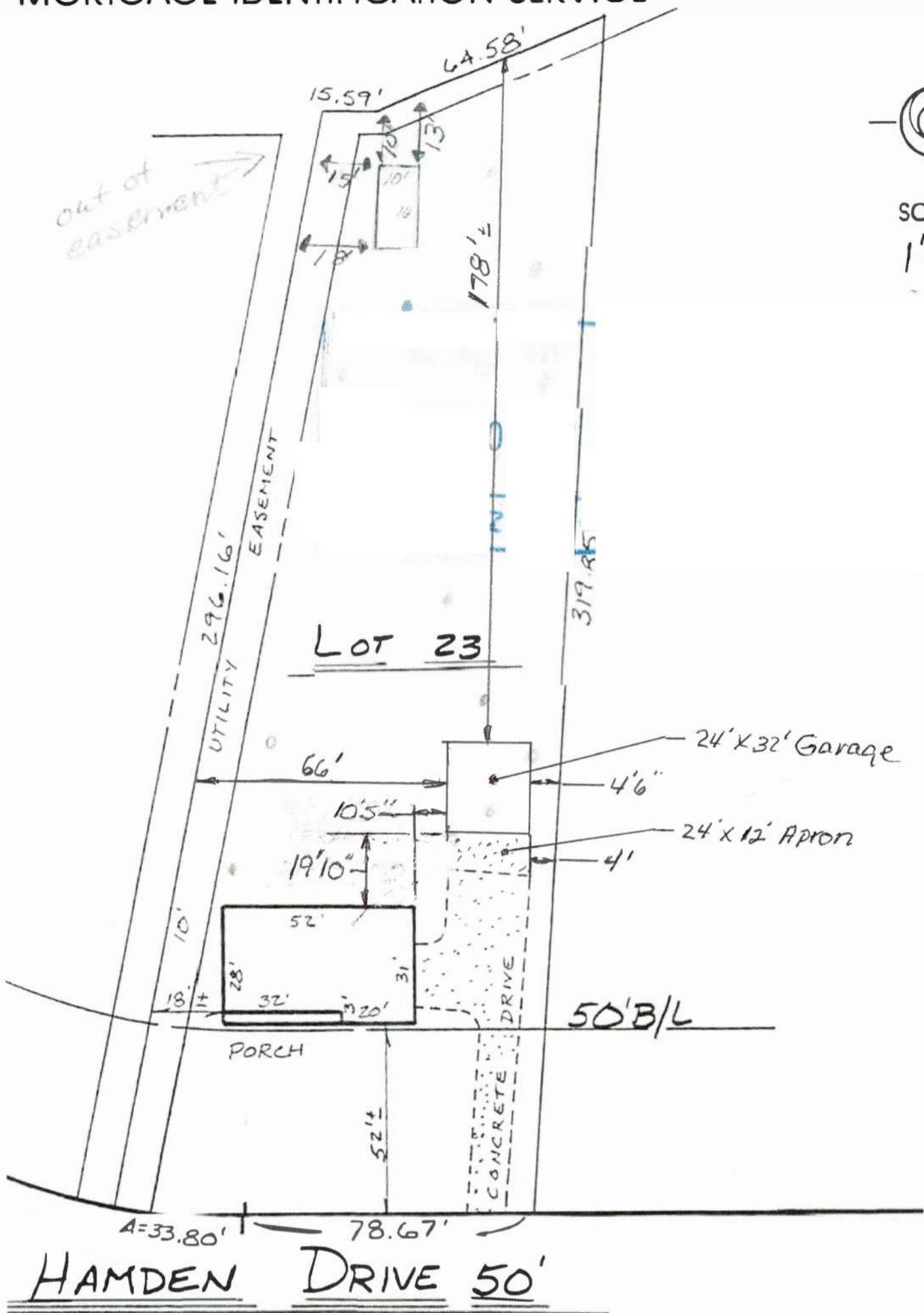
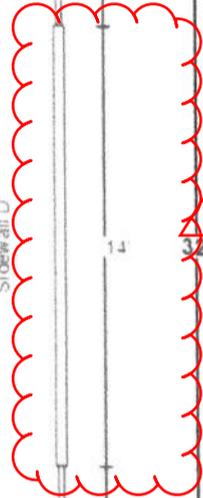
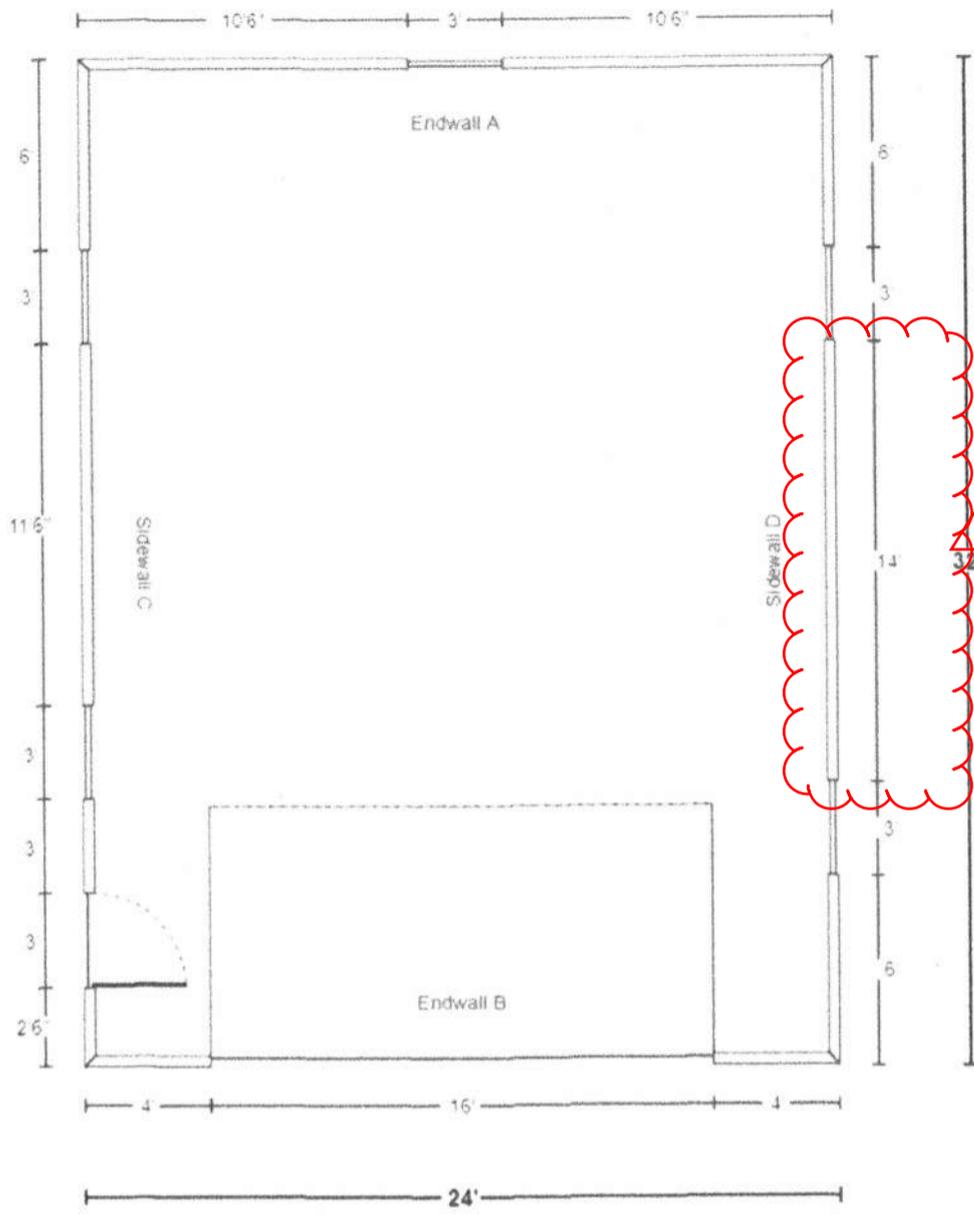


MORTGAGE IDENTIFICATION SERVICE

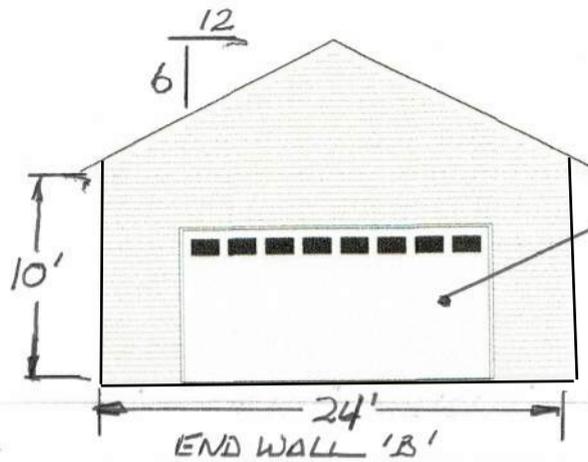


SCALE:
1" = 50'

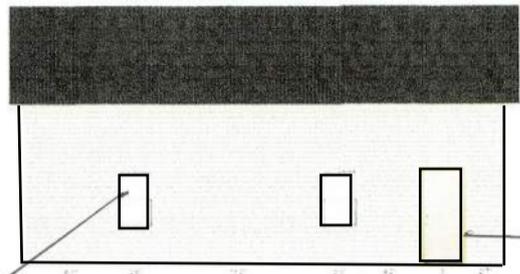
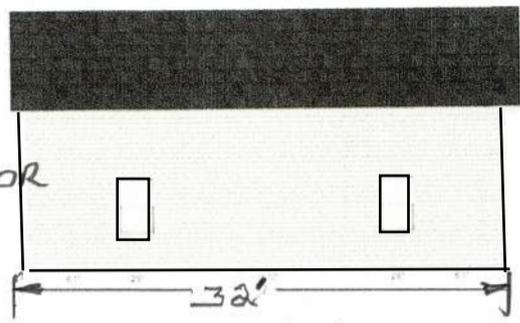




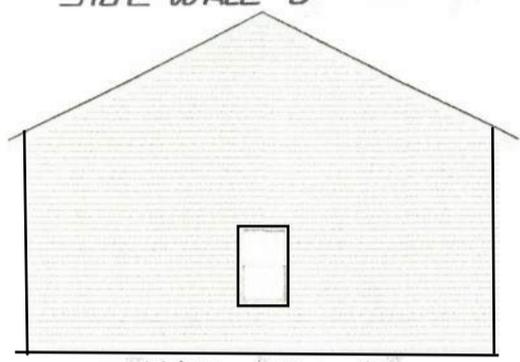
Need to add a window or re-space proposed windows



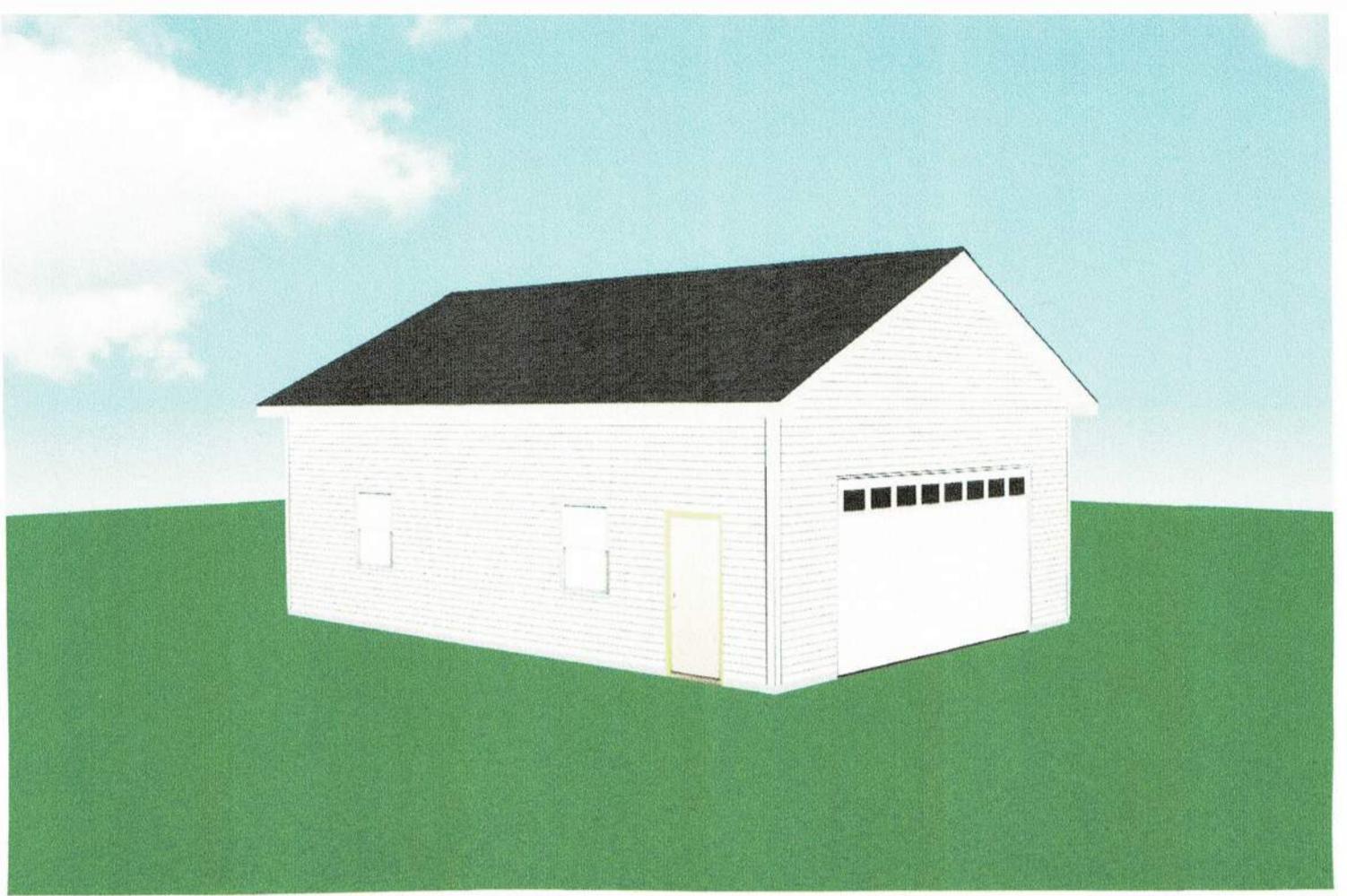
16' x 8' GARAGE DOOR



36" x 80" MAN DOOR



36" x 48" SINGLE HUNG WINDOW
5-PLACES



Similar Design Elements

What is matching home – Roof, siding, garage door, roof pitch

Will shutter around the windows be proposed to match home – No

Will windows have grids to match windows on home – Yes

Will siding match home – Yes

Foundation should match the home – Yes

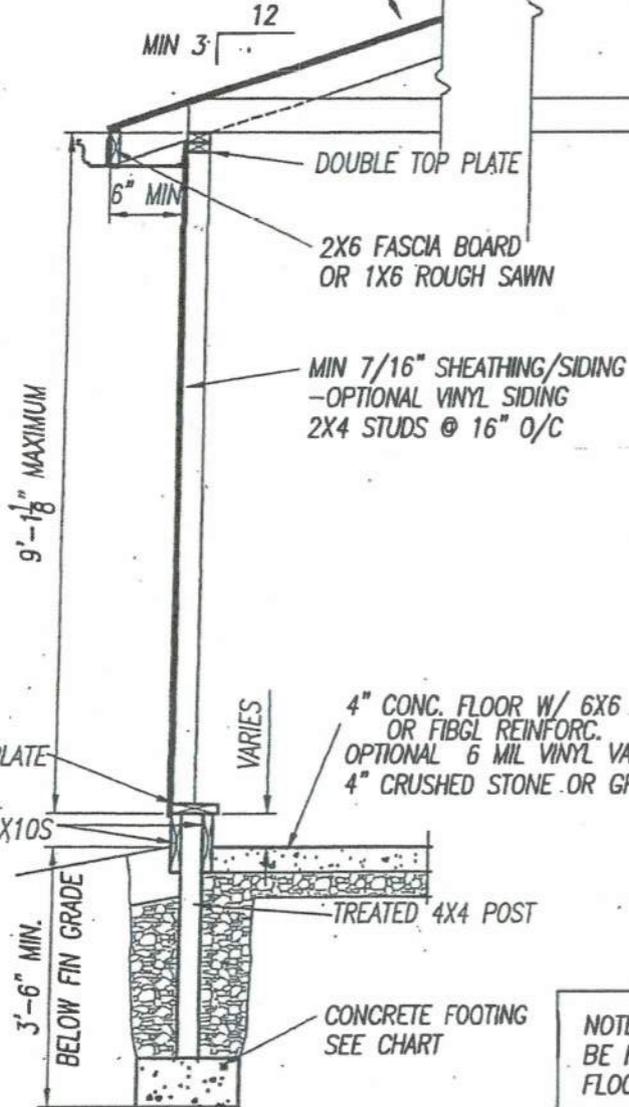
Roofing material must match homes roofing material – Yes

Will garage door match the garage door on the home - Yes

25 YR ASPHALT SHINGLES
 15# FELT PAPER
 7/16" OSB W/ "H" CLIPS
 2X6 RAFTERS @ 16" O/C
 2X6 CEILING JOIST @ 48" O/C
 HURRICANE CLIPS @ 32" O/C MAX.
 -SIMPSON H2.5A OR EQUAL

OPTIONAL RIDGE VENT
 BLOCKING BETWEEN RAFTER AND POST

2X4 KING POST @ 48" O/C

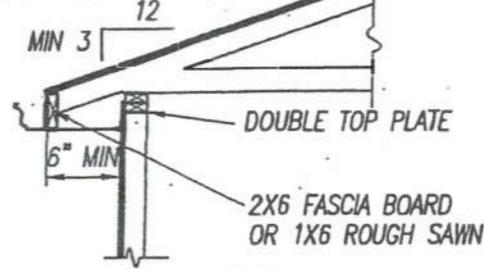


TYPICAL BEARING WALL SECTION

SCALE: 1/2"=1'-0"

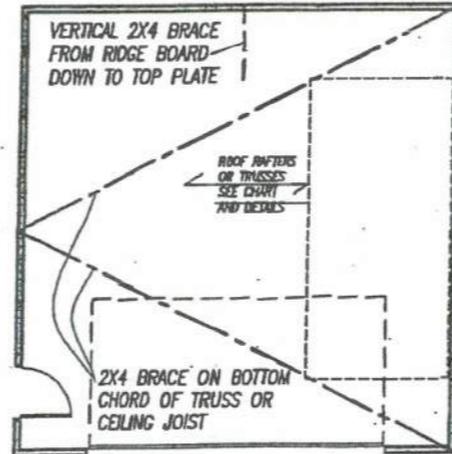
NAILING SCHEDULE - MINIMUMS		
RAFTER TO TOP PLATE	TOE NAIL	2-16d
RAFTER TO TIE OR CLG JOIST	FACE NAIL	3-10d
TIE OR CLG JOIST TO TOP PLATE	TOE NAIL	3-8d
2x10 HEADER TO POST	FACE NAIL	4-10d
2XB SOLE PLATE TO EA. HEADER	FACE NAIL	16d 2

25 YR ASPHALT SHINGLES
 15# FELT PAPER
 7/16" OSB W/ "H" CLIPS
 WOOD TRUSSES @ 24" O/C
 HURRICANE CLIPS @ EACH TRUSS
 -SIMPSON H2.5A OR EQUAL



OPTIONAL TRUSS ROOF DETAIL

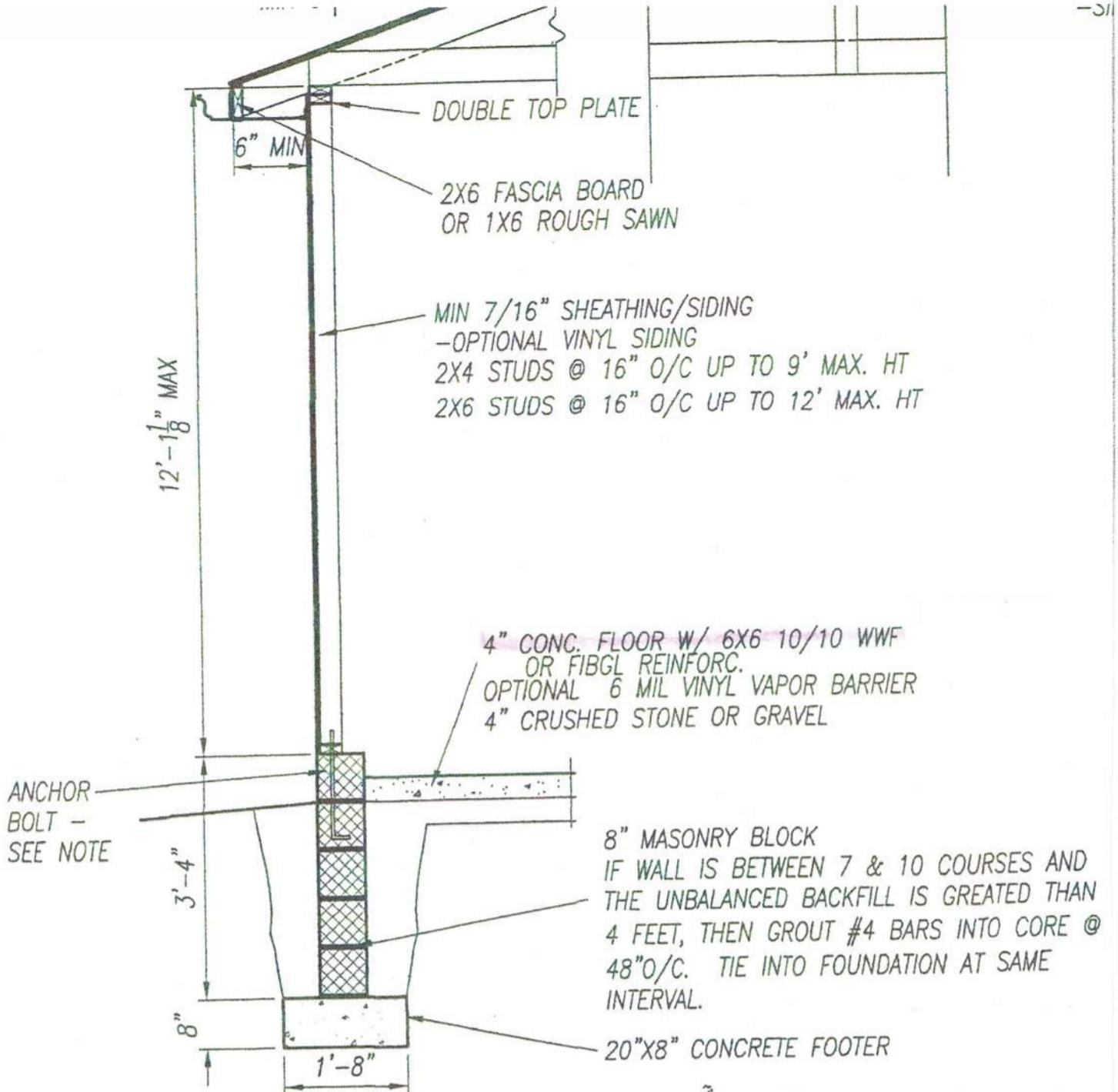
SCALE: 1/2"=1'-0"



ROOF BRACING PLAN

SCALE: 1/8"=1'-0"

NOTE: FINISH GRADE SHALL NOT BE MORE THAN 24" BELOW FINISH FLOOR FOR THIS FOUNDATION SYSTEM



TYPICAL BEARING WALL SECTION

SCALE: 1/2"=1'-0"

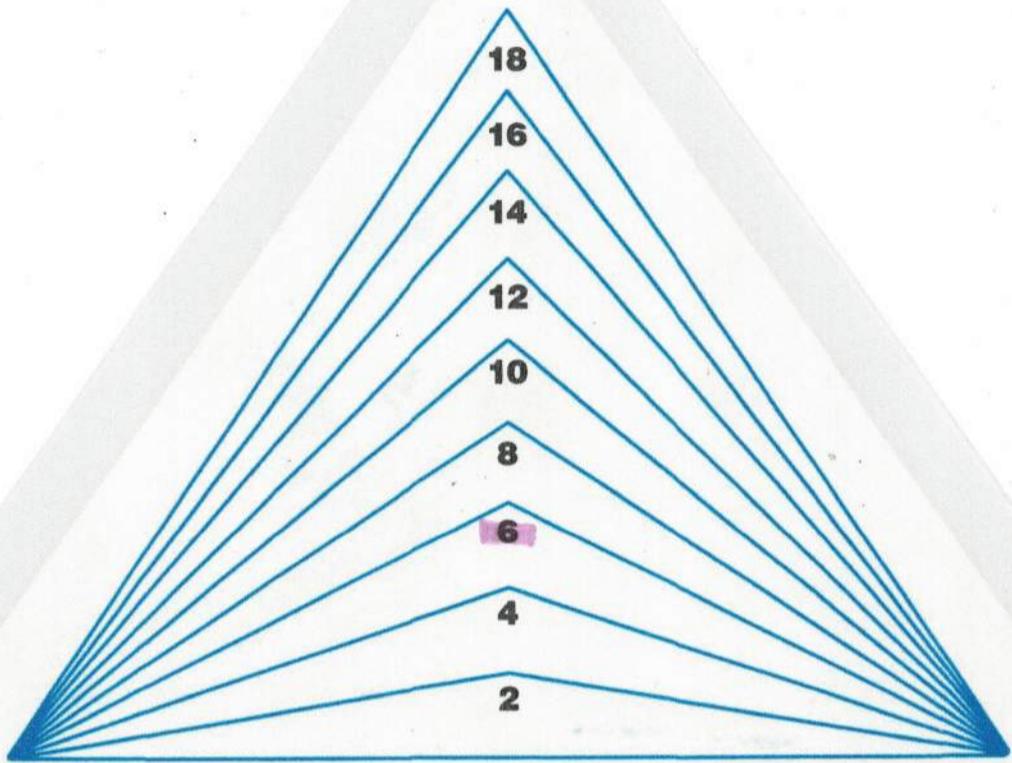












Roof Slope Card

ROOF SLOPE SIGHT

To determine the number of square feet of roofing required for job, follow these steps:

1. Determine ground area coverage of the entire roof (including overhangs) by multiplying length by width.
2. With this side facing you, hold up the card at arms length and align the slope calculator with the peak of the roof. Be sure to stand in line with the roof peak.
3. Determine the approximate slope (inches of rise/inches of run) by lining-up the sides of the slope calculator lines with the sloping edges of the roof.
4. Find this slope on the Roof Slope Chart and read the corresponding factor. Multiply this factor by the square footage determined in step one to determine the number of square feet of material required. This number includes consideration for waste (with the exception of hip and ridge).

ROOF SLOPE CHART

(Area Multiplication Factor)

Slope	Straight Roofs		Cut-Up Roofs	
	Gable Roof Factor	Hip Roof Factor	Gable Roof Factor	Hip Roof Factor
2/12	1.11	1.15	1.21	1.25
4/12	1.15	1.19	1.25	1.29
6/12	1.22	1.26	1.32	1.36
8/12	1.30	1.34	1.40	1.44
10/12	1.40	1.44	1.50	1.54
12/12	1.51	1.55	1.61	1.65



CertainTeed

JELD-WEN® 36"W x 48"H White Vinyl Single Hung Window with Grids & Nailing Flange Model Number: JW1438-01004 | Rough Opening Size: 36"W X 48"H

Description & Documents

JELD-WEN® vinyl windows are made to be durable, energy efficient, and low-maintenance. With features like a steel-reinforced frame and insulated glass, JELD-WEN® vinyl windows are suitable for any architectural style or design. Backed by a Lifetime Limited Warranty, they're just as reliable as they are attractive!

Features

- Vinyl construction allows for low maintenance
 - Steel-reinforced sash for long-lasting strength
 - Bottom sash tilts in for easy cleaning
 - Built-in nailing flange for complete installation and a tight seal
 - Low-E glass with Argon reduces energy costs, interior condensation, and protects against harmful UV
- ENERGY STAR® certified windows reduce energy bills by an average of 12% nationwide, compared to non-certified products
- Built-in Brickmould and J-Channel frame creates a clean, streamlined appearance for a traditional look while also saving a step in the installation process
 - Accidental glass breakage coverage included for all of life's unexpected events
 - Half Screen Included
- White Exterior/White Interior

Specifications

Mounting Method	With Nailing Flange (New Construction)
Collection	Best Series
Rough Opening Dimensions	36" W x 48" H
Frame Height	47-1/2 inches
Hardware Finish	White
Interior Color	White
Grid Pattern	Colonial Between-the-Panes-of-Glass
Special Features	Tilt Latch, Screen, Brickmould, Low-E
Solar Heat Gain Coefficient	0.46
Air Leakage (AL) Rating	0.1 CFM
Visible Light VT Rating	0.55
Shipping Dimensions	50.25 H x 38.25 W x 3.50 D
Return Policy	
Product Type	Single Hung Windows
Material	Vinyl
Frame Width	
Frame Depth	3-3/16 inches
Hardware Type	Cam-Lock and Self-Adjusting Balance
Exterior Color	White
Glazing Type	Double Pane
Energy Star Zones	Northern
Meets IRC for Egress	No
	0.3
Manufacturer Warranty	Lifetime Limited, Accidental Glass Breakage Warranty, Skilled Labor Coverage - 2 years labor

Model Number: 4140330 Exterior Door

Brand Name: **Mastercraft**

Right inswing

Constructed from 24-gauge steel that's primed white and ready to be finished with a 1-3/4" thick, energy-saving, insulating foam core

Prehung with a 4-9/16", primed, wood frame and high-performance weather stripping

Aluminum, no-rot sill with adjustable inswing and 3 satin nickel hinges

Prebored with a 2-3/8" backset for easy handle installation and double bored and prepped for deadbolt (handleset and deadbolt sold separately)

Nominal size of 30" W x 80" H with right inswing

ENERGY STAR® qualified

Description & Documents

Add beauty and quality to your entryway with this six panel door from Mastercraft® brand's Embossed Collection. The Embossed Collection features a wide variety of door styles, and this model's energy-saving core stands up to the most extreme temperatures. This door has a right inswing, which means the knob is on the right side when you pull the door toward you.

Specifications

Color/Finish	Primed	Deadbolt Bore	
Door Construction	Primed Steel	Door Style	6 Panel
Door Swing	Right	Door Thickness	1-3/4 inch
Frame Material	Primed Wood	Frame Width	4-9/16 inch
Glass Caming Finish	None	Hinge Finish	Satin Nickel
Includes	Hinges, Sill, Frame, Preassembled Door Slab, Brickmould	Lockset Bore	Yes
Lockset/Deadbolt Backset Dimension	2-3/8 inch	Manufacturer Warranty	Limited Lifetime
Nominal Door Height	80 inch	Nominal Door Width	30 inch
Obscurity Rating	10	Rough Opening Height	82 inch
Rough Opening Width	32-1/4 inch	Sill Finish	Aluminum
Sill Type	Adjusting	Solar Heat Gain Coefficient	0.01
U-Value	0.12	Air Leakage (AL) Rating	0.3
Energy Star Certified	Yes	Shipping Dimensions	84.88 H x 34.25W x 5.94 D
Shipping Weight	66.0 lbs	Return Policy	Regular Return View Return Policy

From The Manufacturer



America's Favorite Garage Doors®

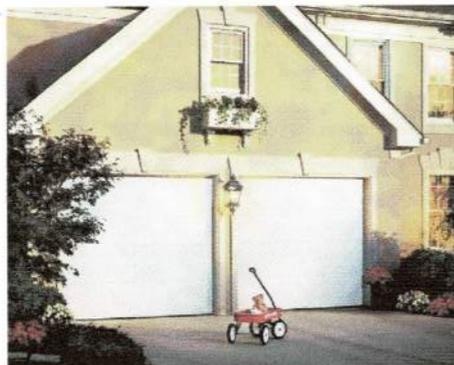
Premium Series

4050 4051 4053

UNSURPASSED BEAUTY INSIDE AND OUT

Your garage door can account for over 40% of your home's curb appeal. Shouldn't it be as beautiful as the rest of your home?

- Available in three beautifully detailed panel styles: short Elegant (Model 4050), Flush (Model 4051) and long Elegant (Model 4053) designs with a natural woodgrain door texture to complement your home's design.
- Available in six finished painted exterior colors or you can paint your door to match your home's trim.
- The door's flush steel interior has an attractive stucco texture and is finished painted white for a clean appearance. Steel end stiles are finished painted white to complement the door's interior.
- Galvanized torsion springs have shiny, polished appearance.
- Many beautiful window options are available to complement your home and to provide an upscale appeal. (see back cover)



Model 4051 Flush Panel Woodgrain Design

PANEL COLORS



PANEL STYLES



In the interest of better quality and value, we are continually improving and updating our products. Consequently, photos and illustrations may sometimes differ from present models.

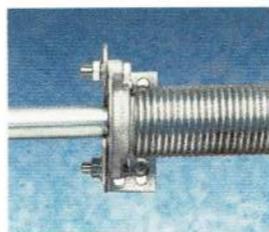
DURABLE CONSTRUCTION; RELIABLE OPERATION

- 1 3/8" thick expanded polystyrene insulation bonded to exterior and interior steel skins helps make these doors extremely strong while providing an R-value of 6.5 for energy efficiency and comfort.
- 2 Patented Safe-T-Bracket® cannot, under normal circumstances, be removed while door is under tension.
- 3 Aluminum bottom weatherseal retainer system is the highest quality rust-proof design to effectively seal out the elements.
- 4 Weather-tight tongue-and-groove joint helps seal out wind, rain and snow.
- 5 Galvanized steel hinges are durable, reliable and secure.
- 6 Top quality nylon rollers provide durability and quiet operation.



- 7 White finish painted galvanized end stiles for finished interior.
- 8 Step plates, inside and outside, make door easy and safe to close.
- 9 Four spring options available: Galvanized torsion, EZ-SET® torsion springs (galvanized), extension springs with containment cables, and EZ-SET® extension springs.
- 10 WINDCODE®: Doors available to meet all regional wind load requirements. Consult your local dealer for specific information.
- 11 Door sizes: Custom heights and widths available. Consult your local dealer for specific information.

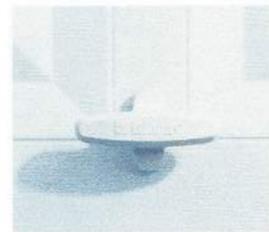
Illustration is for component location purposes only. Actual product has pilot holes on end stiles.



Galvanized Torsion Spring

Corrosion-resistant, long-lasting galvanized torsion springs offer up to a 50% longer cycle life than industry standard springs.

Due to some height and weight restrictions, not all product offerings include galvanized torsion spring.



Step Plate/Lift Handle

Color matched exterior step plate/grip handles are durable, attractive and allow for safe opening and closing of your door.



Unsurpassed Rust-Resistant Surface

Steel skins are protected through a tough, layered coating system, including a layer of hot-dipped galvanizing, a protective metal oxide pretreatment, and a baked-on primer and top coat.



America's Favorite Garage Doors®

Premium Series

4050
4051
4053

WINDOW OPTIONS

Designer Collection Windows

Wrought Iron, Studio and Leaded Series doors are constructed of durable acrylic. Brilliance® Series doors are available in single pane glass or double pane insulated glass.

Wrought Iron Series



Tuscany



Orleans

Studio™ Series



Art Deco I



Art Deco II



Art Deco I & II can be mixed and matched to create a custom look. See your Clopay Dealer for details.



Living Tree



Mission

Leaded Series



Brass Radiance



Brass Elegance



Brass Sun Burst (8", 9", 16", 17", 18" widths only)



Brilliance® Series



Solitaire



Marquise



Trillium



Tuscany



Orleans



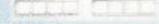
Art Deco I



Art Deco II



Living Tree



Mission



Brass Majesty



Solitaire



Marquise



Trillium

Classic Collection Windows

Decorative Insert options can add a whole new look to your garage door. Color-matched designs are available for single or double doors. You can choose from classic windows in single pane glass, acrylic, obscure glass, insulated glass or obscure insulated glass.



Cathedral 507



Charleston 508



Colonial 509



Prairie 510

Sunset 501 (8", 9", 12", 16", 17", 18" widths only)

Sunset 502 (7", 7 1/2", 12" widths only)

Sunset 503 (8", 9", 16", 17", 18" widths only)

Sunset 504 (14", 17", 18" widths only)

Sunset 505 (16", 17", 18" widths only)

Sunset 506 (17", 20" widths only)

Plain Window



Cathedral 607



Charleston 608



Colonial 609



Prairie 610



Sunset 601

Sunset 603 (see available in 12" & 14" widths)

Sunset 605

Plain Window

* Panel emboss may not align on long window with short panels. Some size limitations apply. See Dealer for details.

Visit our website at www.clopaydoor.com to Design Your Door online.

Ask your Clopay Pro-Series dealer about window warranties and see the window brochure and panel and window specification sheet for additional window details.

For more information on these and other Clopay products, call 1-800-2CLOPAY (1-800-225-6729). Visit our web site at www.clopaydoor.com for your nearest Clopay dealer.

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RSDR-4050-51-53-02_REV1007

Premium Series



America's Favorite Garage Doors®

3-Layer Construction: Steel + Insulation + Steel

1 3/8" Thick Insulated Steel Garage Doors



4050
4051
4053

Model 4050 Short Elegant Panel with Optional Colonial 509 Window Design

With a three-layer construction and three beautiful panel designs in six color options, the Models 4050, 4051, and 4053 Series doors are the right choice for your home's design. The Premium Series' three-layer construction provides exceptional strength, insulation, dent resistance and security, as well as uncommonly quiet operation and a beautiful appearance outside and inside. No other manufacturer offers more styles, colors and windows than Clopay.



Model 4053 Long Elegant Panel with Optional Sunset 601 Window Design

Beautiful. Durable. Reliable.



CLASSIC™ LINE

PRODUCT SPECIFICATION – OAKRIDGE® PRO 30™

Section 07311 Fiber glass-based Asphalt Shingles.

PART 1 – GENERAL

Related Sections

- A. Rough Carpentry Section 06100.
- B. Roof and Deck Insulation Section 07240 for insulation placed over roof decking.

Notes to Specifier:

1. Underlayment and shingles installed directly over roof insulation or similar type decks is not approved.
 2. Roof deck must be dry, minimum 25/32" thick, maximum 6" wide boards, or APA rated sheathing (exposure 1): minimum 3/8" plywood, minimum 7/16" oriented strand board or waferboard. Consult your Owens Corning representative for other approved constructions.
 3. Ventilation under roof deck must meet FHA Minimum Property Standards.
- C. Flashing and Sheet Metal: Section 07600. For snow guards, metal flashing and drip edges, including step-type flashing installed with shingles.
 - D. Roof Accessories: Section 07800.
Accessories.
 1. RAFT-R-MATE® UL® Listed
 2. Soffits
 3. VentSure® Ventilation Products
 4. Hip & Ridge Shingles
 5. WeatherLock®

References

Standards and Building Codes

- A. ASTM D 224 -Standard Specification for Smooth-Surfaced Asphalt Roll Roofing.
- B. ASTM D 226 – Standard Specification for Asphalt-Saturated Organic Felt used in Roofing and Waterproofing.
- C. ASTM D 3018 – Standard Specification for Class A Shingles Surfaced with Mineral Granules.
- D. ASTM D 3161 – Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
- E. ASTM D 3462 – Standard Specification for Asphalt Shingles Made from Glass felt and Surfaced with Mineral Granules.
- F. ASTM D 4586 – Standard Specification for Asphalt Roof Cement, Asbestos –Free.
- G. ASTM D 4869 – Standard Specification for Asphalt –Saturated Organic Felt Shingle Underlayment Used in roofing.
- H. ASTM D 6757 - Standard Specification for Inorganic Underlayment for Use with Steep Slope Roofing
- I. ASTM E 108 – Standard Test Methods for Fire Tests of Roof Coverings.

Quality Assurance

- A. Shingles shall carry Underwriter's Laboratories Labels:
 1. UL® 790, Class A Fire Resistance
 2. UL® 997, Wind Resistance
 3. ASTM D3462

B. Install shingles to meet requirements of published Owens Corning instructions.

Submittals

- A. Manufacturer color sample showing full range of colors available for specified products.
- B. Product literature and recommended installation procedures.
- C. Owens Corning Limited Warranty.*

Delivery, Storage, and Handling

- A. Deliver materials to site in manufacturer's unopened bundles with labels intact and legible.
- B. Handle and store materials on site to prevent damage. Store in a covered ventilated area at a maximum temperature of 110°F.
- C. Do not stack product more than 2 pallets high. If stacking 2 pallets high, use separator boards to protect the shingles below.
- D. Roof Top Loading: Lay shingle bundles flat. Do not bend over the ridge.

Project Conditions

- A. Proceed with installing shingles only when weather is appropriate for a quality installation.
- B. Do not install underlayment or shingles on wet surfaces.

Warranty

- A. Materials: Owens Corning 30-year Limited Warranty* terms and conditions apply.

PART 2 – PRODUCTS

Asphalt Shingles

Owens Corning Oakridge® PRO 30™ fiber glass-based asphalt shingles complying with ASTM specifications E 108 Class A or UL 790 Class A, D 3462, D 3161 or UL 997, D 3018 Type 1, ICBO ES ER 5443, ASTM D 228.

Oakridge® PRO 30™ Shingle Product Specification

Nominal Size:	13 1/4" x 38 3/4"
Exposure:	5 5/8"
Shingles per Square:	66
Bundles per Square:	3 bundles of 22 shingles
Coverage per Square:	99.9 sq. ft.

Ventilation

Owens Corning VentSure® Rigid Roll Ridge Vent with Weather PROtector™, VentSure Rigid Strip Ridge Vent, VentSure Roof vents, VentSure™ Gable vents, VentSure Undereave vents, VentSure Miniature vents, VentSure Foundation vents.

Waterproofing Underlayment

Owens Corning waterproofing underlayment "WeatherLock" self-adhesive waterproofing underlayment, fiber glass reinforced with SBS modified asphalt, UL Listed.

- 1. WeatherLock® Mat,
- 2. WeatherLock® G
- 3. WeatherLock® P

Asphalt Felt Underlayment

Non-perforated, [Type I, No. 15] [Type II, no. 30], asphalt saturated felt complying with ASTM D 226, ASTM D 4869 or ASTM D 6757.

Hip & Ridge Shingles

Owens Corning Hip and Ridge shingles of same background color as field of roof.

Hip & Ridge Product Specification

	Hip & Ridge	High Style® Hip & Ridge	High Ridge Hip & Ridge
Nominal Size:	12"x36"	16 1/2" x 8"	12"x12"
Exposure:	5"	7 3/4"	8"
Pieces per Carton:	81	48	32
Lineal Feet per Carton:	33.75 ft.	Approx. 30 ft.	21.3 ft.

Fasteners

All fasteners must be driven flush with the shingle surface and penetrate at least 3/4" into the wood deck. Where the deck is less than 3/4" thick, the fastener should be long enough to penetrate fully and extend at least 1/8" through the roof deck.

Owens Corning recommends the use of nails as the preferred method of attaching shingles to wood decking or other nailable substrates. If staples are used they must be, Corrosion resistant, zinc-coated, 16-gauge minimum with minimum 15/16" crown width. Staples must be long enough to penetrate at least 3/4" into solid decking, or extend a minimum of 1/8" through the APA-rated sheathing.

PART 3 - EXECUTION**Examination**

Prior to starting work, examine all roof decks on which work is to be applied for defects in materials and workmanship which may be detrimental to the proper installation or long-term performance of the shingles.

Installation

Installation shall be in accordance with the Guide to Installing Asphalt Roofing Shingles published by Owens Corning and your local building codes.

Product styles and colors change over time, for current selection of products and colors in your area, please contact your Owens Corning representative.

Owens Corning strives to accurately reproduce the images of shingles in this literature. However, due to manufacturing variances, the limitation of graphic reproduction and the variation in natural exterior lighting, actual shingle colors, and granule blends may vary from the images you see reproduced in this literature. For this reason, it is important to see an actual roofing sample or actual products installed on a home before making final color selection.

Available in the following plant service area: Brookville, Compton, Denver, Houston, Irving, Medina, Memphis North, Minneapolis, Portland, Summit.

* See actual warranty for complete details.

ECLIPSE™
VINYL SIDING



THE EXTERIOR SOLUTION FOR Color.



ECLIPSE™ PROFILE AND COLOR KEY

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

ALL COLORS AVAILABLE IN ALL PROFILES

CLASSIC COLORS

EVEREST

ALL

SCOTTISH THISTLE

NEW

ALL

PEBBLESTONE CLAY

ALL

LIGHT COLORS

VICTORIAN GREY

ALL

TUSCAN OLIVE

ALL

WICKER

ALL

SANDTONE

ALL

DESERT SAND

ALL

SILVER GREY

NEW

ALL

ALMOND

ALL

CLASSIC CREAM

ALL

CAMEO

ALL

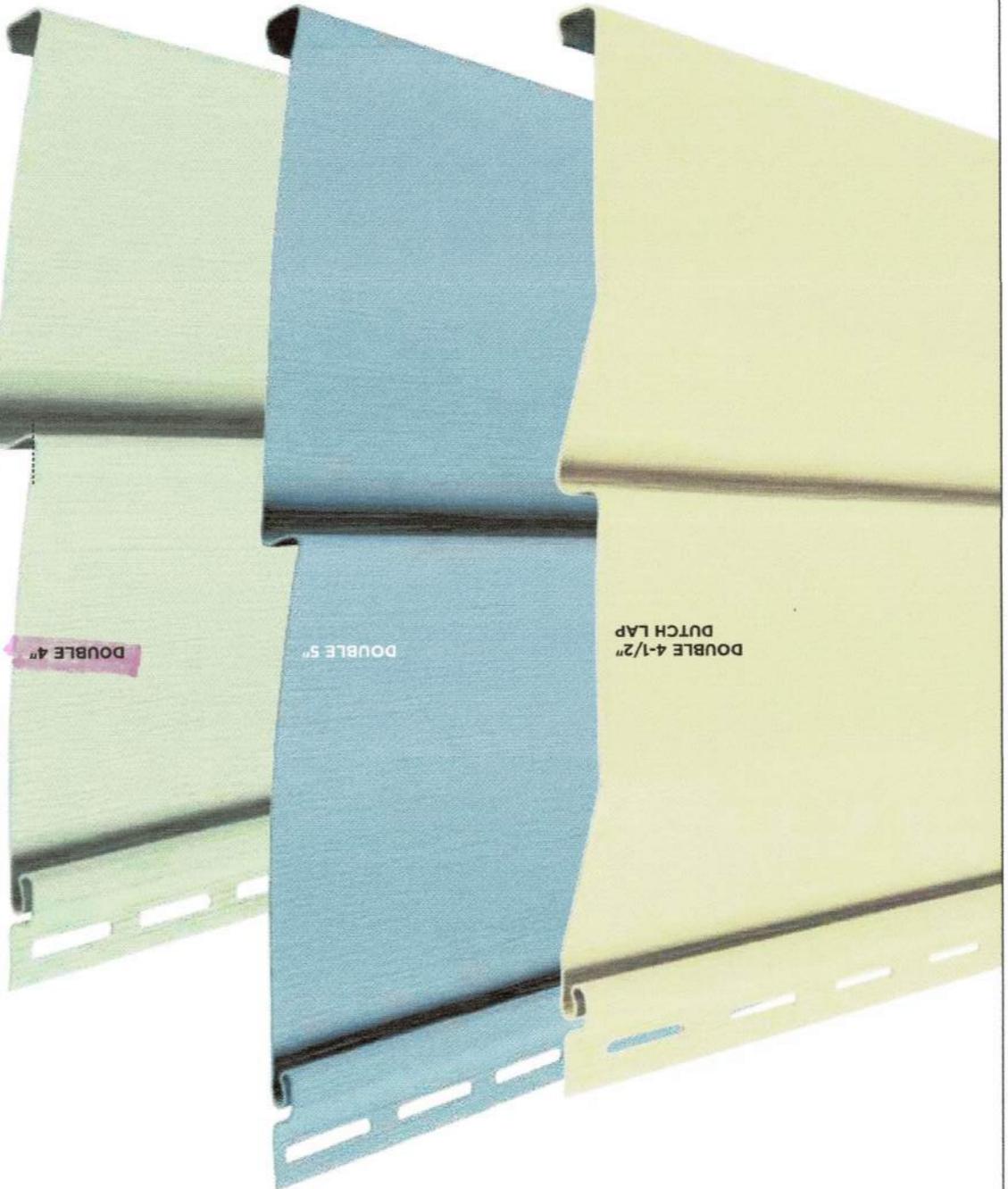
WHITE

ALL



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.





ADVANCED LOCKING SYSTEM AND NAIL HEM
 Precise, secure fastening, easier installation and tighter fit combine to deliver added strength and stability — even in high winds.



.040 THICKNESS
 .040 THICKNESS



165 WIND SPEED —
 WIND SPEED — RATED UP TO 165 MPH



HANG-TOUGH™ TECHNOLOGY
 Exclusive formulation and process boosts durability so panels are more resistant to cracking, impact and thermal distortion. As an added benefit, rich color resides throughout the panel — virtually eliminating the appearance of nicks and minor surface scratches.



CLASS 1(A) FIRE RATING



V.I.P. LIMITED LIFETIME WARRANTY
 Premium guarantee of lasting quality and peace of mind — backed by Mastic, a trusted industry leader for 50+ years (see warranty for complete details).



METRO-DADE COUNTY APPROVED



1/2" PANEL PROJECTION
 Enhanced shadow lines replicate the appearance of real wood siding.



SUSTAINABLE FORMULA FOR VINYL SIDING
 Crafted of readily available natural materials — Mastic vinyl siding is safe, sustainable and recyclable.



NO PAINT, NO HASSLES ... NO HARM DONE
 Since vinyl doesn't require paint or stain, harmful VOCs aren't released into the atmosphere.



Home Innovation
 NGBS GREEN CERTIFIED™



THIS PRODUCT HAS BEEN CERTIFIED BY HOME INNOVATION RESEARCH LABS. This means you can be assured that this product complies with specific green practice criteria in the National Green Building Standard (NGBS). Visit www.HomeInnovation.com/GreenProducts for more details.

RESOURCE EFFICIENCY

DESIGNED, ENGINEERED AND TESTED FOR long lasting beauty.



NO PAINT. NO STAIN. NO HASSLES.

Since vinyl doesn't require paint or stain, harmful VOCs aren't released into the atmosphere.

TYPICAL SAVINGS IN PAINTING COSTS OVER TIME



MASTIC SAVINGS ADD UP

Based on an average-size home, repainting or staining can cost up to \$6,000 every four years. Eclipse™ never needs painting, caulking or patching because, unlike wood, it won't crack, peel, rot or split.



HANG-TOUGH™ TECHNOLOGY

Exclusive formulation and process boosts durability so panels are more resistant to cracking, impact and thermal distortion. As an added benefit, rich color resides throughout the panel — virtually eliminating the appearance of nicks and minor surface scratches.



BREATHE EASY

Unlike some fiber cement products, vinyl siding does not produce harmful silica dust — silica dust can cause lung disease.



TIME-TESTED. CERTIFIED. AND MORE.

The Vinyl Siding Institute sponsors a certification program that assures the quality of vinyl siding by offering manufacturers the means to independently verify the quality of our products through third-party testing and inspection. Through this program Mastic vinyl siding products are certified to meet or exceed the industry-accepted performance standard set forth by ASTM D3679 and the color retention requirements of ASTM D6864 or D7251, so you can have confidence our products will perform well, season after season.



V.I.P. LIMITED LIFETIME WARRANTY

Premium guarantee of lasting quality and peace of mind — backed by Mastic, a trusted industry leader for 50+ years. See warranty for complete details.

*Consult the VSI website at www.vinylsiding.org for a current list of certified products and colors.

TEST OUR VINYL. WE DO. RIGOROUSLY. RELENTLESSLY.



OIL CAN TEST Siding panels are placed under heat strips and saturated to 120° — 140°F to make sure the siding doesn't warp or buckle.



WEATHERING Color retention (resistance to fading) is tested by subjecting Mastic products to real-time weather conditions and accelerated UV testing. This ensures that Mastic products will hold up in the most extreme environmental conditions.



RIGIDITY Panels are designed and engineered to be more rigid so the siding remains straight on the wall.



COLOR READ TEST Using a spherical spectrophotometer, a 10,000 watt xenon flash tube bounces light off a siding panel. This information is then analyzed to determine if the color falls within accepted ranges for color consistency and match.



VERTICAL HEIGHT IMPACT TEST Measures the product's durability and ability to resist impact forces — the result of proper thickness, formulation and impact modifiers.



GLOSS TEST A digital readout microgloss meter is used to scan siding to determine if its gloss falls within a target range. Gloss is important to the aesthetic appeal of the siding.

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.



SUSTAINABLE RESOURCES:

- Mastic vinyl siding is manufactured from two abundant natural resources: salt (57%) and natural gas (43%).¹
- 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.
- The Structure[®] Home Insulation System[™] has been third-party verified and Green Circle certified to contribute towards achieving LEED[®] and NAHB credits, utilizing post-consumer and post-industrial recycled material.
- 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.²
- 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-value³ 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.

¹ "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/>>

² Ibid, page 10

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



LIFECYCLE BENEFITS OF HOMES:

- 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.



VINYL SIDING ENVIRO SNAP SHOT:

LEED For Homes — Possible Points

0 61

LEED New Construction — Possible Points

2 26

NAHB Standards — Possible Points

9 - 36 42



Home Innovation
NGBS GREEN CERTIFIED™

RESOURCE EFFICIENCY

THIS PRODUCT HAS BEEN CERTIFIED BY HOME INNOVATION RESEARCH LABS. This means you can be assured that this product complies with specific green practice criteria in the National Green Building Standard (NGBS). Visit www.HomeInnovation.com/GreenProducts for more details.



Looking for Mastic products with features that can contribute to overall energy savings, lower maintenance and reduced environmental impact? These logos identify products recognized by third parties as supporting green building practices.



Member
NAHB
National Association
of Home Builders

Mastic supports green building and it shows. We are active members of both the USGBC and NAHB — two key organizations that are working to define sustainable building practices.