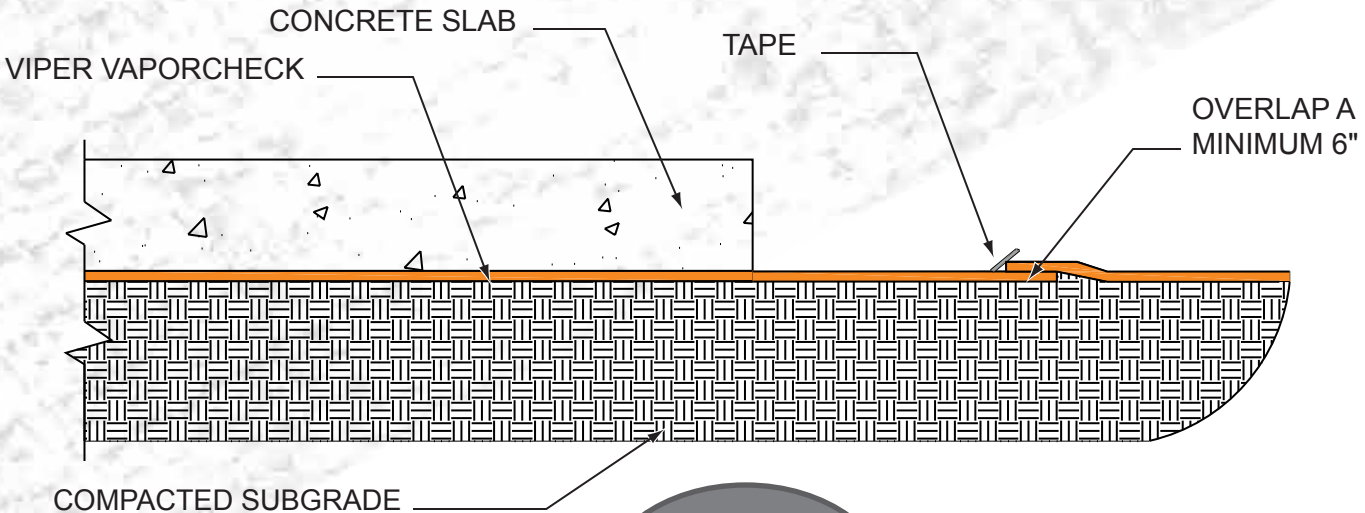
Multiple Slab Detail

STEP ONE



STEP TWO



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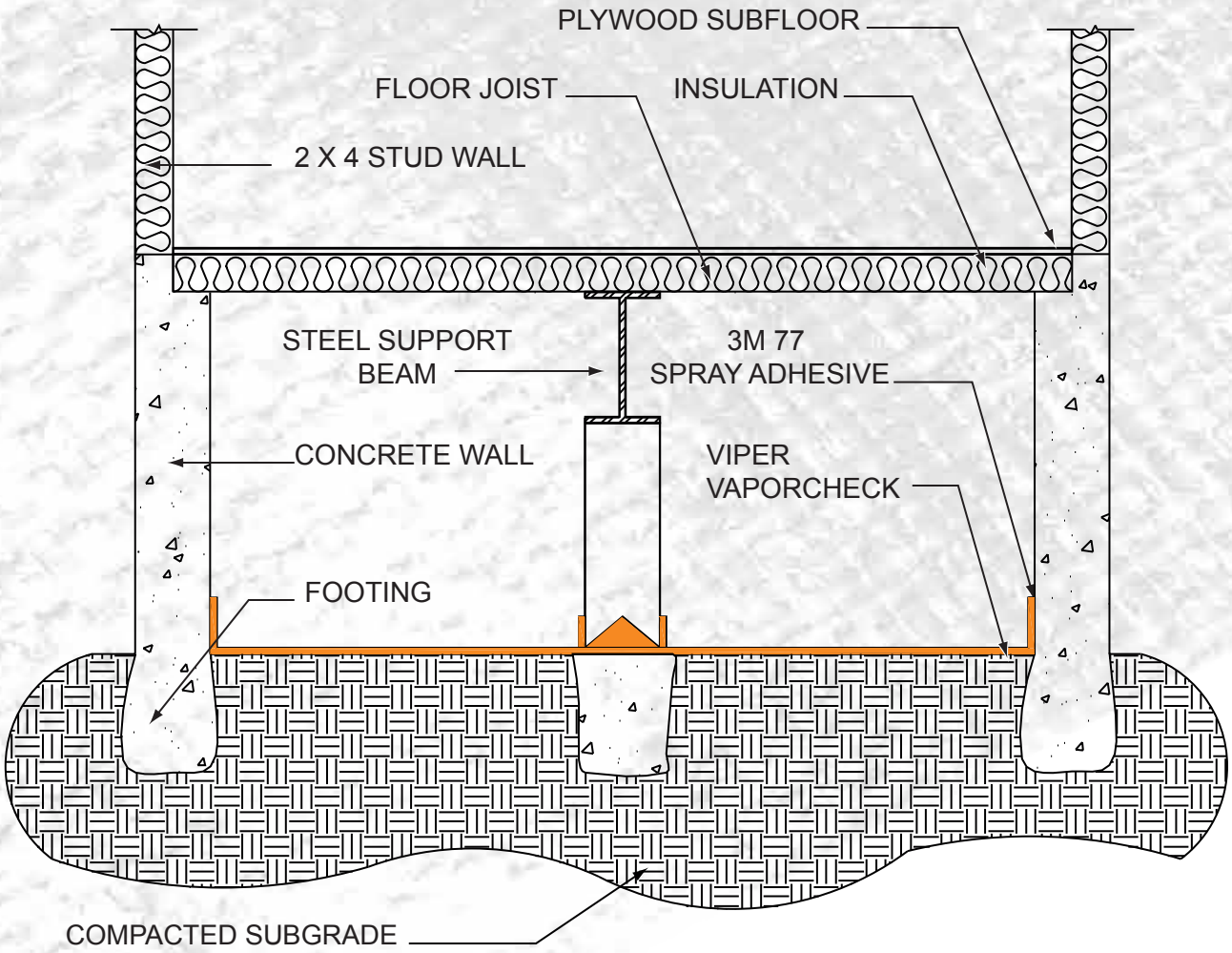
Residential Crawl Space Detail



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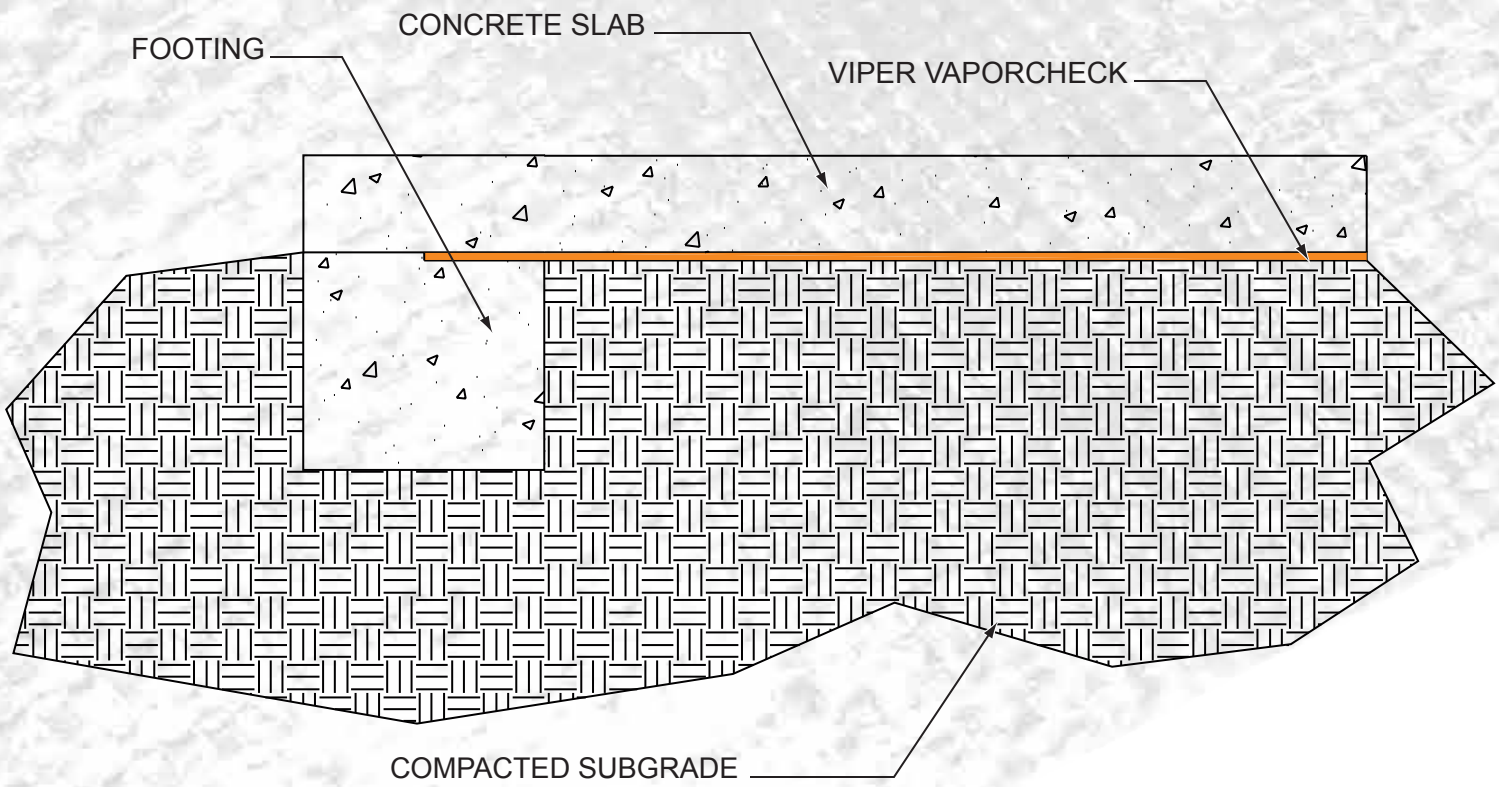
Concrete Slab and Footer Detail

Sandwich Viper VaporCheck between concrete slab and footer allowing adequate space for the slab to be bonded to the footing.



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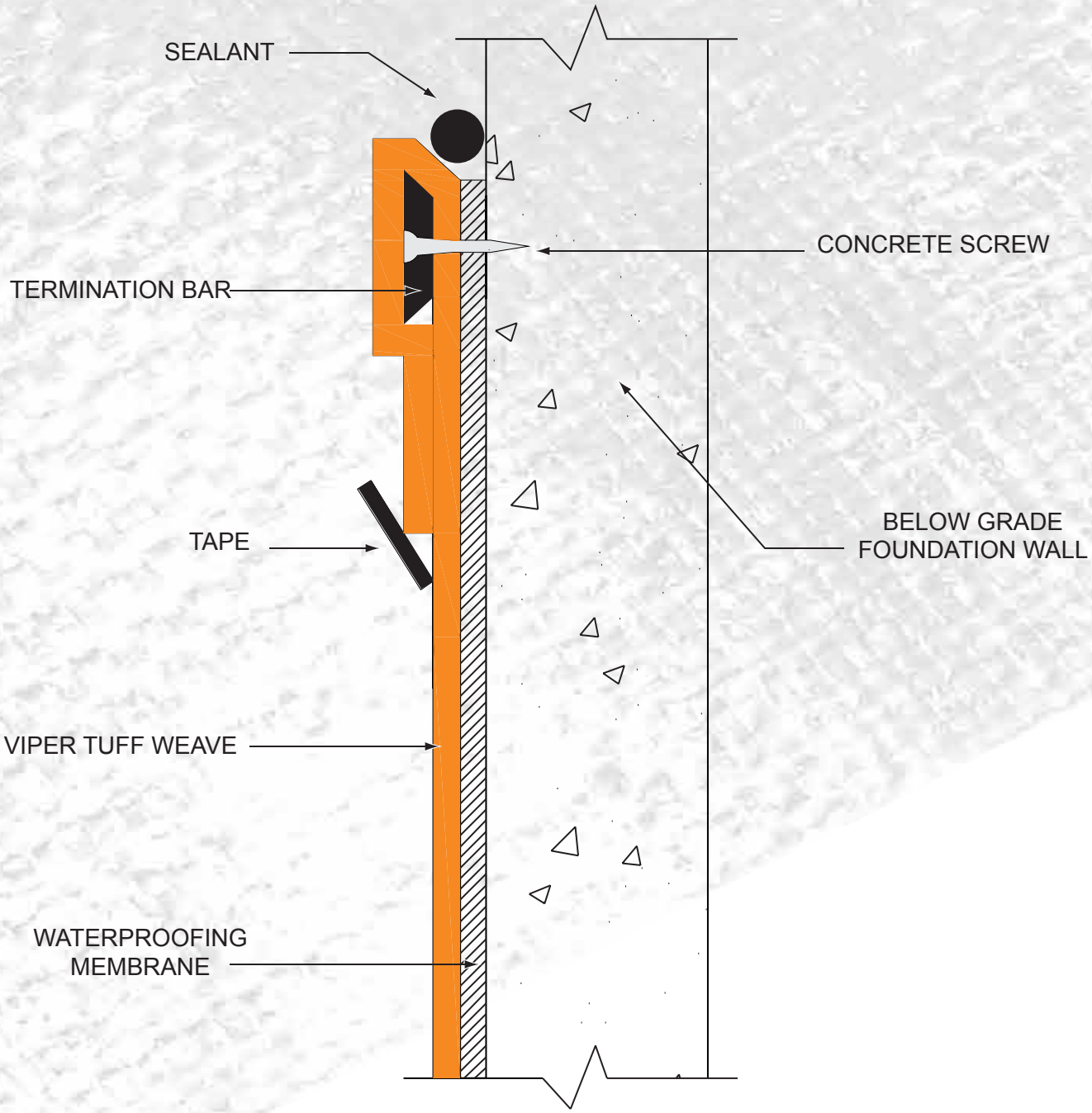
Termination Bar Detail



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