LET US BE YOUR GUIDE

Construction Methods

Log Styles

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Corner Systems

Interior Finishes

Exterior Finishes

Commercial
2 CONSTRUCTION METHODS

INSULATED LOG BUILDING METHOD

Combining the best construction methods available with the rustic beauty of logs, the insulated log building method has proven to be a popular choice among log home enthusiasts. Movement and settling is prevented by the conventionally framed walls. Energy efficiency is achieved through the combination of thermal mass and insulation. Ease of construction – particularly plumbing, heating, electrical and cabinetry – makes this a builders’ dream. Design flexibility and an abundance of interior finishing choices create a distinctive reflection of each homeowner’s individual style.

Unlike the thin “log veneers” that you may have seen, our logs are true half logs cut from harvested timbers, debarked, kiln-dried and hand-crafted with a drawknife. Each log retains its unique characteristics for a truly beautiful finished log home.

FULL LOG BUILDING METHOD

For some log home enthusiasts, only the authentic solid log building method will do. This traditional log home construction method for first floor walls is combined with the advantages of the insulated log construction method for gable end walls to create a visually appealing, traditional log home. An all weather foam is placed between the logs before they are screwed together to provide a tight and hidden seal. Caulking or chinking is then applied between the logs to aid in weather resistance. Each full log home has saddle-notched overlapping corners (each corner log locking to the next). With each log screwed to the adjoining logs, the walls become one solid unit.

STANDARD MATERIALS PACKAGE

Log Styles
- Kiln-Dried Handcrafted Log
- Air-Dried Swedish Cope Log
- Kiln-Dried Timber Log
- Kiln-Dried Cabin Log
- Kiln-Dried Old Frontier Log

Corner Styles
- Full Round Butt & Pass
- Traditional Butt & Pass
- Vertical Post Corner
- Swedish Cope Saddle Notch
- Dovetail
- Hand-Scribed Saddle Notch
- Variable Stack Height Full Round Butt & Pass

Exterior Insulated Log Wall System
- Skirt log
- Pre-notched, heart center, 90° corners
- Full log wall logs (1st floor)
- Log siding
- Sashco caulk
- Backer rod & memory foam
- Log/log screws & spikes
- Single top plates (1st floor stud walls)
- 2x6 sole & double top plates (2nd floor)
- 2x6 pre-cut studs (2nd floor stud walls)
- 2x12 window and door headers
- OSB wall sheathing (2nd floor)
- Tyvek housewrap (2nd floor)

First Floor System
- Engineered LVL main beams
- 2x8 Pressure treated sill plate
- Sill seal
- Rimboard at 1-Joint floor system
- Joist hangers
- Solid blocking
- T&G AdvanTech floor sheathing
- Sub-floor adhesive
- Log stair stringers, treads and risers
- White cedar posts, rails and spindles

Exterior Full Log Wall System
- Pre-notched, heart center, 90° corners
- Full log wall logs (1st floor)
- Log siding (2nd floor)
- Sashco caulk
- Backer rod & memory foam
- Log/log screws & spikes
- Single top plates (1st floor stud walls)
- 2x6 sole & double top plates (2nd floor)
- 2x6 pre-cut studs (2nd floor stud walls)
- 2x12 window and door headers
- OSB wall sheathing (2nd floor)
- Tyvek housewrap (2nd floor)

Second Floor System
- Rimboard at 1-Joint floor system
- Joist hangers
- Solid blocking
- T&G AdvanTech floor sheathing
- Sub-floor adhesive
- Log stair stringers, treads and risers
- White cedar posts, rails and spindles

Rooftop System
- 5/8” CDX 1x6 plywood roof sheathing
- Plywood spacing clips
- 2x12 structural roof rafters or roof trusses
- Hurricane clips
- Engineered roof hangers
- 24” box overhang
- 1x10 cedar fascia trim
- Brown soffit vents
- 1x8 T&G knotty pine soffits

Shingle Package
- 50 year shingles
- 30# building felt
- Ice & water shield for valleys and eaves
- Aluminum valleys and flashing
- Colored aluminum “D” edging
- Continuous ridge and shingle vents
- Starter shingles
- Ridge cap hip shingles

Insulation Package
- R-38 10” high density friction fit roof insulation
- R-21 6” high density friction fit wall insulation
- R-21 high density friction fit box insulation
- 6 Mil vapor retarder
LOG PROFILES 3

Cathedral Ceiling (if applicable)
Round log cathedral beams
Round log rafters at cathedral beam location
1x8 T&G knotty pine ceiling

Dormer Package (shed/gable)
Log siding
Sashco caulk
Backer Rod
OlyLog screws & spikes
2x6 precut studs
2x6 sole & double top plates
2x12 window and door headers
OSB wall sheathing
Tyvek housewrap

2x12 structural roof rafters
5/8” CDX Fir plywood roof sheathing
24” box overhang
1x10 cedar fascia trim
Brown soffit vents
1x8 T&G knotty pine soffits

Deck Package (if applicable)
Pressure treated joint framing
Z-Max joint hangers
2x6 cedar floor decking
1x10 cedar fascia deck trim
Round cedar posts and rails
Log screws for cedar post connections
Materials for (2) steps to grade
Elevated decks include 8” cedar support posts & spindles

Porch Package (if applicable)
2” nominal structural roof rafters
1x8 knotty pine T&G ceilings
“D” log porch headers
Round pine support posts with impel rods
Log screws for post connections
Round cedar posts & rails
2x6 cedar decking
1x10 cedar fascia deck trim
Pressure treated joint framing
Z-Max joint hangers
Materials for (2) steps to grade
(Spindles optional)

Garage Package (if applicable)
Log siding
Sashco caulk
Backer rod
OlyLog screws & spikes
Silf seal
2x4 pressure treated sole plates
2x4 stud wall & double top plates
OSB wall sheathing
Tyvek housewrap
2x12 structural roof rafters or trusses
5/8” CDX Fir plywood roof sheathing
24” box overhang
1x10 cedar fascia trim
Brown soffit vents
1x8 T&G knotty pine soffits

Interior Log Package
(Optionals as per log style)

Interior Knotty Pine Package
(Optional for flat ceilings and interior walls)

Window Package
Pella Architect Series Classic casement, awning or double hung Enduraclad
Argon-filled InsulShield Insulating Glass
Full screens
Removable grilles
Hardware
Extension jambs

Patio Door Package (if applicable)
Pella Architect Series Classic Enduraclad
Argon-filled InsulShield Insulating Glass
Full screens
Removable grilles
Hardware
Extension jambs

Exterior Door Package
Pella Carbolite and steel doors

Items By Owner
Exposed basements
Common nails
Overhead garage doors
Interior finishes

KILN DRYING BENEFITS
• Shrinking and twisting of logs is minimized. Logs are pre-shrunk before the final sizing and handcrafting for quality control and to create a uniform stack height.
• Checking (cracking) is minimized by careful drying and re-hydration of the logs. Logs that are experiencing stress beyond acceptable levels are rejected.
• Sanitized logs from kiln drying kills insects, their eggs or larvae, mold and fungi which causes wood decay.
• Pitch is crystallized which prevents the sticky substance from seeping to the surface and staining the wood later on.
• Stain can be applied immediately following construction for more immediate protection, it will absorb deeper and last longer.
• Weight of the logs is greatly reduced making them easier to handle and move.

PINE KILN-DRIED HANDCRAFTED ROUND LOG &
CEDAR AIR-DRIED HANDCRAFTED ROUND LOG

Kiln-dried logs ensure stability and eliminate any insects or bacteria that may be in the wood. This premium product is handcrafted with a drawknife and cut from the heart of the log.

PINE KILN-DRIED OLD FRONTIER LOG

Similar to the Timber log, the Old Frontier is rough sawn with machined edges for that rugged look. Suitable for exterior applications, this product features lap groove or T&G, as well as relief cuts on the backside to prevent buckling.

PINE KILN-DRIED CABIN LOG

Ideal for the budget conscious family, Cabin log offers a smaller profile and a more contemporary look.

PINE KILN-DRIED TIMBER LOG &
CEDAR AIR-DRIED TIMBER LOG

Achieve the rustic look of the pioneer days with this flat log. Rough sawn for exterior application and smooth planed for interior, this beautiful log is a favorite for accenting interior walls and providing a flat surface for decorating. A beveled edge created with a drawknife is provided for caulk or chinking applications.

PINE AIR-DRIED HANDCRAFTED
SWEDISH COPE LOG

Machine lathed, shaped and finished with a drawknife to combine the precision of Swedish cope siding with the rustic charm of hand-crafted log.

PINE AIR-DRIED HANDCRAFTED
SWEDISH COPE FULL LOG

Machine lathed, shaped and finished with a drawknife to combine the precision of Swedish cope siding with the rustic charm of hand-crafted log.

STANDARD MATERIALS PACKAGE

Cathedral Ceiling (if applicable)
Round log cathedral beams
Round log rafters at cathedral beam location
1x8 T&G knotty pine ceiling

Porch Package (if applicable)
2” nominal structural roof rafters
1x8 knotty pine T&G ceilings
“D” log porch headers
Round pine support posts with impel rods
Log screws for post connections
Round cedar posts & rails
2x6 cedar decking
1x10 cedar fascia deck trim
Pressure treated joint framing
Z-Max joint hangers
Materials for (2) steps to grade
(Spindles optional)

Garage Package (if applicable)
Log siding
Sashco caulk
Backer rod
OlyLog screws & spikes
Silf seal
2x4 pressure treated sole plates
2x4 stud wall & double top plates
OSB wall sheathing
Tyvek housewrap
2x12 structural roof rafters or trusses
5/8” CDX Fir plywood roof sheathing
24” box overhang
1x10 cedar fascia trim
Brown soffit vents
1x8 T&G knotty pine soffits

Interior Log Package
(Optionals as per log style)

Interior Knotty Pine Package
(Optional for flat ceilings and interior walls)

Window Package
Pella Architect Series Classic casement, awning or double hung Enduraclad
Argon-filled InsulShield Insulating Glass
Full screens
Removable grilles
Hardware
Extension jambs

Patio Door Package (if applicable)
Pella Architect Series Classic Enduraclad
Argon-filled InsulShield Insulating Glass
Full screens
Removable grilles
Hardware
Extension jambs

Exterior Door Package
Pella Carbolite and steel doors

Items By Owner
Exposed basements
Common nails
Overhead garage doors
Interior finishes

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It’s the details that set us apart. Your choice of corner style will truly make your home a one-of-a-kind work of art. On the following pages you will see how these unique and interesting corner styles lend an artistic quality to the homes they grace.

**ROUND VERTICAL POST CORNER**
Provides a low maintenance corner to dormers or a contemporary finish to the entire home.
Available for all half-log profiles

**SQUARE VERTICAL POST CORNER**
Offers the same benefits of the round vertical post corner with a decidedly western flair.
Available for all half-log profiles
**CORNER STYLES**

**TRADITIONAL BUTT & PASS CORNER**

Recreate the "cabin in the woods" with this rustic butt & pass corner. Log ends continue the "flat-on-flat" profile of the wall sections.

Available in the following log profiles:
- Pine Kiln-Dried Handcrafted Round Half-Log
- Cedar Air-Dried Handcrafted Round Half-Log

**FULL ROUND BUTT & PASS CORNER**

Our showcase corner style, the full-round log ends compliment the beauty of the butt & pass corners.

Available in the following log profiles:
- Pine Kiln-Dried Handcrafted Round Half-Log
- Cedar Air-Dried Handcrafted Round Half-Log

**VARIABLE STACK HEIGHT FULL ROUND BUTT & PASS CORNERS**

For those who like variety, this creative combination mixes up the stack heights of your logs for a visual treat.

Available in the following log profile:
- Pine Kiln-Dried Handcrafted Round Half-Log
CORNER STYLES

HANDCRAFTED SADDLENOTCH CORNER
Combines the rustic beauty of handcrafted logs with the intricate character of the saddlenotch corner. Each log corner is notched to nestle into the adjoining corner providing a solid row of logs from both angles.
Available in the following log profiles:
• Pine Kiln-Dried Handcrafted Round Half-Log
• Cedar Air-Dried Handcrafted Round Half-Log

SWEDISH COPE SADDLENOTCH CORNER
Admire the precision fit and distinctive beauty of this shaped corner.
Available in the following log profiles:
• Air-Dried Swedish Cope Half-Log & Full-Log

TIMBER DOVETAIL CORNER
Enjoy the crisp, clean lines of timber with the interesting inter-locking dovetail corner.
Available in the following log profiles:
• Pine Kiln-Dried Handcrafted Timber Half-Log
• Cedar Air-Dried Handcrafted Timber Half-Log

Hand-scriberd Saddlenotch Corner
Experience the beauty of a hand-scribed home with the benefits of the insulated log building method.
Available in the following log profile:
• Pine Kiln-Dried Handcrafted Round Half-Log
The flexibility of insulated log construction provides you with a canvas to express yourself through the finishing touches in your log home. Following is a small sampling of the many different ways to complete the interior of our home.

1. Log tie beam
2. Interior round half log
3. Square cut window & door trim
4. Handcrafted log mantel
5. Knotty pine ceiling
6. Log rafters on flat ceiling
7. Round two-sided log window trim
8. Interior timber log
9. Timber four-sided window trim
10. Double cathedral log rafter
11. Interior vertical post
12. Log tie beam with king post & diagonals
13. Standard cedar safety rail
Interior round half log  
Round three-sided window trim  
Knotty pine cathedral ceiling  
Gable dormer flat ceiling w/knotty pine  
Knotty pine wall

Knotty pine wall  
Drywall cathedral ceiling  
Drywall walls  
Knotty pine cathedral ceiling

Loft edge  
Log support post  
Log tie beam  
Pre-assembled rail system  
Log support post  
Log tie beam

Knotty pine flat ceiling  
Log rafters  
Square four-sided window trim

Pine log support post  
Square rails & spindles  
Knotty pine flat ceiling  
Log porch header

Interior Swedish cope log  
Log tie beam  
Standard window trim (trimless)

Log rafter  
Knotty pine cathedral ceiling  
Log tie beam  
Log tie beam with king post & diagonals  
Interior round half log

Knotty pine wall  
Knotty pine wall  
Drywall walls  
Knotty pine cathedral ceiling
Roof lines – dormers, porches, balconies, and more. You know what you want, just not sure if you are speaking the same language as your log home professional. Here is a visual guide of common log home architectural details. Use as a common reference point in designing your very own unique log home.
The perfect way to set yourself apart from your competition is by making a statement with your public spaces. The insulated log building method offers flexibility for design and easily meets the different code requirements for commercial structures. Experience increased traffic and sales when you express your image with the uncompromising beauty and integrity of logs.

Let us be your guide
Interested in learning more about how the professionals at Expedition Log Homes can help you?
Call us at 877-250-3300 or visit our website www.expeditionloghomes.com for the representative nearest you.