



# Hunter Panels Tapered Polyiso Roofing Products

Hunter Panels Tapered Department consists of designers, estimators, customer service and field personnel. We assist you in the design and installation of the most efficient tapered polyiso solutions to meet your specifications and budgetary needs. Using Hunter Panels full line of tapered polyiso panels and tapered pre-cut accessories saves you time and money. These accessories compliment your tapered system and, as always, they come with Hunter Panels **Whatever it Takes** guarantee!

## TAPERED H-SHIELD

Tapered H-Shield is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a fiber-reinforced facer on both sides.

- ASTM C 1289 Type II, Class 1, Grade 2 or 3 (GRF)
- Available in Standard and Extended Panel profiles
- Available in 4'x4' standard, 4'x8' special request
- Highest Recycled Content (LEED)
- Most Economical Facer
- Systems:
  - Single-Ply
  - Modified Bitumen
  - BUR
  - Standing Seam
  - Direct application to steel deck

## TAPERED H-SHIELD CG

Tapered H-Shield CG is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a premium performance coated glass facer on both sides.

- ASTM C 1289 Type II, Class 2, Grade 2 or 3 (CGF)
- Available in Standard and Extended Panel profiles
- Available in 4'x4' standard, 4'x8' special request
- Systems:
  - Single-Ply
  - Modified Bitumen
  - BUR
  - Standing Seam
  - Direct application to steel deck

## HINGED TARGET SUMP 8'x8' Hinged Drain Sump

- Manufactured with Tapered H-Shield and Tapered H-Shield CG, 20 or 25 PSI
- Flat 8'x8' pre-assembled sump
- Ships folded 4'x8'
- Perimeter Edge Thicknesses 1.5", 2", 2.5", 3"

## TARGET SUMP 4'x4' Drain Sump

- Manufactured with Tapered H-Shield CG 25 PSI only
- Flat 4'x4' pre-assembled sump
- Special packaging for ease of job site identification

## PRE-CUT HIPS AND VALLEYS

Pre-cut Hips (slope outward) and Pre-cut Valleys (slope inward) are factory produced using two 4'x4' panels of Tapered H-Shield or Tapered H-Shield CG, cut in half at 45 degrees. Only the two halves required for installation are shipped.

- Manufactured with Tapered H-Shield and Tapered H-Shield CG, 20 or 25 PSI
- Flexibility in design and size: custom designed to meet your job site requirements including slope, minimum and maximum thicknesses. Available in all panels AA-ZZ
- Packaged and labeled separately from the tapered panels in the system

## EXPERT TAPERED DESIGN SERVICES

The Hunter Panels team will work with you from start to finish to engineer the appropriate tapered design system for your roof configuration and drainage requirements.

## TAPERED ON THE WEB

HUNTERPANELS.COM

- Submit Quote Requests On-line
- Send and Receive Drawings Via Email
- Request Samples and Submittal Sheets

TAPERED PANELS				
48" X 48"				
BOARD STYLE	DIMENSIONS IN INCHES	BD FEET PER PANEL	PCS PER PANEL BUNDLE	
AA	.5" - 1"	12	64	
A	1" - 1.5"	20	38	
B	1.5" - 2"	28	26	
C	2" - 2.5"	36	20	
D	2.5" - 3"	44	16	
E	3" - 3.5"	52	14	
F	3.5" - 4"	60	12	
FF	4" - 4.5"	68	10	
X	.5" - 1.5"	16	48	
Y	1.5" - 2.5"	32	24	
Z	2.5" - 3.5"	48	16	
ZZ	3.5" - 4.5"	64	12	
G	1" - 2"	24	32	
H	2" - 3"	40	18	
I	3" - 4"	56	12	
Q	.5" - 2.5"	24	32	
QQ	2.5" - 4.5"	56	12	
XX	1" - 3"	32	24	
JJ	.5" - 1.25"	14	54	
KK	1.25" - 2"	26	28	
LL	2" - 2.75"	38	20	
MM	2.75" - 3.5"	50	14	
J	1" - 1.75"	22	34	
K	1.75" - 2.5"	34	22	
L	2.5" - 3.25"	46	16	
M	3.25" - 4"	58	12	
SS	.5" - 2"	20	38	
TT	2" - 3.5"	44	16	
S	1" - 2.5"	28	26	
T	2.5" - 4"	52	14	
1	.5" - .75"	10	76	
2	.75" - 1"	14	54	
3	1" - 1.25"	18	42	
4	1.25" - 1.5"	22	34	
5	1.5" - 1.75"	26	28	
6	1.75" - 2"	30	24	
7	2" - 2.25"	34	22	
8	2.25" - 2.5"	38	20	

**Bold text** indicates tapered panels utilized in Hunter Panels Extended Panels Tapered Systems

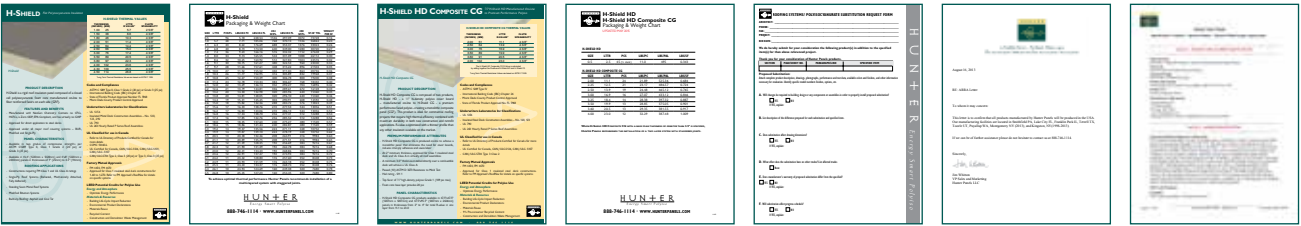
# Hunter Panels Expert Advice and Support

With over 1000 documents online, our comprehensive website is your source for a broad range of downloads including technical documents, installation advice, product specifications and real world application examples.

Visit [HunterPanels.com](http://HunterPanels.com) or call us today at 888.746.1114. We are here to help.

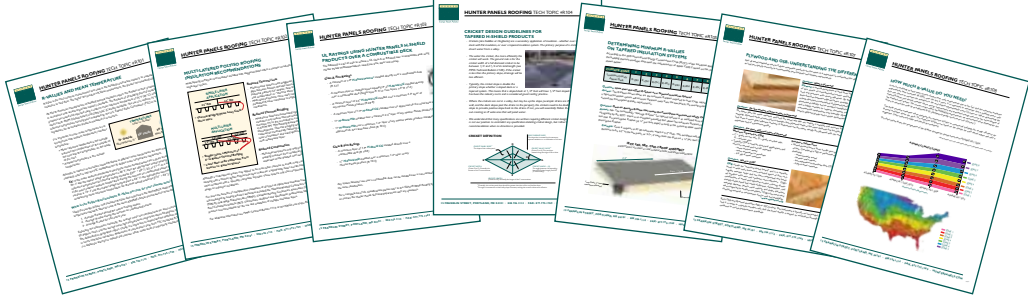
## PRODUCT INFORMATION

Submittal Documents, Sales Sheets, Packaging and Weight Charts, Videos, Animations, Specs, and a whole lot more



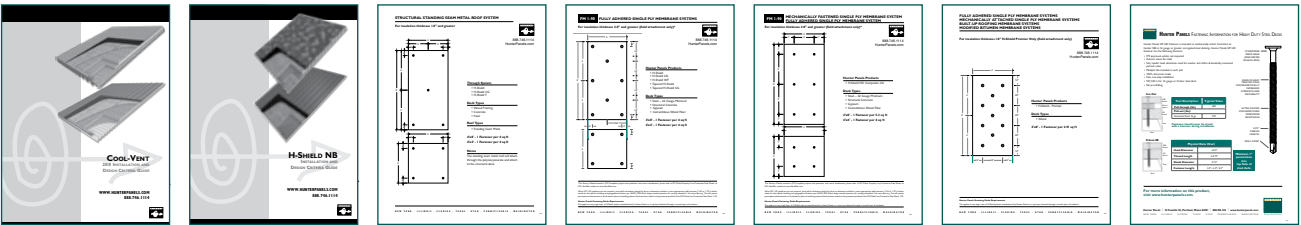
## TECH TOPICS

Our Tech Topics address a wide variety of specific and frequently asked technical questions.



## INSTALLATION GUIDES AND FASTENING INFORMATION

Our Installation and Fastening guides for Cool-Vent and H-Shield NB, Individual Fastening Patterns by product, Fastener recommendations, Installation videos, all aid in insuring that you installation goes smoothly.



TAPERED

# Hunter Panels

MANUFACTURERS OF ENERGY SMART POLYISO ROOF INSULATION PANELS



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Energy Smart Polyiso

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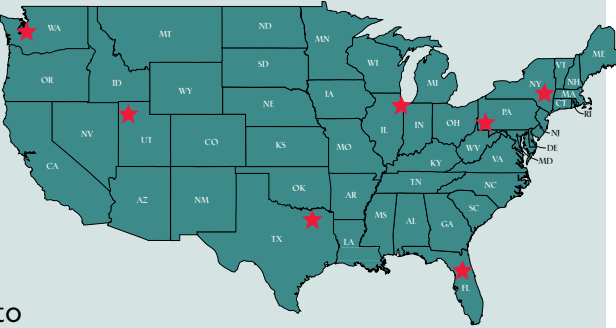
NEW YORK · ILLINOIS · FLORIDA · TEXAS · UTAH · PENNSYLVANIA · WASHINGTON



An interesting thing happened in 1998

when Hunter set out to manufacture the absolute most effective, efficient and innovative Polyiso insulation panels available anywhere – we also created the finest customer service organization and contractor support team in the industry. Go figure.

Then again, at Hunter we believe in doing “whatever it takes” to provide our customers with a full line of proven Polyiso products from our seven manufacturing facilities strategically located across the USA for fast, on-time service and availability.



When it comes to thermal efficiency and a wide range of building applications, Polyiso insulation is the #1 insulating material available today. Polyiso can be installed on both commercial and residential structures, on the roof or in the wall. It’s lightweight, cost-effective and provides outstanding return on investment with significant energy savings.

See for yourself how the expert team at Hunter Panels will do “**Whatever it Takes**” to provide you with the absolute best Polyiso products and customer service, too.

# Hunter Panels Manufacturing – Innovation – Efficiency – Quality

## HUNTER FLAT POLYISO PRODUCTS FOR LOW SLOPE ROOFING APPLICATION

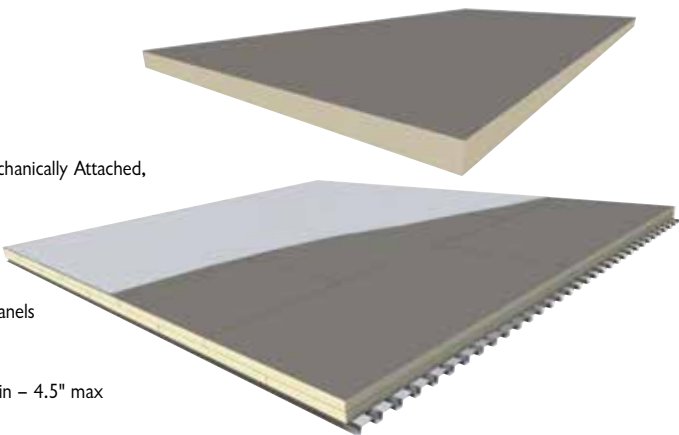
### H-SHIELD *Flat Polyiso*

#### APPLICATIONS

- BUR, Mod Bit, Cold Applied, Single-Ply Systems: Ballasted, Mechanically Attached, Fully Adhered, Standing Seam Metal Roof Systems

#### PRODUCT FEATURES

- Available in 4'x4' and 4'x8' flat panels
- Available in thicknesses of 1" to 4.5" flat panels
- Available in Tapered Panels .5" min – 4.5" max
- UL Class A, FM Class 1
- Available in 20 and 25 psi



TYPICAL PHYSICAL PROPERTY DATA CHART PER ASTM C 1289 POLYISO FOAM CORE ONLY		
PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM D 1621	20 psi* (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E 96	< 1 perm (57.5ng/(Pa•s•m <sup>2</sup> ))
Water Absorption	ASTM C 209	< 1% volume
Flame Spread**	ASTM E 84	< 75
Smoke Developed**	ASTM E 84	< 450
Service Temperature	–	-100° to 250° F (-73° C to 122° C)

\*\*Meets the requirements of the IBC code. For specific Flame Spread or Smoke Developed Ratings - please contact the Hunter Panels Technical Department.

H-SHIELD THERMAL VALUES				
THICKNESS (INCHES) (MM)	LTT <sup>†</sup> R VALUE*	FLUTE SPANABILITY	PCS PER BUNDLE	
1.0 25	5.7	2 ¾"	48	
1.5 38	8.6	4 ¾"	32	
1.8 46	10.3	4 ¾"	26	
2.0 51	11.4	4 ¾"	24	
2.5 64	14.4	4 ¾"	19	
2.6 66	15.0	4 ¾"	18	
3.0 76	17.4	4 ¾"	16	
3.5 89	20.5	4 ¾"	13	
3.8 97	22.3	4 ¾"	12	
4.0 102	23.6	4 ¾"	12	
4.3 109	25.5	4 ¾"	11	
4.5 114	26.8	4 ¾"	10	

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

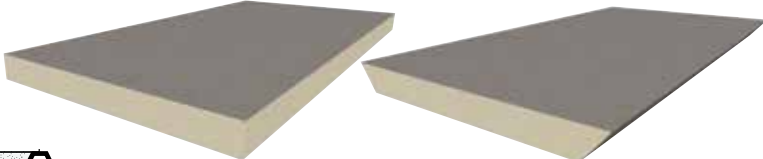
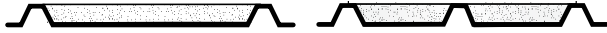
### H-SHIELD STRAIGHT CUT AND H-SHIELD BEVEL CUT *Flute Fill*

#### APPLICATIONS

- Standing seam Metal retrofit systems
- Flute Fill
- FM Class 1 – top layer of Polyiso must be a minimum of 1.5" over the H-Shield Bevel Cut or Straight Cut

#### PRODUCT FEATURES

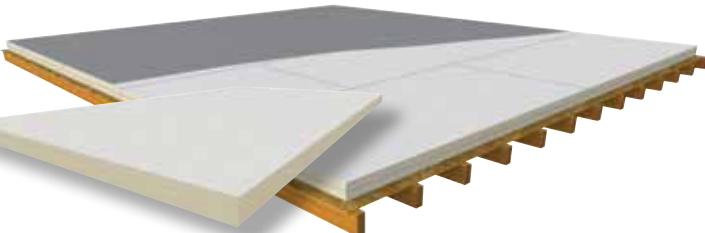
- Available in a variety of facers - black, CG, foil
- Both available in thicknesses of 1.0" to 4.5" and custom widths



## HUNTER COATED GLASS FACED PRODUCTS

### H-SHIELD CG

*Flat Premium Performance Faced Polyiso Insulation*



#### APPLICATIONS

- BUR, Mod Bit, Single-Ply Systems: Ballasted, Mechanically Attached, Fully Adhered
- Cold Applied and Spray Applied applications

#### PRODUCT FEATURES

- Available in 4'x4' and 4'x8' flat panels
- Available in thicknesses of 1" to 4.5" flat panels
- Available in Tapered Panels .5" min to 4.5" max
- UL Class A, FM Class 1
- Mold resistant facer
- Available in 20 and 25 psi
- 9% pre consumer recycled content

H-SHIELD CG THERMAL VALUES				
THICKNESS (INCHES) (MM)	LTT <sup>†</sup> R VALUE*	FLUTE SPANABILITY	PCS PER BUNDLE	
1.0 25	5.7	2 ¾"	48	
1.5 38	8.6	4 ¾"	32	
1.8 46	10.3	4 ¾"	26	
2.0 51	11.4	4 ¾"	24	
2.5 64	14.4	4 ¾"	19	
2.6 66	15.0	4 ¾"	18	
3.0 76	17.4	4 ¾"	16	
3.5 89	20.5	4 ¾"	13	
3.8 97	22.3	4 ¾"	12	
4.0 102	23.6	4 ¾"	12	
4.3 109	25.5	4 ¾"	11	
4.5 114	26.8	4 ¾"	10	

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

### H-SHIELD HD ½" *High-Density Polyiso Cover Board*

#### APPLICATIONS

- BUR, Mod Bit, Single-Ply Systems: Mechanically Attached, Fully Adhered
- Cold Applied and Spray Applied applications
- New Construction and Retrofit

#### PRODUCT FEATURES

- Available in 4'x8' flat panels
- Available in thickness of ½"
- 11 lbs per 4'x8' board
- UL Class A, FM Class 1 Mechanically Attached only
- Mold resistant facer
- SH-1 Hail Rating
- 9% pre consumer recycled content

### H-SHIELD HD FR ½" *High-Density Fire Rated Polyisocyanurate Panel*

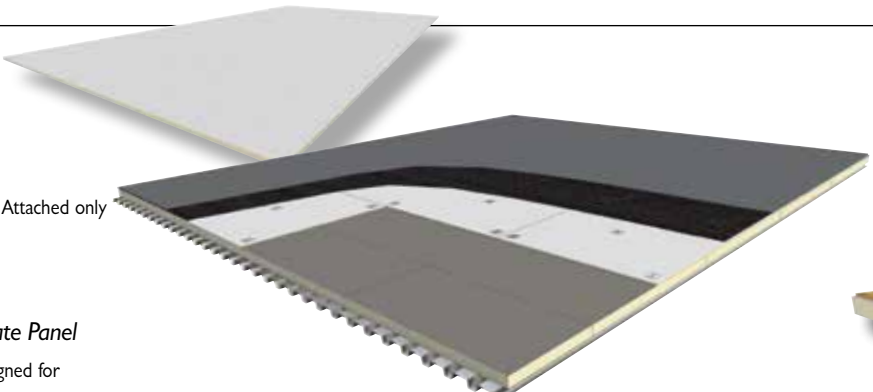
H-Shield HD FR is a ½" thick, high-density polyiso insulation panel specifically designed for direct application to combustible decks.

- H-Shield HD FR achieves a UL 790 Class A combustible deck assembly rating at ½" thickness without the use of a fire rated slip sheet or the presence of a fire barrier ASTM C 1621 (modified) 109 psi max

H-SHIELD HD AND H-SHIELD HD FR THERMAL VALUES		
THICKNESS (INCHES)	THICKNESS (MM)	R-VALUE*
0.5	13	2.5

\*Tested in accordance with ASTM C 518

H-SHIELD HD AND H-SHIELD HD FR PHYSICAL PROPERTY DATA		
PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM C 1621 (modified)	109 psi max



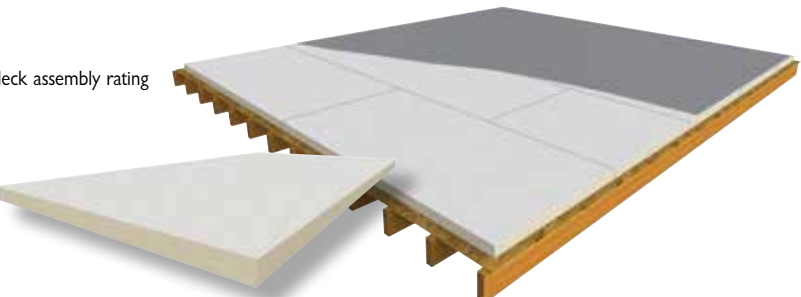
### H-SHIELD PREMIER 1" *Flat Polyiso Manufactured On-Line to Heavy Duty Coated Glass Facers*

#### APPLICATIONS

- Achieves a UL Class A combustible deck assembly rating at a 1" thickness without the use of a fire rated slip sheet or gypsum cover board

#### PRODUCT FEATURES

- Available in 4'x8' panels
- Mold resistant facer
- 9% pre consumer recycled content



### H-SHIELD HD COMPOSITE CG

*½" H-Shield HD Manufactured On-Line to Premium Performance Polyiso*

#### APPLICATIONS

- BUR, Mod Bit, Single-Ply Systems: Ballasted, Mechanically Attached, Fully Adhered
- Cold Applied and Spray Applied applications
- New Construction and Retrofit applications

#### PRODUCT FEATURES

- Available in 47.5"x47.5" and 47.5"x95.5" flat panels
- Available in thicknesses of 2" to 4" flat panels
- UL Class A, FM Class 1
- Mold resistant facer
- SH-1 Hail Rating
- 9% pre consumer recycled content



H-SHIELD HD COMPOSITE CG THERMAL VALUES			
THICKNESS (INCHES) (MM)	LTT <sup>†</sup> R VALUE*	FLUTE SPANABILITY	PCS PER BUNDLE
2.0 51	11.1	4 ¾"	24
2.5 64	13.9	4 ¾"	19
3.0 76	16.9	4 ¾"	16
3.5 89	19.9	4 ¾"	13
3.6 91	20.5	4 ¾"	13
4.0 102	23.0	4 ¾"	12

H-Shield HD Composite CG R-value is calculated by adding together the R-values of H-Shield HD and H-Shield CG.

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

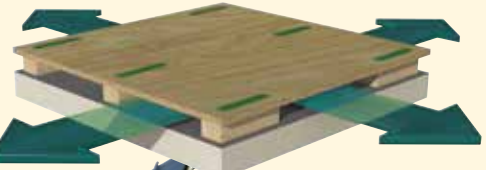
## HUNTER ENGINEERED PRODUCTS FOR STEEP SLOPE ROOF APPLICATIONS

### COOL-VENT

*Ventilated Nailbase Polyiso*

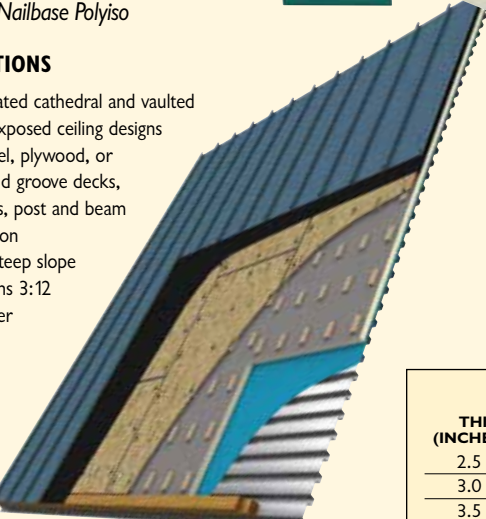
#### APPLICATIONS

- Non-insulated cathedral and vaulted ceilings, exposed ceiling designs under steel, plywood, or tongue and groove decks, log homes, post and beam construction
- Ideal for steep slope applications 3:12 and greater



#### PRODUCT FEATURES

- Bottom layer polyiso, middle wood block spacers, top layer OSB or plywood
- Available in 4'x8' panels
- Available in overall thicknesses of 2.5" to 5"
- Standard 1" airspace, 1.5" and 2" also available
- Available with top substrates of 7/16" or 5/8" OSB, and 5/8" or 3/4" Plywood
- OSB and Plywood rabbeted on all sides for expansion of wood substrates
- Not a structural panel



COOL-VENT THERMAL VALUES			
THICKNESS <sup>†</sup> (INCHES) (MM)	MINIMUM R VALUE*	FLUTE SPANABILITY	
2.5 64	5.7	2 ¾"	
3.0 76	8.6	4 ¾"	
3.5 89	11.4	4 ¾"	
4.0 102	14.4	4 ¾"	
4.5 114	17.4	4 ¾"	
5.0 127	20.5	4 ¾"	

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

†Thickness is calculated with ¾" OSB and 1" airspace. For other dimensions contact Hunter Panels.

To achieve optimal thermal performance, Hunter Panels requires installation of a multi-layered system when using more than 3.5" of foam in Cool-Vent. R values other than those listed in the above chart can be achieved by altering the base layer of flat polyiso in conjunction with the thickness listed above.



H-SHIELD NB THERMAL VALUES			
THICKNESS <sup>†</sup> (INCHES) (MM)	LTT <sup>†</sup> R VALUE*	FLUTE SPANABILITY	
1.5 38	6.3	4 ¾"	
2.0 51	9.2	4 ¾"	
2.5 64	12.0	4 ¾"	
3.0 76	15.0	4 ¾"	
3.5 89	18.0	4 ¾"	
4.0 102	21.1	4 ¾"	

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

†Thickness is calculated with ¾" OSB.

To achieve optimal thermal performance, Hunter Panels requires installation of a multi-layered system when using more than 3.5" of foam in H-Shield NB. R-values other than those listed in the above chart can be achieved by altering the base layer of flat polyiso in conjunction with the thickness listed above.

### H-SHIELD NB

*Flat Polyiso Manufactured On-Line to Oriented Strand Board or Plywood*

#### APPLICATIONS

- Single Ply Roofing Systems: Ballasted, Mechanically Attached, Fully Adhered
- Steep Slope applications under tile, slate or a heavy weight shingle

#### PRODUCT FEATURES

- Available in 47.5"x 95.5" when rabbeted on line and 4'x8' when non-rabbeted
- Available in thicknesses of 1.5" to 4"
- OSB and Plywood rabbeted on all sides for expansion of wood substrates
- UL Class A, FM Class 1
- Available with top substrates of 7/16" or 5/8" OSB, and 5/8" or 3/4" Plywood
- Available in 20 and 25 psi
- Not a structural panel