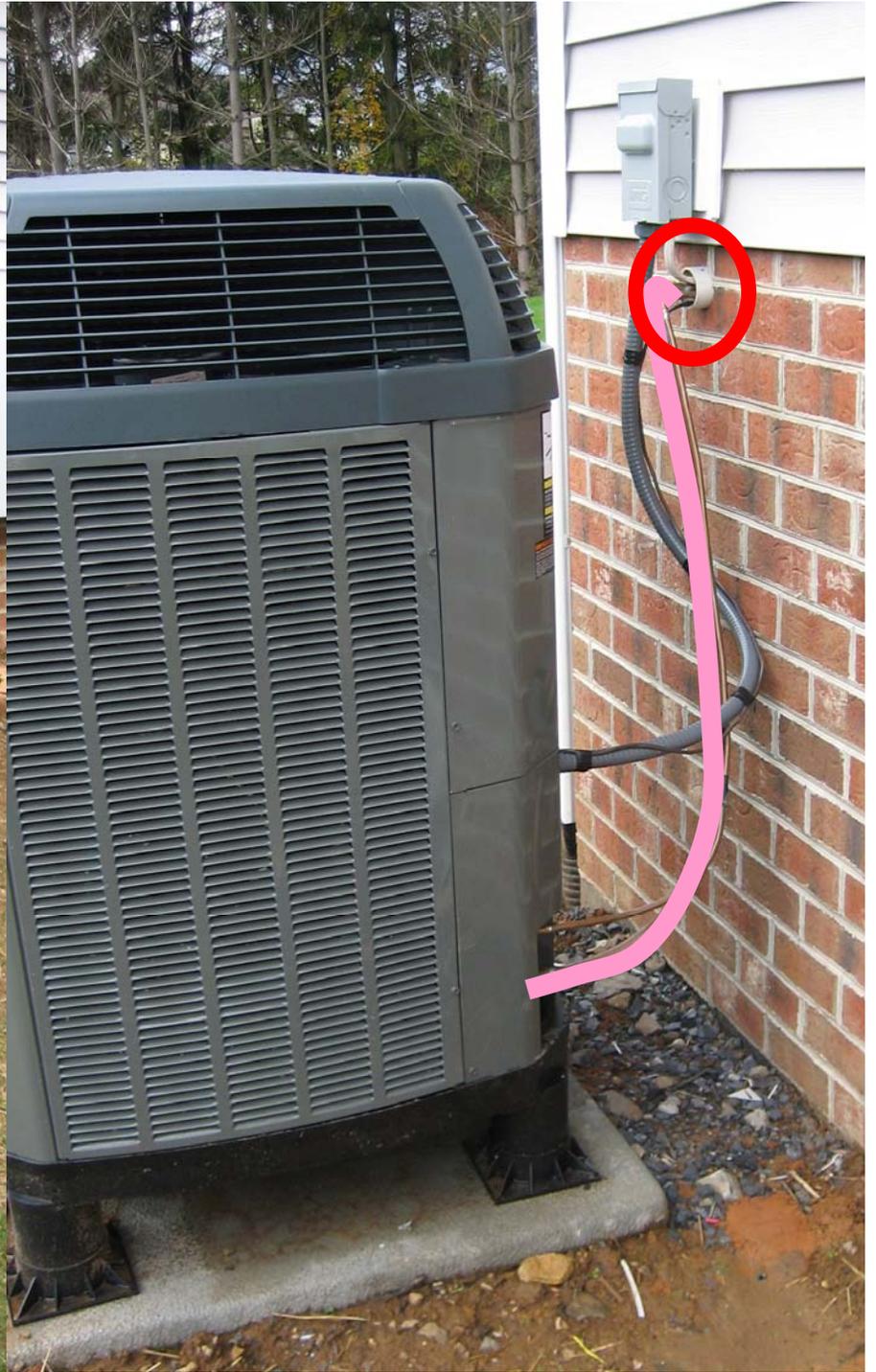


Final Inspection



2006 IECC or Pima County (other than SES): REScheck cannot be used to determine compliance for houses with multiple heating or cooling equipment. High efficiency equipment tradeoff is available only for single-zone systems. For houses with multiple heating or cooling equipment, use a performance-based compliance tool.













Lets Go Inside

Start at the top and work your way down to the basement.



09/19/2006

ENERGY COMPLIANCE INFORMATION

Address: 185 HOLLY RIDGE DRIVE (LOT 219 - STEARNS CROSSING)

Compliance Method: (circle one) chap. 11 IRC, (PA. alt.) IECC (specify): _____

Furnace type (gas, oil, etc.): NATURAL GAS / ELECT. A.C. input eff. %: 90% +

Exterior doors max. U-factor: .35 & min. R-value: 2.86 total sq. ft.: 85

Window manufacturer: MW WINDOWS + DOORS & max. Ufactor: .34

unit #	Location	sq. ft.	unit #	Location	sq. ft.
2862X9	Dining Rm, Master Bedroom, Great Rm, + Breakfast Rm	162	28310X1	Utility Room	12
2446X2	Master Bedroom	25	2462X2	Great Room	16
24310X1	Master Bath	10	2446X3	2nd Floor Corridor	37.50
2852X2	Master Bath	33	2852X4	Bedroom 142 Bonus Rm 142	66.00
CA1535/CA2445/ CA1535	Kitchen	23	VSE306X2	Bonus Rm 142	18.00

Insulation R value: ceiling: R38 walls: R19 floors: R21 fnd/crawl: N/A slab: (edge / floor): N/A

Type of insulation: (circle one) [fiberglass] foam, other [foam (circle) interior/exterior]

Duct insulation	IRC	PA. alt	IECC	
			Supply	return
Attic (vented)	5	4.3	8	4
Basements	5	4.3	8	0
Crawlspace	5	4.3	8	2
Ex. Wall	8	6.4	8	8
Garage	5	4.3	8	2

- NOTES:**
- (1) Foam insulation must be protected from sun & weather as per installation guide.
 - (2) Flash around exterior windows as per manufacturer
 - (3) Fiberglass & foam insulation on interior of basements Must be covered unless manufacturer allows otherwise.
 - (4) Seal all openings in exterior walls with caulk or foam product before framing inspection
 - (5) Exterior wall coverings must be installed as per Manufacturers installation guide

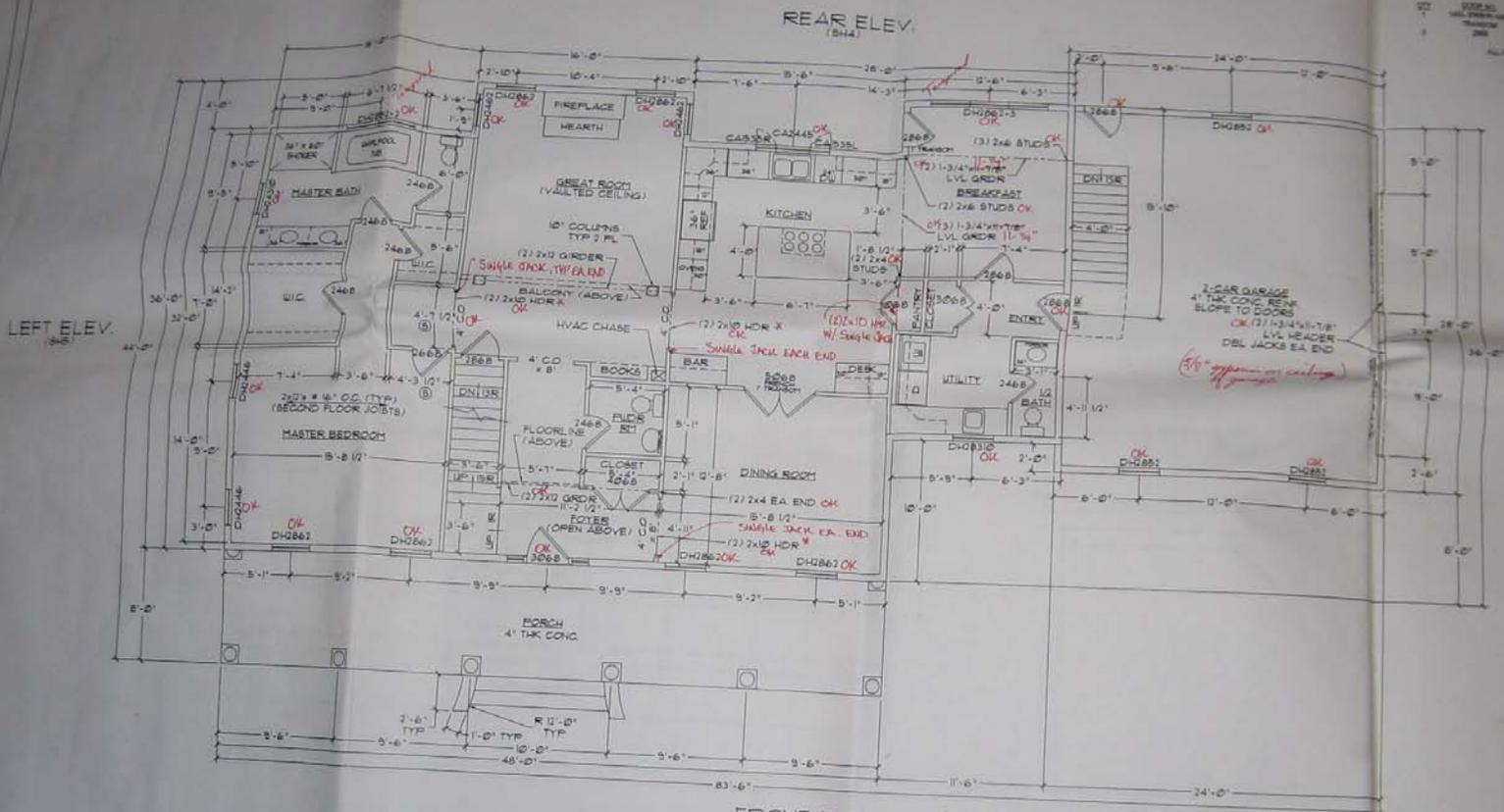
BY: _____

Steve Hackman Builders

1200

NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION
2. CONTRACTOR SHALL VERIFY ALL LOCAL BUILDING CODES ARE MET OR EXCEEDED
3. ALL LUMBER USED SHALL BE APPS OR BETTER.
4. WALL SCHEDULES:
 - EXTERNAL HOUSE WALLS SHALL BE 4"
 - INTERNAL HOUSE WALLS SHALL BE 2 1/2"
 - EXTERNAL GARAGE WALLS SHALL BE 4"



FRONT ELEV. (544)
 FIRST FLOOR PLAN
 1ST FLOOR = 1815 S/F
 GARAGE = 658 S/F

* IF FLOOR JOISTS ARE TO FRAME INTO THE SIDES OF HEADER, USE (2)2x12"
 (2)2x10" ADEQUATE IF FLOOR JOIST PASS OVER TOP OF HEADER

1st Floor Window/Door and Header Schedule

NO.	SYMBOL	SIZE	TYPE	FINISH	MARK
1	DOOR	3'0" x 7'0"	SW	WOOD	DR1
2	DOOR	3'0" x 7'0"	SW	WOOD	DR2
3	DOOR	3'0" x 7'0"	SW	WOOD	DR3
4	DOOR	3'0" x 7'0"	SW	WOOD	DR4
5	DOOR	3'0" x 7'0"	SW	WOOD	DR5
6	DOOR	3'0" x 7'0"	SW	WOOD	DR6
7	DOOR	3'0" x 7'0"	SW	WOOD	DR7
8	DOOR	3'0" x 7'0"	SW	WOOD	DR8
9	DOOR	3'0" x 7'0"	SW	WOOD	DR9
10	DOOR	3'0" x 7'0"	SW	WOOD	DR10
11	DOOR	3'0" x 7'0"	SW	WOOD	DR11
12	DOOR	3'0" x 7'0"	SW	WOOD	DR12
13	DOOR	3'0" x 7'0"	SW	WOOD	DR13
14	DOOR	3'0" x 7'0"	SW	WOOD	DR14
15	DOOR	3'0" x 7'0"	SW	WOOD	DR15
16	DOOR	3'0" x 7'0"	SW	WOOD	DR16
17	DOOR	3'0" x 7'0"	SW	WOOD	DR17
18	DOOR	3'0" x 7'0"	SW	WOOD	DR18
19	DOOR	3'0" x 7'0"	SW	WOOD	DR19
20	DOOR	3'0" x 7'0"	SW	WOOD	DR20
21	DOOR	3'0" x 7'0"	SW	WOOD	DR21
22	DOOR	3'0" x 7'0"	SW	WOOD	DR22
23	DOOR	3'0" x 7'0"	SW	WOOD	DR23
24	DOOR	3'0" x 7'0"	SW	WOOD	DR24
25	DOOR	3'0" x 7'0"	SW	WOOD	DR25
26	DOOR	3'0" x 7'0"	SW	WOOD	DR26
27	DOOR	3'0" x 7'0"	SW	WOOD	DR27
28	DOOR	3'0" x 7'0"	SW	WOOD	DR28
29	DOOR	3'0" x 7'0"	SW	WOOD	DR29
30	DOOR	3'0" x 7'0"	SW	WOOD	DR30
31	DOOR	3'0" x 7'0"	SW	WOOD	DR31
32	DOOR	3'0" x 7'0"	SW	WOOD	DR32
33	DOOR	3'0" x 7'0"	SW	WOOD	DR33
34	DOOR	3'0" x 7'0"	SW	WOOD	DR34
35	DOOR	3'0" x 7'0"	SW	WOOD	DR35
36	DOOR	3'0" x 7'0"	SW	WOOD	DR36
37	DOOR	3'0" x 7'0"	SW	WOOD	DR37
38	DOOR	3'0" x 7'0"	SW	WOOD	DR38
39	DOOR	3'0" x 7'0"	SW	WOOD	DR39
40	DOOR	3'0" x 7'0"	SW	WOOD	DR40
41	DOOR	3'0" x 7'0"	SW	WOOD	DR41
42	DOOR	3'0" x 7'0"	SW	WOOD	DR42
43	DOOR	3'0" x 7'0"	SW	WOOD	DR43
44	DOOR	3'0" x 7'0"	SW	WOOD	DR44
45	DOOR	3'0" x 7'0"	SW	WOOD	DR45
46	DOOR	3'0" x 7'0"	SW	WOOD	DR46
47	DOOR	3'0" x 7'0"	SW	WOOD	DR47
48	DOOR	3'0" x 7'0"	SW	WOOD	DR48
49	DOOR	3'0" x 7'0"	SW	WOOD	DR49
50	DOOR	3'0" x 7'0"	SW	WOOD	DR50
51	DOOR	3'0" x 7'0"	SW	WOOD	DR51
52	DOOR	3'0" x 7'0"	SW	WOOD	DR52
53	DOOR	3'0" x 7'0"	SW	WOOD	DR53
54	DOOR	3'0" x 7'0"	SW	WOOD	DR54
55	DOOR	3'0" x 7'0"	SW	WOOD	DR55
56	DOOR	3'0" x 7'0"	SW	WOOD	DR56
57	DOOR	3'0" x 7'0"	SW	WOOD	DR57
58	DOOR	3'0" x 7'0"	SW	WOOD	DR58
59	DOOR	3'0" x 7'0"	SW	WOOD	DR59
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61	DOOR	3'0" x 7'0"	SW	WOOD	DR61
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64	DOOR	3'0" x 7'0"	SW	WOOD	DR64
65	DOOR	3'0" x 7'0"	SW	WOOD	DR65
66	DOOR	3'0" x 7'0"	SW	WOOD	DR66
67	DOOR	3'0" x 7'0"	SW	WOOD	DR67
68	DOOR	3'0" x 7'0"	SW	WOOD	DR68
69	DOOR	3'0" x 7'0"	SW	WOOD	DR69
70	DOOR	3'0" x 7'0"	SW	WOOD	DR70
71	DOOR	3'0" x 7'0"	SW	WOOD	DR71
72	DOOR	3'0" x 7'0"	SW	WOOD	DR72
73	DOOR	3'0" x 7'0"	SW	WOOD	DR73
74	DOOR	3'0" x 7'0"	SW	WOOD	DR74
75	DOOR	3'0" x 7'0"	SW	WOOD	DR75
76	DOOR	3'0" x 7'0"	SW	WOOD	DR76
77	DOOR	3'0" x 7'0"	SW	WOOD	DR77
78	DOOR	3'0" x 7'0"	SW	WOOD	DR78
79	DOOR	3'0" x 7'0"	SW	WOOD	DR79
80	DOOR	3'0" x 7'0"	SW	WOOD	DR80
81	DOOR	3'0" x 7'0"	SW	WOOD	DR81
82	DOOR	3'0" x 7'0"	SW	WOOD	DR82
83	DOOR	3'0" x 7'0"	SW	WOOD	DR83
84	DOOR	3'0" x 7'0"	SW	WOOD	DR84
85	DOOR	3'0" x 7'0"	SW	WOOD	DR85
86	DOOR	3'0" x 7'0"	SW	WOOD	DR86
87	DOOR	3'0" x 7'0"	SW	WOOD	DR87
88	DOOR	3'0" x 7'0"	SW	WOOD	DR88
89	DOOR	3'0" x 7'0"	SW	WOOD	DR89
90	DOOR	3'0" x 7'0"	SW	WOOD	DR90
91	DOOR	3'0" x 7'0"	SW	WOOD	DR91
92	DOOR	3'0" x 7'0"	SW	WOOD	DR92
93	DOOR	3'0" x 7'0"	SW	WOOD	DR93
94	DOOR	3'0" x 7'0"	SW	WOOD	DR94
95	DOOR	3'0" x 7'0"	SW	WOOD	DR95
96	DOOR	3'0" x 7'0"	SW	WOOD	DR96
97	DOOR	3'0" x 7'0"	SW	WOOD	DR97
98	DOOR	3'0" x 7'0"	SW	WOOD	DR98
99	DOOR	3'0" x 7'0"	SW	WOOD	DR99
100	DOOR	3'0" x 7'0"	SW	WOOD	DR100

RIGHT ELEV. (545)

SMOKE DETECTOR

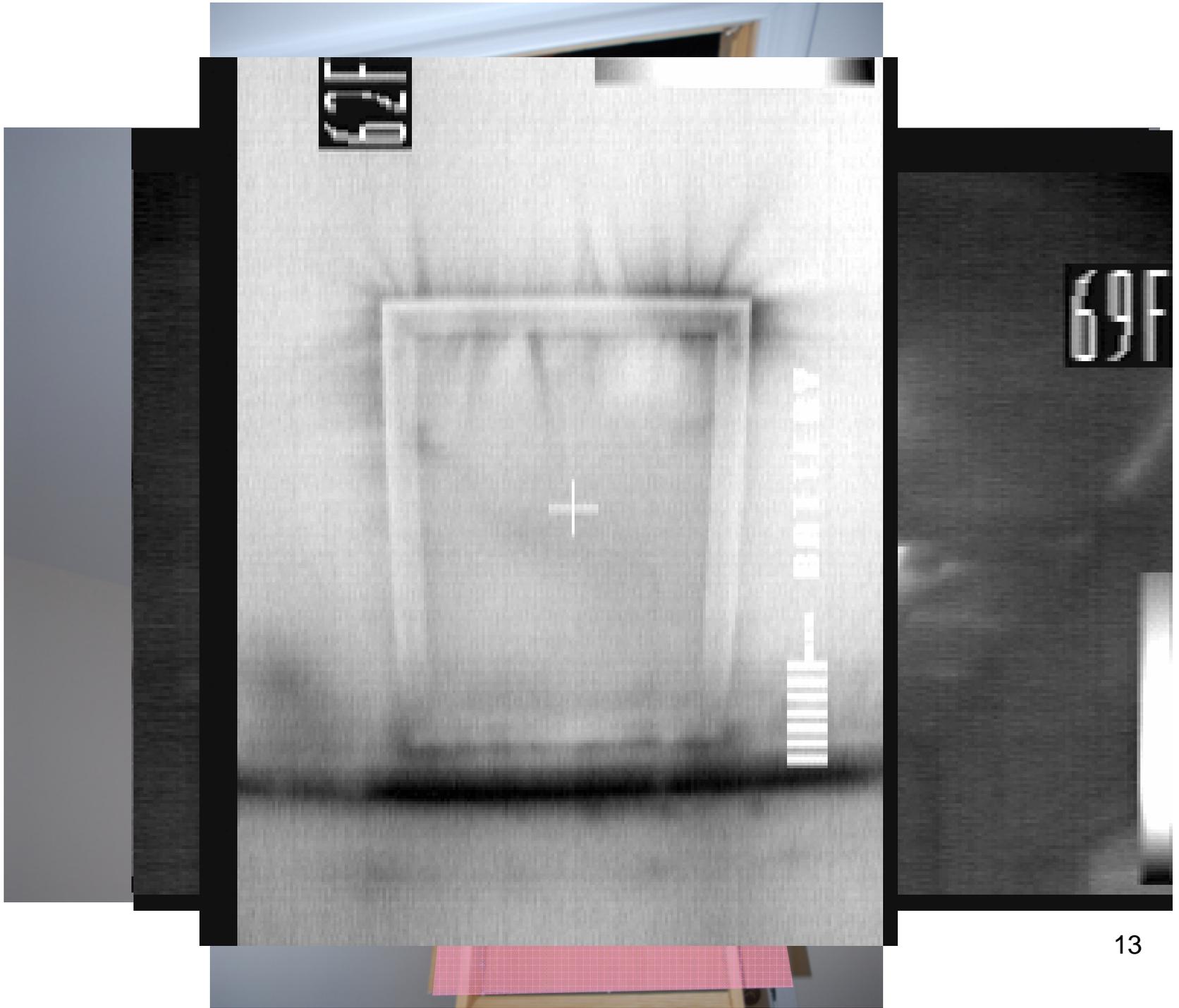
3	4/16/14	REVISED (ALL SITS)	
1	4/8/14	REVISION (ALL SITS)	
1	3/28/14	REVISION FOR CUSTOMER APPROVAL (ALL SITS)	
REV	DATE	REVISION	BY

THIS DRAWING WAS CREATED USING CAD. DO NOT REVISE MANUALLY

MARTHAN RESIDENCE 1ST FLOOR PLAN
 LOT 378 STEARNS CROSSING STATE COLLEGE PA
 TOTAL FINISHED SQ FOOTAGE = 2474 S/F

DATE: 10/20/14
 DRAWN BY: DJONAHON
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

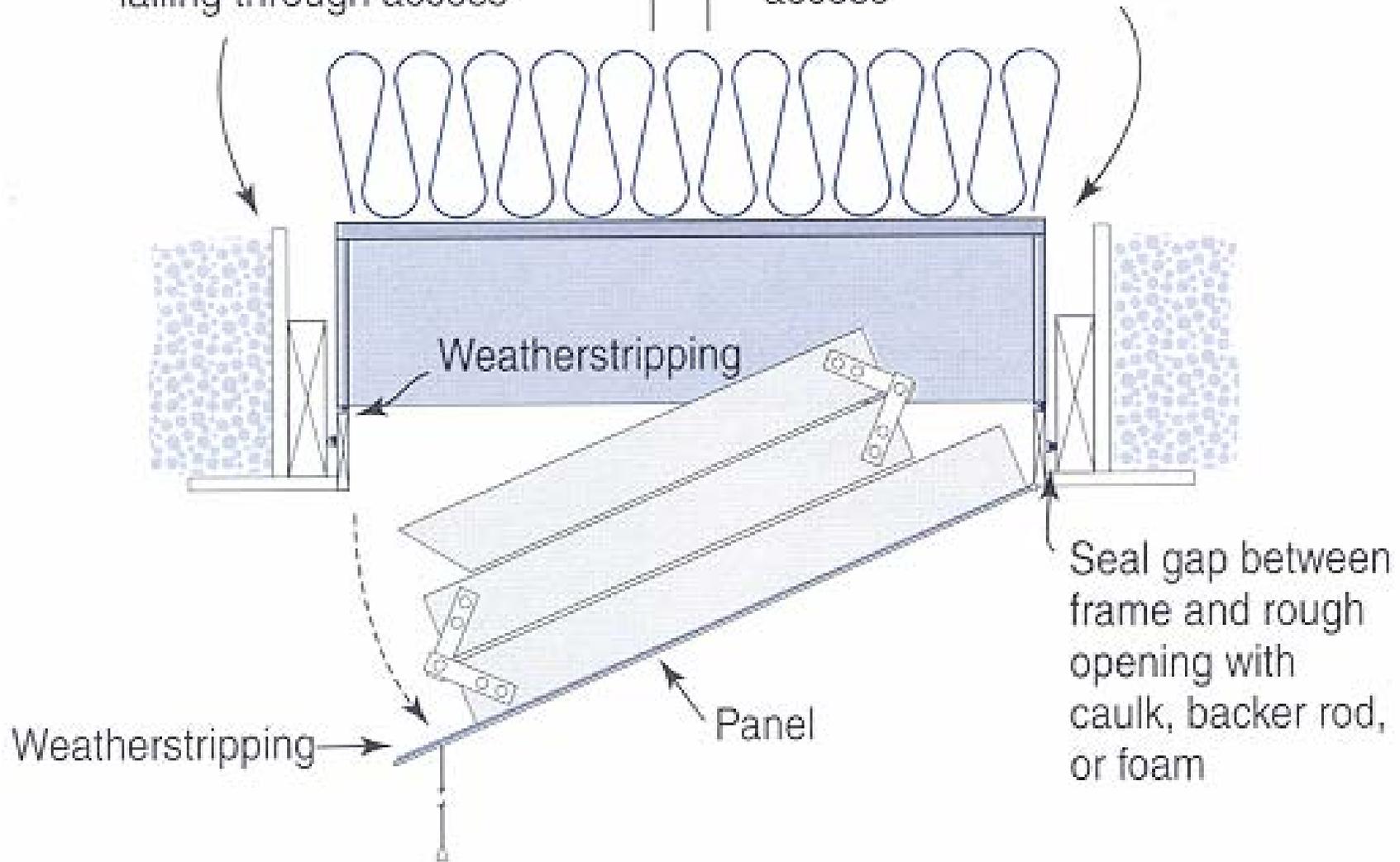
Steve Hackman Builders
 1200-101

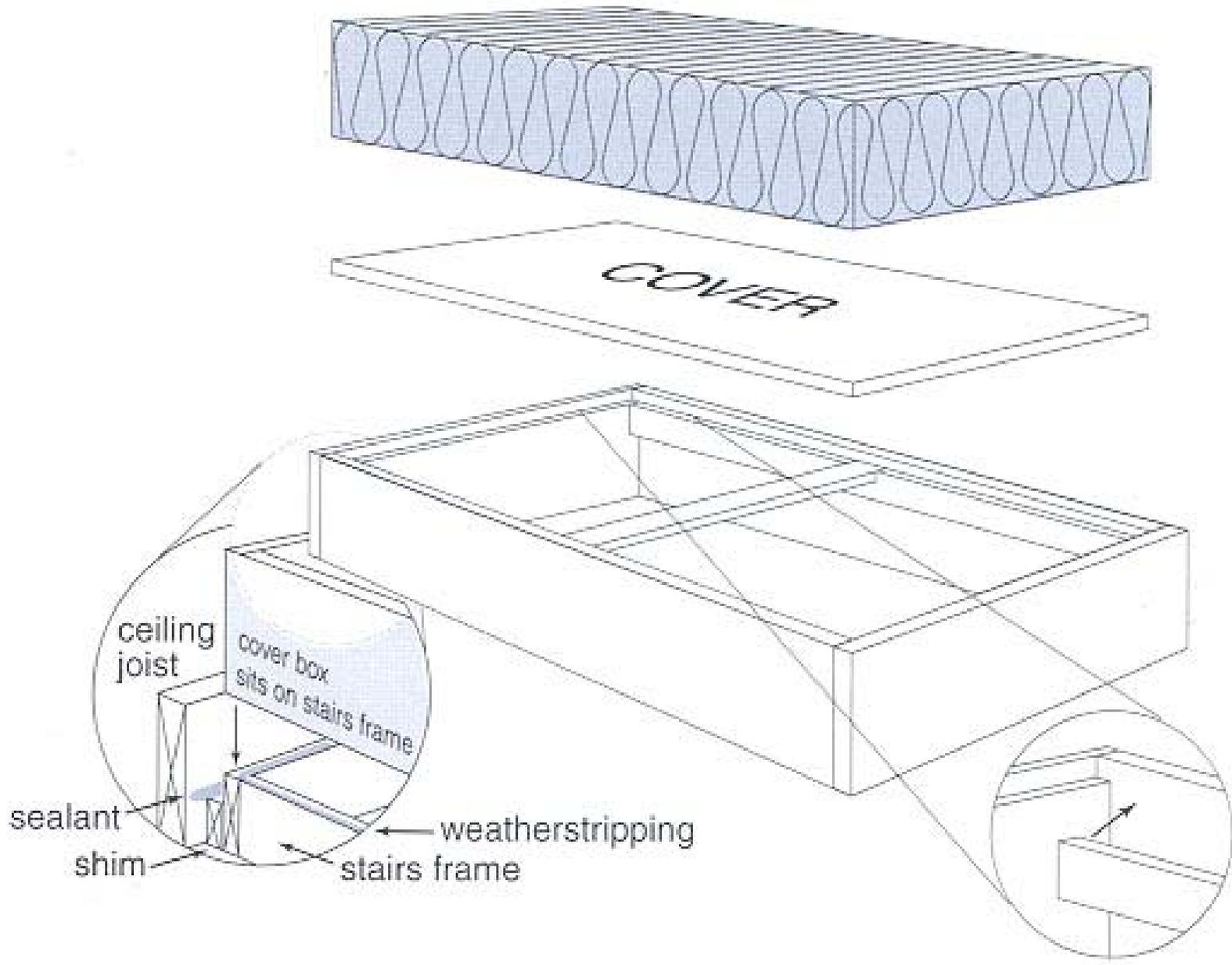


PULL-DOWN ATTIC STAIRS

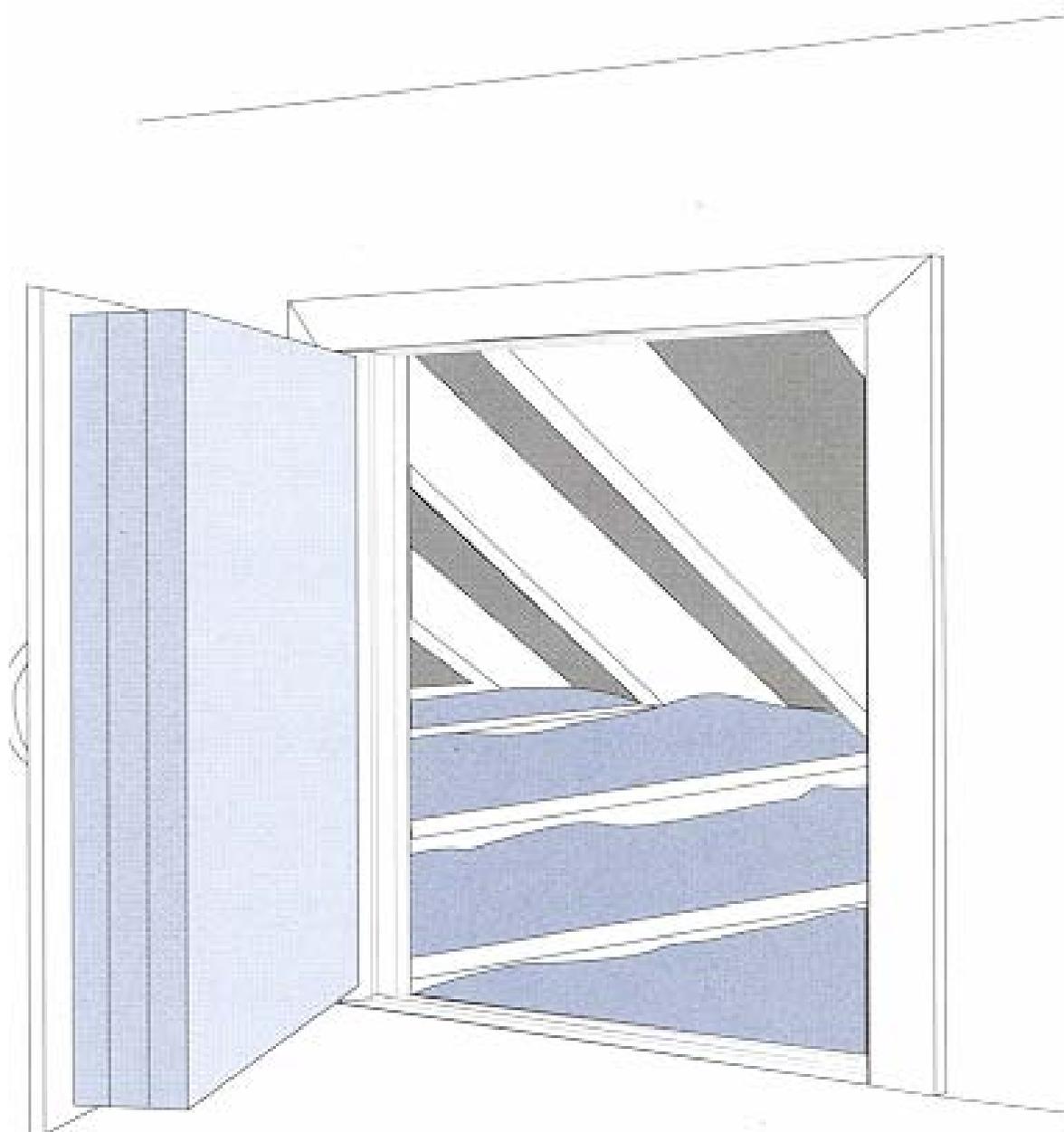
Insulation dams prevent loose-fill insulation from falling through access

Cover box pushes up and out of the way for access





KNEE-WALL DOOR







R-22	2x4	13.5	11.5	10.8
	2x6	14.5	12.5	11.8
	2x8	15.5	13.5	12.8
	2x10	16.5	14.5	13.8
R-19	2x4	12.5	10.5	9.8
	2x6	13.5	11.5	10.8
	2x8	14.5	12.5	11.8
	2x10	15.5	13.5	12.8
R-13	2x4	7.5	6.5	5.8
	2x6	8.5	7.5	6.8
	2x8	9.5	8.5	7.8
	2x10	10.5	9.5	8.8
R-11	2x4	6.5	5.5	4.8
	2x6	7.5	6.5	5.8
	2x8	8.5	7.5	6.8
	2x10	9.5	8.5	7.8

KNAUF
 © 2005 Knauf Insulation Group
 KNAUF INSULATION GROUP One Knauf Drive, Shelbyville, TN 38170 (800) 425-4424 ext. 8100 Fax (615) 736-3873 www.KnaufUSA.com

Instructions to provide R-Value of R-_____ using _____ bags of this insulation to cover _____ square feet of area at a minimum thickness of _____ inches.

Residence Complete (signature) _____ Date _____
 Company _____
 Home Builder (signature) _____
 Company _____



THERMAL PLUS INSULATION
 OF [REDACTED]

GREEN FIBER (COCON) www.us-gf.com
 CERTAINTEED www.certainteed.com
 KNAUF www.KnaufUSA.com



This attic has been insulated to: **R: 38/19**

with Knauf insulation

Residence Address: 165 Stearns

Builder: GEM Const

	R-Value	Thickness	Bags	Sq Ft
Main Ceiling	38	13	33	1576
<u>Garage</u> Ceiling	19	6.75	4 6.00	528
_____ Ceiling				
_____ Ceiling				

Certification:
 I certify that the residence identified was insulated as specified and the installation was conducted to conform to applicable codes, material standards and regulations.

[Signature]
 Installer's Authorized Signature

10/6/06
 Date

WHITE - THERMAL PLUS • CANARY • BUILDER • BUILDER • PINK - STAYS IN ATTIC

BATTS AND BLANKETS

When installed in accordance with the manufacturer's recommendations, Knauf batts and blankets will provide the full R-value.

R-VALUE* To obtain an insulation resistance (R-Value) of:	MINIMUM THICKNESS Installed insulation should not be less than:
R-38HD	10.25"
R-38	12.00"
R-30HD	8.25"
R-30	10.00"
R-26	9.00"
R-22	6.50"
R-21HD	5.50"
R-19	6.25***
R-15HD	3.50"
R-13	3.50"
R-11	3.50"
R-8	2.50"

**R-18 in a 5.5" cavity. Conforms to ASTM C 665 and Federal Specification HH-I-521F.

THERMAL PERFORMANCE (ATTIC APPLICATION)

The stated thermal resistance (R-value) is provided by installing in accordance with the manufacturer's instructions, the required number of bags per 1,000 sq. ft. of net area, at not less than the labeled minimum thickness. Failure to install both the required number of bags and at least the minimum thickness will result in lower insulation R-value.

R-VALUE*	BAGS/1,000 SF	MAXIMUM COVERAGE	MINIMUM WEIGHT	INITIAL INSTALLED THICKNESS	MINIMUM SETTLED THICKNESS**
To obtain an insulation resistance (R-Value) of:	The number of bags/1,000 SF of net area should not be less than:	Contents of this bag should not cover more than:	The weight/SF of installed insulation should not be less than:	Installed insulation should not be less than:	Installed insulation should not be less than:
R-60	31.7	31.5 SF	.952 LBS	19.75"	19.75"
R-49	25.3	39.5 SF	.760 LBS	16.50"	16.50"
R-44	22.1	45.3 SF	.663 LBS	14.75"	14.75"
R-38	19.0	52.7 SF	.569 LBS	13.00"	13.00"
R-30	14.4	69.7 SF	.431 LBS	10.25"	10.25"
R-26	12.4	80.9 SF	.371 LBS	9.00"	9.00"
R-22	10.4	95.8 SF	.313 LBS	7.75"	7.75"
R-19	8.9	111.8 SF	.268 LBS	6.75"	6.75"
R-13	6.1	164.3 SF	.183 LBS	4.75"	4.75"
R-11	5.1	197.6 SF	.152 LBS	4.00"	4.00"

Bag Net Weight—Nominal 30 lbs., Minimum 29 lbs.

Coverage and installation data were determined using a Volu-Matic® II blowing machine in third gear with 13" gate opening, 2.0 psi air pressure and 150' of 3" internally-corrugated hose.

This product conforms to the performance requirements of ASTM C 764, Type I, and cancelled Federal Specification HH-I-1030B, Type I, Class B. R-values are determined in accordance with C 687 and C 518.

* "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. If you do it yourself, get instructions and follow them carefully. Instructions do not come with this package.

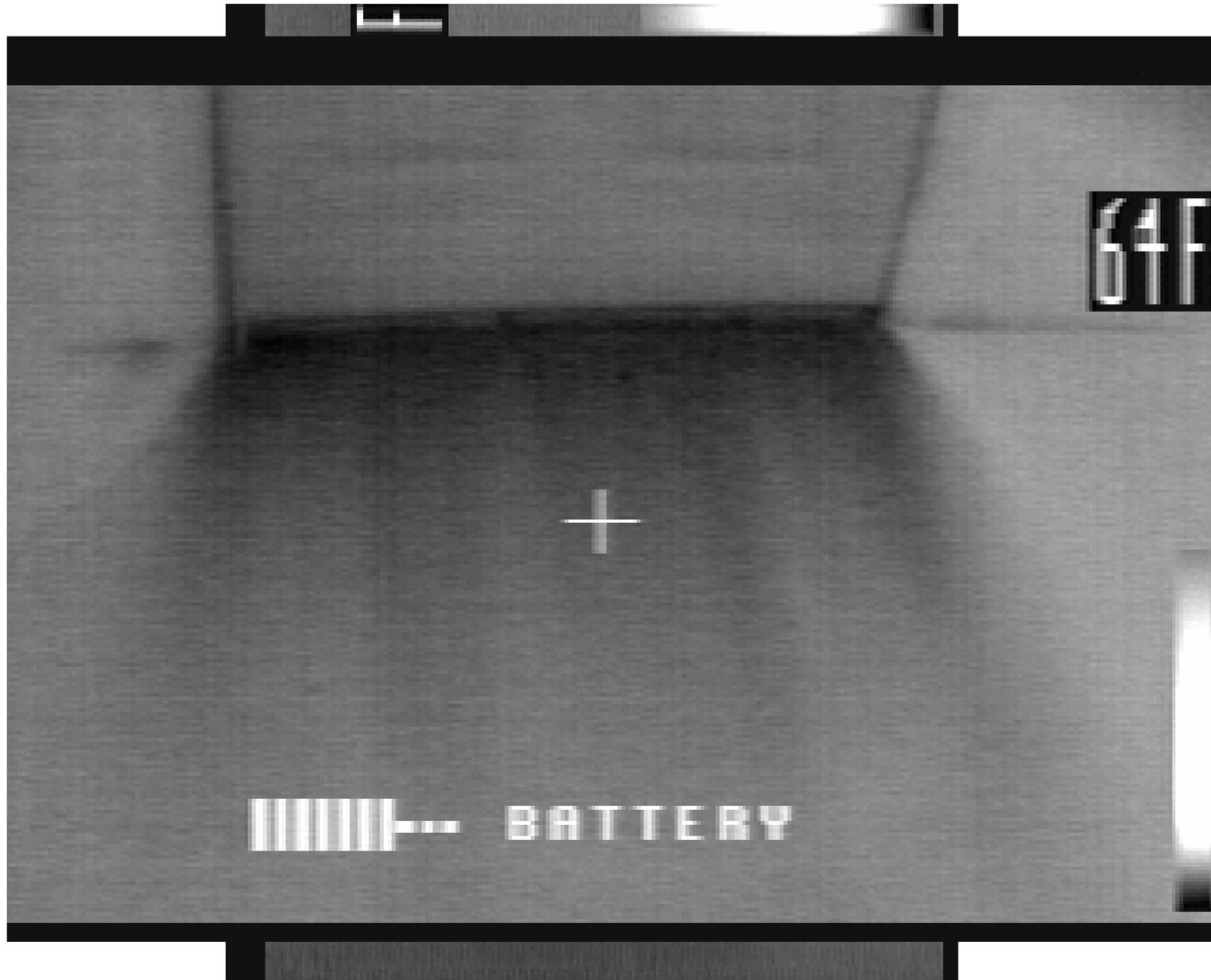
**Independent testing shows average settling for this type of insulation is 0.07+/- 0.03 inches, affecting the R-value by less than one half of one percent, which is thermally insignificant.

Volu-Matic® is a registered trademark of Unisul.

EQUIPMENT REQUIRED

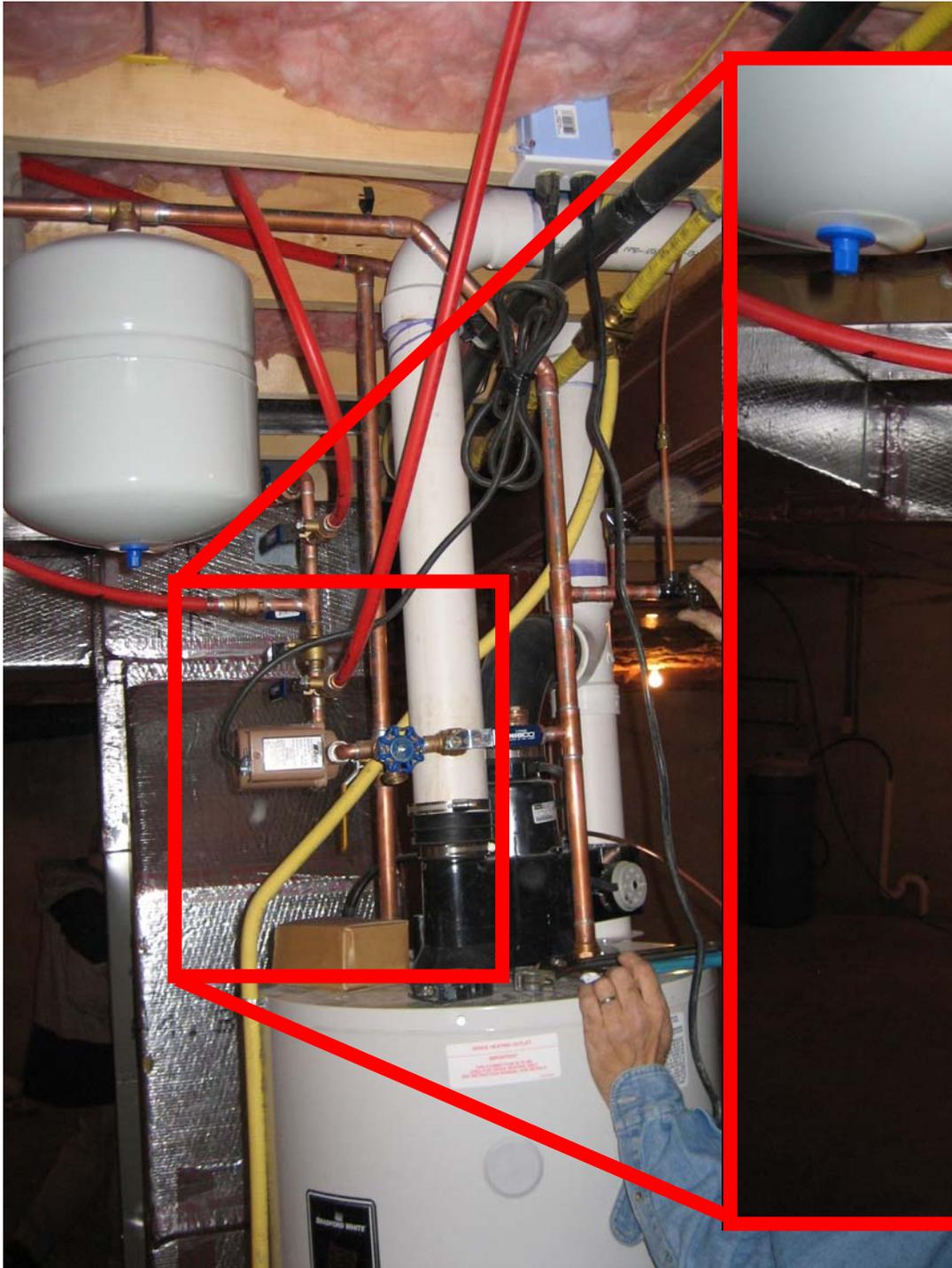








Warning: This facing will burn. Do not leave exposed.







Certificate

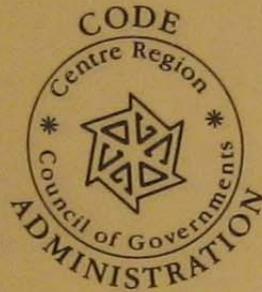
Permanent certificate required on or in electrical panel listing installed:

- Roof/ceiling R-value
- Wall R-value
- Foundation (wall, slab, crawlspace floor)
- Ducts outside conditioned spaces
- Fenestration U-value/ SHGC

E401.3



If more than one value is used for a component, the predominant value should be listed.



centre region code administration

2643 gateway drive suite #2 state college, pennsylvania 16801 814-231-3056

VIOLATION NOTICE

LOCATION 185 Holly Ridge Drive

PERMIT NO C2006-0605

NOTICE DELIVERED TO Hackman

The following code violations must be corrected:

- 1) Cable across Gasline at meter ✓
- Grill outlet on ATTIC
- 2) cap outlet on ATTIC (GasLine)
- 3) plug used making in basement
- 4) insulate Hot water Lines
- NOT exposed basement insulation
- 5) insulate water pipes in basement
- 6) provide insulation in ATTIC
- insulation in form of bags
- per sq FT must be R-38

What is on your list?

DO NOT REMOVE FROM JOB SITE

Reinspection when corrections have been made. Reinspection Fee \$45.00

Program Review

What to do in 15 minutes

Three Big Things: Plan Review

1. Adequate detail on plans.
 - Plan submittal checklist?
2. Continuous thermal envelope.
3. Is the basement conditioned?
 - Wall Insulation
 - Slab insulation
 - Duct insulation

Three Big Things: Rough Mechanical

1. Duct connections and sealing
2. Duct connections and sealing
3. Duct connections and sealing
 - Seal air handler and filter box sealing

Three Big Things: Rough Framing

1. Air sealing

- Shaft walls
- Penetrations
- Recessed lights
- Bonus rooms & cantilever floors

2. Grading vs. plans

3. Windows, skylights & door u-values

Three Big Things: Insulation

1. Continuous thermal envelope with required R-values.
2. Any cavity that is not standard size or orientation:
 - Tray ceilings.
 - Skylight shafts.
 - Arched windows.
3. Insulation installation
 - Floor insulation placement and support.
 - Compression around boxes and wires

Three Big Things: Final

1. Attic insulation (including hatch)
2. Pipe insulation
3. Weatherstripping
 - Basement door and attic access



Thank You

