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Basement Health



A healthy basement should be a standard, not a luxury.

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— SERVICE IS OUR SPECIALTY —

APPARENTLY
3 OUT OF 4 PEOPLE
MAKE UP 75%
OF THE POPULATION

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ENERGY SAVING





**U.S. Department of Energy's
Oak Ridge National Laboratory
Buildings Technology Center
Basement Insulation Report**

R-Value's Diminishing law of return

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Table 1. Annual Savings with Basement Wall Insulation

†Such as 2 to 3 inches of foam insulation.

††Such as with most insulated concrete forms.

U.S. Cities	R-10†	R-20††
Buffalo, N.Y.	\$350	\$390
Denver	\$310	\$360
Minneapolis	\$400	\$450
Seattle	\$280	\$320
St. Louis	\$250	\$290
Washington, DC	\$250	\$280

http://www.energysavers.gov/your_home/insulation_airsealing/index.cfm/mytopic=11470



The Numbers: For simplicity the savings are averaged from Table 1

	INITIAL INVESTMENT	ANNUAL TAX FREE RETURN	7 YEAR RETURN	INVESTMENT PERFORMANCE
R-10 INVESTMENT	\$1,700	\$307	\$2,149	126%*
R-20 INVESTMENT	\$3,400	\$348	\$2,438	72%*

*Results may vary as energy prices fluctuate.

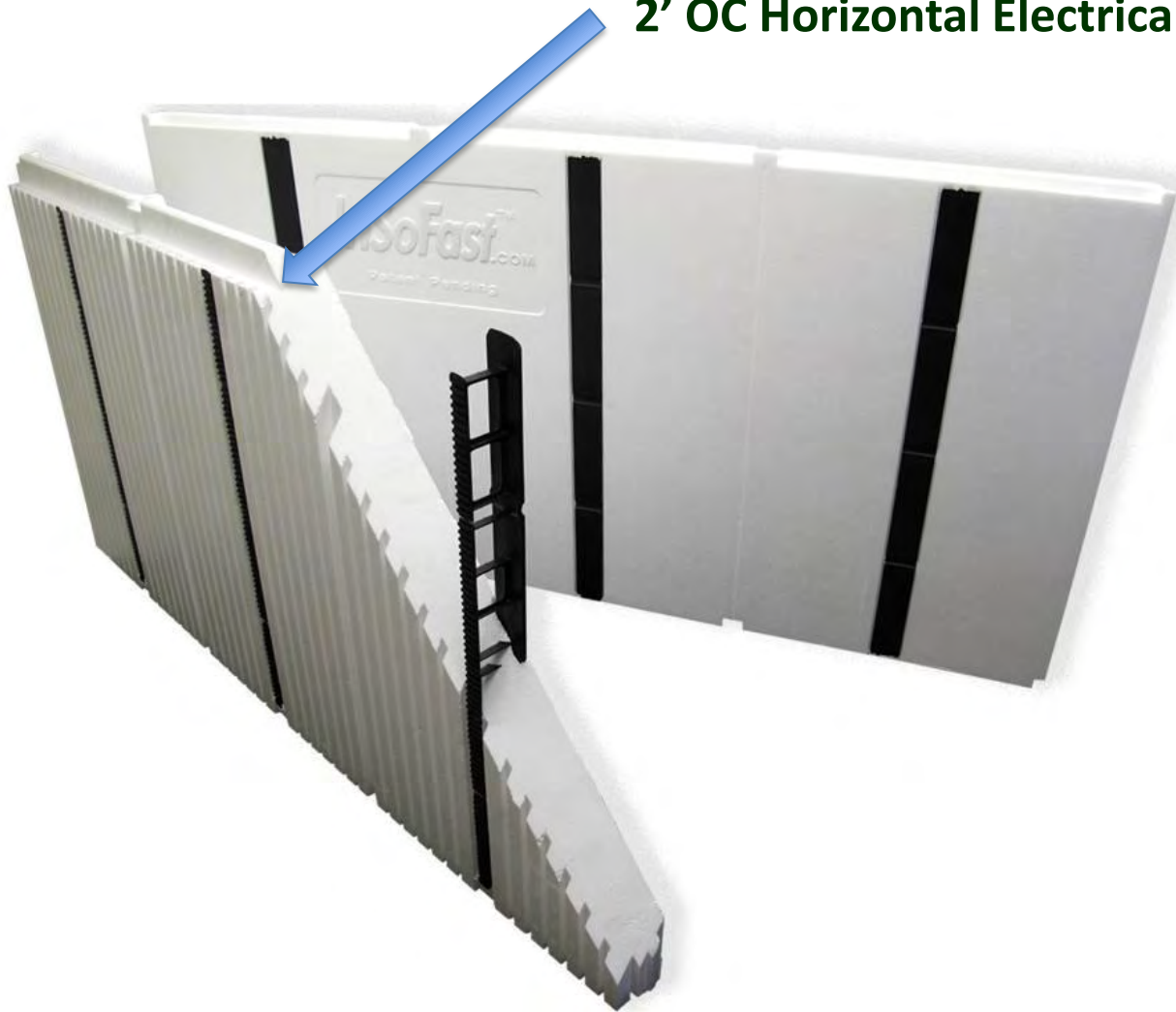
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Engineered Pre-Assembled Veneer Insulation Panel



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2' OC Horizontal Electrical Channels



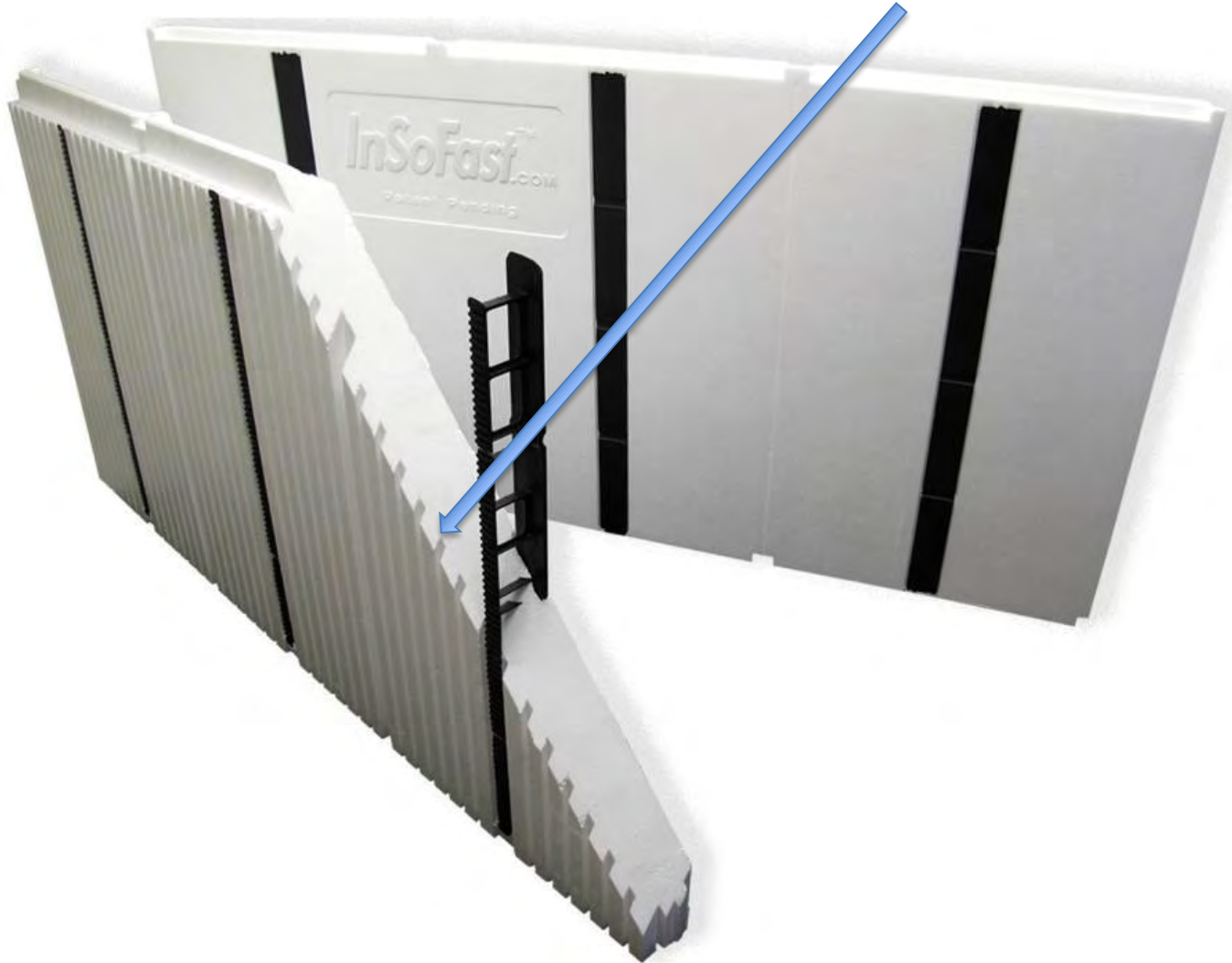
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16" OC Vertical Electrical Channels



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Drainage Channels/Capillary Break



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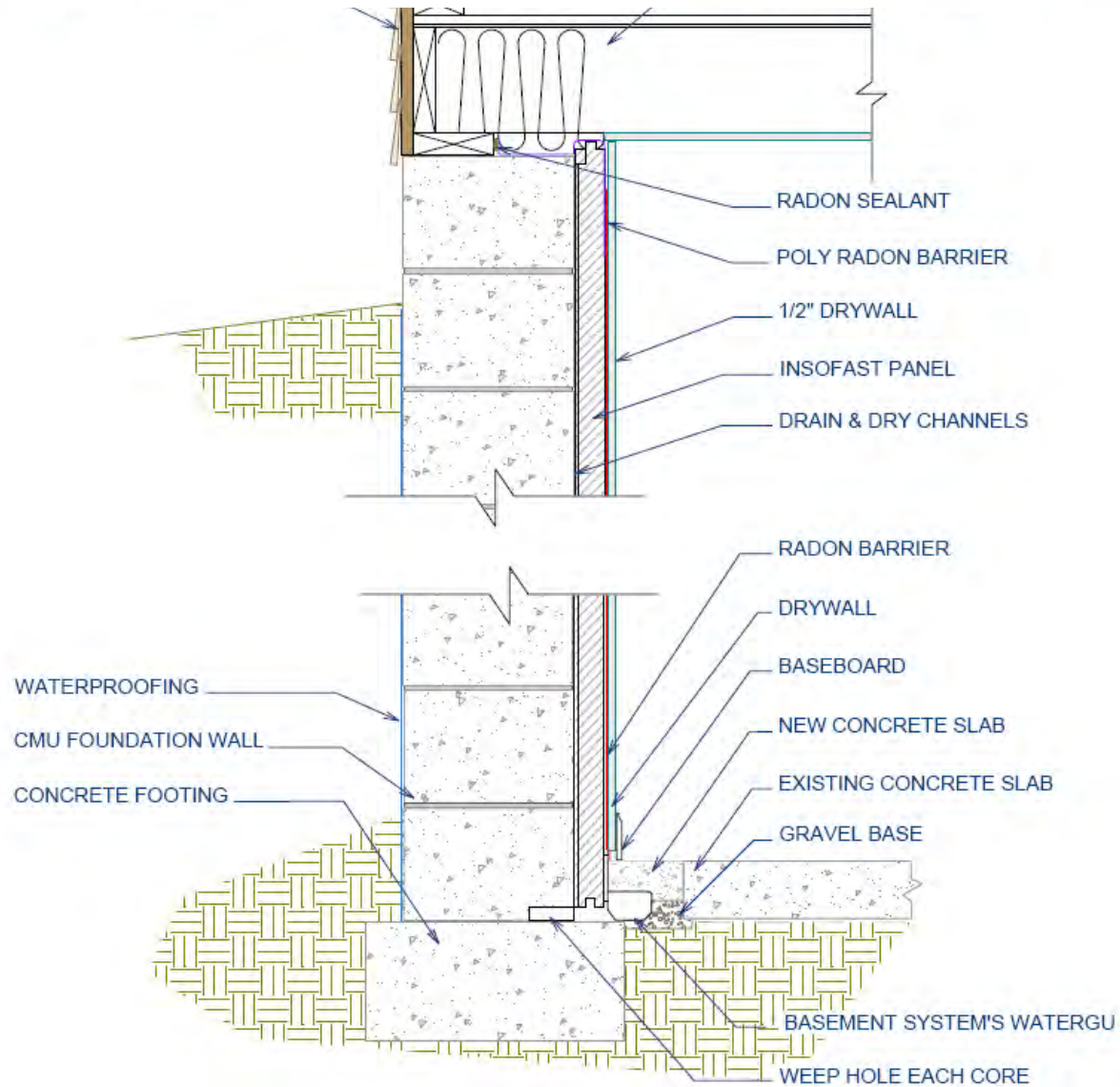
Fully Insulated Attachment Stud

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Self framing insulating panels
Closed cell EPS Foam insulation
Insulated polypropylene studs

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Interior French Drain or Trench



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Interior French Drain or Trench

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Engineered Insulation Panels

InSoFast Interview

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Boundary Conditions

$$m_v = \beta (P_{va} - P_{v\text{surf}}) + V_a \rho_v$$

$$\frac{\partial(\rho_m u)}{\partial t} = \nabla(-D_\phi \nabla \phi - \delta_p \nabla P_v + \rho_v V_a)$$

Moisture Balance

$$\frac{\partial \rho_a}{\partial t} + \nabla(\rho_a V_a) = 0$$

Air Balance

$$\frac{\partial(\rho_a V_a)}{\partial t} + \nabla(\rho_a V_a \cdot V_a) = -\nabla P_a + \nabla^2 \frac{\mu_a}{K_a} V_a + \rho_a g$$

Momentum Balance

Energy Balance

$$\rho_m C_p \frac{\partial T}{\partial t} = -\nabla(\rho_a C_p V_a T) + \nabla(k \nabla T) + \nabla[L_v (\delta_p \nabla P_v)] - L_{ice} \rho_m u \frac{\partial f_1}{\partial t}$$

The Governing Equation for profitability on a jobsite are the tradesmen in the field



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Thank-you for your interest!

For more information contact us at:

888-501-7899

Or visit us on line @

www.InSoFast.com

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