

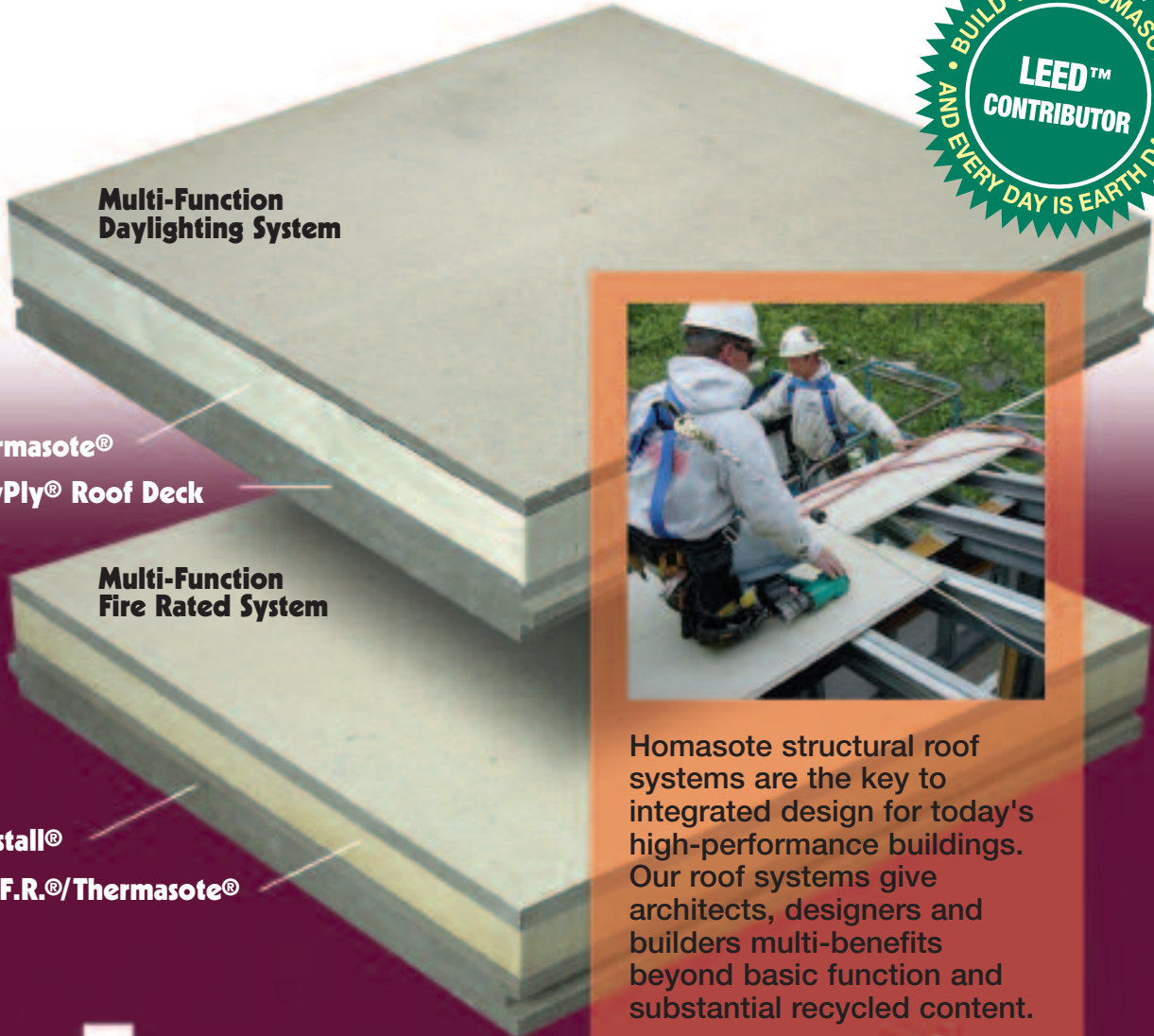
# Multi-Function Roofing Systems

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BuyLine 1806

**Firestall® Roof Deck**  
**EasyPly® Roof Deck**  
**Thermasote®**  
**N.C.F.R.®/Thermasote®**



## Structural • Nailbase • Insulation LEED™ Contributor



Homasote structural roof systems are the key to integrated design for today's high-performance buildings. Our roof systems give architects, designers and builders multi-benefits beyond basic function and substantial recycled content.

# homasote

COMPANY

Homasote Company structural roof systems are the key to integrated design for today's high-performance buildings. Our roof systems give architects, designers and builders value beyond basic function and substantial recycled content. We understand the interrelationship between practical design and multiple product functions that must be addressed by today's LEED™-conscious architects, designers and builders.

### Multi-Function Daylighting System

EasyPly® Roof Deck is a structural, load-bearing roof deck that can span 4' on center. It provides high reflectivity and is perfect for exposed roof truss design where daylighting is required, especially in high-performance schools and office buildings. Because of its 98 percent post-consumer paper content, EasyPly can contribute towards LEED credits in materials and resources.

### Multi-Function Fire-Rated System

Firestall® Roof Deck, is a Class A-rated structural load bearing roof deck capable of spanning 4' on center. Firestall is listed in various UL rated assemblies. (See UL P518, P535, P536) It provides two times the R-value of wood, along with up to 87 percent post-consumer recycled paper content that can contribute towards LEED credits.

For high-performance thermal insulation, augment a Firestall or EasyPly system with Thermasote or N.C.F.R./Thermasote nailbase insulation. Thermasote and N.C.F.R./Thermasote are up to 85 and 57 percent post-consumer paper by weight respectively. Add finished roofing and your multi-function high-performance roof system is complete.

The Thermasote family of products features structural integrity, high R-value and HCFC-free foam. With the highest R-value per cross-sectional thickness it can give a roof system an additional LEED component for energy efficiency.

## Firestall® Roof Deck

### Product Description

Firestall® Roof Deck is a nailable fire-rated structural load-bearing roof decking with an interior face ply of UL® Class A-rated N.C.F.R.® Homasote® and is used in residential and commercial buildings that require hourly-rated roof/ceiling assemblies. It can be applied directly over wood or steel framing up to 48" o.c., or to structural steel deck as a nailbase. Firestall provides a nailbase surface to which additional insulation, shingles, metal roofing and other finish roofing may be attached. By adding Thermasote nailbase roof insulation on top of Firestall, insulation values up to R31 can be achieved. (See facing page bottom for example.)



### Uses and Applications

Use Firestall in commercial structures, schools, office buildings, assisted living or nursing care structures and multi-family housing when a pleasing, sloping residential roof look is needed. Firestall is an excellent roof deck when sustainable and green building is the goal.

With up to 87 percent post-consumer paper content by weight, it can contribute towards U.S. Green Building Council (USGBC) LEED credits.

### Codes and Evaluations

UL® design numbers P-535, P-518 and P-515 with mineral fiber boards in category BQXR and file R-5268. Complies with 1993 BOCA National Code Section 2310.2, Fire-Retardant Treated Wood. Factory Mutual Research Report J.I. 1R9Q9.AC.

### Typical Physical Properties (Face Ply)

Flame Spread-Class A; flame spread of 25 and smoke developed of 20. Based on extended ASTM E-84 fire test method.

Firestall Roof Deck panels are not recommended for use over swimming pools or similar high-moisture areas.

## EasyPly® Roof Deck

### Product Description

EasyPly® Roof Deck is a multiple-ply, structural load-bearing roof deck made from high-density, structural 440 Homasote® with a white flitter vinyl coating which provides a high-reflecting, finished interior.

### Uses, Applications

EasyPly is designed for use as a structural, load-bearing roof decking in residential and commercial buildings with exposed beam construction. It is made with a 6 mil pre-finished interior surface of decorative white "flitter" vinyl film. By adding Thermasote nailbase roof insulation on top of EasyPly Roof Deck, insulation values up to R31 can be achieved.

With 98 percent post-consumer paper content by weight and its ability to facilitate daylighting design, EasyPly can contribute towards U.S. Green Building Council (USGBC) LEED credits.

### Codes and Evaluations

ICBO-Report No. 1016, ICC-ES Report No. 2308, F.H.A.-Materials Release No. 1150d

EasyPly Roof Deck panels are not recommended for use over swimming pools or similar high-moisture areas.



## Thermasote®

## N.C.F.R.®/Thermasote®

### Product Description

The Thermasote® family of nailbase roof insulation includes a top layer of nailable 440 Homasote® or N.C.F.R.® (Class A fire-rated Homasote) along with polyisocyanurate foam core, and a bottom facer of black glass-reinforced felt.

### Uses, Applications

Thermasote and N.C.F.R./Thermasote provide a nailable high R-value insulation for application over Homasote Firestall and EasyPly Roof Decks, wood, metal or other structural roof decking to provide thermal insulation and a nailable surface for finished roofing materials. It is particularly useful as roof insulation in exposed-beam or metal deck systems where the most efficient location for insulation is above the structural deck, providing a nailbase to receive finish roofings, such as asphalt, fiberglass or wood shingles, slate, tile, BUR and most single-ply membranes. Thermasote and N.C.F.R./Thermasote are excellent roof insulations when sustainable and green building are the goal. Thermasote and N.C.F.R./Thermasote are warranted by shingle manufacturers.

With their high R-values and up to 85 percent post-consumer paper content by weight, respectively, Thermasote and N.C.F.R./Thermasote can contribute towards U.S. Green Building Council (USGBC) LEED credits.

### Typical Physical Properties

Post-Consumer Content by Wt.: Thermasote up to 85%, N.C.F.R./Thermasote up to 57%  
Polyisocyanurate Foam: Flame Spread 25-50, Smoke Developed 50-170.  
Thermasote Substrates: 440 Homasote: Flame Spread-Class III (or C) (76-200). Tested according to ASTM E-84. N.C.F.R. Homasote: N.C.F.R. Flame Spread-Class I (or A) (0-25). Tested according to ASTM E-84 and approved for use in FM-1 construction.

### Codes and Evaluations

All Thermasote products: ASTM C 1289 TYPE V (Supersedes federal specification HH-1-1972/GEN), ICBO-Report 1016, and ICC-ES Report No. 2308.  
Additionally for Thermasote: UL® R13614.  
Additionally for N.C.F.R./Thermasote: Factory Mutual Report # J.I.-1J0A9.AM  
Additionally Thermasote: FM Standard classification for use with Class A,B,C, metal, and tile roof systems; UL® 1256 classification for use with insulated metal deck construction.

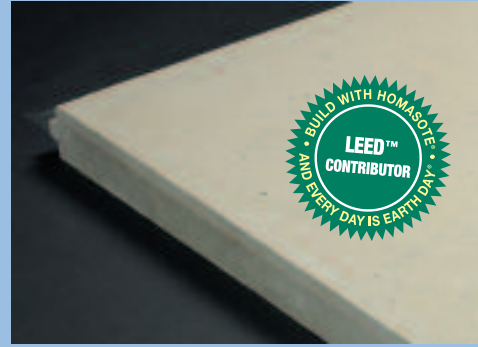
### Firestall® Class A Roof System Over Steel Frame Luxury Condominium, Bucks County, Pennsylvania



Firestall® Roof Deck and 4" N.C.F.R. Thermasote were specified on these luxury condominiums in Bucks County, Pennsylvania. The Firestall is fastened directly to steel trusses, eliminating the steel deck. The addition of N.C.F.R. Thermasote provides superior insulation and a Class-A nailbase for 50-year shingles and standing-seam metal roofing. This system also eliminates the need for fire-retardant plywood. See Homasote Company's roofing case studies.



### Firestall® Roof Deck



### EasyPly® Roof Deck



### Thermasote®



### N.C.F.R.®/Thermasote®



The Homasote Company Technical Support Office, 800-257-9491 Ext. 1332, can provide roofing system solutions for a broad range of construction applications using our structural, insulation and nailbase products.

**Firestall® Roof Deck**

THICKNESS (Inches)	SIZES Panels are 2' x 8' (Nominal)	LIVE LOAD (PSF)	MAXIMUM SPACING (Inches)	R-VALUE	WEIGHT
1"	(Nominal)	50	24"	2.05	2.62
1 3/8"	[23-1/4" x 95-7/8"]	50	32"	2.5	4.48
1 7/8"	(Actual)	40	48"	3.1	4.63

**EasyPly® Roof Deck**

THICKNESS (Inches)	SIZES Panels are 2' x 8' (Nominal)	LIVE LOAD (PSF)	MAXIMUM SPACING (Inches)	R-VALUE	WEIGHT (lbs/sq.ft.)
2-1/16"	[1' 11-1/8" x 7' 11-7/8"] (Actual)	50	48"	5.0	5.0 lb.

**Thermasote®**

THICKNESS (Inches)	SIZES Panels are 4' x 8' (Nominal)	LIVE LOAD (PSF)	MAXIMUM SPACING (Inches)	(LTTR) R* FACTOR (Depending Upon Thickness)	WEIGHT (lbs/sq.ft.) From 1.4 lb. to 2.0 lb. (Depending Upon Thickness)
From 1.5" to 4.5"	(Nominal)	N/A	N/A	From 7.1 to 26.1	(Depending Upon Thickness)

**N.C.F.R.®/Thermasote®**

THICKNESS (Inches)	SIZES Panels are 4' x 8' (Nominal)	LIVE LOAD (PSF)	MAXIMUM SPACING (Inches)	(LTTR) R* FACTOR (Depending Upon Thickness)	WEIGHT (lbs/sq.ft.) From 1.4 lb. to 2.0 lb. (Depending Upon Thickness)
From 1.5" to 4.5"	(Nominal)	N/A	N/A	From 6.9 to 25.9	(Depending Upon Thickness)

IMPORTANT: No moisture from any source should be sealed into a roof system. Roofing felts, insulation or vapor retarders that become wet or water-laden during construction should be removed and replaced before the application of finish roofing materials.

\*R-Values, thickness and specification data for insulation products are listed at <http://www.homasote.com/insulation>

Always consult the most recent product installation instructions, also listed at <http://www.homasote.com/installation>

The current Homasote products warranty can be found at <http://www.homasote.com/warranty.html>



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**For Up-To-The Minute Information**

- Specifications • Technical Support • Drawings • Test Data • Additional or Late-Breaking News and Information from Homasote Company.

Visit [homasote.com](http://homasote.com) or Call Tech Line 800-257-9491 Ext. 1332



Also See Homasote Company's Case Studies, Sound Control and Interior Catalogs.