



# STRUCTURE<sup>®</sup>

HOME INSULATION SYSTEM<sup>™</sup>



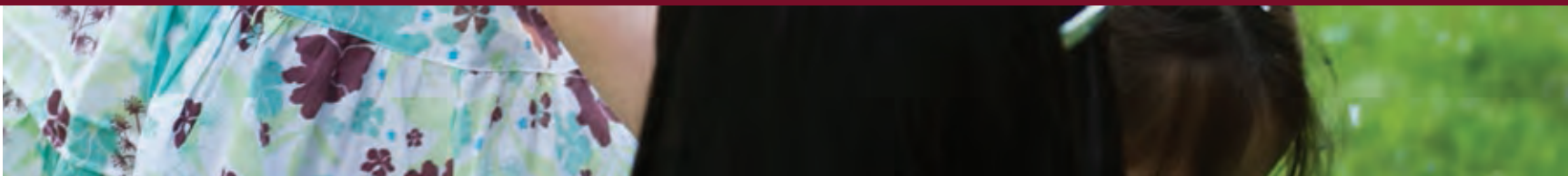
**MASTIC**  
HOME EXTERIORS<sup>®</sup>  
by PLY GEM

**THE PLY GEM PROMISE:** Mastic products are backed by Ply Gem — a 70-year leader in pioneering performance home exteriors, with a superior warranty for exactly the home you want for decades to come.





**STRUCTURE**<sup>®</sup>  
HOME INSULATION SYSTEM<sup>™</sup>







Structure® Home Insulation System™ Double 6" in Everest.  
Also Cedar Discovery® Double 7" in Everest.



**The solid look of wood.** The low maintenance of vinyl. The comfort of a thick layer of insulation. It's a combination that enhances curb appeal, lowers energy bills and adds value. It's a system that improves your quality of life.



## INSULATED



COMFORT is a thick layer of insulation surrounding your home. It's being warm in winter and cool in summer. It's keeping unwanted noise out. It's saving energy year-round.



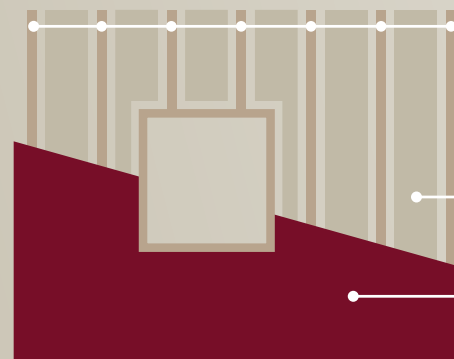


## A continuous blanket of insulation

Most homes have insulation between the studs in exterior walls. But heat can escape in winter (and enter your home in summer) through gaps and holes around windows, doors and across wall studs.

Structure® Home Insulation System™ not only covers exterior walls with a layer of continuous insulation, it also covers problem areas around windows, doors and corners with a range of insulated accessories.

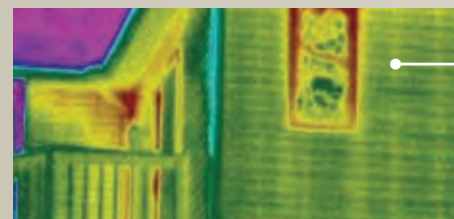
**STUDS IN YOUR WALL  
TRANSFER HEAT.  
COVERING THEM  
WITH INSULATION  
SAVES ENERGY.**



Studs create a thermal bridge for heat to escape in winter and enter your home in summer. Because studs can represent up to 25% of the wall surface, it's like having an entire wall without significant insulation.

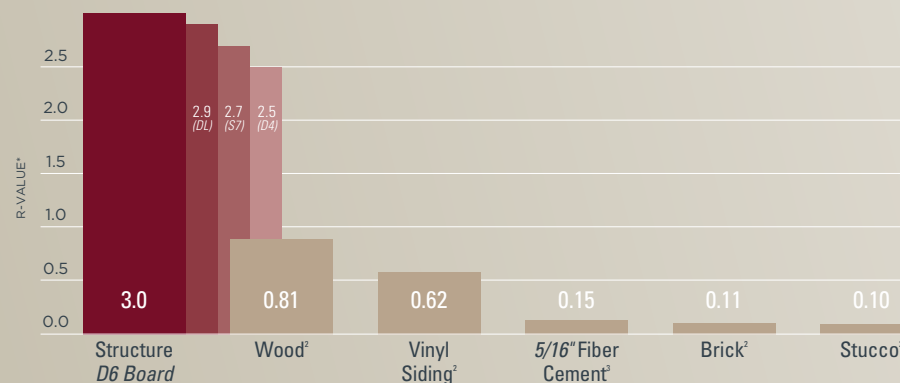
Insulation between the wood studs in an exterior wall.

**Structure® Home Insulation System™** covers the entire wall with a thick layer of insulation to prevent thermal bridging.



Thermal bridging through the studs and wall intersections is revealed with an infrared camera.<sup>1</sup>

**STRUCTURE® HOME  
INSULATION SYSTEM™  
HAS GREATER  
INSULATING POWER  
THAN OTHER  
CLADDING OPTIONS**



\*R-value means resistance to heat flow. The higher the R-value the greater the insulating power.

<sup>1</sup>Side-by-Side, All Siding Isn't Created Equal, Page 3, by Insulated Siding with Fullback Technology®, Progressive Foam.

<sup>2</sup><http://www.progressivefoam.com/replacing-vinyl-siding>

<sup>3</sup>[http://www.icc-es.org/reports/pdf\\_files/NES/NER405.pdf](http://www.icc-es.org/reports/pdf_files/NES/NER405.pdf)





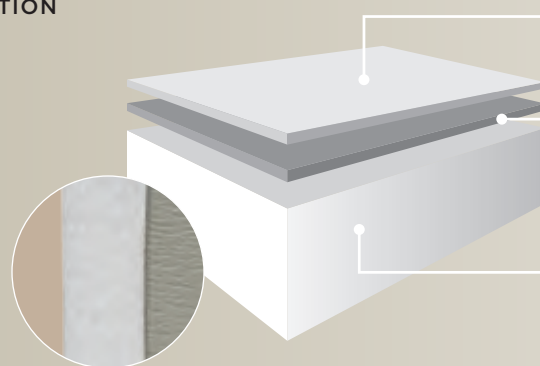
## Protects inside and out

The average family of four produces four to six gallons of water vapor each day. That water vapor must be allowed to escape to prevent moisture from accumulating and causing problems in your walls.

Like today's high performance clothing, Structure® Home Insulation System™ allows moisture generated by your daily activities to escape while protecting you from the elements.

# Insulated

## TRIPLE PROTECTION AGAINST THE ELEMENTS

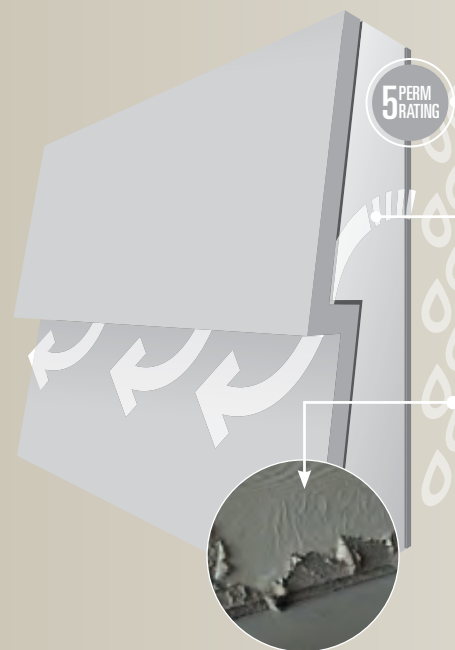


Formulated with **Duranyl 5000®** to resist fading and weathering. Even darker colors retain their rich hues.

Rigid substrate adds strength, maintains flatness and improves impact resistance.

Up to 1-1/4" of insulation boosts R-value of exterior walls and helps save energy year-round.

## BREATHABLE INSULATION FOR A HEALTHIER HOME



5 PERM  
RATING

The EPS foam backing has a Permeability Rating of 5.

EPS foam is a breathable material that allows water vapor to escape so it doesn't accumulate and cause problems in your walls.

Helps prevent mold and mildew growth caused by moisture buildup under the siding. Moisture damage is mostly hidden behind the cladding, but this example of fiber cement shows visible deterioration on the surface.





## BEAUTIFUL



BEAUTY is in the look and feel of solid wood. It's an authentic cedar grain with a low-maintenance finish. It's wide panels with dramatic shadow lines. It's the best-looking house on the block.







### **Solid curb appeal**

When you combine rigid foam insulation and vinyl siding, you get a solid panel that looks and feels like traditional wood siding. The panels are broader than ordinary vinyl siding and they maintain their shape under pressure. The foam backing also tightens the seams between the panels for attractive, straight lines and added curb appeal.

**WIDE RANGE OF COLORS  
FROM LIGHTER SHADES  
AND EARTH-TONES TO  
DARKER HUES**

**LAYS FLAT OVER  
IMPERFECTIONS IN  
WALL SURFACES FOR  
A STRAIGHT, UNIFORM  
APPEARANCE**

**COORDINATES WITH A  
VARIETY OF COLORS,  
TEXTURES AND  
MATERIALS**

**AVAILABLE IN LONGER  
16' 8" LENGTHS FOR  
A NEARLY SEAMLESS  
INSTALLATION**

# Beautiful





# Beautiful

Choose from  
a broad color  
palette.

To see how different  
colors might look on  
your home, try our  
visualizer options at  
[mastic.com/getstarted](http://mastic.com/getstarted).

## Color key

- S7** SINGLE 7"
- S7<sup>L</sup>** SINGLE 7"  
LONG LENGTH
- D6** DOUBLE 6"
- D6<sup>L</sup>** DOUBLE 6"  
LONG LENGTH
- DL** DOUBLE 4-1/2"  
DUTCH LAP
- DL<sup>L</sup>** DOUBLE 4-1/2"  
DUTCH LAP  
LONG LENGTH
- D4** DOUBLE 4"
- ALL** ALL PANELS  
AND LENGTHS

Due to printing limitations, colors  
may not be exactly as shown. Refer  
to actual sample and color chips for  
best match.

## DEEP COLORS >

RUSSET RED **PREMIUM**

**D6** **D6<sup>L</sup>**

RUGGED CANYON **PREMIUM**

**D6** **D6<sup>L</sup>** **S7** **S7<sup>L</sup>** **DL**

DEEP GRANITE **PREMIUM**

**D6** **D6<sup>L</sup>**

ENGLISH WEDGEWOOD **PREMIUM**

**D6** **S7** **DL**

QUIET WILLOW **PREMIUM**

**D6** **D6<sup>L</sup>** **S7** **S7<sup>L</sup>** **DL**

MONTANA SUEDE **PREMIUM**

**D6** **D6<sup>L</sup>** **S7** **S7<sup>L</sup>** **DL**

MISTY SHADOW **PREMIUM**

**NEW**

**D6** **D6<sup>L</sup>**

VINEYARD GROVE **PREMIUM**

**NEW**

**D6** **D6<sup>L</sup>**

AUTUMN HARVEST **PREMIUM**

**NEW**

**D6** **D6<sup>L</sup>**

## CLASSIC COLORS >

CORN SILK

**NEW**

**D6** **D6<sup>L</sup>**

HARBOR GREY

**ALL**

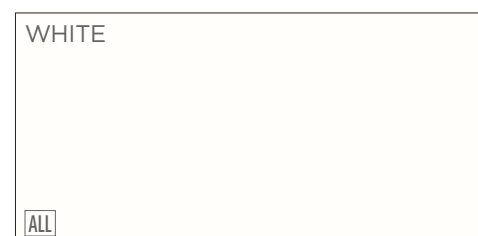
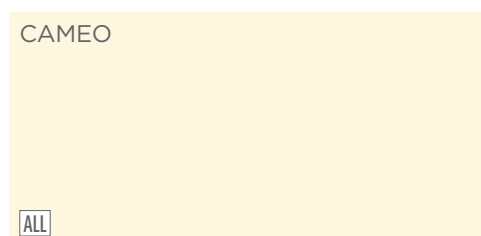
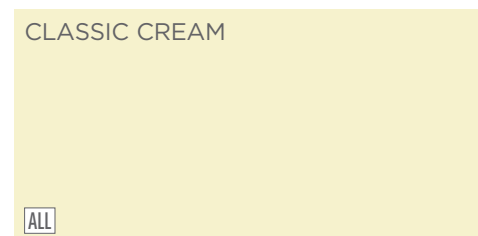
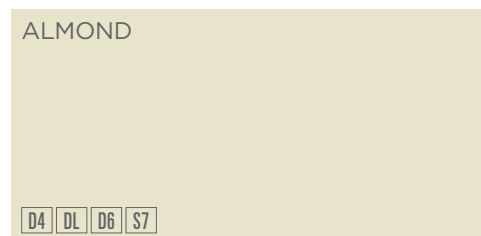
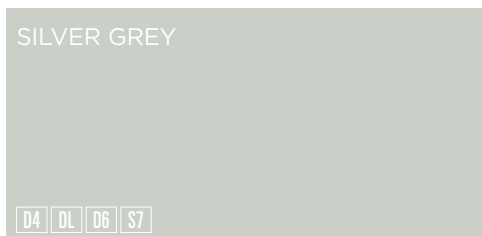
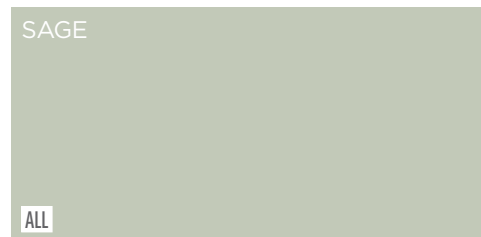
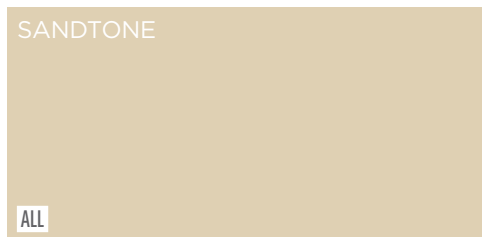
EVEREST

**ALL**





#### LIGHT COLORS >



**Explore the possibilities.**  
With our visualizer tool, you can apply different combinations of colors and products to see how they look. Bring your vision to life at [mastic.com/getstarted](http://mastic.com/getstarted).



## STRONG



STRENGTH is hanging tough in high winds. It's not warping in extreme heat or cracking in freezing temperatures. It's absorbing hits from hail and foul balls. It's lasting beauty.





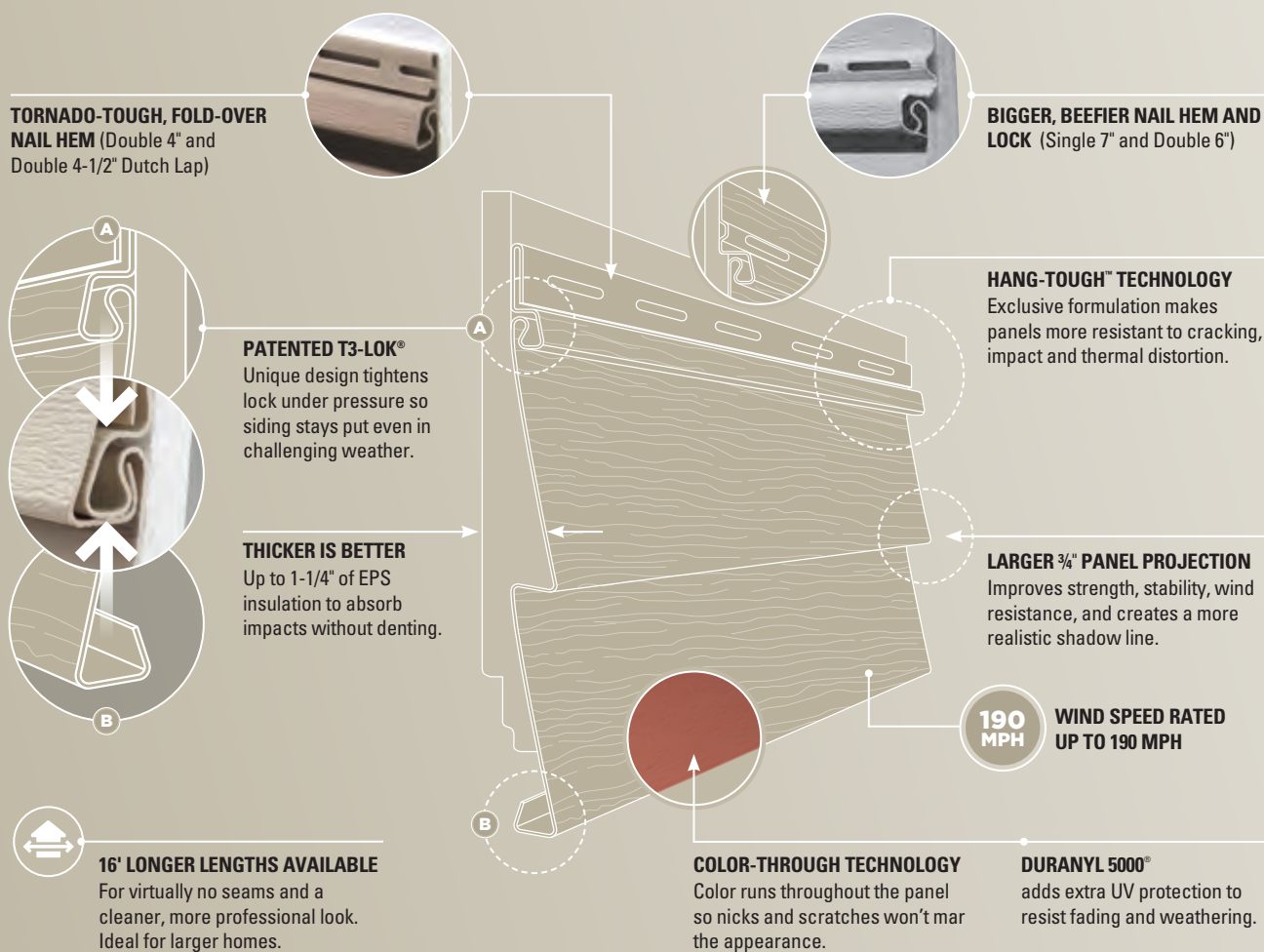


## Up to 300% more impact resistance

The EPS foam bonded to our panel acts as a shock absorber to provide up to 300% more impact resistance than standard vinyl siding. In testing, Structure® Home Insulation System™ withstood hammer blows that damaged lesser siding products.

# Strong

**STRUCTURE® HOME INSULATION SYSTEM™ PROVIDES GREATER STRUCTURAL INTEGRITY.** The foam backing, double nail hem and secure locking system create stronger, more rigid panels with tighter seams.



## SUSTAINABLE



SUSTAINABILITY is using less energy to heat and cool your home. It's using recycled materials to conserve resources. It's protecting your home without polluting the environment.



This 2,300-square-foot smart home received Florida's first Gold-Level Leadership in Energy and Environmental Design (LEED) home certification using Structure® Home Insulation System™.







## A greener choice for your home

Structure® Home Insulation System™ can help you meet your sustainable building goals. It's engineered to last a lifetime. It never needs painting or staining (unlike fiber cement, which requires repainting over time). And its thick layer of insulation boosts the R-value of your exterior walls, reducing energy consumption and helping to shrink your carbon footprint.



## MADE FROM ABUNDANT NATURAL RESOURCES

The vinyl in our panels is derived from two natural resources: salt (57%) and natural gas (43%). Additives such as stabilizers and antioxidants increase durability and enhance performance.

## CONTRIBUTES TO GREEN BUILDING CERTIFICATION

Structure® Home Insulation System™ can help you earn LEED® and NAHB Green Building Certification. For details, refer to the *Building to Make a Difference* white paper available at [mastic.com](http://mastic.com).

# Sustainable



## ENVIRO SNAP SHOT:

LEED For Homes — Possible Points

1 – 37

LEED New Construction — Possible Points

3 – 12

NAHB Standards — Possible Points

61 – 192

## WORRY-FREE



PEACE OF MIND is lasting beauty. It's the end of costly painting and repairs. It's a trusted brand that stands behind its products. It's knowing you made the right choice.







**There's no better choice for your home.**

When you combine lasting beauty with a lifetime of low maintenance and greater comfort, it's hard to beat. Add up the savings on painting, repairs and monthly energy bills and Structure® Home Insulation System™ looks even better. To learn more, ask your Mastic contractor for color samples and product specifications.

# Worry-Free

## LIFETIME WARRANTY

Structure® Home Insulation System™ is backed by our VIP Limited Lifetime Warranty, which covers against manufacturing defects, excessive fading and hail damage for as long as you own your home. To protect your investment, the warranty is transferable in the event you sell your home. (See warranty for details.)



## THIRD-PARTY TESTED FOR QUALITY

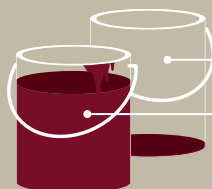
In addition to our own quality controls, Structure® Home Insulation System™ is tested and inspected by a third party for color retention, consistency, weatherability, impact strength and windload resistance (ASTM D6864, D3679).

*Consult the VSI website at [www.vinylsiding.org](http://www.vinylsiding.org) for a current list of certified products and colors.*



## NEVER NEEDS PAINTING OR STAINING

Unlike wood, stucco or fiber cement, Structure® Home Insulation System™ never needs painting or staining, which saves you time and money year after year.



## COMPARE MAINTENANCE COSTS

**Structure: \$5** (just soap and water)

**Other cladding options: up to \$5,000**  
(Based on typical prep, caulking and repainting of the average home)



DL




DOUBLE 4.5"  
DUTCH LAP  
R-VALUE: 2.9



# DL

Unlike standard lap siding, which has flat panels that overlap each other at an angle, Dutch Lap has a decorative groove between the laps. This groove improves strength, adds depth and creates wider shadow lines. It's a popular choice for Colonial and Victorian-style homes, as well as hipped-roof styles such as Prairie. Each Double 4.5" DL panel includes two four-and-a-half-inch-wide laps per panel.

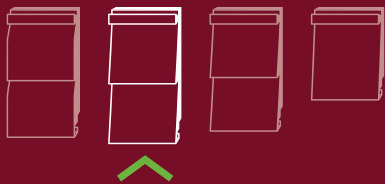
Dutch Lap is also available in longer 16' panels for nearly seamless installation. This  icon indicates colors available in the long length panel.



Structure® Home Insulation System® Double 4.5" Dutch Lap in Linen

|  |   |
|--|---|
| RUGGED CANYON <small>PREMIUM</small>     |   |
| ENGLISH WEDGEWOOD <small>PREMIUM</small> |   |
| QUIET WILLOW <small>PREMIUM</small>      |   |
| MONTANA SUEDE <small>PREMIUM</small>     |   |
| HARBOR GREY                              |    |
| EVEREST                                  |    |
| SCOTTISH THISTLE                         |    |
| PEBBLESTONE CLAY                         |    |
| VICTORIAN GREY                           |    |
| WICKER                                   |    |
| SANDTONE                                 |    |
| SAGE                                     |    |
| DESERT SAND                              |  |
| SILVER GREY                              |   |
| ALMOND                                   |   |
| CLASSIC CREAM                            |  |
| LINEN                                    |   |
| CAMEO                                    |  |
| WHITE                                    |  |

D6



DOUBLE 6"  
TRADITIONAL LAP  
R-VALUE: 3.0















# D6

The Double 6" style offers wider laps than the D4 and brings a classic look to almost any home. Each D6 panel includes two six-inch-wide laps on each panel.

Double 6" Traditional Lap is also available in longer 16' panels for nearly seamless installation. This  icon indicates colors available in the long length panel.



Structure® Home Insulation System® Double 6" in Everest

|  |   |
|--|---|
| RUSSET RED <small>PREMIUM</small>        |      |
| RUGGED CANYON <small>PREMIUM</small>     |    |
| DEEP GRANITE <small>PREMIUM</small>      |    |
| ENGLISH WEDGEWOOD <small>PREMIUM</small> |   |
| QUIET WILLOW <small>PREMIUM</small>      |    |
| MONTANA SUEDE <small>PREMIUM</small>     |    |
| MISTY SHADOW <small>PREMIUM</small>      |    |
| VINEYARD GROVE <small>PREMIUM</small>    |    |
| AUTUMN HARVEST <small>PREMIUM</small>    |    |
| CORN SILK                                |    |
| HARBOR GREY                              |    |
| EVEREST                                  |    |
| SCOTTISH THISTLE                         |    |
| PEBBLESTONE CLAY                         |    |
| VICTORIAN GREY                           |    |
| WICKER                                   |  |
| SANDTONE                                 |  |
| SAGE                                     |  |
| DESERT SAND                              |  |
| SILVER GREY                              |   |
| ALMOND                                   |   |
| CLASSIC CREAM                            |  |
| LINEN                                    |   |
| CAMEO                                    |  |
| WHITE                                    |  |



D4



DOUBLE 4"  
TRADITIONAL LAP  
R-VALUE: 2.5



# D4

The Double 4" style is modeled on traditional wood lap siding with panels that overlap one another. Each D4 panel includes two four-inch-wide laps on each panel. The narrower laps of the D4 panel can make a smaller home appear larger.



Structure® Home Insulation System™ Double 4" in Victorian Grey

HARBOR GREY

EVEREST

SCOTTISH THISTLE

PEBBLESTONE CLAY

VICTORIAN GREY

WICKER

SANDTONE

SAGE

DESERT SAND

SILVER GREY

ALMOND

CLASSIC CREAM

LINEN

CAMEO

WHITE

S7




SINGLE 7"  
TRADITIONAL LAP  
R-VALUE: 2.7



# S7

The Single 7" style is right at home on a traditional or contemporary house. It offers a classic lap board look with wide 7-inch panels. The foam backing supports the panel and gives it the solid look and feel of wood lap siding.

Single 7" Traditional Lap is also available in longer 16' panels for nearly seamless installation. This  icon indicates colors available in the long length panel.



Structure® Home Insulation System® Single 7" in Sage

|  |   |
|--|---|
| RUGGED CANYON <small>PREMIUM</small>     |      |
| ENGLISH WEDGEWOOD <small>PREMIUM</small> |   |
| QUIET WILLOW <small>PREMIUM</small>      |    |
| MONTANA SUEDE <small>PREMIUM</small>     |    |
| HARBOR GREY                              |    |
| EVEREST                                  |    |
| SCOTTISH THISTLE                         |    |
| PEBBLESTONE CLAY                         |    |
| VICTORIAN GREY                           |    |
| WICKER                                   |    |
| SANDTONE                                 |    |
| SAGE                                     |    |
| DESERT SAND                              |  |
| SILVER GREY                              |   |
| ALMOND                                   |   |
| CLASSIC CREAM                            |  |
| LINEN                                    |   |
| CAMEO                                    |  |
| WHITE                                    |  |



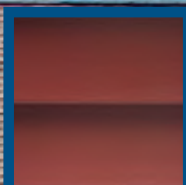


## **Complete exterior solutions**

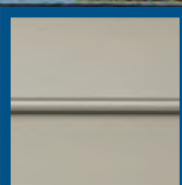
Whether you're remodeling or building a new home, count on Mastic Home Exteriors for a comprehensive range of top-quality products engineered to work together. Backed by an industry leader trusted for generations.



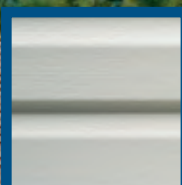




TRADITIONAL  
LAP SIDING



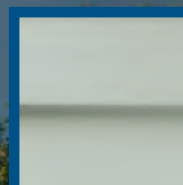
BEADED  
SIDING



DUTCH LAP  
SIDING



BOARD+BATTEN  
SIDING



INSULATED  
SIDING



PERFECTION  
SHINGLES



HAND-SPLIT  
SHAKES



HALF ROUND  
SHINGLES



STONE  
VENEER



ALUMINUM + VINYL  
SOFFIT



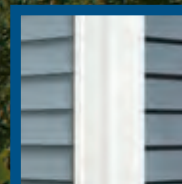
ALUMINUM & VINYL  
FASCIA



DECORATIVE  
MOLDING



MATCHING  
CORNER POSTS



DECORATIVE  
CORNER POSTS



ROOF + EAVE  
VENTILATION



DRIP EDGE



ALUMINUM  
COLUMNS



RAISED PANEL  
SHUTTERS



OPEN LOUVERED  
SHUTTERS



BOARD+BATTEN  
SHUTTERS



RAIN REMOVAL  
SYSTEMS



LEAF PROTECTION  
SYSTEMS



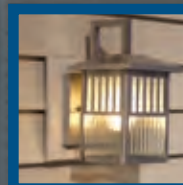
GABLE VENTS



TRIM SHEET +  
TRIM COIL



UTILITY  
VENTS



MOUNTING +  
ELECTRICAL BLOCKS



DOOR  
SURROUNDS



WINDOW  
MANTELS



ENTRY + GARAGE  
DOOR MANTELS

# The Exterior Solution™



## Finish your home with style and charm

Choose the distinctive detailing of lineals and corner posts to add a touch of elegance to your home's exterior... or for more flair, consider adding the traditional beauty of crown molding to your soffit. Each accessory is specifically designed for use with the Structure® Home Insulation System™ for a cleaner look and a uniquely detailed touch.

# Accessories

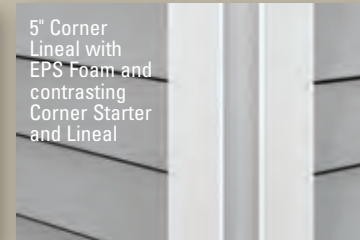
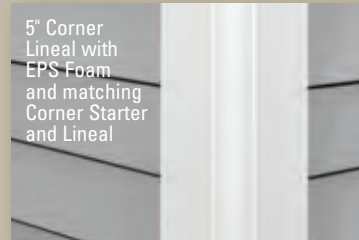
## CROWN MOLDING

The contoured shape of our crown molding adds an elegant, beautifully crafted transition from wall to soffit.



## OUTSIDE CORNERS

Wider 5" corners add drama and substance. Color options add character and distinctive style.



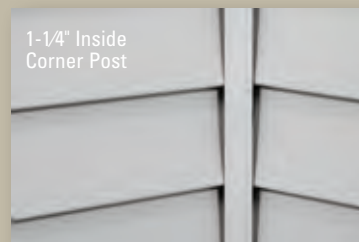
## WINDOW FINISH

Our wider lineals add authentic architectural detail around windows and doors, and at corners.



## INSIDE CORNERS

Bring your walls together with an architecturally correct concave inside corner.





## A HEALTHY RESPECT FOR THE PLANET — AND OUR CUSTOMERS.



Mastic Home Exteriors by Ply Gem can help you meet your sustainable building goals and earn points in leading green building certification programs. Our products offer features that positively contribute to sustainable practices, improved energy efficiency or lifecycle benefits of homes. All are important aspects of sustainable building and reflect Mastic's contribution to the Ply Gem Enviro initiative.



For more information on how Mastic products can help you meet your sustainable building goals, refer to the *Mastic Building to Make a Difference* white paper available at [mastic.com](http://mastic.com).



### SUSTAINABLE RESOURCES:

- Mastic vinyl siding is manufactured from two abundant natural resources: salt (57%) and natural gas (43%).<sup>1</sup>
- During the manufacturing process of our vinyl siding, all unused material is reclaimed and reused, creating one of the most efficiently-produced exterior claddings available today.
- When installed and used properly, Mastic products never require paint or stain, which reduces VOCs released into the atmosphere.
- Mastic Performance Metals® have been third-party verified and Green Circle certified to contain a minimum of 67% recycled content.
- Ply Gem facilities reuse and recycle pallets and packaging material, reducing raw material needs and landfill use.



### ENERGY EFFICIENCY:

- Vinyl siding requires less energy to manufacture per square foot than brick and mortar.<sup>2</sup>
- Mastic vinyl siding is lighter weight per square than other cladding options, so it requires less fuel to transport. Less fuel used means less pollution.
- When correctly installed, the Structure® Home Insulation System™ can reduce thermal bridging and help meet the requirements of an ENERGY STAR® Qualified new home. The Structure® Home Insulation System™ in a Double 6" profile has an R-value<sup>3</sup> of R-3.0 using the testing method ASTM C1363, as specified by the Federal Trade Commission.
- Mastic Performance Metals® V-Groove soffit and roof and eave vents support proper attic ventilation efforts, which moderates attic temperatures and improves a home's energy efficiency. Mastic V-Groove metal soffit provides the most net free ventilation per linear foot of any aluminum soffit system.



### LIFECYCLE BENEFITS:

- Mastic vinyl siding is durable and requires no site finish. Our Performance Metals® stand up to weather with virtually no maintenance. Our Designer Accents™ use thicker construction and a baked lacquer finish to ensure that they hold up season after season.
- When installed properly and under normal use, our products should never require painting or staining. They won't crack, peel, blister, or rot.
- All of our Performance Metals® aluminum accessories are easily recyclable. In fact, at the end of its lifecycle in building applications, 100% of the aluminum can be recycled.



### INSULATED VINYL SIDING ENVIRO SNAP SHOT:

LEED For Homes — Possible Points

1 - 37 61

LEED New Construction — Possible Points

3 - 12 26

NAHB Standards — Possible Points

61-192

<sup>1</sup>"A Dozen Things You Might Not Know That Make Vinyl Siding Green," page 9. Tad Radzinski, P.E., LEED AP, and VSI. October 10, 2009. <<http://www.vinylsiding.org/greenpaper/>>

<sup>2</sup>Ibid, page 10

<sup>3</sup>R-value means resistance to heat flow. The higher the R-value, the greater the insulating power.



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