

7/29/2020

Town of Wellesley Cottage Street Historic District Commission

Public hearing, Tuesday, September 1, 2020

Members of the Cottage Street Historic District Commission

On May 8, 2020 Barry S. Freidman and Valorie Gates enlisted the services of Duane D Houghton LLC for proposed improvement projects at 57 Cottage Street in Wellesley Massachusetts. Duane D Houghton LLC is a 36CFR qualified firm.

After our meeting on May 8th and further design consulting thereafter, the following design and products are presented to the HDC for your review today.

Design Specifications

See plans dated 7/10/2020

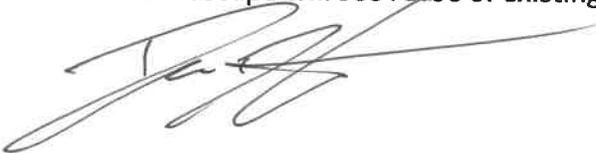
The proposal is to install a 19' x 36' three season porch to the rear of the existing structure as seen in the attached plans.

The new structure will mirror closely the front porch and rear existing addition in appearance with use of:

- Non-nominal lumber used in framing the exposed rafter tails to match existing historic fabric.
- Roofline and pitch to match existing rear addition.
- Windows to be Marvin Ultimate Wood Double Hung to mirror size and shape those at the front of the existing structure. *(See specs)*
- New door to match existing rear entry door.
- Siding to be Maibec Solid Stain Eastern White Cedar to match existing in material, color and exposure. *(See specs)*
- Roofing to be Certainteed Landmark Series 30yr. Architectural to match existing. *(See specs)*

Also slated for the project is the replacement of the garage door (Ca. 1980s) which is in disrepair, to Cloplay Classic Wood Series which is more suited for the era of construction of the garage structure. *(See specs)*

Landscape will see reuse of existing patio stones and plantings.





Duane D Houghton LLC
174 West Central St. Natick MA
houghtonduane@gmail.com
978-504-1142

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PLAN NO. _____ PARCEL ID: 113-19

STREET ADDRESS: 57 Cottage St. Wellesley MA 02482

Please print:

Property Owner: Barry S. Friedman

Property Owner: Valerie Gates

The undersigned, registered property owners of the above noted property, do hereby authorize

Duane D. Houghton, of Duane D. Houghton LLC

(Contractor / Agent) (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):

Telephone: 781-708-1629

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

DocuSigned by:
Doc Signed by:
Valerie Gates
Barry S. Friedman
150AD9E82449488...
Authorized Signature
Date: 8/3/2020

DocuSigned by:
Barry S Friedman
Barry S. Friedman
150AD9E82449488...
Authorized Signature
Date: 8/3/2020

Physical Characteristics Date: July 1, 2019

FY2020 Tax Rate for Wellesley, MA \$11.56

[Print This Page](#)

Assessment Valuation Date: January 1, 2019

Parcel Information:

Location: [57 Cottage St.](#)
 Parcel ID: 113-19--
 Class: 101 1-Family
 Type: Residential
 Lot Size: 12,107
 Census: 0
 Zoning: SR10-Single Residence
 Survey #: 0

Assessed Values

	2020 Market Value
Land	\$772,000
Building	\$192,000
Other	\$11,000
Total	\$975,000

Assessment History

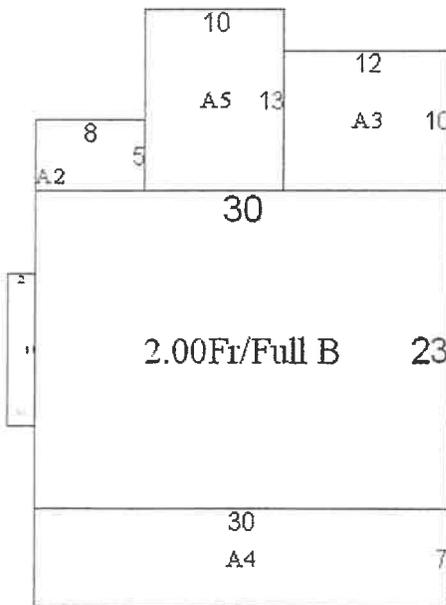
Year	Total Value
2020	\$975,000
2019	\$975,000
2018	\$953,000
2017	\$953,000
2016	\$936,000
2015	\$878,000
2014	\$761,000
2013	\$703,000
2012	\$703,000
2011	\$645,000
2010	\$680,000

Owner Information

Name: Friedman, Barry S &
 Gates, Valerie, Trustees
 Barry S Friedman 2007 Trust
 Address: 57 Cottage Street
 Wellesley, MA 02482

Notes: Historic District home business "Gates Studio"accl #8037

Building Information



Frame	Wood	Basement	Full
Style	Old Style	Heating	Central Air
Stories	2.00	Heat Sys	Hot Water
Ext Walls	Frame	Fuel Type	Gas
Rooms	6	Attic	None
Beds	3	Condition	Average
Full Bath	1	Grade	C+
Half Bath	1	Traffic	L5
Extra Fix		Fireplaces	
Rec Room	none		
Fin Bsmt	10 x30	Year Built	1930
Bsmt Gar	none	Year Remod	
Stacks	0	TLA	1,522

Area	Lower	First	Second	Third	Area
Main					690
A1		Frame Bay			22
A2		Encl. Frame Porch			40
A3	Bsmt Unfin	1s Frame			120
A4		Open Frame Porch			210
A5		Stone or Tile Patio			130

Other Improvements

Code	Type	Qty	Year	Length	Width	Grade	Condition	Adj
1	Garage - 1 story frame	1	1940	20	20	C	Average	1

front & back dormers;per 1998 listing"new Brk Pth;period details;superb 1990's renovations-ktchn,baths,AC,wiring updated, new walls & ceilings"

Notes:

Land Description

Topography	Utilities	Street	Paved	Landlocked	No	View	Average
Level	Public	Road	Public	Sidewalk	No	Landscaping	
				Gas	No		

Market

Type	Description	Zone	Nhbd	Area	Infl	Traffic
1	Primary Site	SR10-Single Residence	203	12107	1	L5

Sales Information

Date	Price	Vol	Page	Seller	Valid Code
2/24/2014	\$1	32084	485	Friedman, Barry S	F. convenience, correcting deeds
12/21/2007	\$1	25385	248	Serift, Valerie Gates &	F. convenience, correcting deeds
8/31/1998	\$459,000	12780	402	Kaczman, Daniel L	Valid
8/1/1992	\$220,000	9465	183		Valid

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Wellesley Historic Districts

Cottage Street Historic District

Section 08 52 00
Ultimate Wood Double Hung Collection

Part 1 General

1.1 Section Includes

- A. Ultimate Wood Double Hung, Single Hung, Transom, Picture window complete with hardware, glazing, weather strip, insect screen, grilles-between-the-glass, simulated divided lite, authentic divided lite, jamb extension, combination storm/screen, interior shade, and standard or specified anchors, trim, and attachments
- B. Ultimate Wood Double Hung, Single Hung Bay or Bow complete with hardware, glazing, weather strip, insect screen, grilles-between-the-glass, simulated divided lite, authentic divided lite, jamb extension, combination storm/screen, head/seat board, and standard or specified anchors, trim attachments, and accessories
- C. Ultimate Wood Double Hung Round Top window complete with hardware, glazing, weather strip, insect screen, simulated divided lite, grilles-between-the-glass, authentic divided lite, jamb extension, combination storm/screen, and standard or specified anchors, trim, and attachments

1.2 Related Sections

- A. Section 01 33 23 – Submittal Procedures, Shop Drawings, Product Data and Samples
- B. Section 01 62 00 – Product Options
- C. Section 01 65 00 – Product Delivery
- D. Section 01 66 00 – Storage and Handling Requirements
- E. Section 01 71 00 – Examination and Preparation
- F. Section 01 73 00 - Execution
- G. Section 01 74 00 – Cleaning and Waste Management
- H. Section 01 76 00 – Protecting Installed Construction
- I. Section 06 22 00 – Millwork: Wood trim other than furnished by window manufacturer
- J. Section 07 92 00 – Joint Sealant: Sill sealant and perimeter caulking
- K. Section 09 90 00 – Painting and Coasting: Paint and stain other than factory-applied finish

1.3 References

- A. American Society for Testing Materials (ASTM):
 - 1. E283: Standard Test method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors
 - 2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Door by Uniform Static Air Pressure Difference
 - 3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential
 - 4. E2190: Specification for Sealed Insulated Glass Units
 - 5. C1036: Standard Specification for Flat Glass
 - 6. E2068: Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
- B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration, Standard/Specification for window, doors and skylights
 - 2. AAMA/WDMA/CSA 101/I.S.2/A440-11,NAFS 2011 – North American Fenestration, Standard/Specification for windows, doors and skylights
- C. WDMA I.S.4: Industry Standard for Water Repellant Preservative Treatment for Millwork
- D. Window and Door Manufacturer's Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program
- E. Sealed Insulating Glass Manufacturer's Association/Insulating Glass Certification Council (SIGMA/IGCC)
- F. American Architectural Manufacturer's Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels
- G. National Fenestration rating Council (NFRC):
 - 1. 101: Procedure for Determining Fenestration Product thermal Properties
 - 2. 200: Procedure for Determining Solar Heat Grain Coefficients at Normal Incidence
- H. Window Covering Manufacturer's Association
 - 1. A100.1: Standard for safety of corded covering products

1.4 System Description

A. Design and Performance Requirements:

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height	
						in	mm	in	mm
Ultimate Wood Double Hung Window 3644	1.57	6	60	LC-PG40-H	40	41 3/8	(1051)	97	(2464)
Ultimate Wood Double Hung Window 3644 High Performance	1.57	8.25	60	LC-PG40-H	40	41 3/8	(1051)	97	(2464)
Ultimate Wood Ultimate Double Hung 4026	1.57	6	60	LC-PG40-H	40	45 3/8	(1153)	61	(1549)
Ultimate Wood Ultimate Double Hung 4036	1.57	6	45	LC-PG40-H	40	45 3/8	(1153)	81	(2057)
Ultimate Wood Double Hung Window 4036 High Performance	1.57	8.25	60	LC-PG40-H	40	45 3/8	(1153)	81	(2057)
Ultimate Wood Ultimate Double Hung 2830 High Performance	1.57	7.5	75	LC-PG50-H	50	33 3/8	(848)	69	(1753)
Ultimate Wood Ultimate Double Hung 3026 High Performance	1.57	7.5	75	LC-PG50-H	50	35 3/8	(899)	61	(1549)

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height	
						in	mm	in	mm
Ultimate Wood Double Hung Round Top 4036	1.57	4.5	45	LC-PG30-H	30	45 3/8	(1153)	81	(2057)
Ultimate Wood Double Hung Picture/Transom Round Top & Polygon	1.57	9	90	CW-PG60-FW	60	75	(1905)	90	(2286)

1.5 Submittals

- A. Shop Drawings: Submit shop drawings under provision of Section 01 33 23
- B. Product Data: Submit catalog data under provision of Section 01 33 23
- C. Samples:
 - 1. Submit corner section under provision of section 01 33 23
 - 2. Include glazing system, quality of construction and specified finish
- D. Quality Control Submittals: Certificates: submit manufacturer's certification indicating compliance with specified performance and design requirement under provision of section 01 33 23

1.6 Quality Assurance

- A. Requirements: consult local code for IBC [International Building Code] and IRC [International Residential Code] adoption year and pertinent revisions for information on:
 - 1. Egress, emergency escape and rescue requirements
 - 2. Basement window requirements
 - 3. Windows fall prevention and/or window opening control device requirements

1.7 Delivery

- A. Comply with provisions of Section 01 65 00
- B. Deliver in original packaging and protect from weather

1.8 Storage and Handling

- A. Prime and seal wood surfaces, including to be concealed by wall construction, if more than thirty (30) days will expire between delivery and installation
- B. Store window units in an upright position in a clean and dry storage area above ground to protect from weather under provision of Section 01 66 00

1.9 Warranty

Complete and current warranty information is available at marvin.com/warranty. The following summary is subject to the terms, condition, limitations and exclusions set forth in the Marvin Windows and Door Limited Warranty and Products in Coastal Environments Limited Warranty Supplement:

- A. Clear insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects from ten (10) years from the original date of purchase.
- B. Factory applied interior finish is warranted to be free from finish defects for a period of five (5) years from the original date of purchase.
- C. Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase.

Part 2 Products

2.1 Manufactured Units

- A. Description: Ultimate Wood Double Hung, Single Hung, Transom, Picture, as Manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- B. Description: Ultimate Wood Double Hung, Single Hung Round Top as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- C. Description: Wood Ultimate Double Hung Bow unit, (and related stationary units) as manufactured by Marvin Windows and Door, Warroad, Minnesota.
 - 1. Available in 3, 4, 5, and 6 wide assemblies
 - 2. 6 degree angle
 - 3. With and w/out head and seat board
- D. Description: Ultimate Wood Double Hung Bay Assemblies as manufactured by Marvin Window and Doors, Warroad, Minnesota.
 - 1. Available 30 degree, 45 degree, 60 degree, and 90 degree
 - 2. With and w/out head and seat board

2.2 Frame Description

- A. Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer
 - 1. Kiln-dried to moisture content no greater than 12 percent at the time of fabrication
 - 2. Water repellant, preservative treated in accordance with ANSI/WDMA I.S.4.
- B. Frame thickness: 11/16" (17mm) head and side jambs

- C. Frame depth: Frame depth had an overall 5 21/32" jamb (144mm). 4 9/16" (116mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction.
- D. Frame bevel: 8 degree bevel on sill and subsill
- E. Subsill: 1 3/32" (28mm)

2.3 Sash Description

- A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer
 - 1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication.
 - 2. Water repellent preservative treated with accordance with WDMA I.S.4.
- B. Sash thickness: 1 5/8" (41mm) for operable units, 1 5/8" (41mm) or 2" (51mm) for picture units
- C. Operable sash tilt to interior for cleaning or removal
- D. Sash Options: Unequal Sash
- E. Interior Sash Sticking
 - 1. Standard: Ovolo
 - 2. Optional: Interior Square sticking

2.4 Glazing

- A. Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.
- B. Glazing method: Insulating glass
- C. Glazing seal: Silicone glazed
- D. Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure, Laminated, Low E2 with or without Argon, Low E3 with or without Argon, Low E1 with or without Argon, Low E2/ERS Argon or air, Low E3/ERS Argon or air,
- E. Tri-pane glass(TG): Tripane Low E1 Argon, Tripane Low E2 Argon, Tripane Low E3 Argon, Tripane Low E1 Krypton/Argon, Tripane Low E2 Krypton/Argon, Tripane Low E3 Krypton/Argon
 - 1. This glass type is dependent on sash thickness and availability
 - 2. Consult ADM or OMS for availability

2.5 Finish

- A. Interior/Exterior: Treated bare wood
 - 1. Prime: factory-applied enamel primer. Available on Pine product only.
- B. Interior Finish options:
 - 1. Painted Interior Finish. Available on Pine product only.
 - 2. Factory-applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, and Vertical Grain Douglas Fir.
 - 3. Factory-applied water-borne urethane stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat applied in two separate coats, with light sanding between coats, applied over the stain. Available on Pine, Mahogany, and Vertical Grain Douglas Fir. Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, and Espresso.

2.6 Hardware

- A. Balance System: Coil spring block and tackle with nylon cord and fiber filled nylon clutch
- B. Jamb Carrier: Vinyl extrusion with wood inserts
 - 1. Color: beige
- C. Lock: High pressure zinc die-cast cam lock and keeper
 - 1. Finish: Phosphate coated and electrostatically painted Satin Taupe, Bronze, White, Brass, Satin Chrome, Satin Nickel, Antique Brass, Oil Rubbed Bronze
- D. Check rail guide
- E. Optional Window Operating Control Device

2.7 Weather Strip

- A. Operating units:
 - 1. Continuous, leaf weather strip at head jamb, parting stop, dual durometer bulb at check rail, foam bulb type dual durometer weather strip on vertical sash edge; dual durometer bulb weather strip at bottom rail
- B. Stationary units:
 - 1. Continuous, bulb weather strip at perimeter of sash, concealed slotted bulb weather strip on exterior of sash, pile strip on interior of blind stop, dual durometer bulb weather strip at bottom rail.

2.8 Jamb Extension

- A. Jamb extensions are available for various wall thickness factory-applied up to a 12" (305mm) wide
- B. Finish: Match interior frame finish

2.9 Heat/Seat Board (For use with Bow and Bay units)

- A. Factory-installed (head board) (seat board) for wall thickness indicated or required
- B. Finish: match interior finish

2.10 Insect Screen

- A. Factory-installed full or half screen. Half screen covers sash opening.
 - 1. Screen Mesh: Charcoal fiberglass, charcoal aluminum wire, black aluminum wire, bright aluminum wire, bright bronze wire, Hi-Tran fiberglass mesh
- B. Aluminum frame finish:
 - 1. Color: Stone White, Bahama Brown, Bronze, Pebble Gray, Evergreen, Sierra White, Coconut Cream, Cashmere, Cadet Gray, Ebony, Cascade Blue, Hampton Sage, Wineberry, Bright Silver (pearlescent), Copper (pearlescent)
- C. Optional Magnum Screen:
 - 1. Extruded aluminum surround with charcoal Hi-Tran fiberglass mesh

2.11 Wood Combination Storm Sash and Screen

- A. Frame: Finger-jointed Pine, Mahogany, Vertical Grain Douglas Fir
 - 1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication
 - 2. Water repellent preservative treated in accordance with WDMA I.S.4.
 - 3. Frame thickness: 1-1/16 inches (26 mm)
 - 4. Extruded aluminum track utilized to hold storm and screen panels
 - 5. Finish: Treated bare wood; Latex prime coat, white – available for Pine wood species only
- B. Hardware: Spring loaded latches to hold removable storm panel in position
- C. Weather strip: Pile weather strip seals between operating panels and against stiles of main frame
- D. Storm Panel: Select quality glass in aluminum frame

1. Frame finish: Bronze; Stone White
- E. Insect Screen Panel:
1. Extruded aluminum surround, screen mesh: Charcoal fiberglass; charcoal aluminum wire; black aluminum wire; bright aluminum wire; bright bronze wire, Hi-Tran fiberglass screen mesh
 2. Aluminum frame finish: Bronze; Stone White
- F. Wood Storm Sash: Select quality glass in clear Pine, Mahogany, and Vertical Grain Douglas Fir frame
1. Top Rail and stiles: 2-1/8 inches (54 mm) wide
 2. Bottom rail: 4-1/16 inches (103 mm) wide
 3. Sash thickness: 1-3/32 inches (28 mm)
 4. Finish: Latex prime coat, white – available for Pine wood species only

2.12 Interior Shade

- A. Cellular shade is attached to the window with a removable surround system that houses the cellular shade system
1. Minimum jamb depth required 5 13/16" (148mm)
 2. Shade cartridge is removable and replaceable
 3. Shade control: Top down, bottom up
- B. Wood wrapped extruded aluminum cellular shade
1. Single non-fire rated hexagonal honeycomb (cellular) 3/4" (19mm)
 2. Semi-opaque fabric (light filtering)
 - a. Colors: Driftwood, Marigold, Almond, Rose, Denim, Biscuit, Champagne, Moss, Cinnamon, Silver, White, Stone, Tan, Ivory, Eggshell
 3. Opaque fabric (blackout)
 - a. Colors: White, Stone, Tan, Ivory, Eggshell

2.13 Simulated Divided Lites (SDL)

- A. 5/8" (16mm) wide, 7/8" (22mm) wide, 1 1/8" (29mm), 1 3/4" (44mm), 2 13/32" (61mm) wide with or w/out internal spacer bar
- B. Muntins: Pine, Mahogany, or Vertical Grain Douglas Fir

- C. Muntins adhere to glass with closed-cell copolymer acrylic foam tape
- D. Sticking:
 - 1. Standard: Ovolo
 - 2. Optional: Interior Square sticking
- E. Pattern: Rectangular, diamond, custom lite cut
- F. Finish: Match panel finish

2.14 Grilles-Between-the-Glass (GBG)

- A. 23/32" (18mm) contoured aluminum bar.
 - 1. Exterior Colors: Stone White. The exterior GBG color is designed to best match the Marvin aluminum clad color when used with LoE glass. The use of different types of glazing may alter the exterior GBG color appearance.
 - 2. Standard Interior Color: Stone White
 - 3. Optional Interior Colors: Bronze, Pebble Gray, Sierra, White, Ebony (only available with Ebony exterior)
- B. Optional flat aluminum spacer bar. Contact your Marvin representative.
- C. Pattern: Rectangular, Cottage, Custom lite layout

2.15 Authentic Divided Lites (ADL)

- A. 1 1/2" (38mm) insulating Pine, Mahogany, Vertical Grain Douglas Fir muntins or 7/8" (22mm) single glaze ADL with energy panel
 - 1. Pattern: Rectangular; Custom lite layout
 - 2. Finish: Match sash finish

2.16 Accessories and Trim

- A. Installation Accessories:
 - 1. Factory installed vinyl nailing/drip cap
 - 2. Installation brackets: 6 3/8" (162mm), 9 3/8" (283mm), 15 3/8" (390mm)
 - 3. Masonry brackets: 6" (152mm), 10" (254mm)
- B. Exterior Wood Moulding:

1. Profile: Brick Mould Casing, Flat Casing, Stucco Brick Mould, Stucco Flat Casing, Special Casing 3 (SPC3), Special Casing 7 (SPC7), Special Casing 21 (SPC21), Special Casing 18 (SPC18), Special Casing 26 (SPC26)
 2. Finish: Match exterior frame finish
- C. Cedar Dress:
1. Sill
 2. Subsill
 3. Blind stops and jamb covers
 4. Mull covers
 5. Brick Mould and Flat Casing
 6. Available on Pine frames
 7. Bare cedar

Part 3 Execution

3.1 Examination

- A. Verification of Condition: Before installation, verify openings are plumb, square and of proper dimensions as required in Section 01 71 00. Report frame defects or unsuitable conditions to the General contractor before proceeding.
- B. Acceptance of Condition: Beginning on installation confirms acceptance of existing conditions.

3.2 Installation

- A. Comply with Section 01 73 00.
- B. Assemble and install window/door unit(s) according to manufacturer's instruction and reviewed shop drawing.
- C. Install sealant and related backing materials at perimeter of unit or assembly in accordance with Section 07 92 00 Joint Sealants. Do not use expansive foam sealant.
- D. Install accessory items as required.
- E. Use finish nails to apply wood trim and mouldings.

3.3 Field Quality Control

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.

- B. Unless otherwise specified, air leakage resistance tests shall be conducted at a uniform static pressure of 75 Pa (~1.57 psf). The maximum allowable rate of air leakage shall not exceed 2.3 L/sm² (~0.45 cfm/ft²).
- C. Unless otherwise specified, water penetration resistance testing shall be conducted per AAMA 502 and ASTM E1105 at 2/3 of the fenestration products design pressure (DP) rating using "Procedure B" – cyclic static air pressure difference. Water penetration shall be defined in accordance with the test method(s) applied.

3.4 Cleaning

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.
- B. Leave windows and glass in a clean condition. Final cleaning as required in Section 01 74 00.

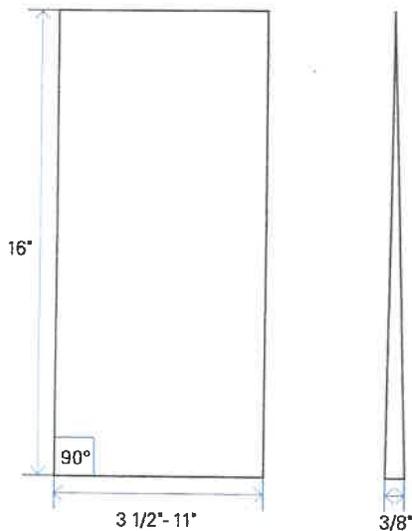
3.5 Protecting Installed Construction

- A. Comply with Section 07 76 00.
- B. Protecting windows from damage by chemicals, solvents, paint or other construction operations that may cause damage.

End of Section

Individual Shingles

RESQUARED AND REBUTTED. NATURAL (KILN DRIED) OR FACTORY-STAINED.



STAIN	GRADE	BUTT THICKNESS	WIDTH	NOMINAL LENGTH	INSTALLATION
Solid stain 2 coats	Nantucket™ Kennebunk™	3/8**	3 1/2"-11**	16**	Sidewall use
Semi-transparent Spice series	Nantucket™ Kennebunk™	3/8**	3 1/2"-11**	16**	Sidewall use

General Specifications

SPECIES:

- Eastern White Cedar – *Thuja occidentalis*

MANUFACTURING

- Stellite-tipped blades: minimize raised grain
- Kiln-dried to 12% - 16% moisture content

PACKAGING AND COVERAGE

- Each box covers around 25 sq. ft at 5" exposure.

AVAILABLE COLOURS

- Maibec solid stain colour chart
- Semi-transparent Spice series
- Unlimited choice of solid colours thanks to our TrueMatch® system

FACTORY-STAINING

- Every shingle is factory-coated on all sides in a controlled environment for maximum stain absorption and retention. This also provides increased protection from the damaging effects of the sun and the elements.
- Following the stain application, the shingles are sent through a state of the art drier for

curing. The product of European technology, this drier cures the stain from the inside out. The shingles are then cooled down and packaged. This unique system increases the durability of the product once installed.

- Low-volatile organic compounds (VOCs) water-based stains.

For exterior use only.

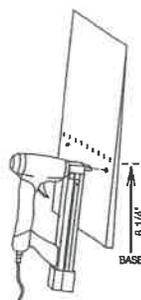
Individual Shingles

Installation

FASTENING REFERENCE LINE

Maibec shingles feature a fastening reference line found 6 1/4" from the base of the shingle. For the 5" required shingle exposure, fasten just below the reference line to respect the installation requirement.

See the Maibec Shingles installation guides to know all installation requirements.



Installation System

STAPLES

- Stainless steel or aluminum staple with minimum 7/16" crown, minimum 16 gauge
- Two fasteners per shingle, regardless of its width

NAILS

- Stainless steel or hot dipped galvanized
- Ring shank blunt tip nail with minimum 7/32" head
- Two fasteners per shingle, regardless of its width

How to Calculate

HOW TO CALCULATE THE AMOUNT OF SIDING NEEDED

Example – Area to cover: 1,000 ft²

For 5" exposure, add 3% to the area to cover

$$1,000 \text{ ft}^2 \times 1.03 = 1,030 \text{ ft}^2$$

$$1 \text{ box} = 25 \text{ ft}^2$$

$$1,030 \text{ ft}^2 = 41 \text{ boxes}$$

WARRANTY* – SHINGLES SOLID STAIN

50 **15**
YEARS YEARS
against wood decay on solid stain 2 coats

5 YEARS
on labour

WARRANTY* – SHINGLES "SPICE" SERIES

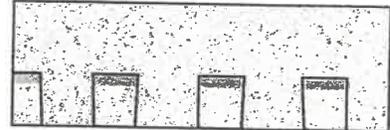
50 **3**
YEARS YEARS
against wood decay on semi-transparent stain 2 coats

3 YEARS
on labour

Landmark®, Landmark® Premium, Landmark® Pro Shingles, Landmark® Pro/Architect 80 (NW Region Only) Shingles

PRODUCT INFORMATION

Landmark shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. Landmark Premium (and Algae Resistant-AR), Landmark PRO (and AR) and Landmark (and AR) are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Landmark is produced with the unique NailTrak® nailing feature. **Please see the installation instruction section below for important information regarding NailTrak.**



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles are algae-resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae. AR shingles are not available in all regions.

Colors: Please refer to the product brochure or CertainTeed website for the colors available in your region.

Limitations: Use on roofs with slopes greater than 2" per foot. Low-slope applications (2:12 to < 4:12) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

Product Composition: Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

Applicable Standards

ASTM D3018 Type I

ASTM D3462

ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance

ASTM D7158 Class H Wind Resistance

UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537

CSA Standard A123.5 (Regional)

Miami-Dade Product Control Approved

Florida Product Approval # FL5444

Meets TDI Windstorm Requirements

Technical Data:

	Landmark (and AR)	Landmark PRO* (and AR)	Landmark Premium (and AR)
Weight/Square (approx.)	219 to 238 lb **	240 to 267 lb **	300 lb
Dimensions (overall)	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66	66	66
Weather Exposure	5 5/8"	5 5/8"	5 5/8"

*Includes Landmark PRO AR/Architect 80

**Dependent on manufacturing location

INSTALLATION

Detailed installation instructions are supplied on each bundle of Landmark shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

Hips and Ridges: For capping hip and ridge apply CertainTeed Shadow Ridge®, Cedar Crest® or Mountain Ridge® shingles of a like color.

MAINTENANCE

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

WARRANTY

Landmark Premium (and AR), Landmark PRO/Architect 80 AR, Landmark PRO (and AR), and Landmark (and AR) shingles carry a lifetime limited, transferable warranty to the consumer against manufacturing defects when applied to stated CertainTeed application instructions for this product. In addition, Landmark Premium (and AR), Landmark PRO (and AR), Landmark PRO/Architect 80 AR, and Landmark (and AR) carry 10-years of SureStart™ Protection. Landmark AR shingles carry a 10-year algae resistance warranty. Landmark Premium AR, Landmark PRO AR, and Landmark PRO/Architect 80 AR shingles carry a 15-year algae resistance warranty. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at www.certainteed.com).

FOR MORE INFORMATION

Sales Support Group: 800-233-8990

Web site: www.certainteed.com

See us at our on-line specification writing tool, CertaSpec®, at www.certainteed.com/certaspec.

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SAINT-GOBAIN



clopaydoor.com

technically speaking

issue date: 4.1.20

Wood Garage Doors

- Wood Species and Materials
- Garage Door Construction
- The Right Wood Door for You
- Properly Finish Your Wood Door
- Maintaining Your Wood Door

Warm. Distinctive. Timeless.

These are the qualities that make a home stand out. With a Clopay wood garage door, yours is sure to be the focal point among others on the block.



Wood Species

Redwood

REDWOOD offers a characteristic rich red to pink color throughout the heartwood, while sapwood is nearly white. Clopay constructs the doors using only the finest heartwood (as opposed to soft sapwood) for their doors, because it contains a grown-in resistance to decay and insects that is present throughout the entire piece of wood. Redwood contains tannic acid and requires the use of a tannin-blocking primer to avoid discoloration when it comes into contact with moisture. Clopay offers Redwood in the Reserve® Wood and Classic™ Wood raised panel doors.

Western Red Cedar

WESTERN RED CEDAR withstands the natural elements, making it an ideal wood species for a garage door in any climate. Suitable for staining and painting, natural Cedar exhibits a wide variation of grain patterns and color, from nearly white to pink to dark brown, often within the same board. Cedar also contains tannic acid, and requires the use of a tannin-blocking primer to avoid discoloration when it comes into contact with moisture. Clopay offers Cedar in the Reserve® Wood and Classic™ Wood raised panel doors.

Meranti

MERANTI offers a characteristic reddish brown coloration with an even, consistent grain, allowing it to be easily stained. Meranti is a strong wood and can be compared to the strength of Hemlock. Clopay offers Meranti in Reserve® Wood garage doors.

Hemlock

HEMLOCK is an economical wood choice for all types of homes. The unfinished wood is a yellowish white color with a consistent tone and grain. Hemlock is the strongest wood species in the Clopay line and it is inherently rot-resistant. However, Hemlock has a low resistance to environmental change and will expand and contract within the panel of the door. In certain parts of the country wood WINDCODE® Doors are available only in Hemlock to meet specific building code specification due to its strength.

Fir

DOUGLAS FIR ranges in color from yellowish-tan to a light brown. It has a straight grain pattern which may contain some waves or spiral designs and has a medium to coarse texture. Douglas Fir is known to be dimensionally stable and strong throughout environmental changes. Clopay offers Douglas Fir in Reserve® Wood garage doors.

Luan Plywood

LUAN PLYWOOD is an economical alternative to wood panels that can be stained or painted. It is used in Clopay's Reserve® Wood doors and as a panel material in the Classic™ Wood garage doors. Luan is also known as Imported hardwood.

Composite Materials

Extra®

EXTRA is used as a grooved or smooth face or panel material on Clopay's Reserve® Wood garage doors or as raised panel material on Clopay's Classic™ Wood garage doors.

HARDBOARD

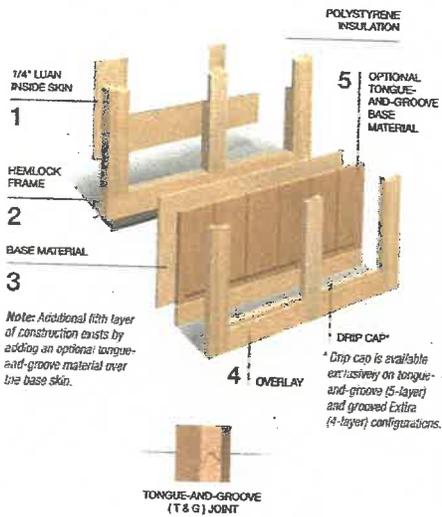
HARDBOARD is a composite wood product made from densely pressed wood fibers. Hardboard is ideal for painting, but it cannot be stained. It is used as a smooth flat panel material in Clopay's Classic™ Wood garage doors.

RESERVE® WOOD | Garage Door Construction

LIMITED EDITION

5 & 4
LAYER
CONSTRUCTION

Up to three inches thick, four- or five-layer construction provides excellent insulation and outstanding wear.



Note: Additional fifth layer of construction exists by adding an optional tongue-and-groove material over the base skin.

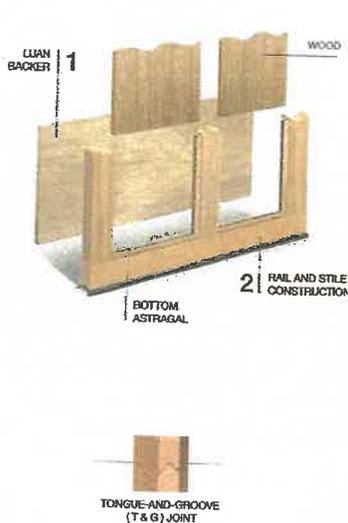


TONGUE-AND-GROOVE (T & G) JOINT

SEMI-CUSTOM

2
LAYER
CONSTRUCTION

Two-layer construction method ensures durability and reliability.

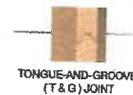
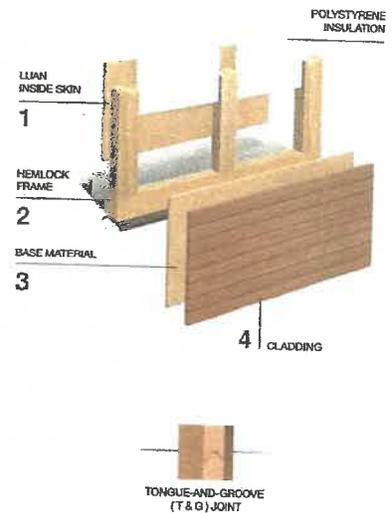


TONGUE-AND-GROOVE (T & G) JOINT

MODERN

4
LAYER
CONSTRUCTION

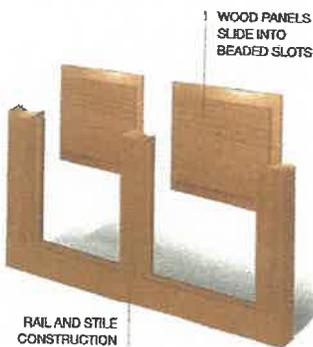
Four-layer construction offers durability and energy efficiency.



TONGUE-AND-GROOVE (T & G) JOINT

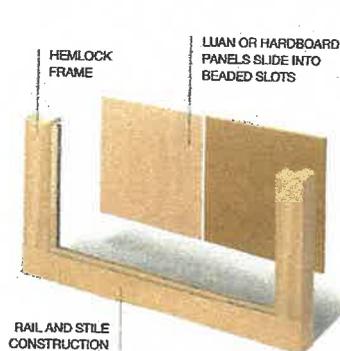
CLASSIC™ WOOD | Garage Door Construction

MODEL 44



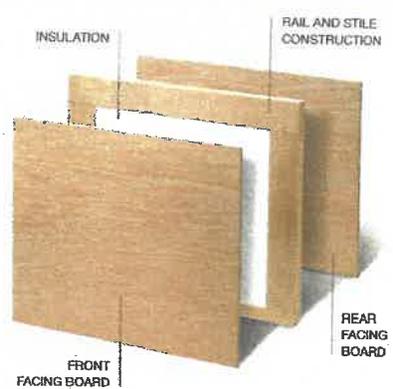
RAIL AND STILE CONSTRUCTION

MODELS 20 & 10



RAIL AND STILE CONSTRUCTION

MODEL 33



FRONT FACING BOARD

REAR FACING BOARD



SHIPLAP JOINT



WOOD DOWELS

Model 44 Raised Panel and 20 and 10 Recessed Panel feature a rail and stile, wood dowel pin construction with shiplap joints.



T & G JOINT

Model 33 has a Flush panel, insulated with polystyrene foam. Model 33 doors have a tongue-and-groove section joint. Model 33 is available in a rough or smooth texture and can be stained or painted.

Which Door Is Right for You?

There is a variety of materials to choose from when selecting a wood door. Use these helpful tips to guide your decision and ensure the long-lasting beauty of your Clopay wood door.

If you:

Live in a humid or rainy climate, consider a Cedar or Redwood door for its built-in durability and resistance to varying climate conditions.

Plan to paint your door, Extira panels offer a smooth, grain-free surface for a professional quality finish.

Live in a coastal region and need a door wider than 10', the local building code requirements may mandate a door with a Hemlock rail and stile construction.

Have or are installing Redwood or Cedar siding on your home, consider a matching wood species for your door for a cohesive look.

Wood Material Selector Chart

WOOD SPECIES								
Wood Property	Hemlock	Meranti	Cedar	Redwood	Fir	EXTIRA®	Luan	Hard-board
Color Consistency	***	***	*	**	***	***	*	***
Dimensional Stability ¹	*	**	**	**	**	***	***	**
Strength	***	***	**	**	***	***	N/A	N/A
Stainability	***	***	***	***	***	N/A	**	N/A
Weatherability	*	**	***	***	**	***	*	*

* Fair ** Good *** Excellent

¹ Dimensional Stability refers to a material's resistance to expansion and contraction during environmental changes. A wood that expands and contracts to a greater degree (such as Hemlock) has less dimensional stability. This property affects the panels of the door to a much greater degree than the rails and stiles.

How to Properly Finish Your Wood Garage Door

For Doors To Be Painted

NOTE: Differences in grain and color variations are indicative of natural wood. These are not considered product defects. Some variations in stain penetration may occur between materials from which the door is constructed (e.g. plywood panel vs. wood frame).

Prep

Important information: Wood products can absorb moisture during shipping and storage. Do not leave or store unfinished doors outside. It is important that all sections be free of moisture prior to finishing the sections. Wood doors should not be finished under very humid conditions (storing the door in such an environment will void the warranty on the door). In order to ensure that all door surfaces are properly finished, it is required that the door sections be finished prior to installation. Failure to properly and completely finish all door section surfaces, including the sides, back, bottom, face and joints, will void the warranty on the door.

Step 1: Fill any gaps or voids within wood surfaces with a wood putty that can be painted.

Step 2: Clean all door surfaces with a stiff bristle brush to remove surface dirt, dust and loose fibers.

Prime

Step 3: Before finish painting, the door section must be primed on all sides. Wood doors can be ordered either primed or unprimed (primed doors can be identified by the light-green finish). If your door is primed, proceed to step 4 below. Prime all section surfaces using a quality oil- or latex-based exterior primer, taking care to observe the primer manufacturer's application instructions, including

recommendations on temperature and drying time. If you are painting a Redwood or Cedar door, the primer must contain a tannin blocker. Using a primer on Redwood and Cedar doors that does not contain a tannin blocker could result in discoloration of the door after painting.

Protect

Step 4: For optimum long-lasting performance the spaces between the rails or stiles and the door panel should be caulked with a paintable caulk prior to painting the door. All (4) sides of each panel should be caulked to prevent water infiltration. Use caulk that allows for expansion.

Step 5: Finish paint all door section surfaces using a quality oil- or latex-based exterior paint. The finish coat base should be the same as the primer coat base (i.e. a latex-based finish paint is recommended for use with a latex-based primer, and an oil-based finish paint is recommended for use with an oil-based primer). If your door is factory primed, a latex-based finish paint must be used. Carefully follow all manufacturers' application instructions, including recommendations on temperature and drying time. A second top coat is recommended for optimum protection.

How to Properly Finish Your Wood Garage Door



For Doors To Be Stained

NOTE: The following door models cannot be stained: 10 (hardboard panels), any model ending in "G" or "P". If your door is one of these models, refer to the previous painting instructions.

Important Information

Select a quality exterior oil-based penetrating stain (transparent, semitransparent or solid) that is mildew resistant, UV resistant and water repellent. Selection of a stain or finish that does not have these properties will void the warranty on the door. Do not use nonbreathable film-forming finishes, such as varnishes and urethanes, which do not penetrate the wood.

Clopay recommends PPG ProLuxe™ brand of premium woodcare products. They enhance the beauty and provide superior protection for your Clopay garage door.

Step 1: Fill any gaps or voids within wood surfaces with epoxy.

Step 2: Clean all door surfaces with a stiff bristle brush to remove surface dirt, dust and loose fibers.

Step 3: Apply stain to all door section surfaces per stain manufacturer's instructions, including recommendations on temperature and drying time.

Step 4: For optimum long-lasting performance on a stained door, the spaces between the rails or stiles and the door panel should be caulked with a clear silicone caulk after staining the door. All (4) sides of each panel should be caulked.

To avoid an uneven caulk line that could affect the appearance of the wood surrounding the panel joints, apply masking tape to both the panel and the stile or rail along the entire joint prior to caulking, leaving a gap of 1/8". Caulk along the joint, pressing the caulk into the joint and smoothing with finger. After entire bead is applied, remove tape.

Maintaining Your Painted or Stained Door

The two major contributing factors to the breakdown of the door's finish (ultimately resulting in rotting and warpage) are sun and moisture. Annually examine your door for any signs of paint finish cracking or peeling or for any cracks in the wood door section. If the door is painted, the manufacturer recommends that it be repainted every 1-2 years to protect or seal the door against the elements. Failure to do so will result in voiding of the warranty. If the door is stained, reapply stain as needed per

the stain manufacturer's recommendations. In general, the clearer the stain, the more it will need to be reapplied.

Minor cracks in the wood should be repaired by filling in the area with an exterior grade caulk compound and then refinished following the previous instructions. Failure to repair cracks could potentially lead to more extensive section damage in the future. Gouges in the wood surface can be repaired with a wood filler. If extensive damage occurs to the door, the door manufacturer recommends that the door section be replaced. Failure to do so could result in damage or injury to property or individuals in the garage.

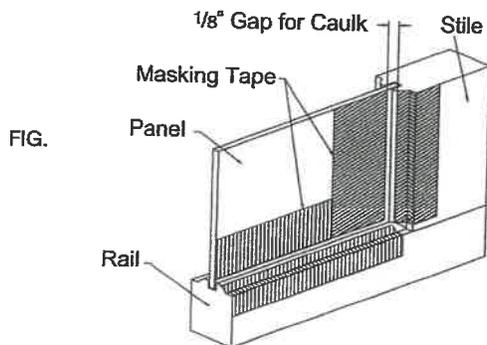


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Visit clopay.com or call 1-800-2CLOPAY (800-225-6729) for more information on Clopay, America's Favorite Garage Doors.

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