

**Mid-Atlantic Masonry Heat Inc.**  
2858 N. Seminole Trail – P.O. Box 58  
Madison, VA 22727

## **STRUCTURAL SUPPORT CONCEPT DRAWINGS**

The following Tulikivi drawings provide a conceptual aid for the North American market. They illustrate some common installation conditions that have been encountered and some general methods which might be considered for addressing such conditions. Be sure you read and understand the disclaimer that is printed at the bottom of each concept drawing.

For placing a Tulikivi on a NON-COMBUSTIBLE surface we have most often seen them placed on an engineered concrete pad or slab on grade depending on whether the unit is on slab or raised above a crawl space or basement. Remember however that no combustible materials (such as plywood) may be introduced under the concrete pad.

For placing a Tulikivi on a COMBUSTIBLE surface we have most often seen a variation of the combustible floor support pedestal employed. Often steel column and girders replace the timber supports. We have found it difficult to provide an even and level surface for the Foamglas without the  $\frac{3}{4}$ " cabinet grade plywood placed on the floor. Also employing the  $\frac{3}{4}$ " plywood should reduce somewhat the need for engineering the floor joists. Remember however the combustible floor support must be supported in such a way that it will not deflect.

If for some reason you would like to adapt your installation to another concept method you must let us know so we can make any necessary changes in your proposal drawings. Otherwise we will assume that on COMBUSTIBLE surface installations the  $\frac{3}{4}$  inch steel plate we specify will be provided on the sub floor with adequate engineered support to carry the weight of the Tulikivi unit and chimney and on NON-COMBUSTIBLE surface installations the engineered masonry support will likewise support the weight of the Tulikivi unit and chimney.

CAD Design Staff  
Mid-Atlantic Masonry Heat Inc.

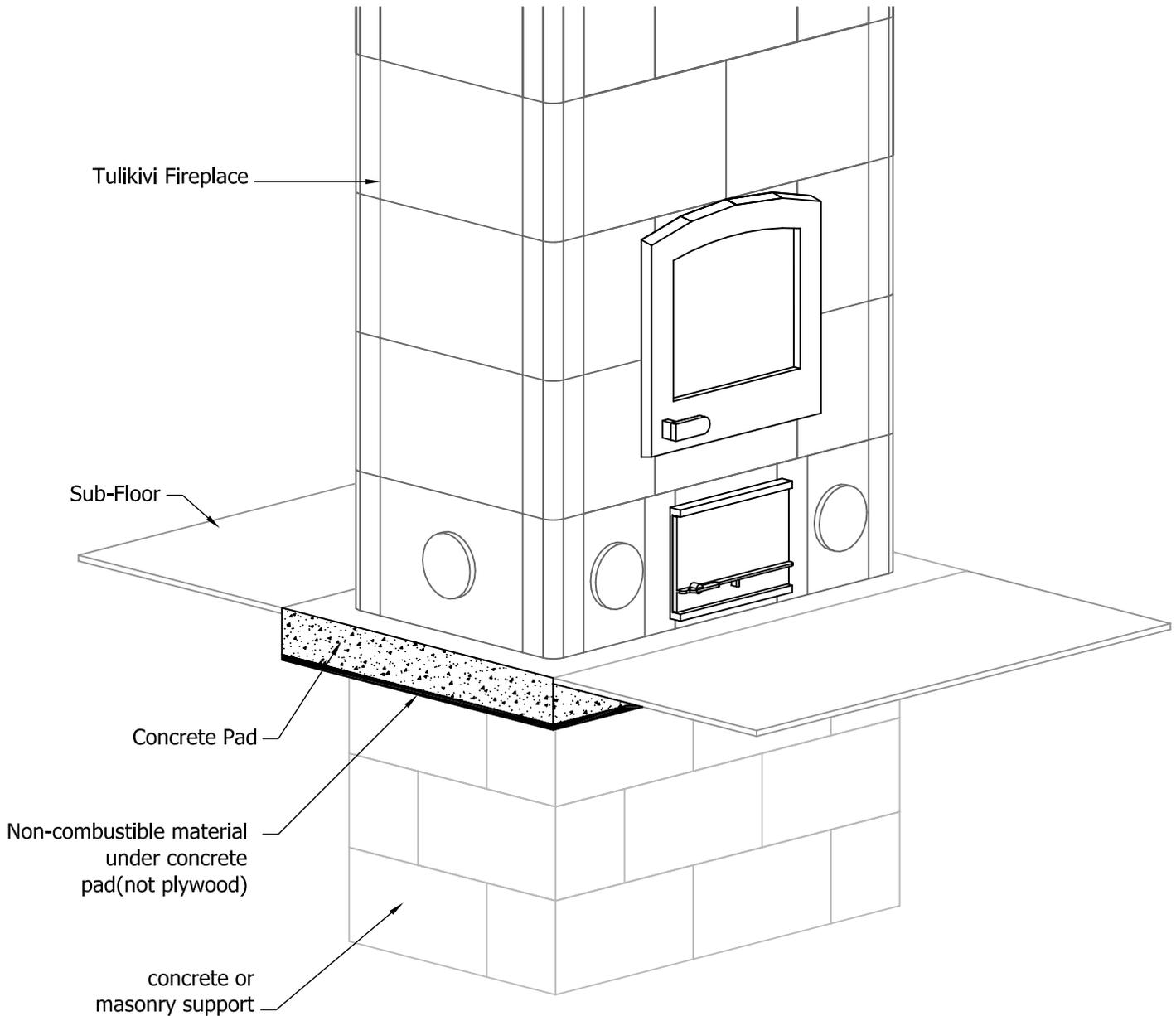
888-544-5442

[www.VirginiaRadiant.com](http://www.VirginiaRadiant.com)

434-979-9709

## Noncombustible Floor Installation

Concrete Pad: Minimum 4 inch thick poured concrete with rebar 6 inches O.C.  
Minimum dimensions: 2 inches more than the footprint of the fireplace.  
Use non-combustible materials under concrete pad (NOT PLYWOOD).  
Top of Concrete pad to be LEVEL AND FLUSH with sub-floor.



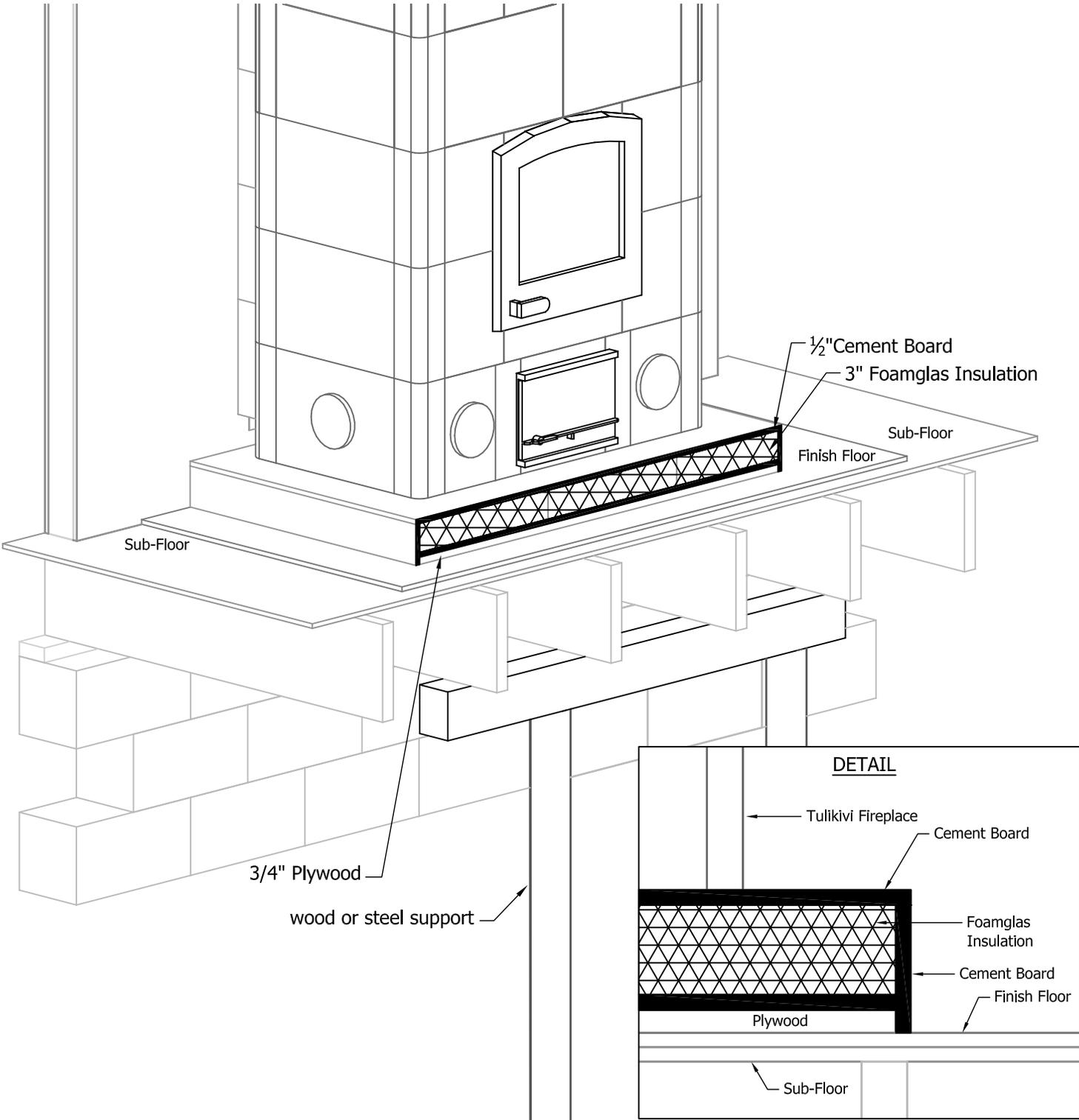
Owner/Contractor is responsible for engineering Concrete Pad to support weight of fireplace.



Tulikivi provides these drawings as a conceptual aid for the North American market. They illustrate some common conditions installers have encountered and general methods which might be considered for addressing such conditions. Please note that this material is not tailored to any particular condition; it is not intended to be a substitute for or supplant the technical manual TTM-1; and it is not a warranty with respect to the merchantability, suitability, or fitness for a particular purpose regarding Tulikivi products or methods illustrated. It is not designed to replace good engineering practices, local building codes or the formal and practical training and advice of a qualified builder. The material only suggests ways architects, engineers, builders, installers and owners can enhance their projects by including a Tulikivi fireplace, bakeoven and cookstove.

# Combustible Floor Installation

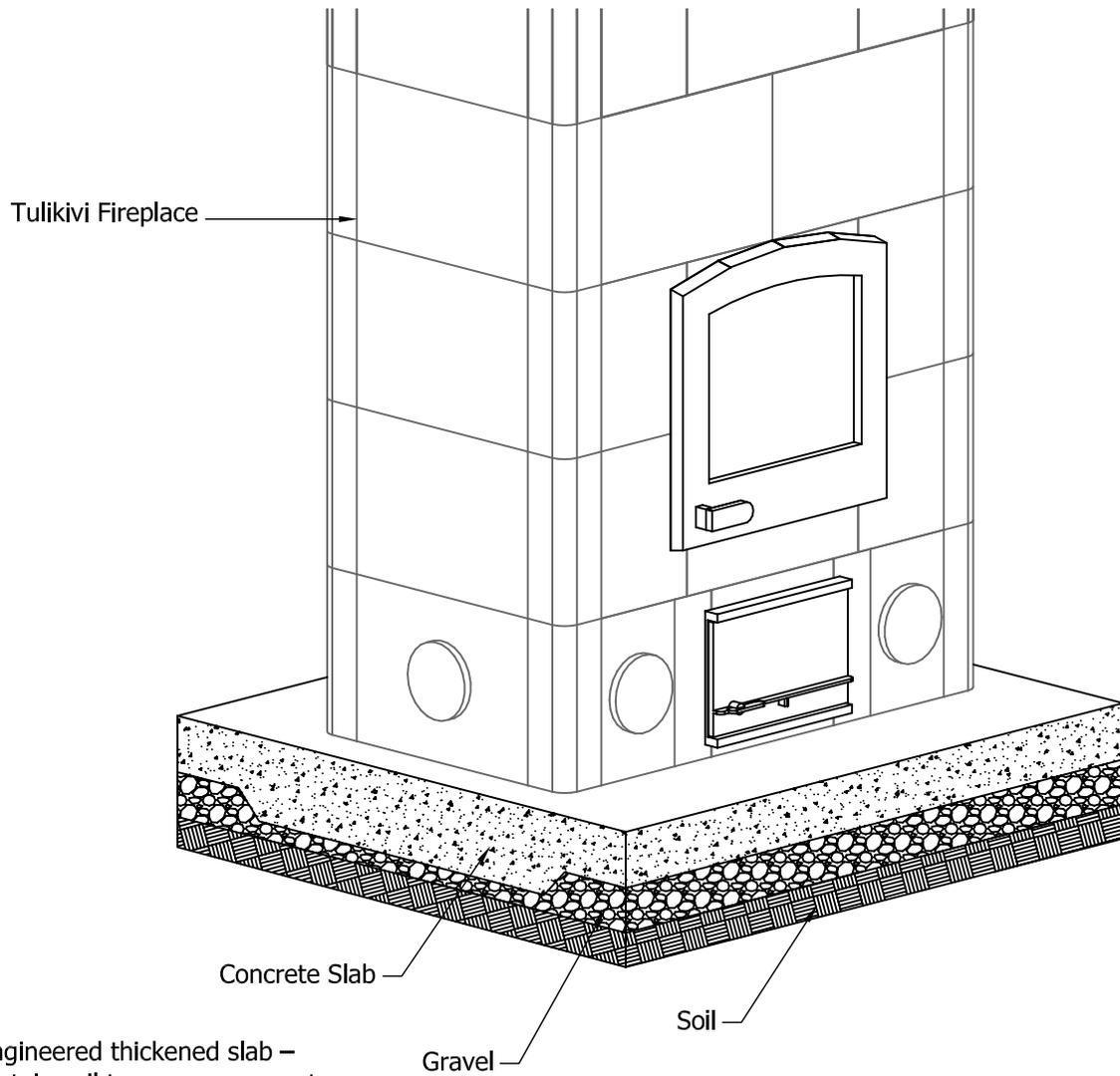
**Floor Heat Shield Pedestal Support:** Owner/Contractor is responsible for engineering the floor to support the Floor Heat Shield Pedestal and weight of Tulikivi Unit as specified without deflection.



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# Slab on Grade Installation

Concrete Slab on Grade: Minimum 4 inch thick poured concrete



Engineered thickened slab –  
certain soil types may support  
the unit without added thickness.

Owner/Contractor is responsible for engineering Concrete Slab to support weight of fireplace.



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