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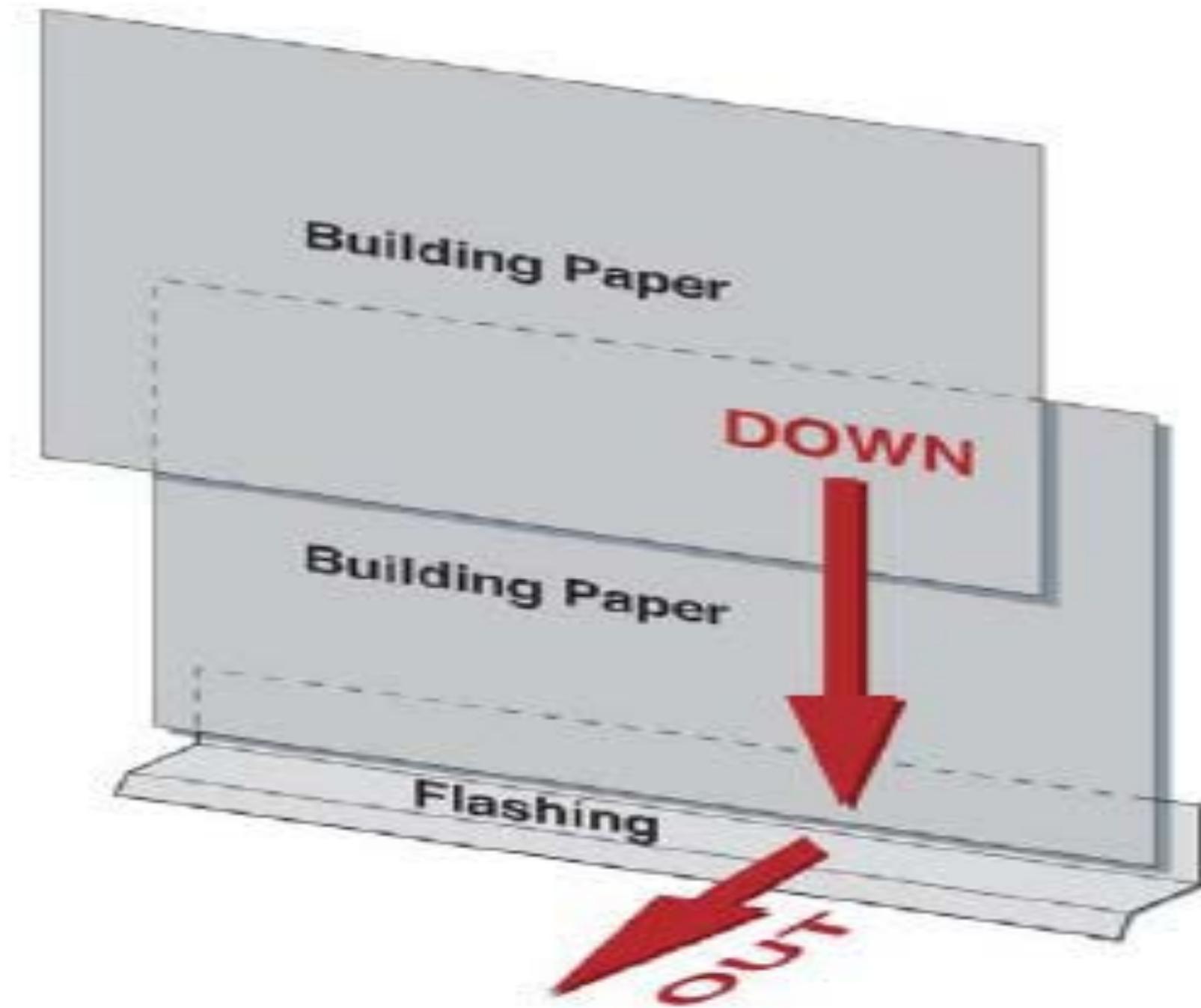
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ZIP SYSTEM
STRUCTURAL 1
1/2" ROOF AND WALL SHEATHING

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LIMITED WARRANTY
ADVANTECH FLOORING

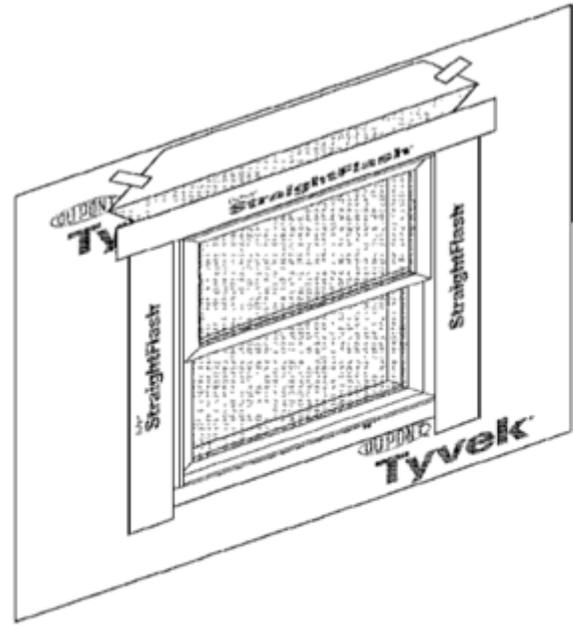
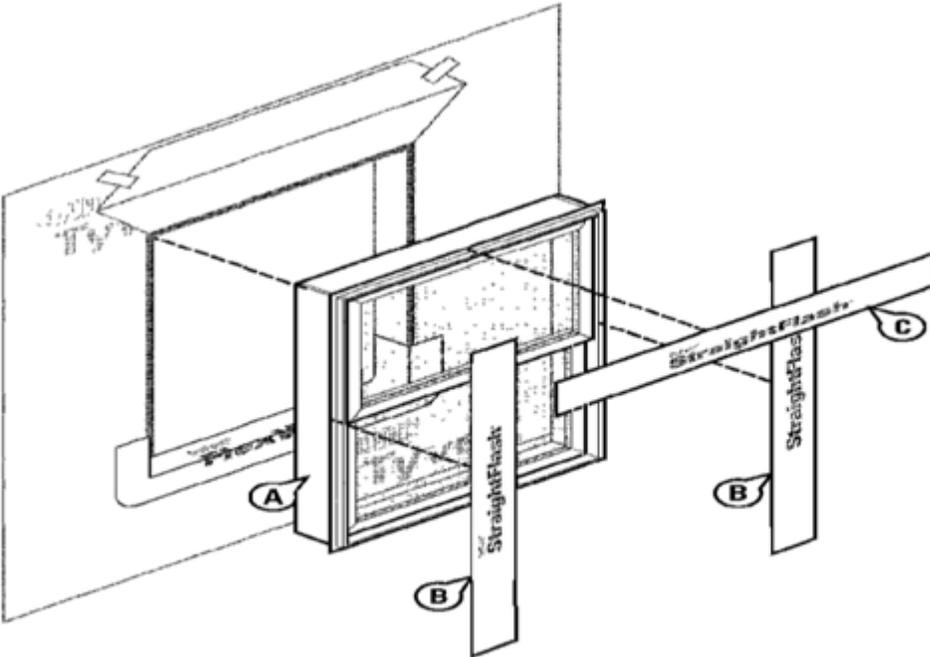
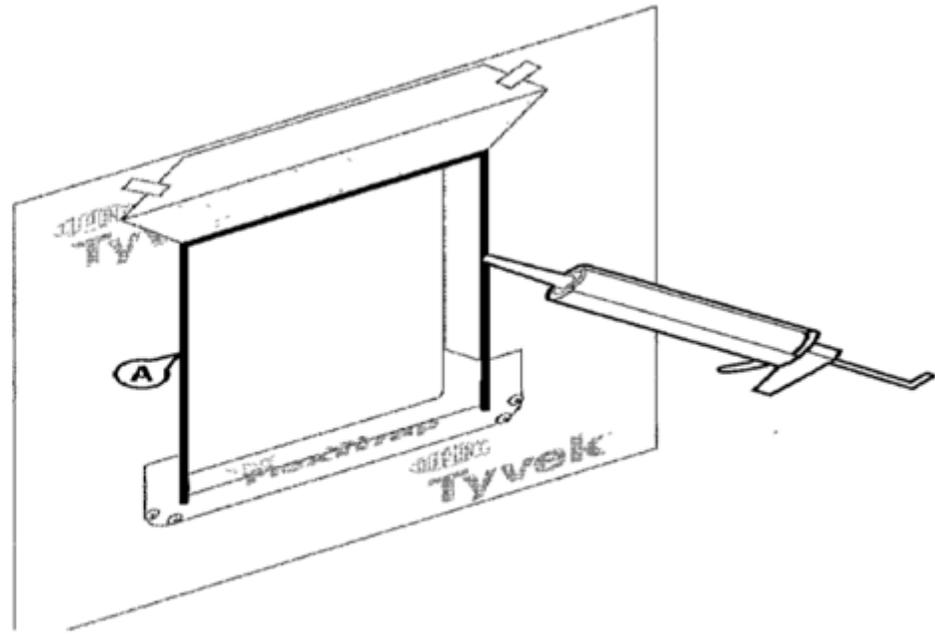


2/26/18



Proper Window Installation

- ▶ ASTM E 2112 Standard Practice for Installation of Exterior Windows, Doors, and Skylights OR Manufacturers Directions
 - ▶ Sloped sub-sill or beveled siding filler
 - ▶ Flexible pan and up the sides
 - ▶ Overlaps and drip cap
 - ▶ Caulk and seal corners
 - ▶ Double check your rough openings against actual unit dimensions.
- 





Air Barrier And Vapor Diffusion Retarder

- Air Sealing Techniques
 - This Is The Point Of No Return!!!!
 - Sealed Receptacles, Wires, Pipes, And Perforations
 - “Flanged” Boxes
 - Tapes And Sealants
 - Airflow – not vapor diffusion is the main source of moisture transmission
- 



Wall Choices

- Fiberglass batts – most expensive!
 - Rock wool
 - Closed cell foam
 - Open cell foam
 - Cellulose
 - Fiberglass BIB
 - Smart Vapor Retarder
- 





QUICKFLASH
WEATHERPROOFING PRODUCTS INC.

NO CAULKING UTILITY FLASHING PANEL
FITS LOW VOLTAGE ROUNDED WIRE,* COAXIAL CABLE AND
1/4" TO 1/2" SIZED PIPES

PART # E-LV
P-25

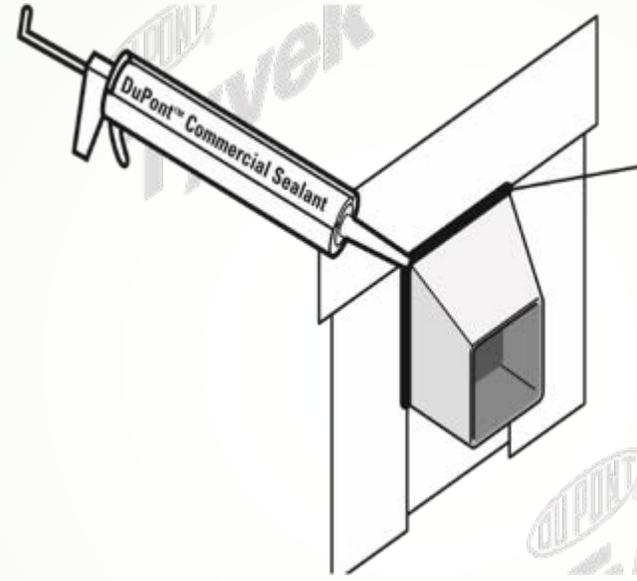
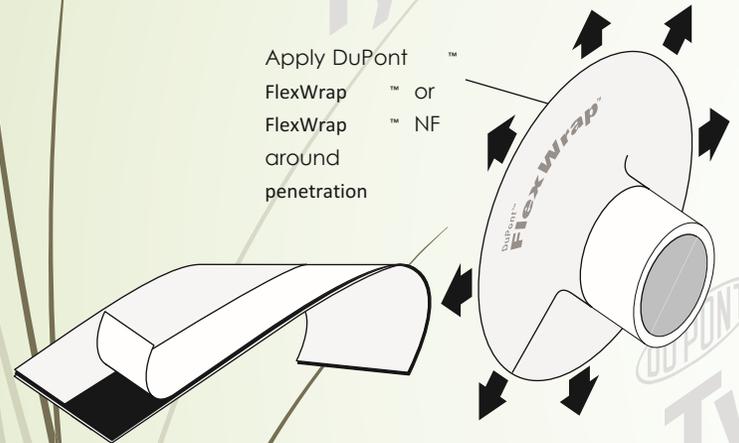
Warning!
Manufacturer will not warranty any panel that has
had the seal altered, been installed incorrectly
and/or mounted on a non-specified size.

* Refer to the Quickflash electrical cross reference guide
TECHNICAL ASSISTANCE CONTACT QUICKFLASH AT 1-800-963-8888

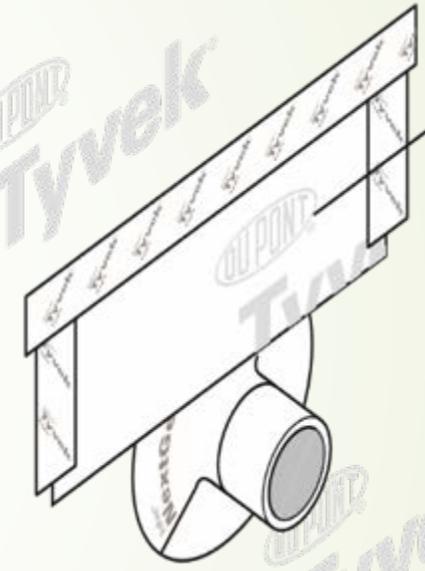
Scan for install guides or visit
www.QuickflashProducts.com

Made in the USA

Apply DuPont™
FlexWrap™ or
FlexWrap™ NF
around
penetration



Seal around
penetration
using DuPont
Commercial
Sealant or
DuPont
approved
sealant



Tape a piece of
DuPont™ Tyvek®
over the top of the
DuPont™ FlexWrap™







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Kinda, Sorta Has It.....







FOAMULAR® 250 Extruded Polystyrene (XPS)
Meets ASTM C 578 Type IV; California Quality Standard: HUD UM 471a
See ICC Legacy Report 9727A

CAUTION: This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For additional information, consult MSDS or contact Owens Corning World Headquarters at 1-800-GET-PINK®

R @ 75°F mean temperature. R means the resistance to heat flow; the higher the value, the greater the insulation power. This insulation must be installed properly to get the marked R-value. Follow the manufacturer's instructions carefully. If a manufacturer's fact sheet is not provided with the material, contact Owens Corning and review it carefully.



OWENS CORNING, LLC

















GILDAN

30748

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upward in some pos
this may cause the
to be damaged



06/08/2011







REPAIRS TO EXISTING WALLS
AND CEILING
TO BE COMPLETED
BEFORE THE
INSTALLATION OF
INSULATION
AND DRYWALL.

R-19

R-19



and
cess



THICKNESS 0.483 IN.

3/8" x 1/2" x 1/2" SPACING

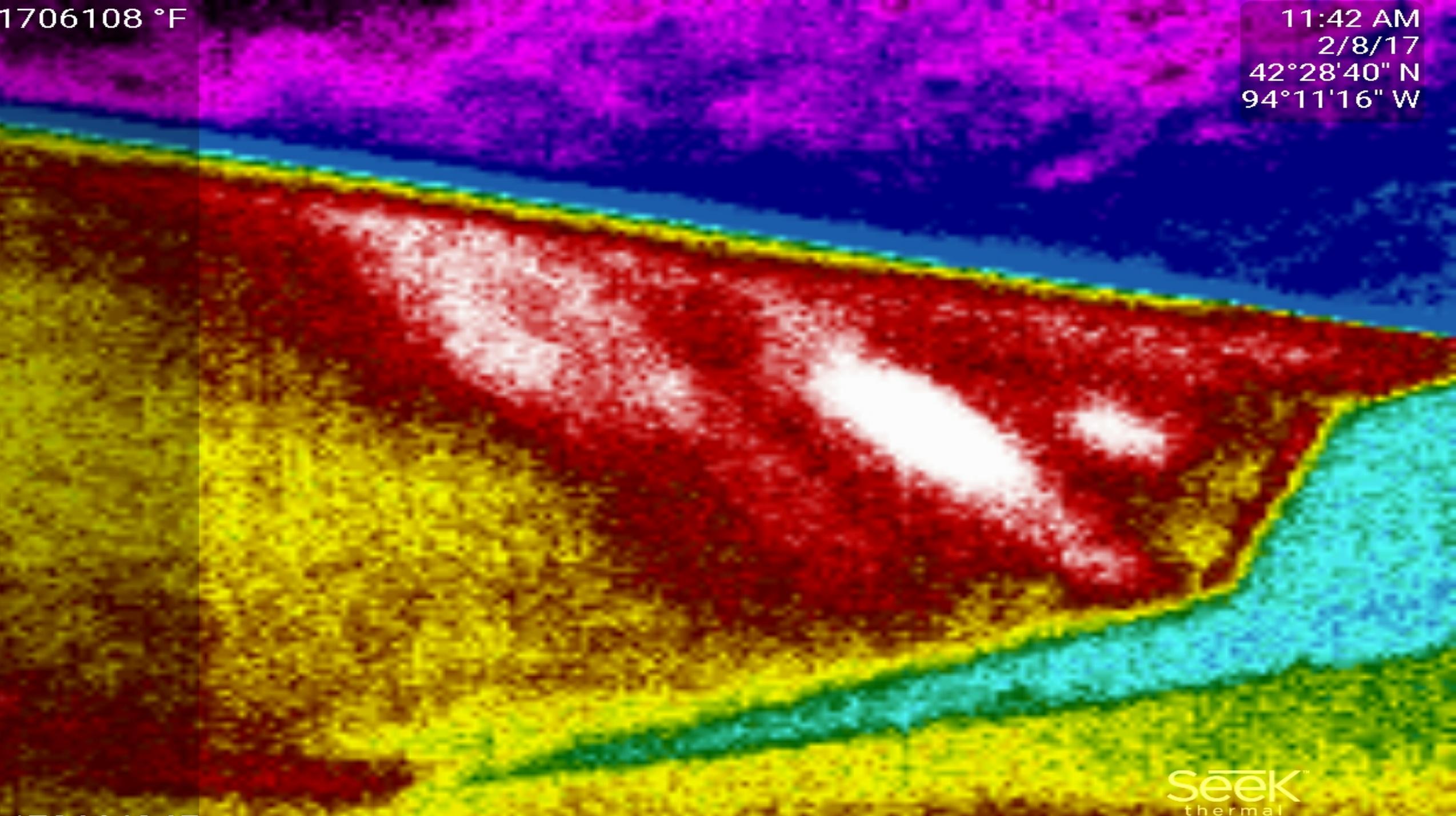
PR-108

2 CAT. EASY



1706108 °F

11:42 AM
2/8/17
42°28'40" N
94°11'16" W



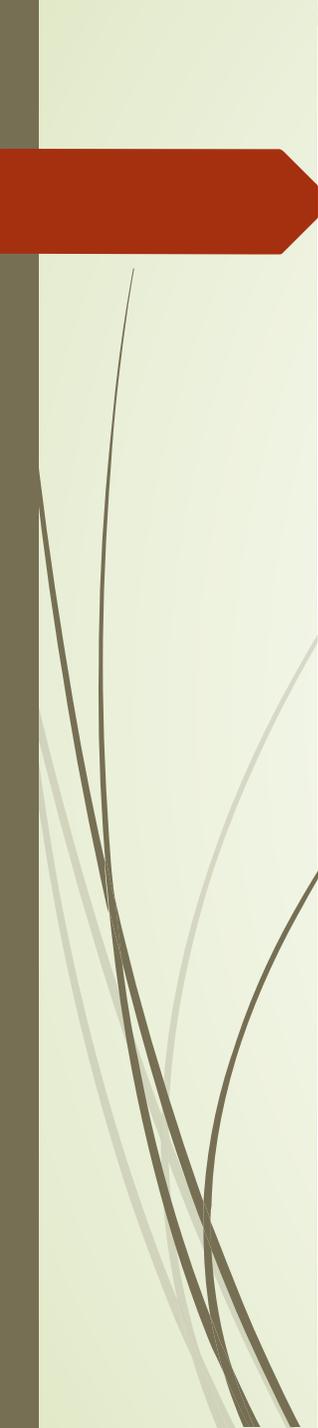
seeK
thermal















THERMO-PAN
Performance number is 1.5 RSI per inch

APA
P





How Do We Get Fresh Air?

Bath fans

Range hood fans

HRV

ERV

Windows

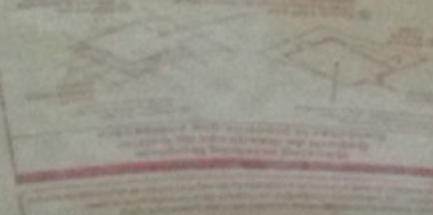
Fresh air intake

Fireplaces????





WARNING: This equipment is not to be used for any purpose other than that intended by the manufacturer. The user is responsible for the proper installation and use of this equipment. The manufacturer is not responsible for any damage or injury resulting from the use of this equipment.



INSTALLATION INSTRUCTIONS
SEE THE USER MANUAL FOR THE PROPER USE OF THIS EQUIPMENT.





ENERGY CODE COMPLIANCE CERTIFICATE—CLIMATE ZONE 6

This home was built under the 2009 International Energy Conservation Code, which was adopted by the State of Iowa on January 1, 2010

Home Address: _____

New Construction Addition (Remodeling does not apply)

Insulation R-Values (check applicable boxes below)

		Code	My Home
Ceiling/Roof	<input type="checkbox"/> Flat or Standard Attic Truss	R-49	
	<input type="checkbox"/> Raised Heel Truss	R-38	
Wood Framed Walls	<input type="checkbox"/> Above Grade	R-20 or R13+5	
	<input type="checkbox"/> Below Grade (Basement)	R-15/19	
Crawlspace Wall	<input type="checkbox"/> Conditioned	R-10/13	
Floor	<input type="checkbox"/> Over Unheated Space (Garage)	R-30	
	<input type="checkbox"/> Slab Perimeter or Under Slab (Unheated)	R-10	
	<input type="checkbox"/> Slab Perimeter or Under Slab (Heated)	R-10+R-5	
Skylights	<input type="checkbox"/> NFRC U-Factor Rating	U-.60	
Windows	<input type="checkbox"/> NFRC U-Factor Rating	U-.35	
Exterior Doors	<input type="checkbox"/> NFRC U-Factor Rating	U-.35	
Water Heater	<input type="checkbox"/> Gas Tank/Tankless Energy Factor (EF)	0.67 / 0.62	
	<input type="checkbox"/> Electric Tank/Tankless Energy Factor (EF)	0.97 / 0.93	
Heating Equipment	<input type="checkbox"/> Gas Furnace	78% AFUE	
	<input type="checkbox"/> Heat Pump	7.7 HSPF	
Cooling Equipment	<input type="checkbox"/> Gas or Electric Air Conditioner	13 SEER	
	<input type="checkbox"/> Heat Pump	13 SEER	
Ductwork	<input type="checkbox"/> Air-Sealing of Ductwork (Mandatory)		
	If supply ducts in non-conditioned attic, then	R-8	
	Any other ducts in non-conditioned space, then	R-6	
	<input type="checkbox"/> Duct Blaster Test (rough-in@ 25 pascals)	6 cfm/100sf	
Envelope Air Sealing	<input type="checkbox"/> Visual Inspection		
	<input type="checkbox"/> Blower Door Performance Test	7.0 ACH 50	

Signing below certifies compliance with the 2009 IECC

Builder Name: _____

Company: _____ Permit #: _____

This certificate must be permanently affixed to the electrical panel in the home as required by the 2009 IECC section 401.3





Questions??



Bill McAnally

mcanally.bill@gmail.com

Sources

- BuildingGreen Inc.
- Construction Instruction CI
- Green Building Advisor
- Building Science Corporation
- University of Minnesota Cold Climate Housing
- Pinterest