

THERMAL BLANKET

THE ULTIMATE CATHEDRAL ROOF SYSTEM



BIG CABIN





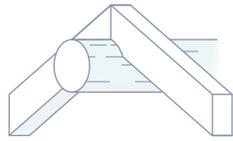
**"PERFECTION IS ACHIEVED, NOT WHEN
THERE IS NOTHING MORE TO ADD,
BUT WHEN THERE IS NOTHING LEFT
TO TAKE AWAY."**

-ANTOINE DE SAINT-EXUPERY

The design of the Thermal Blanket™ roof system strikes a balance between form and function. By blending the efficiencies of old-world post and beam methods utilized in Europe and Asia with state-of-the-art materials, Big Cabin's Founder, Brian Schafer has perfected a superior roof system.

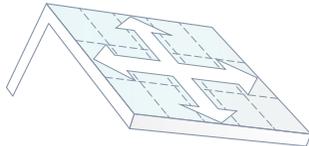
Engineered to have fewer components, the Thermal Blanket delivers a more efficient, more cost-effective, more reliable and better performing alternative to the mainstream.

RAISING THE STANDARD



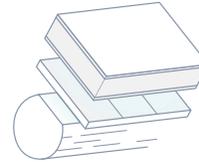
INCREDIBLE STRUCTURAL INTEGRITY

The backbone of the Thermal Blanket™ is a massive network of hand-crafted logs/beams and trusses, carrying the Bison Board™ roof decking and 12 inches of foam insulation. Its simple sophistication is comparable only to its stunning architectural elegance.



UNMATCHED THERMAL EFFICIENCY

Even in the most extreme mountain climates the Thermal Blanket maintains R-value. By installing the expanded polystyrene panels all the way to the fascia line our roof system ensures there are no thermal breaks and zero uninsulated spaces, eliminating ice dams.



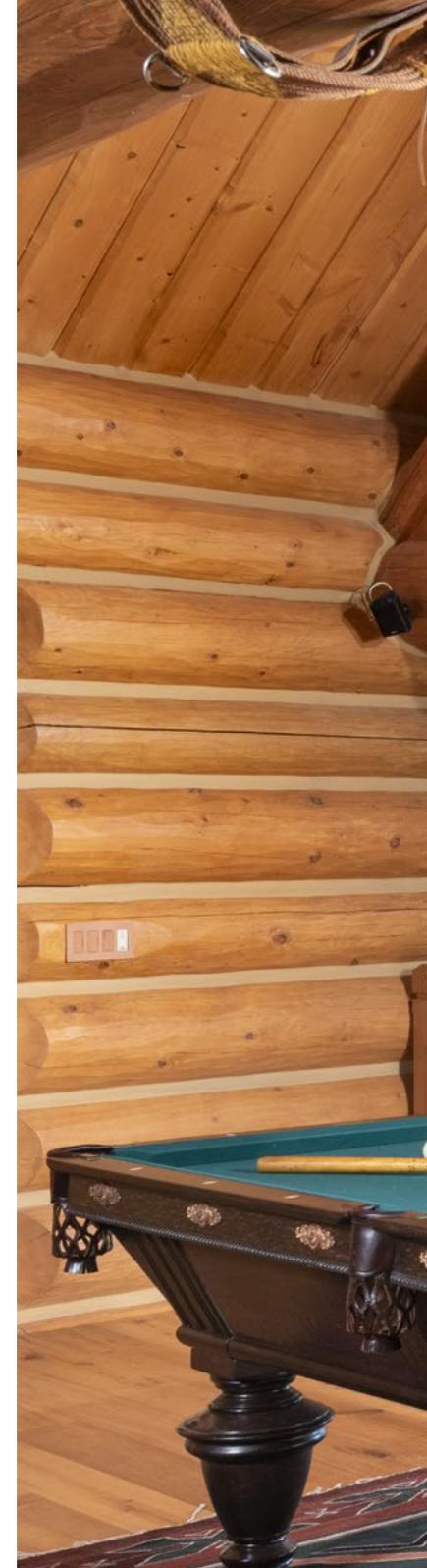
INSTALLATION SPEED & SIMPLICITY

A Thermal Blanket roof system reduces the number of pieces by nearly 50% which means it can be installed twice as fast, saving you on labor costs while delivering a more cost-effective and energy-efficient roof.



INCOMPARABLE PEACE OF MIND

The Thermal Blanket is Class A rated against wildfires. Our closed cell expanded polystyrene is smoke & fire retardant, and resistant to moisture, mold, fungus and bacteria.

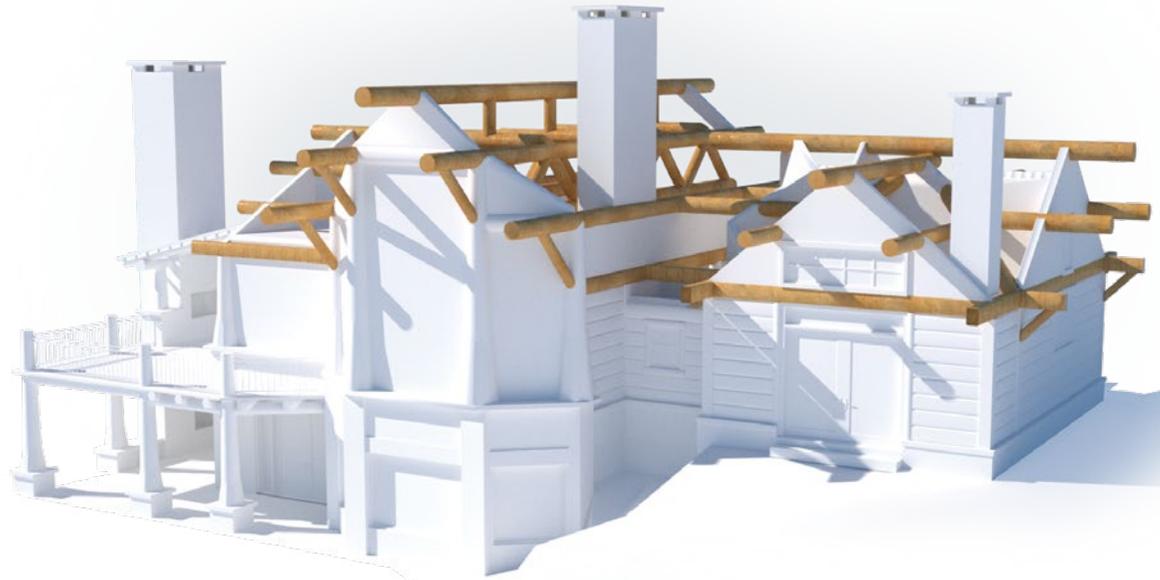




THREE MAJOR COMPONENTS

1. LOG SUPERSTRUCTURE

The Bison Board™ decking and 12 inches of foam insulation is supported by a massive network of hand-crafted logs/beams and trusses. The design of the superstructure contributes as much to its strength as to its dramatic, old-world, post and beam aesthetic.



2. BISON BOARD PLANKS

Our signature 3×10 Bison Board™ planks come in a variety of unique and exclusive textures and finishes to compliment any project. These robust timbers provide a stable foundation for the insulation blanket, supporting the heaviest of snow loads and offering a one-of-a-kind, elegant, finished ceiling inside your home.



3. NAILBASE INSULATION + FASCIA

Our expanded polystyrene roof panels are installed all the way to the fascia line, eliminating uninsulated spaces and ice dams. The Thermal Blanket insulation is impervious to moisture and dust, allowing it to maintain its R-value permanently.



OUR "LESS IS MORE" PHILOSOPHY

Enjoy the peace of mind that comes from the Thermal Blanket, a carefully engineered and beautifully constructed cathedral-style roof, free of formaldehydes and dyes, that offers superior protection from wildfires and energy savings that won't stop delivering.





HOW IT STACKS

We carefully analyzed a real-world log home project ("The Ouray House") to objectively compare costs, labor and the advantages of a Thermal Blanket™ to mainstream alternatives.

1. HALF THE MATERIAL

47%

FEWER PIECES



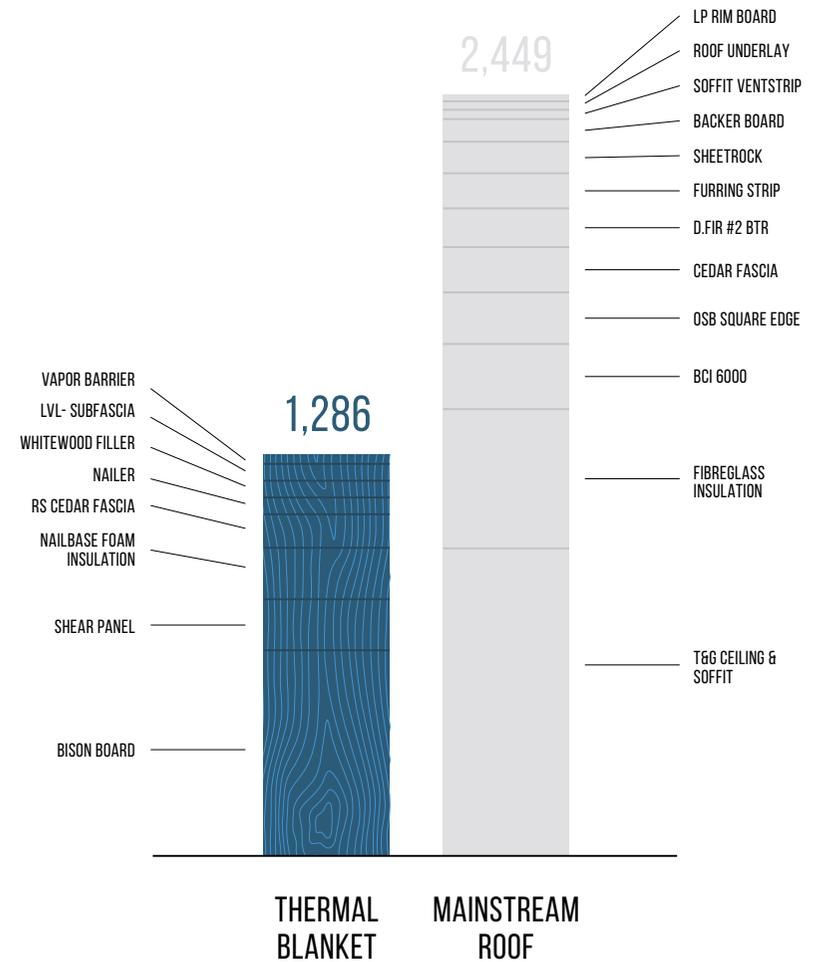
SIMPLER ASSEMBLY

The complexity of mountain architecture often means high-pitched open ceilings, steep and massive roof lines, and complicated transitions.

Mainstream, hand-stacked, cold roof systems are time and material intensive and often problematic with snow and ice, extended construction timelines and diminished thermal performance.

A Thermal Blanket roof system reduces the number of pieces by nearly 50%, providing a significantly faster install.

PIECES REQUIRED



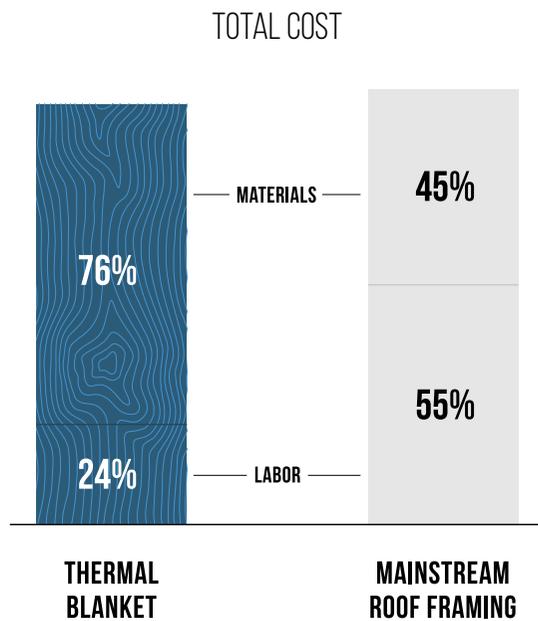
2. LOWER INSTALLATION COSTS

2.4X → 58%

FASTER INSTALLATION → SAVINGS IN LABOR COSTS

Mainstream roof framing involves five major labor elements: the rafters, insulation, roof sheathing, fascia, and finished ceiling materials.

The Thermal Blanket™ eliminates the rafters and our foam insulation is delivered with the roof sheathing factory pre-glued. Savings of over 50% on labor costs make it a more affordable choice than mainstream roofs.

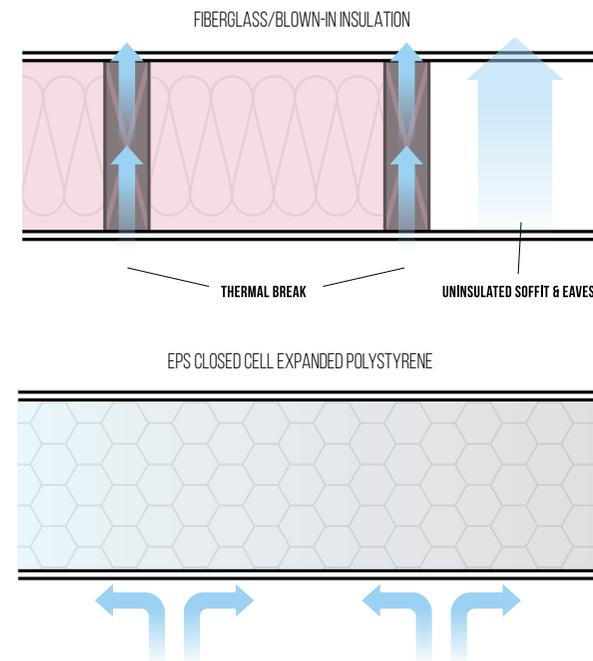


3. HIGHER ENERGY SAVINGS

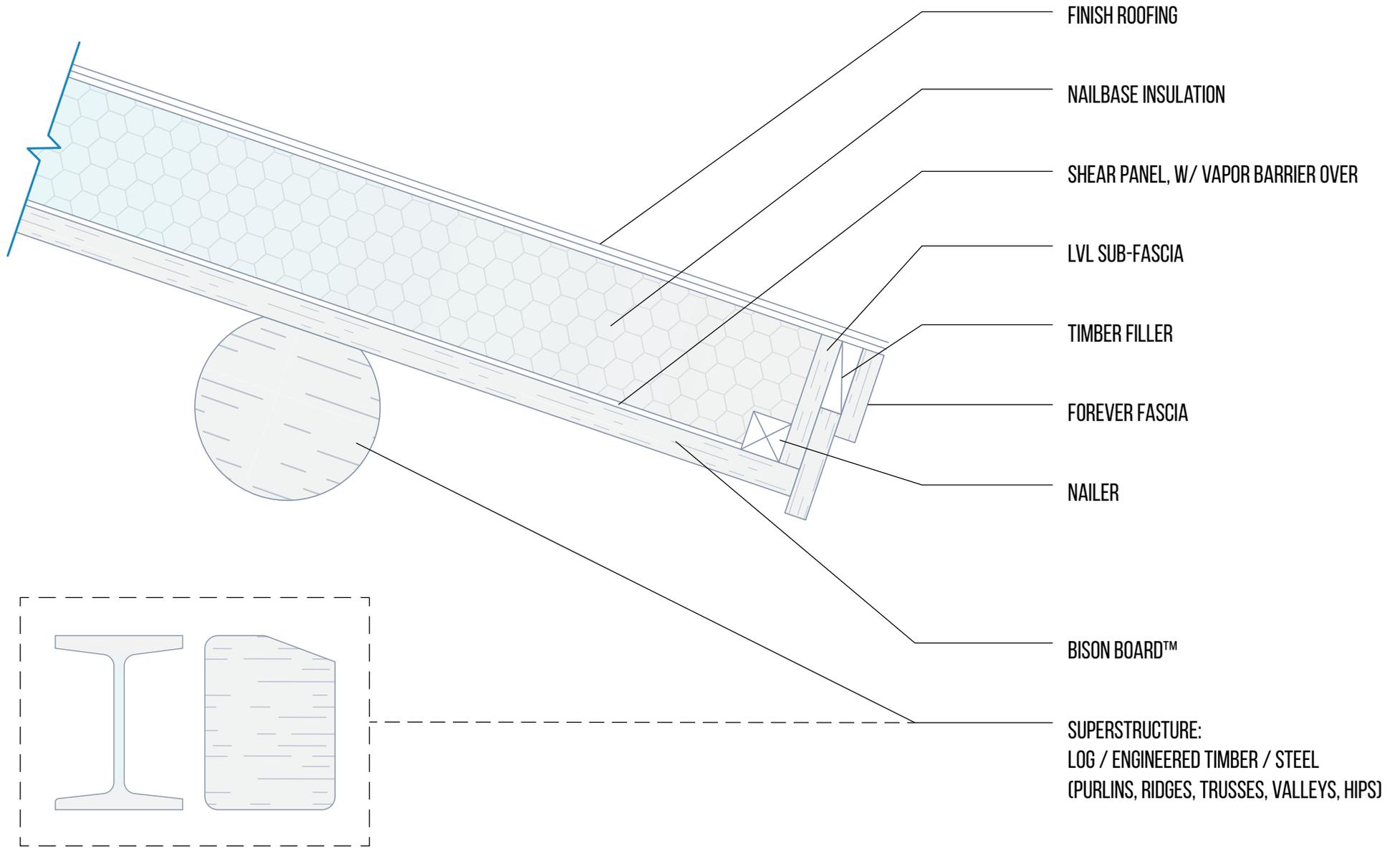
Exterior open cavities (soffits) and structural rafters every 16" mean heat loss up through your roof.

With a Thermal Blanket, the insulation extends all the way out to the fascia line at the top of the exterior wall, uninterrupted by rafters, which means there is no uninsulated space.

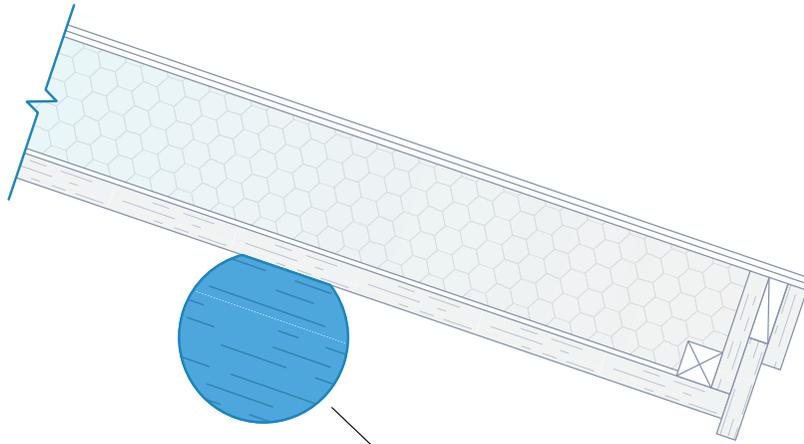
By canceling the temperature differential from exterior to interior, the Thermal Blanket eliminates ice dams and dramatically reduces heat loss, maintaining an R50-value forever.







SUPERSTRUCTURE



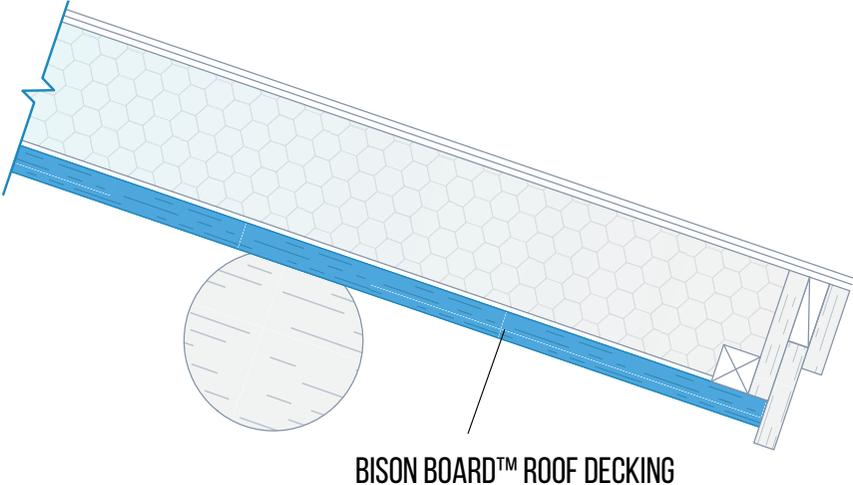
**LOG SUPERSTRUCTURE:
(PURLINS, RIDGES, TRUSSES, VALLEYS, HIP)**



MATERIAL	Inland Douglas Fir / Western Larch		
DIMENSION*	12"-20"	Continuous Full Length. Max Length of 45'	
GRADE	No. 1	No. 2 & Better	Appearance Grade
COLOR	Raw Unstained	SchaferWood Antique	Custom Stain
TEXTURE	Hand Hewn	Brushed	Resawn

*Requests for custom sizes and materials warmly received

BISON BOARD™

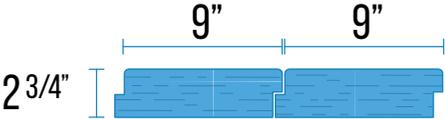


BISON BOARD™ ROOF DECKING

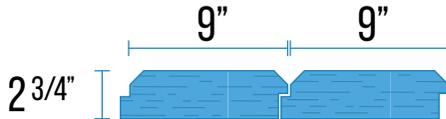


4 COLORS AVAILABLE

TRADITIONAL PROFILE
(BARNWOOD FLAT)

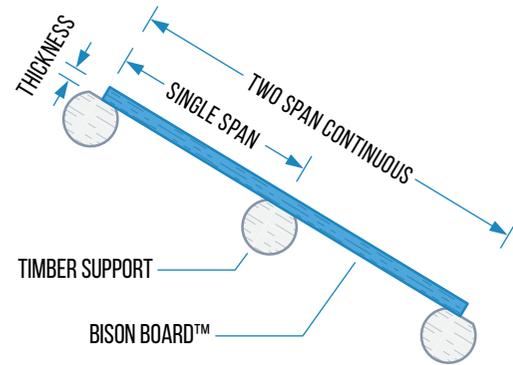


CONTEMPORARY PROFILE
(HEWN)



MATERIAL	Idaho White Pine	Inland Douglas Fir / Western Larch	Inland Western Red Cedar	
DIMENSION*	Nominal Size: 3" x 10"	Actual Size: 2 3/4" x 9 1/2"	Coverage: 9"	Length: 6' - 16'
GRADE	No. 2 Grade	Appearance Grade		
COLOR	Anvil Gray Atlas Bronze	Amaro Charcoal Altai Brown	Raw Unstained	Custom Stain
TEXTURE	Brushed	Smooth		

*Requests for custom sizes and materials warmly received



BISON BOARD™

These Span Tables were developed using No. 2 & better grade lumber using WWPA grade rules as an industry standard. Higher or lower grades are available, impacting the span values.

Single Span Bison Board™ is supported at two end points only.

Two Span Continuous Bison Board™ is supported at two end points and at one point inbetween.



PREPARED BY T. GORMAN PH.D., P.E.

SPAN TABLES

Maximum spans (feet, inches) limited by deflection of L/240

		Snow Load (psf)																			
		25		30		35		40		45		50		60		70		80		90	
Timber Species	Thickness	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span
IDAHO WHITE PINE, WESTERN RED CEDAR, & WESTERN WHITE WOOD	2 3/4"	12'3"	16'5"	11'5"	15'5"	10'11"	14'8"	10'5"	14'	10'	13'6"	9'8"	13'	9'1"	12'3"	8'8"	11'8"	8'3"	11'1"	7'11"	10'8"
	3 3/4"	16'8"	22'5"	15'8"	21'1"	14'11"	20'	14'3"	19'2"	13'9"	18'5"	13'3"	17'9"	12'5"	16'9"	11'10"	15'10"	11'4"	15'2"	10'11"	14'7"
	4 3/4"	21'2"	28'4"	19'11"	26'8"	18'11"	25'4"	18'1"	24'3"	17'5"	23'4"	16'9"	22'6"	15'9"	21'2"	15'	20'1"	14'4"	19'3"	13'9"	18'6"
DOUGLAS FIR & LARCH	2 3/4"	14'4"	19'2"	13'6"	18'1"	12'9"	17'2"	12'3"	16'5"	11'9"	15'9"	11'4"	15'3"	10'8"	14'4"	10'2"	13'7"	9'8"	13'	9'4"	12'6"
	3 3/4"	19'6"	26'2"	18'5"	24'8"	17'5"	23'5"	16'8"	22'5"	16'1"	21'6"	15'6"	20'9"	14'7"	19'7"	13'10"	18'7"	13'3"	17'9"	12'9"	17'1"
	4 3/4"	24'9"	33'2"	23'3"	31'3"	22'1"	29'8"	21'2"	28'5"	20'4"	27'3"	19'8"	26'4"	18'6"	24'9"	17'7"	23'6"	16'9"	22'6"	16'2"	21'8"

		Snow Load (psf)																						
		100		110		120		130		140		150		160		170		180		190		200		
		Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	Single Span	Two Span	
	7'8"	10'4"	7'5"	10'	7'2"	9'9"	7'1"	9'5"	6'10"	9'3"	6'8"	9'	6'6"	8'10"	6'5"	8'8"	6'3"	8'6"	6'2"	8'4"	6'1"	8'2"		
	10'6"	14'1"	10'2"	13'8"	9'11"	13'3"	9'7"	12'11"	9'5"	12'7"	9'2"	12'4"	9'	12'	8'9"	11'10"	8'7"	11'7"	8'6"	11'4"	8'4"	11'2"		
	13'4"	17'10"	12'11"	17'4"	12'6"	16'10"	12'2"	16'4"	11'11"	16'	11'7"	15'7"	11'5"	15'3"	11'2"	14'11"	10'11"	14'8"	10'9"	14'5"	10'7"	14'2"		
	9'	12'1"	8'9"	11'8"	8'6"	11'4"	8'3"	11'1"	8'	10'10"	7'10"	10'7"	7'8"	10'4"	7'6"	10'1"	7'5"	9'11"	7'3"	9'9"	7'2"	9'7"		
	12'3"	16'6"	11'11"	16'	11'7"	15'6"	11'3"	15'1"	11'	14'9"	10'9"	14'5"	10'6"	14'1"	10'3"	13'10"	10'1"	13'7"	9'11"	13'4"	9'9"	13'1"		
	15'7"	20'11"	15'1"	20'3"	14'8"	19'8"	14'3"	19'2"	13'11"	18'8"	13'7"	18'3"	13'4"	17'10"	13'1"	17'6"	12'10"	17'2"	12'7"	16'10"	12'4"	16'7"		

4 COLORS AVAILABLE



ANVIL GRAY



ATLAS BRONZE



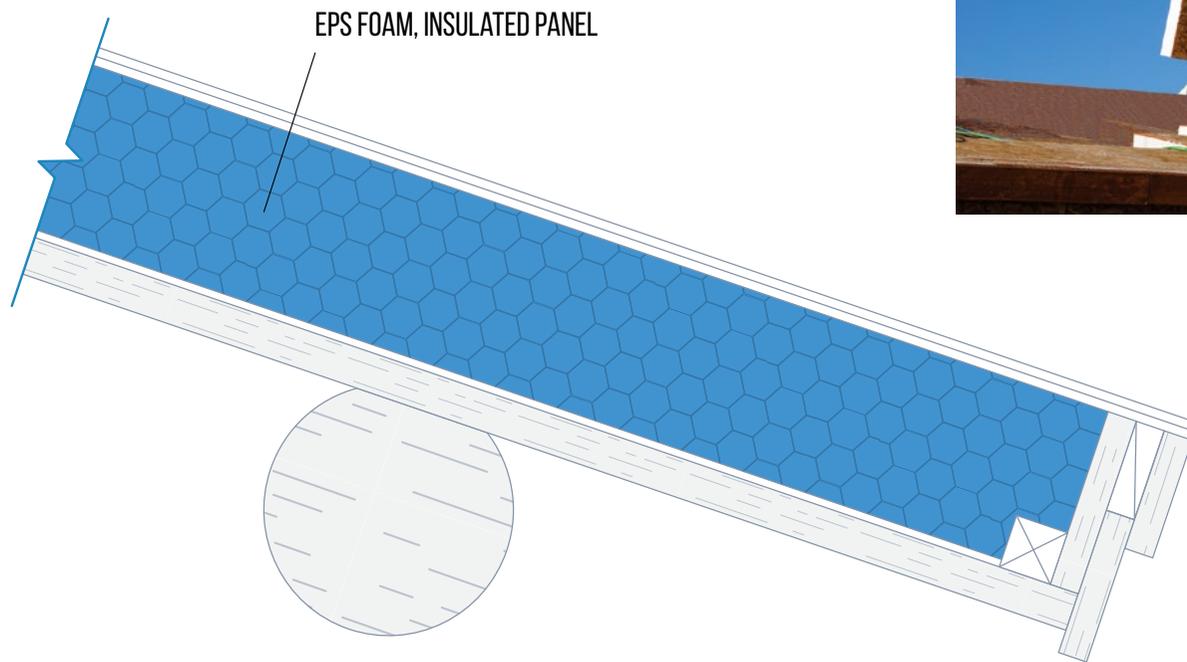
AMARO CHARCOAL



ALTAI BROWN

CUSTOMIZATION

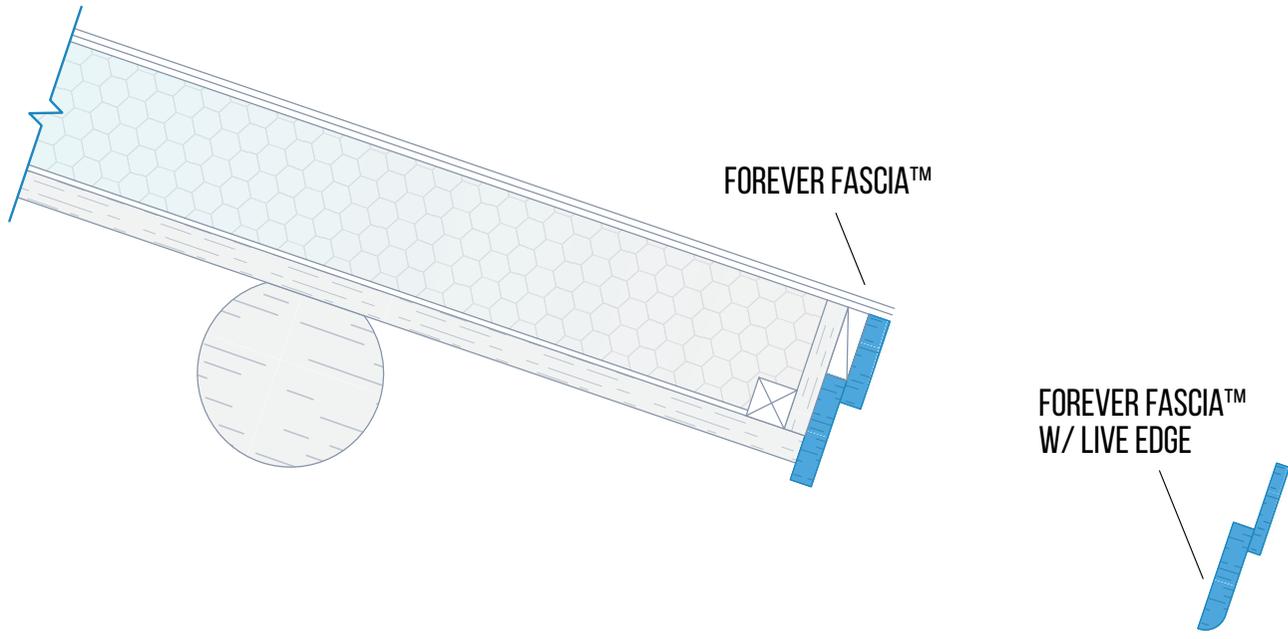
Custom color formulas can be produced



INSTALLATION

DIMENSION*	4' x 8' x 11 1/2" Composite Panel Provides Shear Value using 3" Wide Splines	
MATERIAL	EPS-Closed Cell Expanded Polystyrene	5/8" CDX
THERMAL RESISTANCE	R-Value = 44.27 (11 1/2" thick EPS)	20 Year Thermal Performance Warranty
FREE OF	Formaldehydes and Dyes	

*Requests for custom sizes and materials warmly received



MATERIAL	Inland Western Red Cedar		
DIMENSION*	Full dimension: 2" x 8", 2" x 10" Optional Live Edge: 1" x 8", 2" x 10"	Continuous Full Length Max Length of 45'	
GRADE	No. 1 Grade	Appearance Grade	
COLOR	Raw Unstained	SchaferWood Antique	Custom Stain
TEXTURE	Brushed	Resawn	Hewn

*Requests for custom sizes and materials warmly received





PO Box 1029
Coeur d'Alene, Idaho 83816
(208) 683-1444

13526 Hwy 55
McCall, Idaho 83638
(208) 634-0055

info@bigcabin.com
www.bigcabin.com