



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable



Building Energy Codes

How to Use *REScheck* Energy Code Compliance Software

U.S. Department of Energy
Building Energy Codes Program

www.energycodes.gov

techsupport@becp.pnl.gov



U.S. Department of Energy
Energy Efficiency and Renewable Energy *Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable*



EERE Home

Building Energy Codes Program



About the Program

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DOE's Building Energy Codes Program is an information resource on national model energy codes. We work with other government agencies, state and local jurisdictions, national code organizations, and industry to promote stronger building energy codes and help states adopt, implement, and enforce those codes.

The Program recognizes that energy codes maximize energy efficiency only when they are fully embraced by users and supported through education, implementation, and enforcement.

Free Software



REScheck

[REScheck](#), [REScheck-Web](#), [REScheck Package Generator](#)



COMcheck

[COMcheck](#), [COMcheck-Web](#), [COMcheck Package Generator](#)

Technical Support



Resource Center

[Resource Center](#)



Ask an Energy Codes Expert

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Need Help?

[Ask an Energy Codes Expert](#)
(Software Tools and Energy Codes Assistance)

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NEWS

Notice Requesting Public Input on Further Analysis Related to Wall Insulation Requirements for Residential Buildings in the IECC and Other Potential Code Change Proposals

Building Technologies State Energy Outreach and Deployment State Energy Program (SEP) Special Projects Grant Solicitation Now Open

Statement of the Department of Energy - State Energy Code Criteria for Residential AC and HP

2005 ICC Final Action Hearings

LIVE WEBCAST Residential Requirements of the 2006 International Energy Conservation Code (IECC) April 20, 2006 Register Now.

Residential Compliance Tools

Desktop Software Tools



Web-Based Tools



Free

Printed Materials

Compliance Guides
Prescriptive Tables



Training Tools

- PowerPoint presentations with faculty notes
- Case studies
- Online training
- Online videos



The screenshot shows the "Building Energy Codes ONLINE TRAINING" website. The user is logged in as "Pam Cole". The page is for the "REScheck101" course. It includes a navigation menu with "Administration" (Change password, Unenrol me from REScheck101) and "Courses" (REScheck Training, COMcheck Training, Residential Requirements of the 2006 IECC, Article 124 - Single Top Plates). The main content area is titled "REScheck 101 Training" and includes a welcome message, a description of the course, and a "Pilot Study" section. A "Topics" sidebar on the right lists 10 topics, with the first five being: Scope of IECC, General Requirements for Building Envelope, General Requirements for Heating, Ventilation, and Air Conditioning, General Requirements for Service Water Heating, and General Requirements for Electrical. The website footer indicates it is a "Local intranet".

Welcome to the Building Energy Codes Resource Center



This system has been developed to provide users with information about energy codes and beyond code technologies. You can SEARCH by keyword, or BROWSE the available topics. Start your research using the toolbar at the top of the page.

Resources are available in a variety of different media types, including Articles, Graphics, Online Tools, Presentations, and Videos. The BECP Resource Center gathers content not only from our own archives, but also provides links to energy code resources from around the web. [Learn more about the Resource Center.](#)

NEW MATERIALS

[Article #1529: Energy Policy Act 2005 and Tax Credits](#)

[Article #1533: Appropriate Use of Building Energy Simulation Software](#)

[Article #1484: Vestibule Case Study](#)

POPULAR RESOURCES

[Article #139: Insulating Suspended Ceilings](#)

[Building Energy Codes Glossary](#)

[Article #1420: Energy Code Climate Zones](#)

[Article #1469: How Do I Enter Non-Uniformly Insulated Basement Walls in REScheck?](#)

What Residential Code Compliance Tools does BECP offer?

Prescriptive Approach

- Simple, fast and easy
- Generally most stringent
- Requires minimum input
- Based on climate and WWR
- Uses a prototype building

1

Printed guides on
www.energycodes.gov

or

2



Trade-off Approach

- Trade-off between components
- Provides design flexibility
- Requires area & U/R-factors
- Uses UA calculation (REScheck)

Free

1



Desktop Versions:

Windows
Mac

or

2



All REScheck tools available from www.energycodes.gov

When does REScheck apply?

Residential New Construction and Additions

- 1-2 single family dwellings
- Multifamily dwellings: 3 or more attached dwelling units 3 stories or less

State Dependent

- Not all states have the same code, some states have state-specific energy codes
- Check to see what code is applicable in your state and if REScheck is accepted
- Status of State Codes
 - http://www.energycodes.gov/implement/state_codes/index.stm

Residential Requirements

1) Mandatory Requirements:

- Moisture Control
- Air Leakage - Recessed Lighting Fixtures
- Infiltration Control
- Solar Heat Gain Coefficient
- Building Mechanical Systems and Equipment
- Service Water Heating

2) Climate Specific Requirements:

- Foundations
 - Crawlspace
 - Slabs
 - Basements
- Above Grade Walls
- Skylights, Windows, and Doors
- Roofs
- Duct Insulation



Case Study – REScheck Software



Jones Residence

What Do I Need to Know?

Information you need to use REScheck:

1. General Understanding of Windows-based Computer Programs
2. Basic Information about the Builder and Home to be Constructed
3. House Plans including Exterior Wall Areas, Glazing Areas, Roof/Ceiling Areas, Basement Wall Areas, etc.
4. Insulation R-Values, NFRC Glazing and Door U-Values, etc.
5. Heating and Cooling System Efficiencies

The image shows a Windows XP desktop environment with a blue sky and green field background. A central window titled "REScheck" is in the process of loading. The desktop contains various application icons such as Microsoft Outlook, Internet Explorer, Firefox Setup, ETR, Microsoft Photo Editor, Mozilla Firefox, Adobe Reader, Work_Pkg, URL's and Emails, Software Analysis, URL's, Attendee_List, Microsoft PowerPoint, Link Check, Implementati..., Microsoft Word, Desktop Stuff, COMcheck-EZ, Microsoft Outlook, Emails, Microsoft Excel, Articles, PhotoStudio 5, and Adobe Acrobat. The taskbar at the bottom shows the Start button, several open applications including "Inbox - Micro...", "Windows Me...", "2 Microsoft ...", "EZ-Casestud...", "Microsoft Pho...", and "Untitled.rck - ...", and system tray icons for "Drawing Pad" and "Recycle Bin". The system clock shows "1:26 PM".



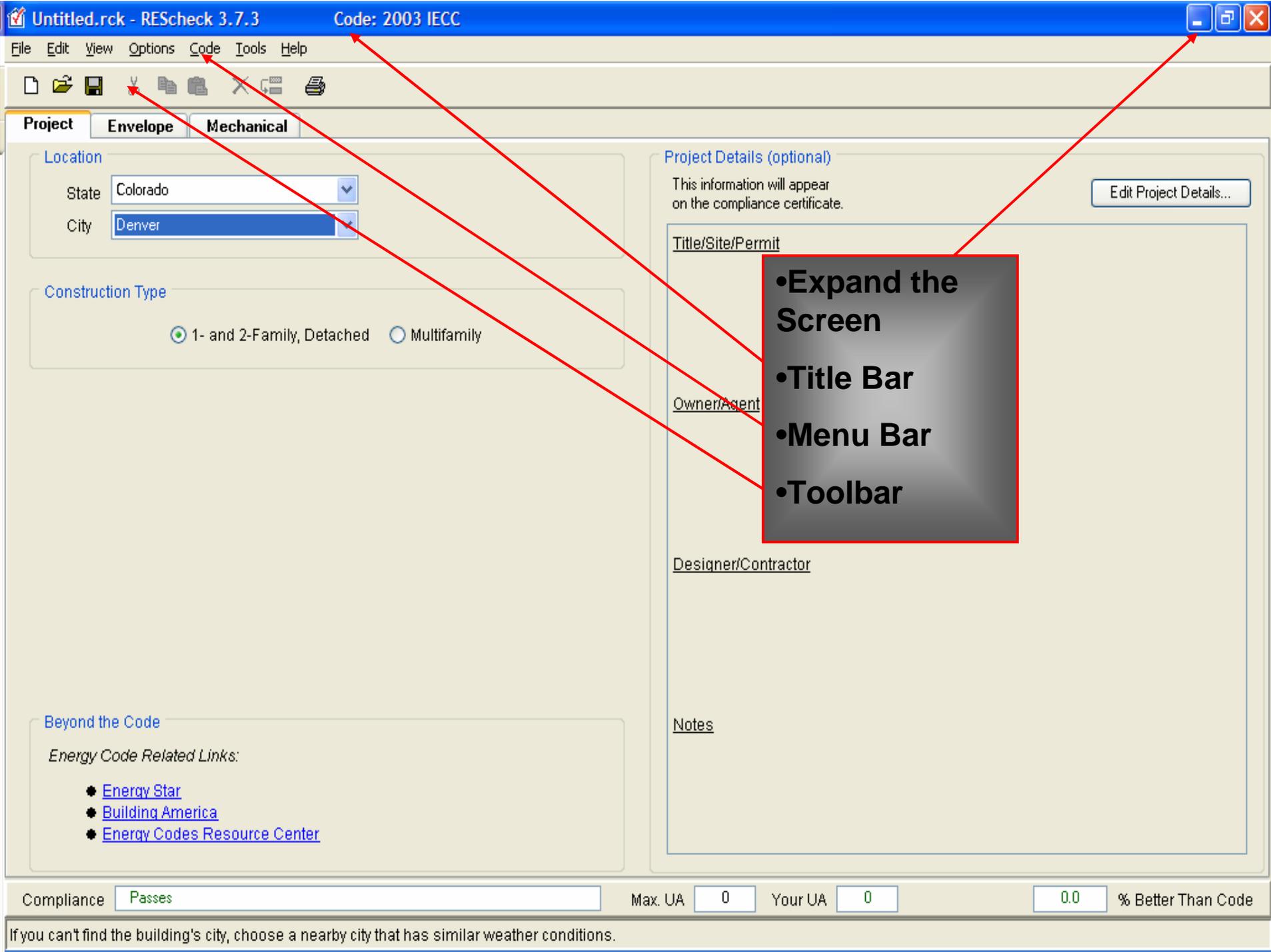
REScheck™

DOE's Building Energy Codes Program
Internet Address: www.energycodes.gov
Technical Support: techsupport@becp.pnl.gov



Energy Efficiency and Renewable Energy · U.S. Department of Energy

Loading... 



- Expand the Screen
- Title Bar
- Menu Bar
- Toolbar



Project Envelope Mechanical

Location
State Colorado
City Denver

Construction Type
 1- and 2-Family, Detached Multifamily

Project Details (optional)
This information will appear on the compliance certificate.
Title/Site/Permit
Jones Residence - Plan 367
Permit Date: March 15, 2009

Owner/Agent
Designer/Contractor

Notes
Previously saved project information:
Jones Residence
1000 Maple Street
Circle Construction
Done Right Construction

Beyond the Code
Energy Code Related Links:
• [Energy Star](#)
• [Building America](#)
• [Energy Codes Resource Center](#)

Three Main Screens

Your Building Compared to the Energy Code

Compliance: Passes
5.3% Better Than Code

Compliance Passes Max. UA 628 Your UA 595 5.3 % Better Than Code

JonesResidence.rck - REScheck 3.7.3 Code: 2003 IECC

File Edit View Options Code Tools Help

Project Envelope Mechanical

Location

State Colorado

City Denver

Construction Type

1- and 2-Family, Detached Multifamily

Beyond the Code

Energy Code Related Links:

- [Energy Star](#)
- [Building America](#)
- [Energy Codes Resource Center](#)

Project Details (optional)

This information will appear on the compliance certificate. [Edit Project Details...](#)

Title/Site/Permit

Jones Residence - Plan 3677
Permit Date: March 15, 2005

Owner/Agent

Designer/Contractor

Notes

Previously saved project information:
Jones Residence
1000 Maple Street
Circle Construction
Done Right Construction

Plan 3677

Compliance **Passes** Max. UA **628** Your UA **595** **5.3** % Better Than Code

Select the building's location and construction type.

Construction Type Basic Information Beyond Code

Envelope Section

JonesResidence Code: 2003 IECC

File Edit View Options Code Tools Help

Front Faces: North

Project Envelope Mechanical

Ceiling Skylight Wall Window Door Basement Floor Crawl Wall

	Component	Assembly	Orientation	Gross Area or Slab Perimeter	Cavity Insulation R-Value	Contin Insul R-Value
	Building					
1	Ceiling 1	All-Wood Joist/Rafter/Truss		2415 ft2	38.0	0
2	Exterior Wall			ft2	19.0	0
3	Door 1			ft2		
4	Window			ft2		

Building Components are added by clicking on these.

Mechanical Requirements

- Mandatory requirements such as duct insulation are listed in the Inspection Checklist
- The Checklist is automatically prepared by the software based on user-entered inputs such as applicable code and building location



Duct Insulation:

Return Ducts in unconditioned spaces must be insulated to R-4
Supply Ducts outside the building must be insulated to R-8

		Duct Insulation:
[]		Supply ducts in unconditioned attics or outside the building must be insulated to R-8.
[]		Return ducts in unconditioned attics or outside the building must be insulated to R-4.
[]		Supply ducts in unconditioned spaces must be insulated to R-8.
[]		Return ducts in unconditioned spaces (except basements) must be insulated to R-2.
[]		Where exterior walls are used as plenums, the wall must be insulated to R-8.
		Insulation is not required on return ducts in basements.

Mechanical Inputs

- No user entries are required
- Only get “credit” for high-efficiency equipment

Project	Envelope	Mechanical					
Furnace	Boiler	Heat Pump	Air Conditioner				
Component	Description	Heating Efficiency	Cooling Efficiency	Minimum Efficiency			
Building							

Use the blue-on-white buttons at the top of the screen to list the heating and/or cooling equipment in your building.

Trade-off provided only for selected high efficiency equipment.

No trade-off available for electric resistance heating or geothermal heat pumps.

NOTE: These inputs are optional. Press F1 for help.

SWH Requirements in REScheck

- Mandatory requirements such as heat traps are listed in the Inspection Checklist
- No software entries for Service Water Heating

Service Water Heating:

Water heaters with vertical pipe risers must have a heat trap on both the inlet and outlet unless the water heater has an integral heat trap or is part of a circulating system

Service Water Heating:

[] | Water heaters with vertical pipe risers must have a heat trap on both the inlet and outlet unless the water heater has an integral heat trap or is part of a circulating system.

[] | Insulate circulating hot water pipes to the levels in Table 1.

Circulating Hot Water Systems:

[] | Insulate circulating hot water pipes to the levels in Table 1.

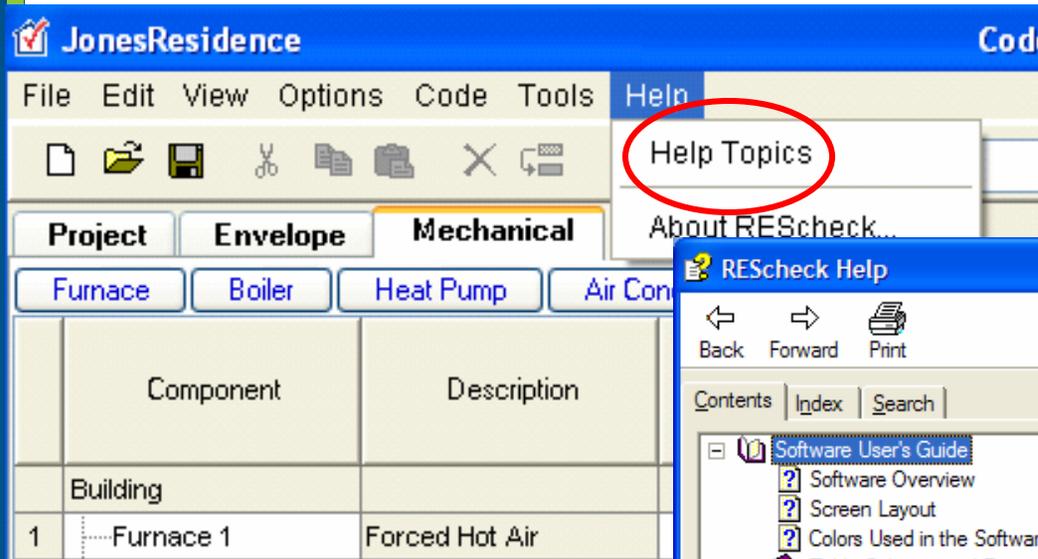
Swimming Pools:

[] | All heated swimming pools must have an on/off heater switch and require a cover unless over 20% of the heating energy is from non-depletable sources. Pool pumps require a time clock.

Heating and Cooling Piping Insulation:

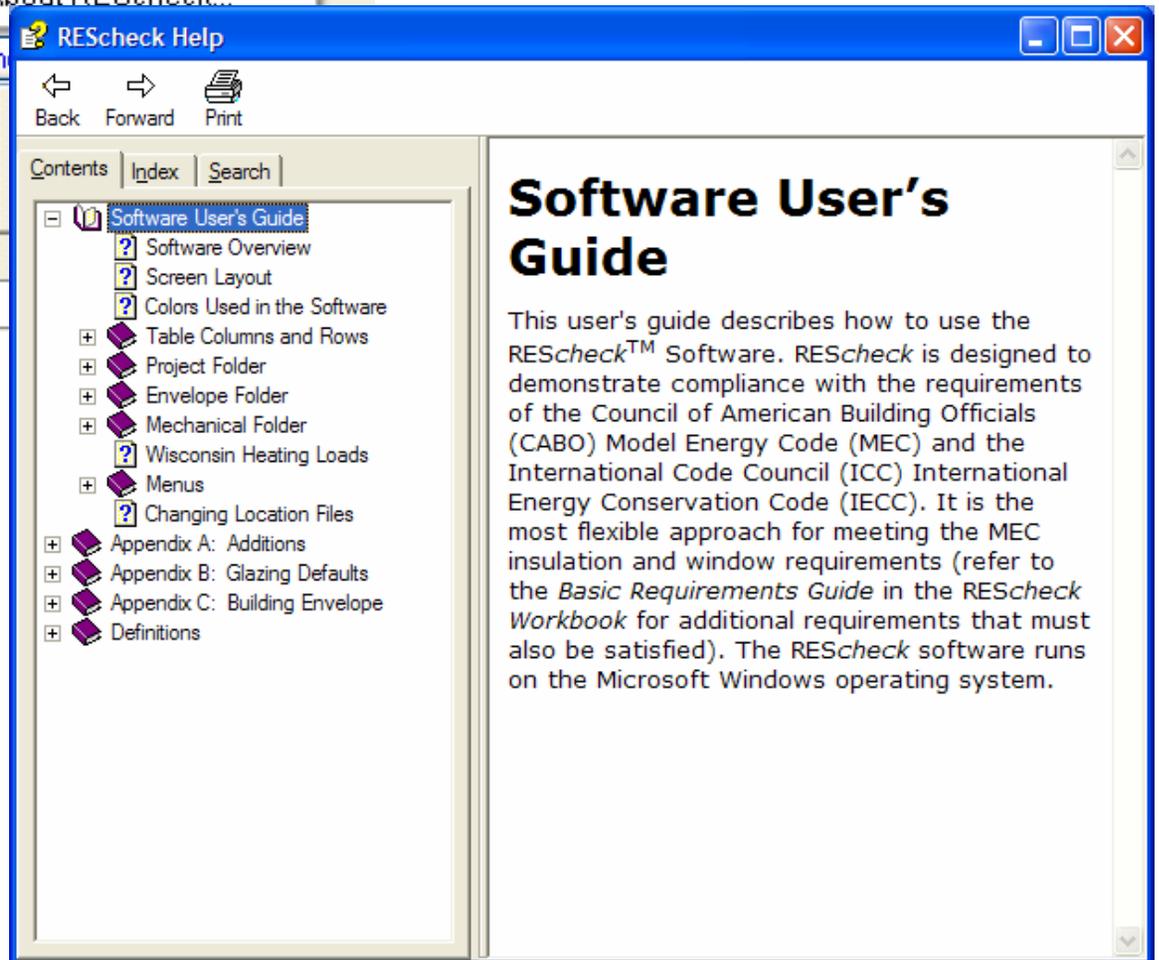
[] | HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F must be insulated to the levels in Table 2.

Need Help?



The screenshot shows the main window of the REScheck software. The title bar reads "JonesResidence" and "Cod". The menu bar includes "File", "Edit", "View", "Options", "Code", "Tools", and "Help". The "Help" menu is open, with "Help Topics" circled in red. Below the menu bar are tabs for "Project", "Envelope", and "Mechanical". Under "Mechanical", there are sub-tabs for "Furnace", "Boiler", "Heat Pump", and "Air Con". A table with two columns, "Component" and "Description", is visible. The table contains one row with the component "Furnace 1" and description "Forced Hot Air".

Component	Description
Building	
1 Furnace 1	Forced Hot Air



The screenshot shows the "REScheck Help" window. The title bar reads "REScheck Help". The window has a navigation bar with "Back", "Forward", and "Print" buttons. Below the navigation bar are tabs for "Contents", "Index", and "Search". The "Contents" tab is active, showing a tree view of the help topics. The "Software User's Guide" is selected and expanded, showing a list of topics: "Software Overview", "Screen Layout", "Colors Used in the Software", "Table Columns and Rows", "Project Folder", "Envelope Folder", "Mechanical Folder", "Wisconsin Heating Loads", "Menus", and "Changing Location Files". The "Software User's Guide" is also expanded to show "Appendix A: Additions", "Appendix B: Glazing Defaults", "Appendix C: Building Envelope", and "Definitions". The main content area displays the "Software User's Guide" text.

Software User's Guide

This user's guide describes how to use the REScheck™ Software. REScheck is designed to demonstrate compliance with the requirements of the Council of American Building Officials (CABO) Model Energy Code (MEC) and the International Code Council (ICC) International Energy Conservation Code (IECC). It is the most flexible approach for meeting the MEC insulation and window requirements (refer to the *Basic Requirements Guide* in the REScheck Workbook for additional requirements that must also be satisfied). The REScheck software runs on the Microsoft Windows operating system.

JonesResidence.rck - REScheck 3.7.3

File Edit View Options Code Tools Help

New Ctrl+N

Open... Ctrl+O

Open Recent ▶ mechanical

Save Ctrl+S

Save As...

View / Print Report...

Save Report...

Email Report...

Exit

1- and 2-Family, De

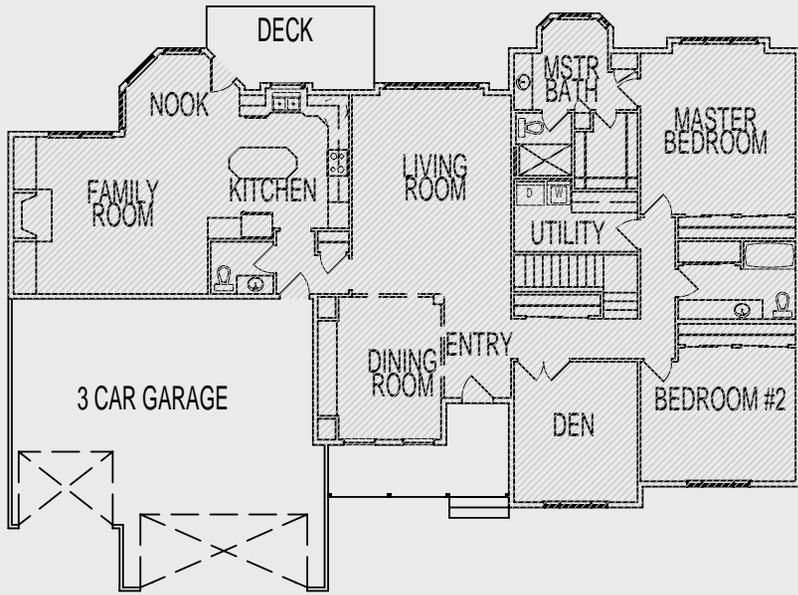
Save as a data file

Print and Preview reports

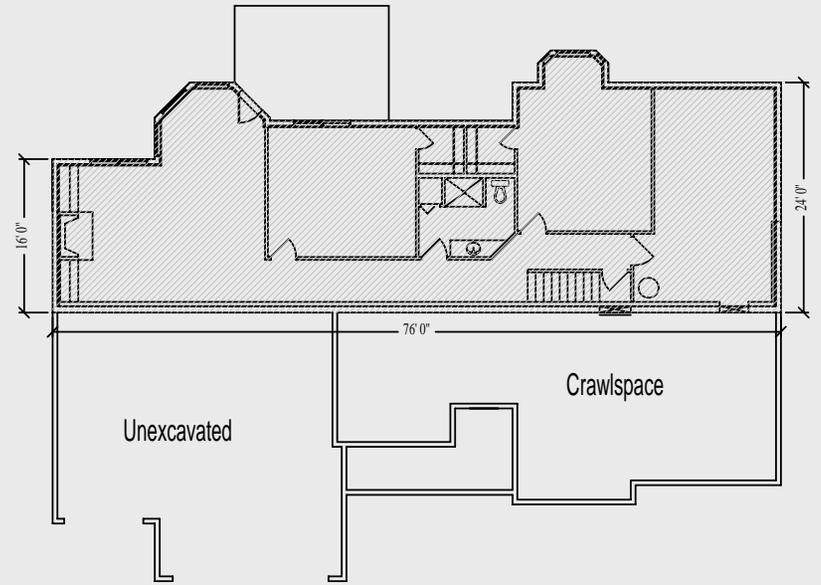
Save as a report

Email Report

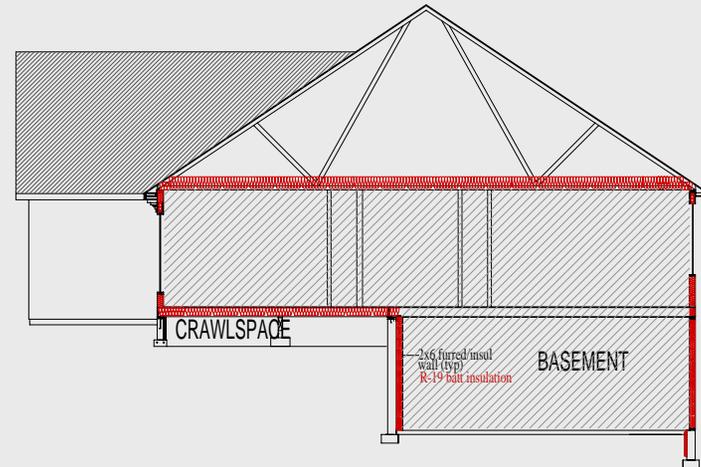
- Building Envelope



Conditioned Main Floor



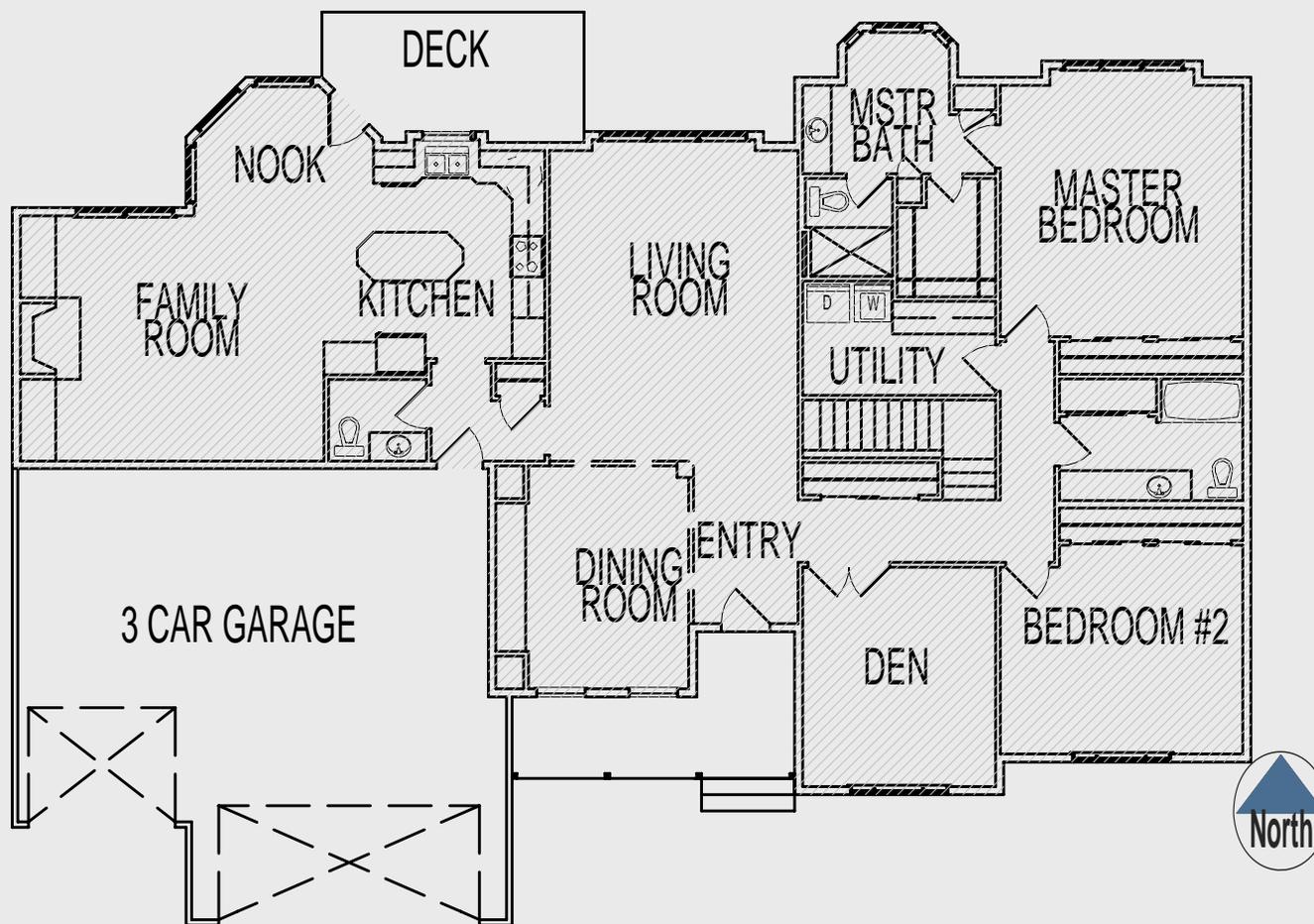
Conditioned Basement



Building Section

- Ceiling Area

Ceiling Area
2415 s.f.



- Exterior Wall Areas

12' Exterior Walls - 689 s.f.

North – 221 s.f.

South – 234 s.f.

East – 52 s.f.

West – 182 s.f.

9' Exterior Walls - 2180 s.f.

North – 690 s.f.

South – 600 s.f.

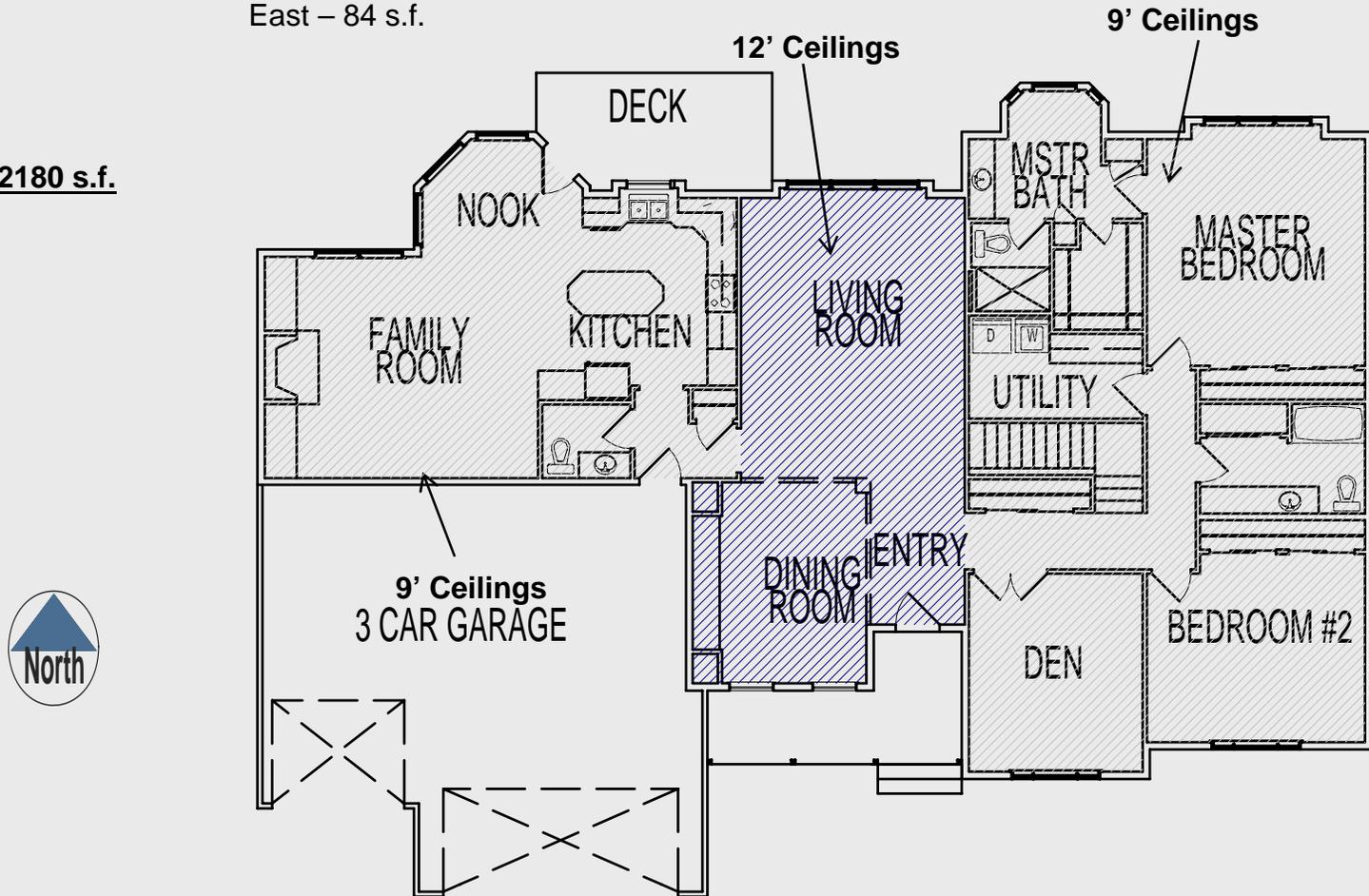
East – 440 s.f.

West – 450 s.f.

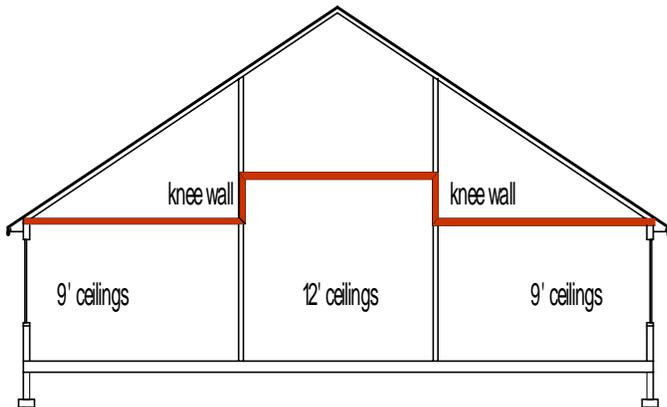
3' knee walls (between 9'&12' sections) – 153 s.f.

West – 69 s.f.

East – 84 s.f.

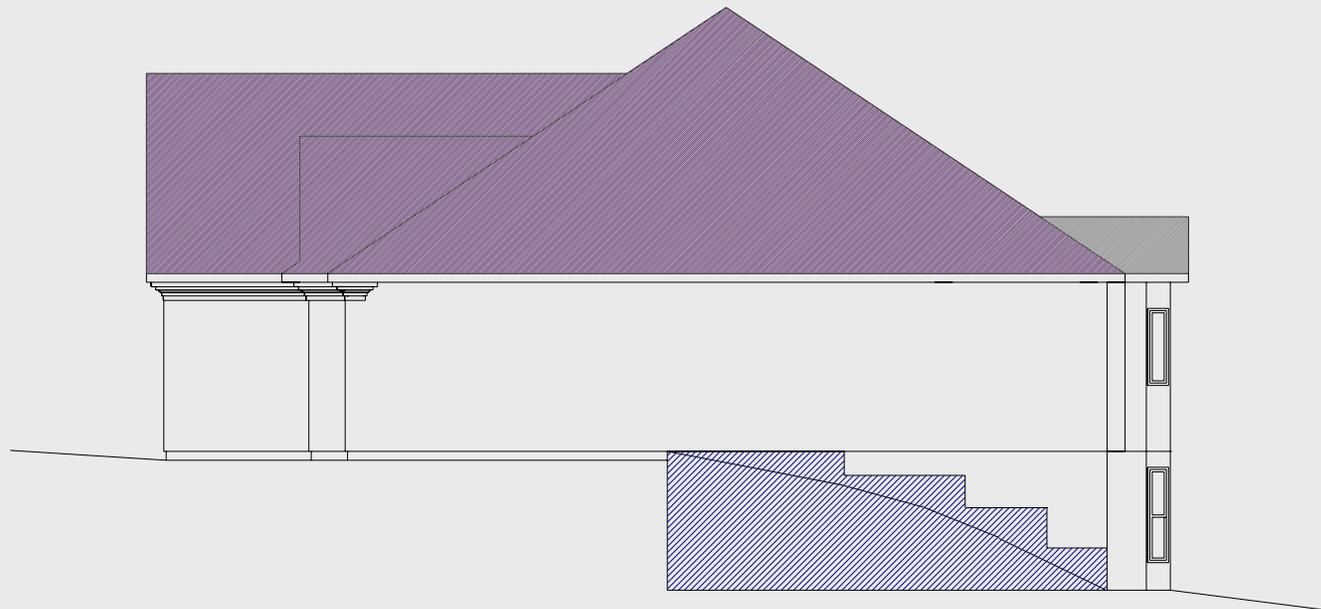


Knee Wall Insulation



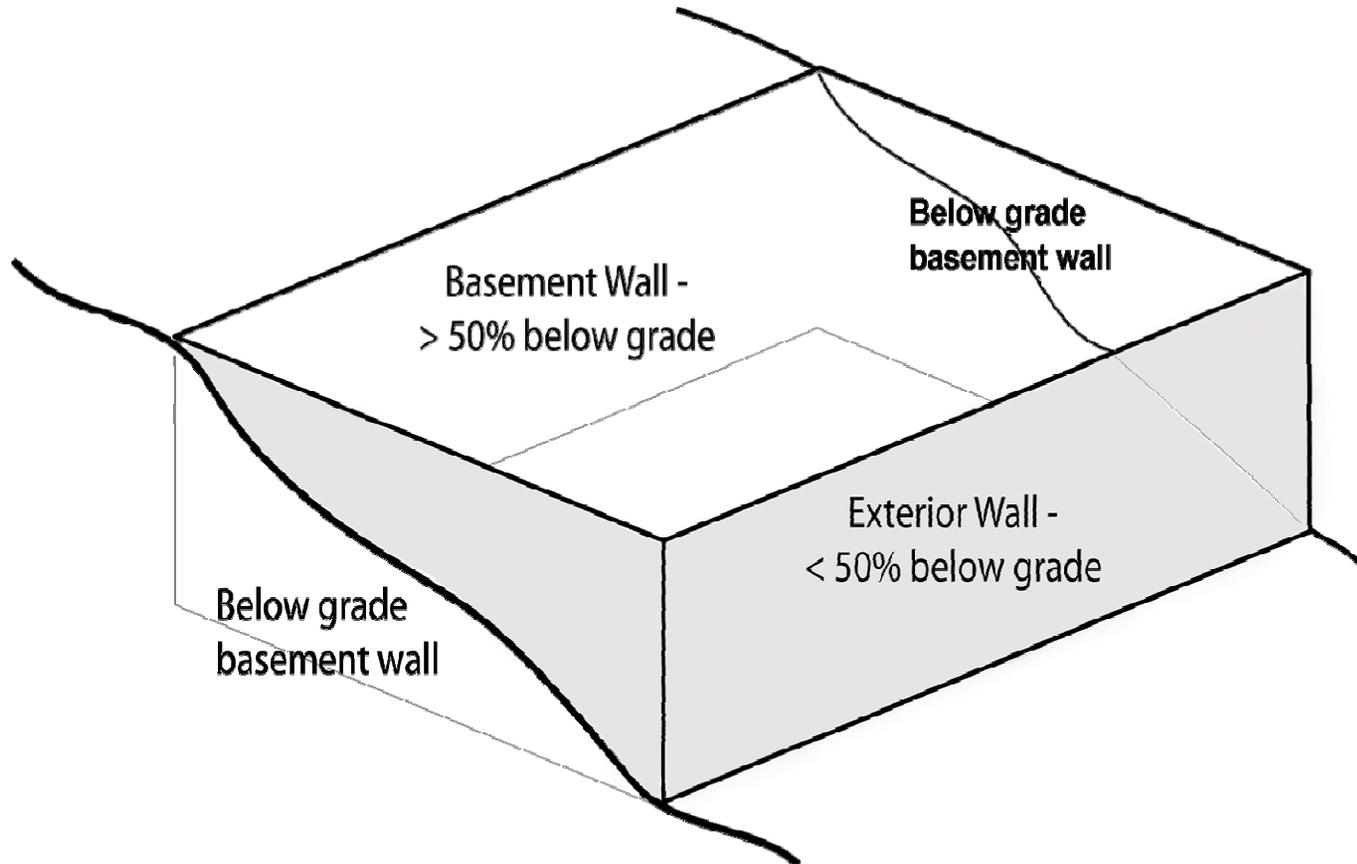
No, No... Never cut the batts too short

- Basement Walls -
 - below grade

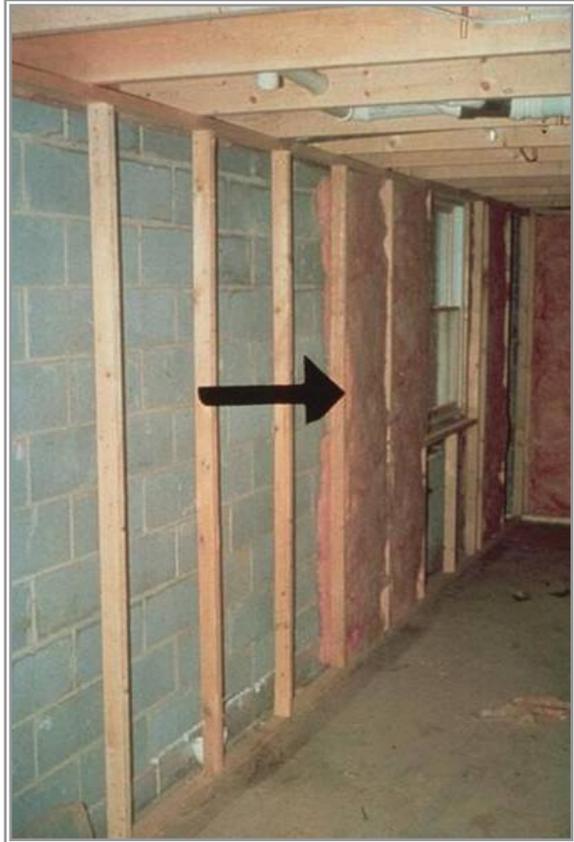


>50% below grade =
below grade concrete basement wall

Defining Below-Grade Walls



Ways to Insulate Basement Walls



Interior Studs w/batts

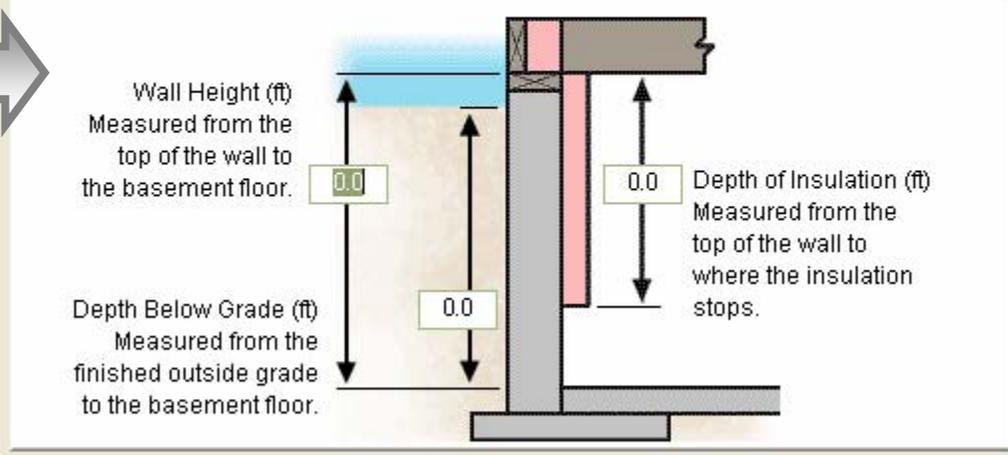


Below-Grade Walls in REScheck

Project		Envelope		Mechanical	
Ceiling		Skylight		Wall	
Window		Door		Basement	
Component	Assembly	Gross Area			
Building					
1	Basement Wall 1	Solid Concrete or Masonry	0	ft2	
<ul style="list-style-type: none"> Solid Concrete or Masonry Masonry Block with Empty Cells Masonry Block with Integral Insulation Wood Frame Insulated Concrete Forms Other 					

Basement Walls

Enter the specified dimensions in feet (not inches) in the boxes provided. A basement wall less than 50% below grade is considered an above-grade wall and must be entered using the Wall button.



Wall Height (ft)
Measured from the top of the wall to the basement floor.

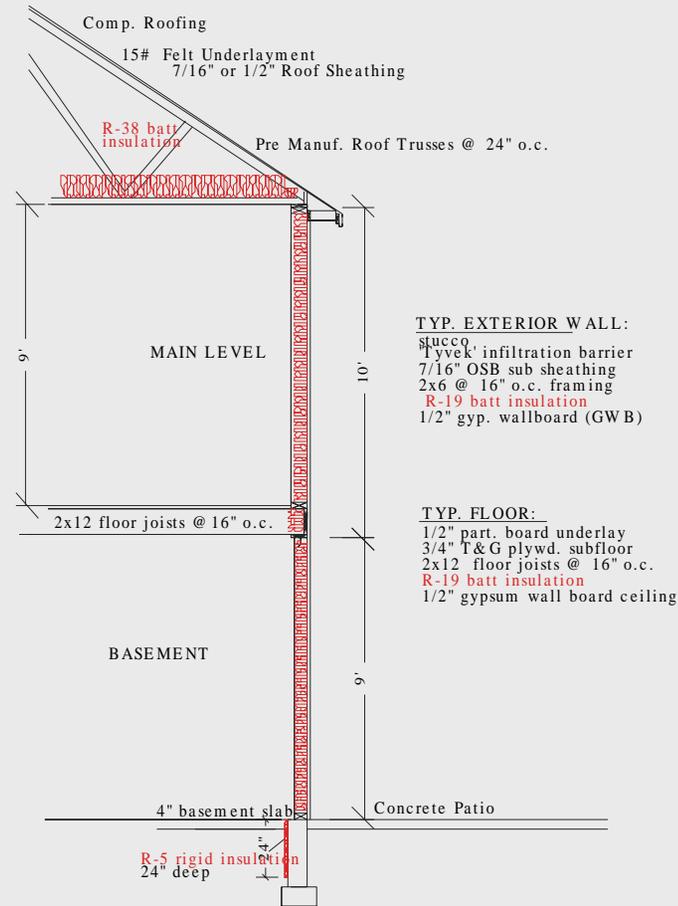
Depth Below Grade (ft)
Measured from the finished outside grade to the basement floor.

Depth of Insulation (ft)
Measured from the top of the wall to where the insulation stops.



Any individual wall of a conditioned basement with an average depth 50% or more below grade should be entered using the *Basement* button. Walls of conditioned basements with an average depth LESS than 50% below grade should be entered as an above-grade wall using the *Wall* button.

- Including Rim Joists in the Exterior Wall Area



TYP. EXTERIOR WALL:
 stucco
 Tyvek infiltration barrier
 7/16" OSB sub sheathing
 2x6 @ 16" o.c. framing
 R-19 batt insulation
 1/2" gyp. wallboard (GWB)

TYP. FLOOR:
 1/2" part. board underlay
 3/4" T & G plywd. subfloor
 2x12 floor joists @ 16" o.c.
 R-19 batt insulation
 1/2" gypsum wall board ceiling

BASEMENT SECTION @ EXTERIOR WOOD WALL

- Basement Wall Areas

Above Grade Bsmt Walls (exterior wood) = 837 s.f. (93' x 9')
(entered as wood frame wall not a basement wall)

Below Grade Bsmt Walls = 1044 s.f.

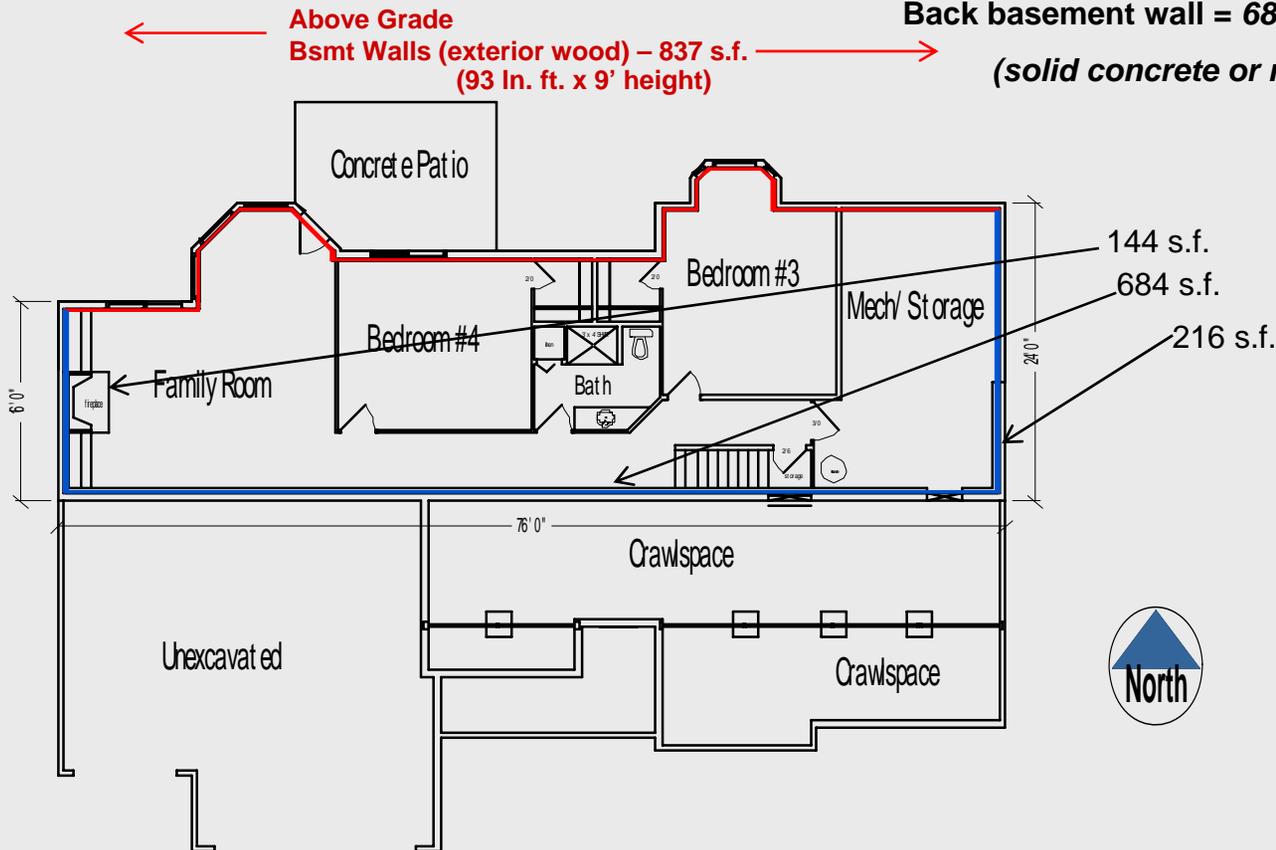
Side basement walls = 360 s.f.

- West Wall – 144 s.f

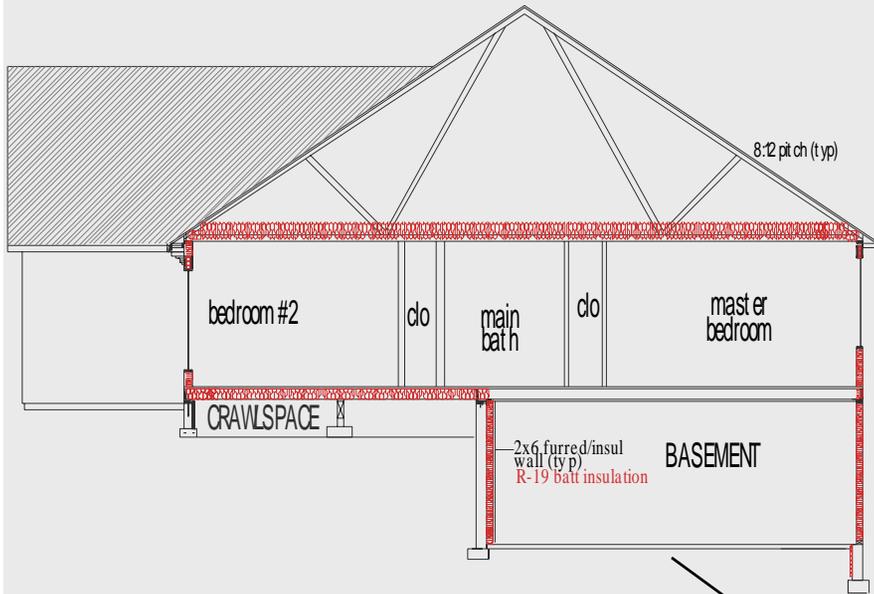
- East Wall – 216 s.f.

Back basement wall = 684 s.f. (76'x9')

(solid concrete or masonry)



- Basement Walls



“back” below grade basement wall
(entire back wall is adjacent to
crawlspace)

Basement Walls

Enter the specified dimensions in feet (not inches) in the boxes provided. A basement wall less than 50% below grade is considered an above-grade wall and must be entered using the Wall button.

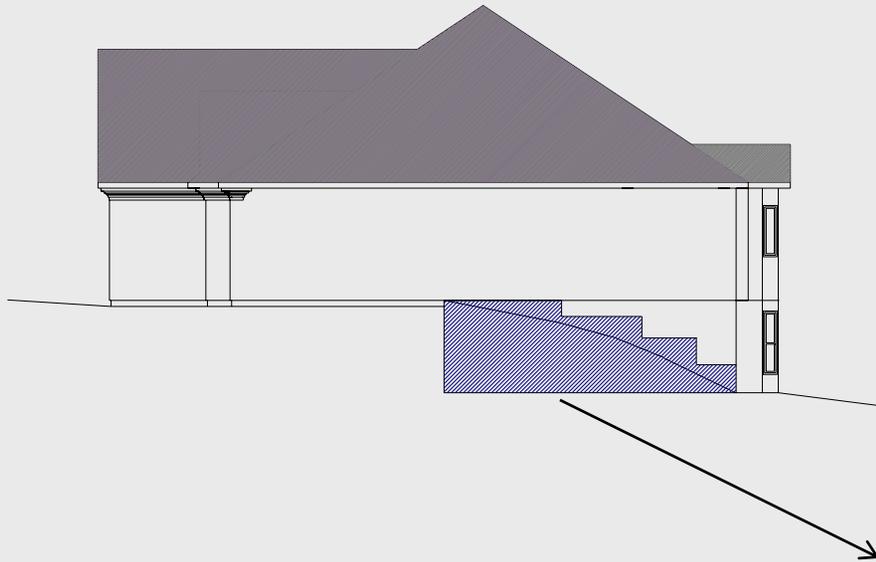
Wall Height (ft)
Measured from the top of the wall to the basement floor. 0.0

Depth Below Grade (ft)
Measured from the finished outside grade to the basement floor. 0.0

Depth of Insulation (ft)
Measured from the top of the wall to where the insulation stops. 0.0

OK Cancel

- Basement Walls



“side” below grade basement walls

Basement Walls [X]

Enter the specified dimensions in feet (not inches) in the boxes provided.
A basement wall less than 50% below grade is considered an above-grade wall and must be entered using the Wall button.

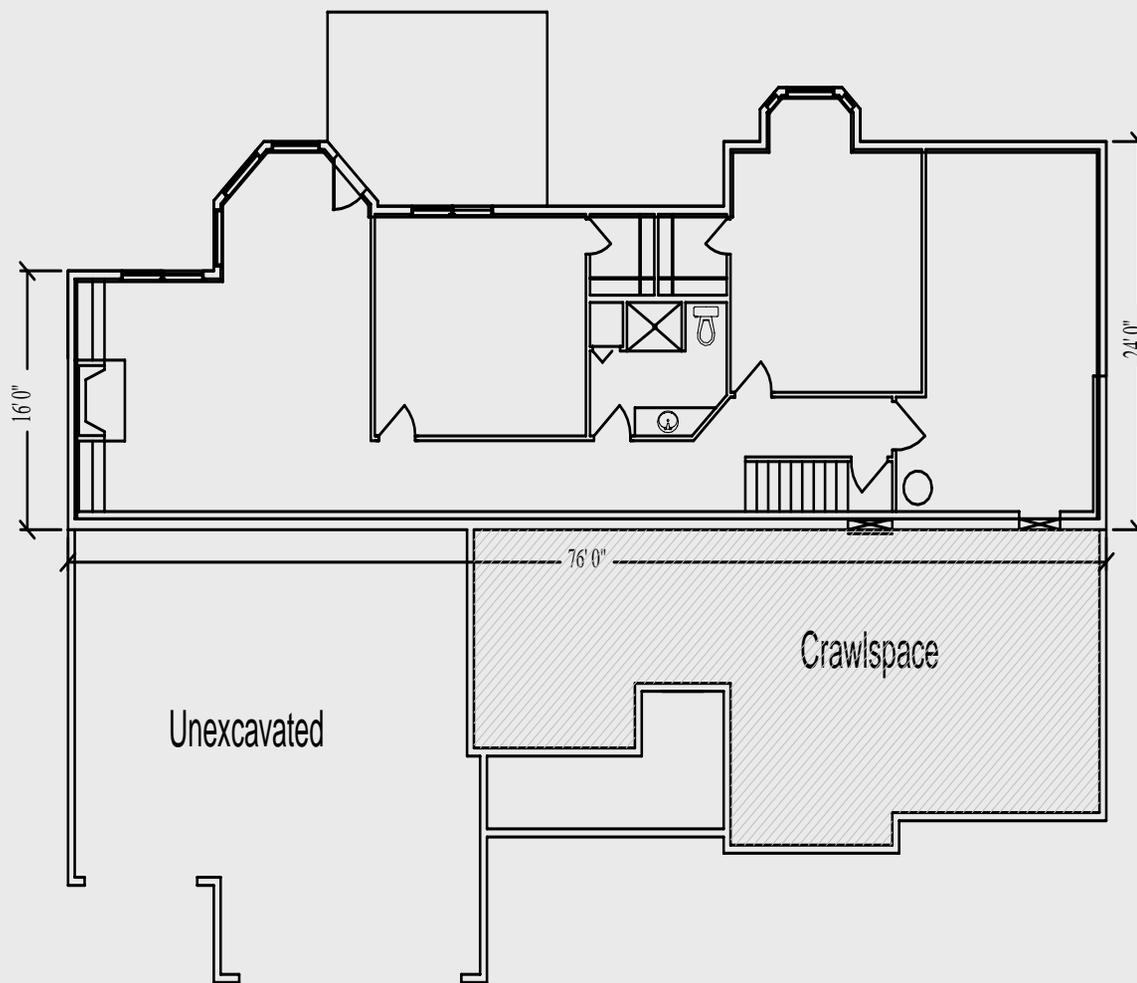
Wall Height (ft)
Measured from the top of the wall to the basement floor.

Depth Below Grade (ft)
Measured from the finished outside grade to the basement floor.

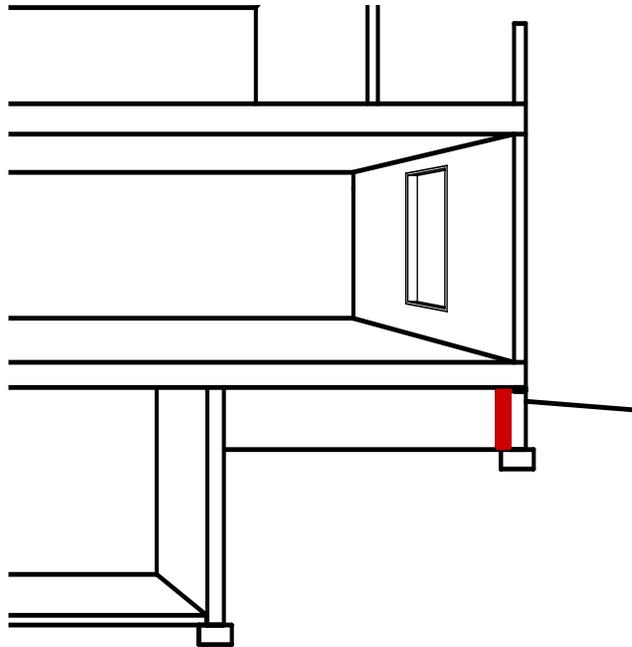
Depth of Insulation (ft)
Measured from the top of the wall to where the insulation stops.

- Floor Area

Crawlspace Area - 783 s.f.



Crawlspace Wall Insulation



Insulated crawlspace wall =

- no foundation vents
- + mechanically vented or conditioned



Crawlspace Walls in REScheck

Project Envelope Mechanical

Ceiling Skylight Wall Window Door Basement Floor Crawl Wall

Component	Assembly	Gross Area	Cavity Insulation R-Value	Continuous Insulation R-Value	U-Factor	UA	Wall Height (ft)	Depth Below Grade (ft)	Depth Below Inside Grade (ft)
Building									
1 Crawl 1	Solid Concrete or Masonry	0 ft2	0.0	0.0	0.0	0	0.0	0.0	0.0

Unventilated Crawl Space Walls

The crawl space wall option applies only to walls of unventilated crawl spaces. Enter the specified dimensions in feet (not inches) in the boxes provided.

Wall Height (ft)
Measured from the top of the wall to top of the footing.

Depth Below Grade (ft)
Measured from outside grade to the top of the footing.

Depth of Insulation (ft)
Include the total vertical plus horizontal distance.

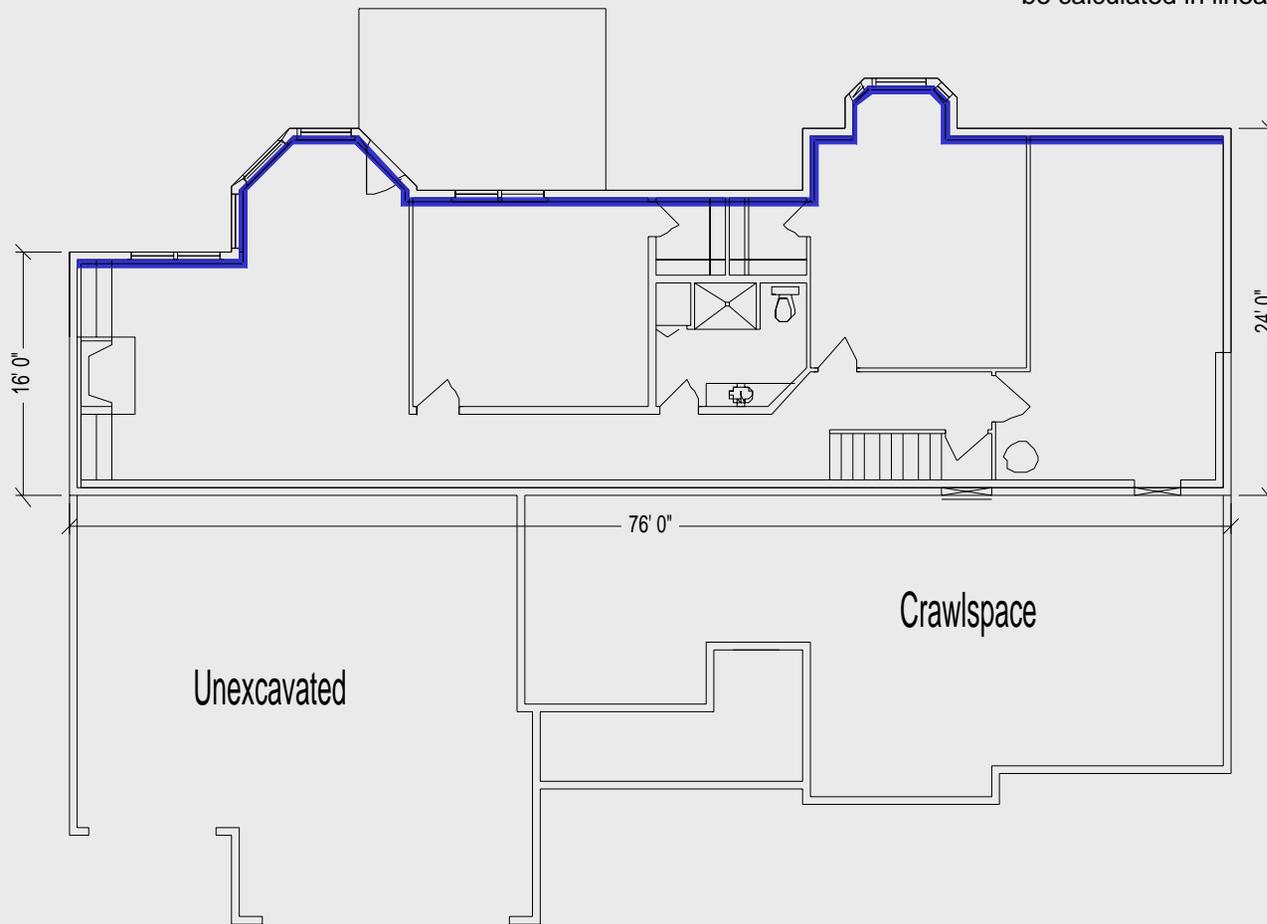
Depth Below Inside Grade (ft)
Measured from inside grade to the top of the footing.

OK Cancel

- Slab Perimeter

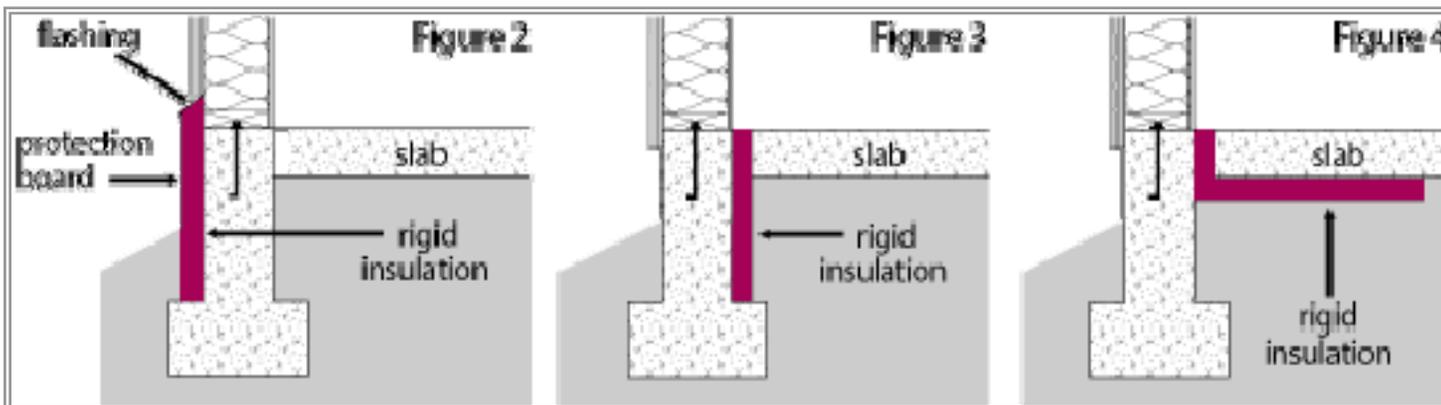
← Slab Perimeter - 93 linear feet →

Line represents the slab edge to be calculated in linear feet.

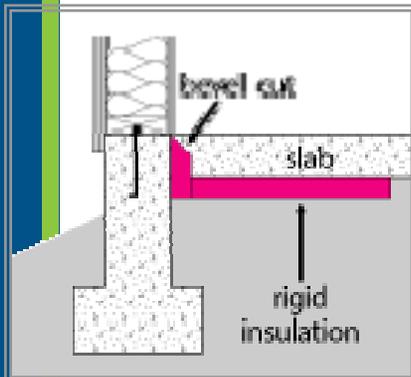


Slab Edge Insulation

- Proposed R-value must meet or exceed
- Downward from top of slab a minimum of 24" (< 6000 HDD), 48" (> 6000 HDD)
- Downward to at least the bottom of the slab and then horizontally – 24" (< 6000 HDD), 48" (> 6000 HDD)



Slab Edge Insulation



Slabs in REScheck

Project		Envelope		Mechanical			
		Ceiling	Skylight	Wall	Window	Door	Basement
Component	Assembly	Gross Area					
Building							
1	Floor 1	Click here to select Asse...		0	ft2		
		All-Wood Joist/Truss					
		Slab-On-Grade		Unheated			
		Structural Insulated Panels		Heated			
		Other					

Slab-On-Grade Floors

Enter the depth of the insulation (ft.), including the total vertical and horizontal distance: ft.

Horizontal Insulation (A + B = Insulation Depth)

Vertical Insulation (A = Insulation Depth)



- Depth of Insulation - Enter the depth (ft) of the insulation you intend to install as measured from the top of the slab to where the insulation stops. This distance should include the total vertical plus horizontal distance. Refer to the illustration below of acceptable configurations. If you enter a depth of 0, the program assumes no insulation is to be installed.

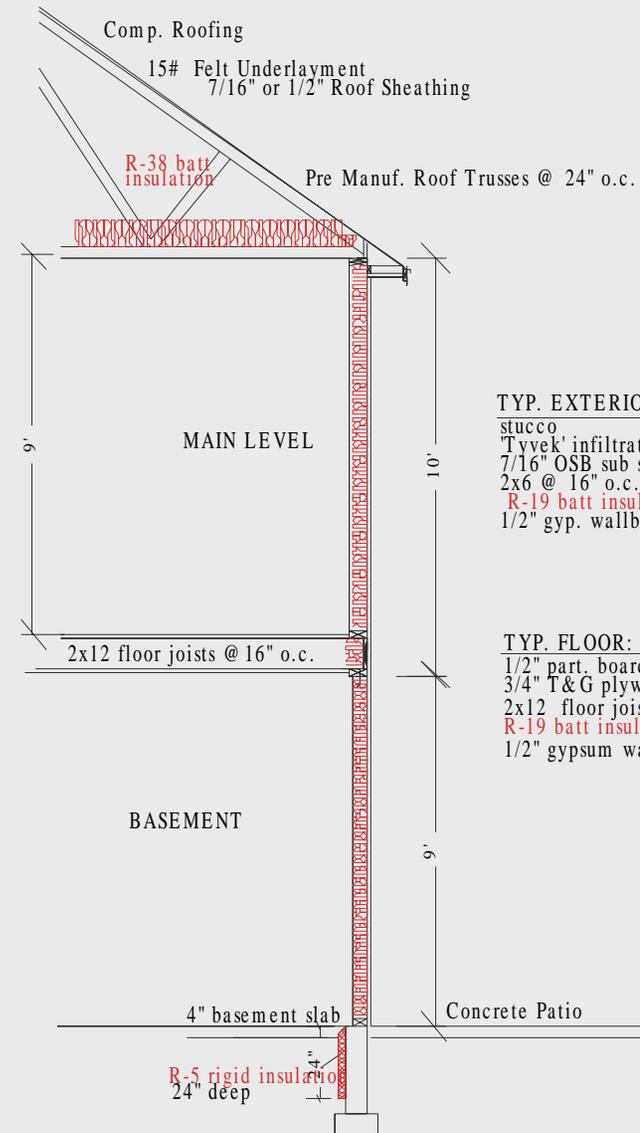
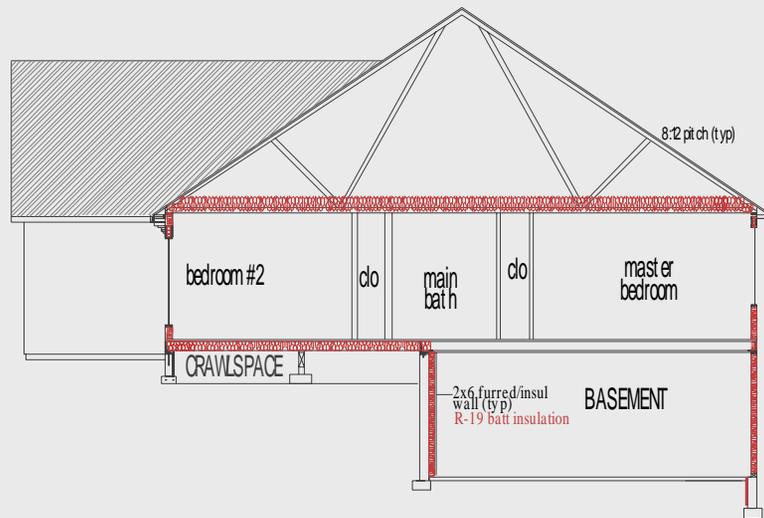
Insulation Levels

Roof/Ceiling - R-38 batts

Wall - R-19 batts

Floor - R-30 batts

Slab - R-5 rigid (24" vertical)



TYP. EXTERIOR WALL:
stucco
Tyvek' infiltration barrier
7/16" OSB sub sheathing
2x6 @ 16" o.c. framing
R-19 batt insulation
1/2" gyp. wallboard (GWB)

TYP. FLOOR:
1/2" part. board underlay
3/4" T & G plywd. subfloor
2x12 floor joists @ 16" o.c.
R-19 batt insulation
1/2" gypsum wall board ceiling

- Window/ Door Area

Window Area - 533 s.f.;

U-value = 0.35 & SHGC .40

North – 369 s.f.

South – 149 s.f.

West – 15 s.f.

Glass Doors <50% glass - 40 s.f.; U-value = 0.50

North – 40 s.f.

Opaque Doors - 40 s.f.; U-value = 0.50

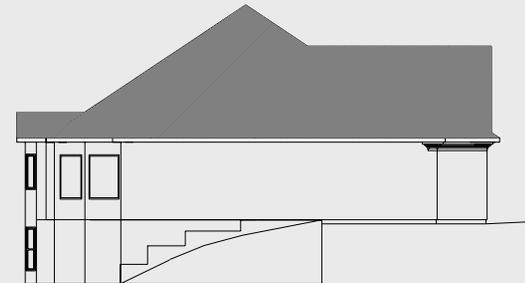
South – 40 s.f.



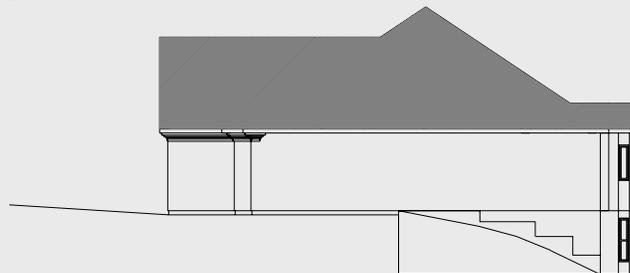
South



North

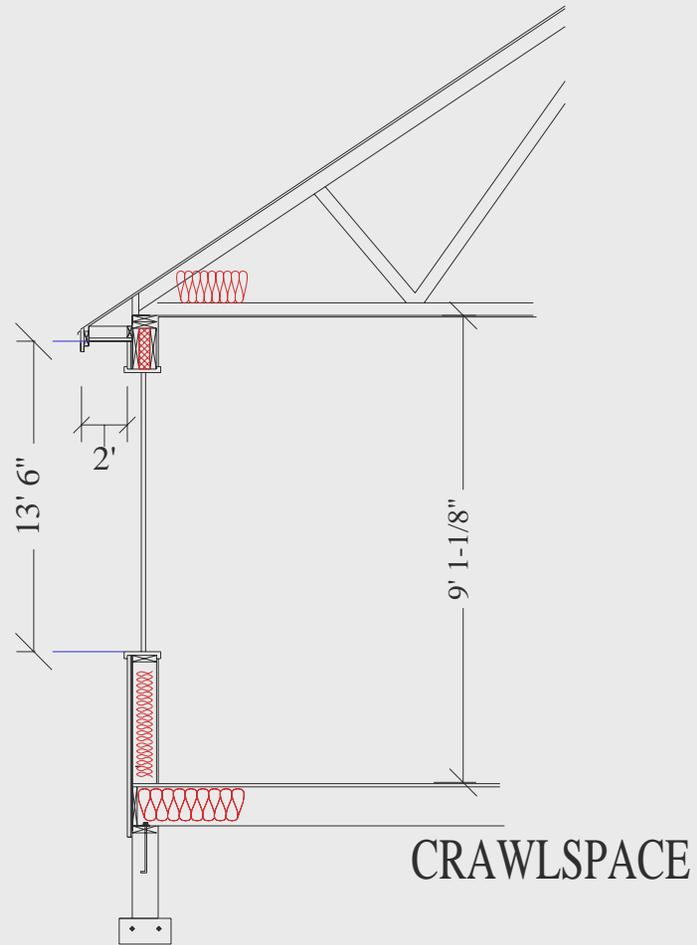
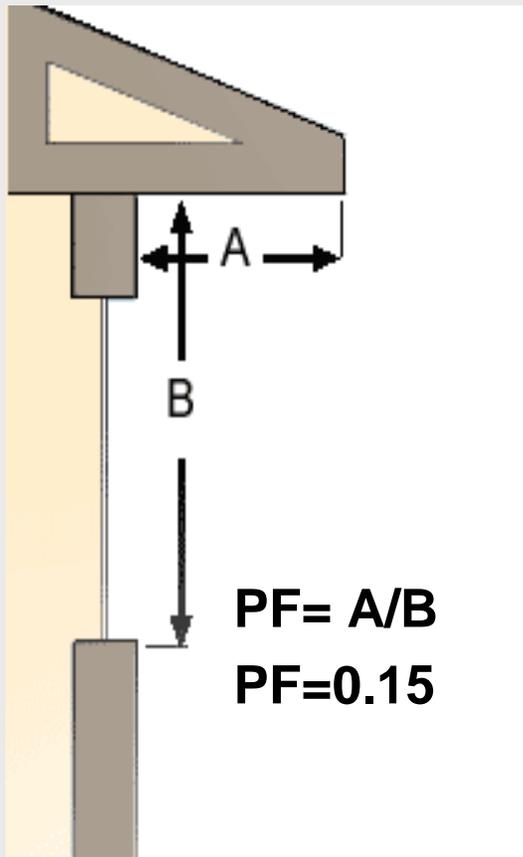


West

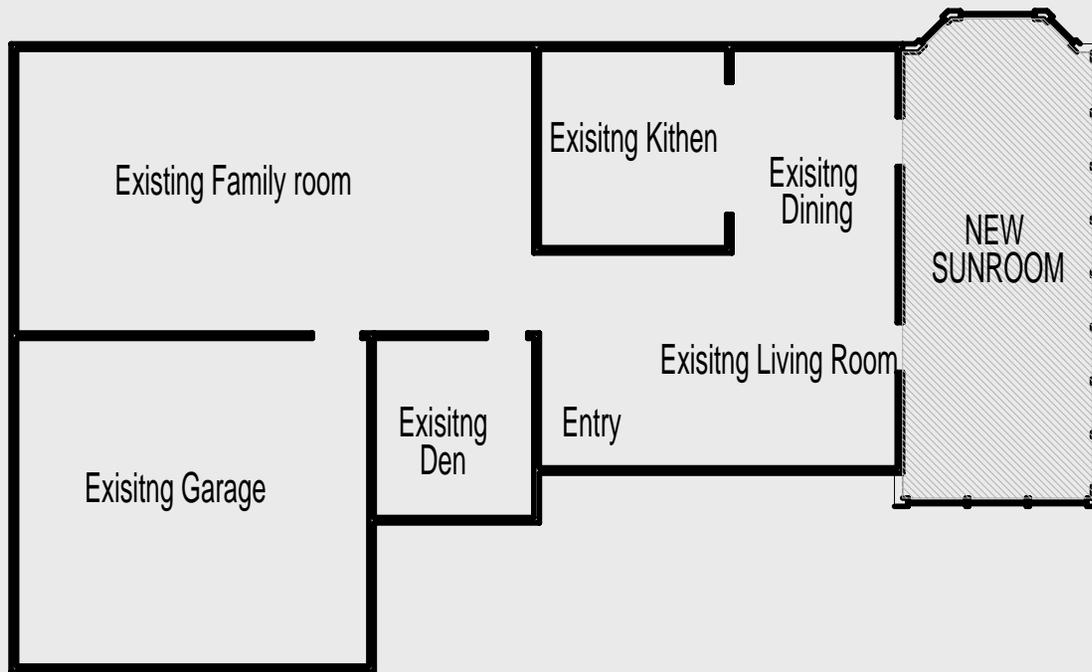


East

Overhang/Projection Factor (PF)



Sunroom Addition

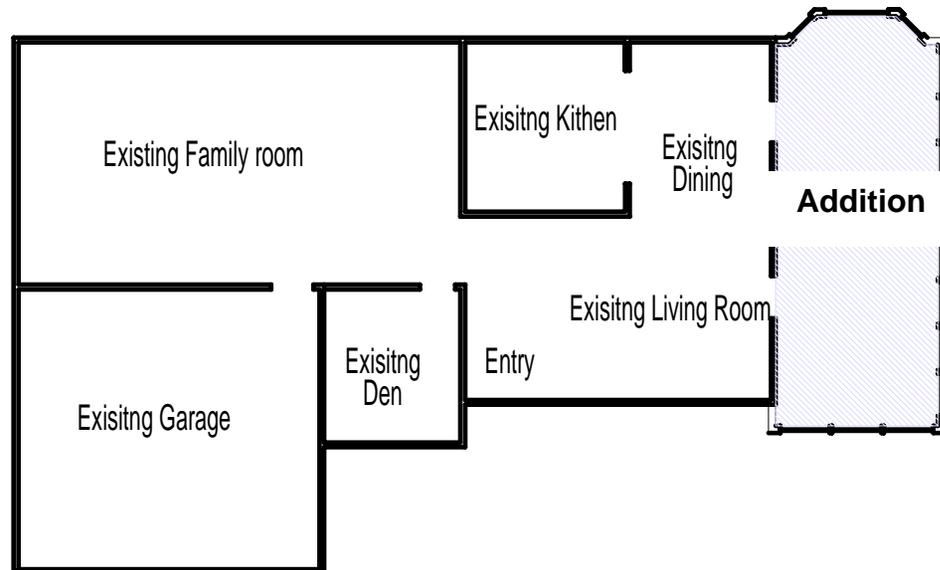


- Ceiling – 350 s.f.
- East Wall – 18 s.f.
- West Wall – 252 s.f.
- West Windows – 144 s.f.
 - (U-value .35/SHGC .40)
- North Wall – 112 s.f.
- North Windows – 63 s.f.
 - (U-value .35/SHGC .40)
- South Wall – 126 s.f.
- South Windows – 51 s.f.
 - (U-value .35/SHGC .40)
- Floor – 350 s.f.



Additions

- Compliance options for additions
 - Treat as a stand-alone building
 - Bring entire building into compliance



Special Rules for Sunrooms

Sunroom addition defined:

- Area less than 500 ft²
- Have > 40% glazing of gross exterior wall and roof area
- Separate heating or cooling system or zone
- Must be thermally isolated and not used as a kitchen or sleeping quarters



Sunroom/Addition Requirements

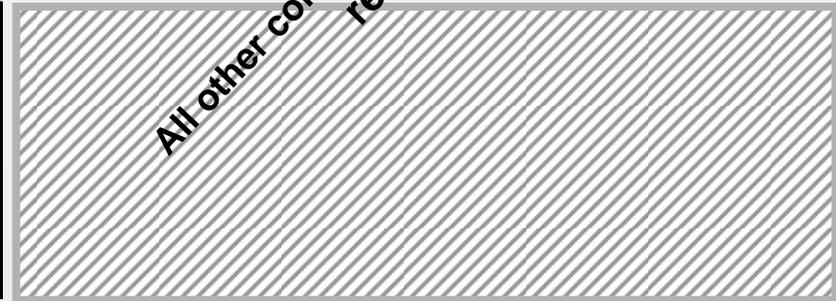
2003 IECC Prescriptive Criteria Sunrooms

HDD	MAX	MINIMUM	
	Fenestration U-factor	Ceiling R-value	Wall R-value
0 – 1,999	.75	R-19	R-13
2,000 – 3,999	.50	R-19	R-13
4,000 – 5,999	.50	R-19	R-13
6,000 – 8,499	.50	R-24	R-13
8,500 – 12,999	.50	R-24	R-13



Prescriptive Criteria Additions and Window Replacement

HDD	MAX	MINIMUM	
	Fenestration U-factor	Ceiling R-value	Wall R-value
0 – 1,999	.75	R-26	R-13
2,000 – 3,999	.50	R-30	R-13
4,000 – 5,999	.40	R-38	R-18
6,000 – 8,499	.35	R-49	R-21
8,500 – 12,999	.35	R-49	R-21



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