

# Plasti-Fab Design Manual

# Floor Insulation Systems



Better building ideas from PFB ™

# PlastiSpan®

## Insulation Board

Foundation Application

SPECIFICATION SECTION 7210

PRODUCT CATALOGUE NO. PFE-01

## Floor Insulation Systems

### Under Concrete Floor

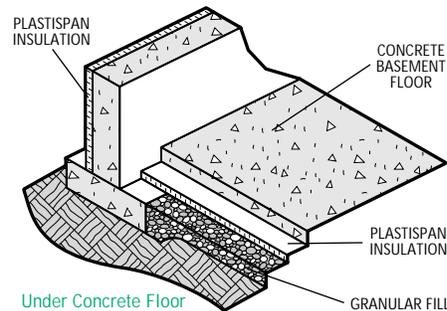
Where a regularly used concrete floor is to be poured on grade or in a basement use Plasti-Fab® PlastiSpan® insulation board installed in adequate thickness under the floor before pouring. A vapour barrier should be placed between the insulation layer and the underside of the concrete slab. The floor surface will be noticeably warmer to anyone standing on the floor.

### Over Concrete Floor

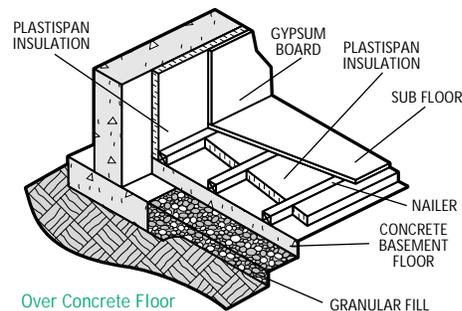
Place PlastiSpan insulation boards above concrete slab-on-grade to make the floor surface temperature noticeably warmer.

PlastiSpan insulation boards of adequate thickness placed above the floor slab and on the interior surface of the foundation wall will raise the surface temperature to within 3°C (5°F) of the room temperature under normal conditions.

This system uses wood nailers with insulation boards between them and a panel overlay which serves as the base for flooring.



Under Concrete Floor



Over Concrete Floor

## Application

Choose application instructions from the general application instructions in 'PlastiSpan Foundations – Selection, Application and Specification' brochure.

The following instructions apply specifically to insulation installed Under Concrete Floors or Over Concrete Floors.

### Preparation

#### Insulation Under Floor

Install moisture barrier over granular fill if required.

#### Insulation Over Floor

Install nailers at 400 mm (16") or 600 mm (24") centres. Position nailers so panel joints meet over nailers.

### Insulation

Where a finish is required to meet the building code, see 'PlastiSpan Walls/Floors – Interior Systems'.

### Slab Perimeter - Insulation under Concrete Floor

Lay insulation as shown on plans.

### Insulation Over Concrete Floor

Precut insulation or cut it to fit between nailers. Lay dry.

### Finish

#### Slab Perimeter – Insulation Under Floor

Protect insulation from wheelbarrows and buggies when pouring concrete by the use of plank runways. Use baffles under pour spouts where necessary.

#### Insulation Over Floor

Nail sub floor to nailers.

*The Value in R-VALUE™*

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