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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.



# Pella® Reserve™ Tilt-Turn Window

## Size and Performance Data

	Clad	Wood
<b>Sizes</b>		
Standard Vent Sizes	●	●
Special Sizes Available	●	●



# Pella® Reserve™ Tilt-Turn Window

## Features and Options

Standard	Options / Upgrades
<b>Glazing</b>	
<b>Glazing Type</b>	
Dual-Pane Insulating Glass	Triple-Pane Insulating Glass
<b>Insulated Glass Options/Low-E Types</b>	
Advanced Low-E	SunDefense™ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	Clear (no Low-E coating)
<b>Additional Glass Options</b>	
Annealed Glass	Tempered Glass
	Obscure Glass <sup>1</sup>
	Tinted Glass (Bronze, Gray and Green)
	Custom
<b>Gas Fill/High Altitude</b>	
Argon	High altitude
<b>Wood Types</b>	
Pine	Mahogany, Douglas Fir
<b>Exterior</b>	
<b>Exterior Sash Profile</b>	
Ogee - clad, Putty - wood	Putty - clad
<b>Exterior Finish</b>	
EnduraClad® protective finish	EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior
<b>Cladding Colors<sup>1</sup></b>	
Standard colors	Feature Colors, Custom Colors
<b>Interior</b>	
<b>Interior Sash Profile</b>	
Ogee	—
<b>Interior Finish</b>	
Unfinished wood	Factory primed <sup>2</sup> , Factory prefinished paint <sup>2</sup> , Factory prefinished stain
<b>Hardware</b>	
Champagne, White or Brown	Satin Brass, Satin Nickel or Oil-Rubbed Bronze
<b>Sash Locks</b>	
Multi-point® System	—
<b>Grilles</b>	
<b>Integral Light Technology® Grilles</b>	
—	Traditional, Prairie, Top Row, Cross, New England, Victorian, Simulated French, Custom
<b>Grilles-Between-the-Glass</b>	
—	Traditional, Prairie, Cross, Top Row <sup>1</sup> , Custom-Equally Divided
<b>Screens</b>	
—	InView™ screens

(1) Contact your local Pella sales representative for current designs and color options.

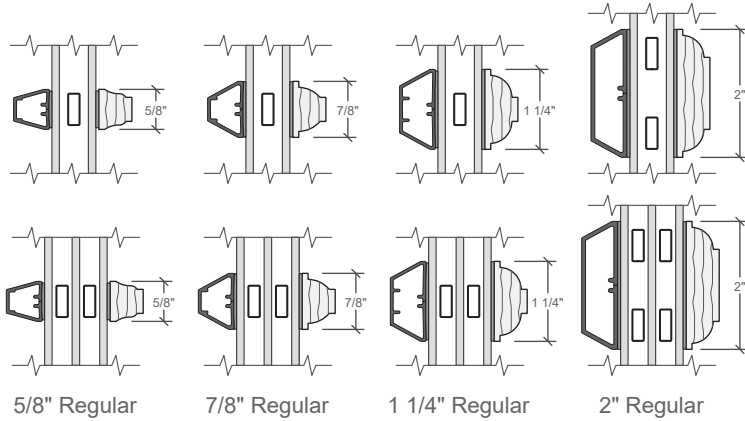
(2) Not available on Mahogany and Douglas Fir interiors.



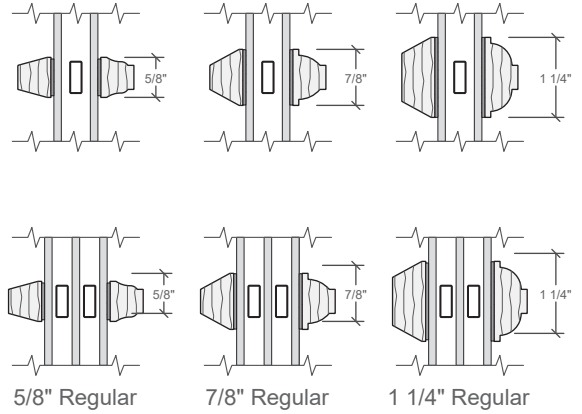
Grille Profiles

Traditional Style Collection - Integral Light Technology®

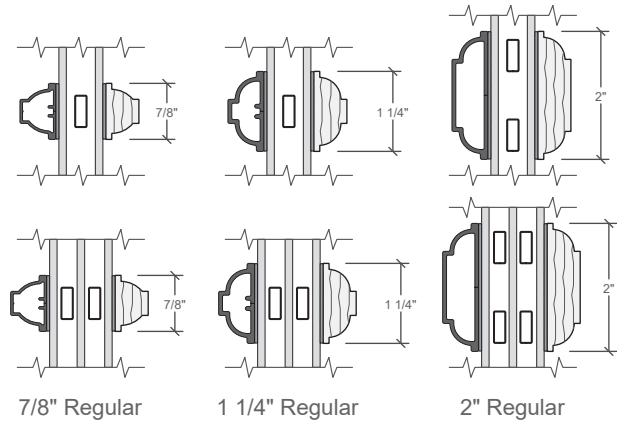
Putty Glaze and Ogee Grilles  
Clad Exterior - Wood Interior



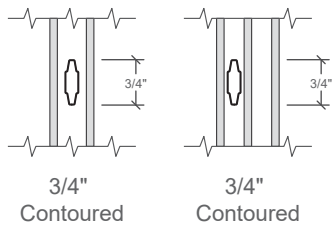
Putty Glaze and Ogee Grilles  
Wood Exterior - Wood Interior



Ogee Grilles  
Clad Exterior - Wood Interior



Grilles-Between-the-Glass



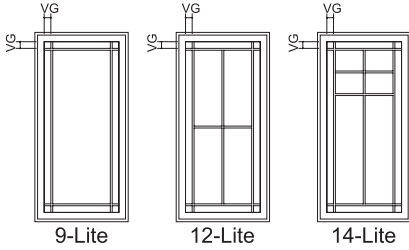
Interior ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.  
Wood exterior ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Typical ILT Grille Patterns

Prairie Lite Patterns



Size range availability is for 3/4", 7/8" and 1-1/4" grille width. Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

9-Lite

- Available in all standard and special sizes.

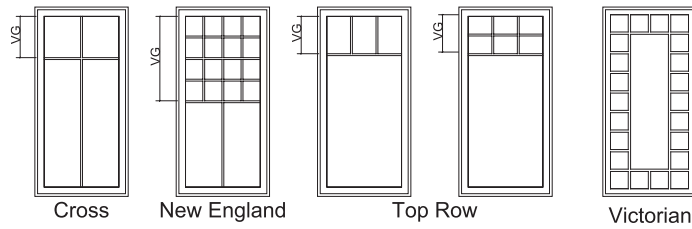
12-Lite

- Available in units ≥ 1'9" and ≤ 2'11" in width, and ≥ 1'9" in height.

14-Lite

- Available in units ≥ 1'9" in width and ≥ 2'11" in height.

Other Patterns



Cross

- Standard visible glass to separator bar = one-quarter of total visible glass height.

New England

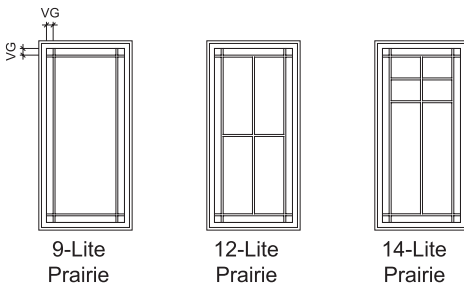
- Standard visible glass to separator bar = half of total visible glass height.

Top Row

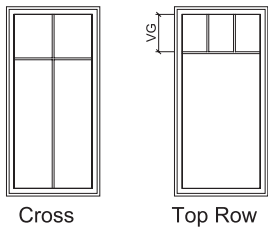
- Standard visible glass to separator bar = 14" or half of total visible glass height, whichever is smaller.

Grilles-Between-the-Glass

Prairie Lite Patterns



Other Patterns



Cross

- Available for units with frame heights ≥ 35". Standard visible glass to separator bar = 1/4 of total visible glass height.

Top Row

- Standard visible glass to separator bar = 14" for frame heights > 35". Standard visible glass to separator bar = 21" for 35" frame heights and optional for 41" frame height. Separator bar at 12" or 16" optional for frame heights > 41".

For traditional patterns, see size tables.

VG = Visible Glass











































Lite dimensions noted can vary.

Custom configurations are also available, for details contact your local Pella sales representative.



Size Tables

Vent Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(908) (889)
Opening	1' 5 <sup>3</sup> / <sub>4</sub> "	1' 9 <sup>3</sup> / <sub>4</sub> "	1' 11 <sup>3</sup> / <sub>4</sub> "	2' 1 <sup>3</sup> / <sub>4</sub> "	2' 5 <sup>3</sup> / <sub>4</sub> "	2' 11 <sup>3</sup> / <sub>4</sub> "
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 11"
(908) (889)	 1735	 2135	 2335	 2535	 2935	 3535
(1060) (1041)	 1741	 2141	 2341	 2541	 2941	 3541
(1213) (1194)	 1747	 2147	 2347	 2547	 2947	 3547
(1365) (1346)	 1753	 2153	 2353	 2553	 2953	 3553
(1518) (1499)	 1759	 2159	 2359	 2559	 2959	 3559
(1670) (1651)	 1765	 2165	 2365	 2565	 2965	 3565
(1822) (1803)				 2571	 2971	 3571
(1873) (1854)				 2573	 2973	 3573

Not to scale.

Traditional grille patterns shown. Refer to grille Section for additional patterns and profiles.

Opening dimensions shown are for clad units only.



# Pella® Reserve™ Tilt-Turn Window

## Design Data

Vent and Fixed - Wood and Aluminum-Clad Exteriors						
Unit	Clear Opening			Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Frame Area Ft <sup>2</sup>
	Width (Inches)	Height (Inches)	Ft <sup>2</sup>			
1735	10	29	2.0	2.0	1.4	4.1
1741	10	35	2.4	2.4	1.7	4.8
1747	10	41	2.9	2.9	2.0	5.5
1753	10	47	3.3	3.3	2.4	6.3
1759	10	53	3.7	3.7	2.7	7.0
1765	10	59	4.1	4.1	3.0	7.7
2135	14	29	2.8	2.8	2.1	5.1
2141	14	35	3.4	3.4	2.6	6.0
2147	14	41	4.0	4.0	3.1	6.9
2153	14	47	4.6	4.6	3.6	7.7
2159	14	53	5.2	5.2	4.1	8.6
2165	14	59	5.8	5.8	4.5	9.5
2335	16	29	3.2	3.2	2.5	5.6
2341	16	35	3.9	3.9	3.0	6.5
2347	16	41	4.6	4.6	3.6	7.5
2353	16	47	5.2	5.2	4.2	8.5
2359	16	53	5.9	5.9	4.8	9.4
2365	16	59	6.6	6.6	5.3	10.4
2535	18	29	3.6	3.6	2.8	6.1
2541	18	35	4.4	4.4	3.5	7.1
2547	18	41	5.1	5.1	4.1	8.2
2553	18	47	5.9	5.9	4.8	9.2
2559	18	53	6.6	6.6	5.4	10.2
2565	18	59	7.4	7.4	6.1	11.3
2571	18	65	8.1	8.1	6.8	12.3
2573	18	67	8.4	8.4	7.0	12.7
2935	22	29	4.4	4.4	3.5	7.0
2941	22	35	5.4	5.4	4.4	8.3
2947	22	41	6.3	6.3	5.2	9.5
2953	22	47	7.2	7.2	6.0	10.7
2959	22	53	8.1	8.1	6.8	11.9
2965	22	59	9.0	9.0	7.6	13.1
2971	22	65	10.0	10.0	8.5	14.3
2973	22	67	10.3	10.3	8.7	14.7
3535	28	29	5.7	5.7	4.6	8.5
3541	28	35	6.8	6.8	5.7	10.0
3547	28	41	8.0	8.0	6.8	11.4
3553	28	47	9.2	9.2	7.8	12.9
3559	28	53	10.3	10.3	8.9	14.3
3565	28	59	11.5	11.5	10.0	15.8
3571	28	65	12.7	12.7	11.0	17.3
3573	28	67	13.0	13.0	11.4	17.7

To convert area to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



### Frame

- Select woods, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [pine] [mahogany] [douglas fir] (standard rectangular units only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with aluminum.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths.

### Sash

- Select woods, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear [pine] [mahogany] [douglas fir].
- Exterior surfaces are clad with aluminum and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 2-3/4" (70mm) for [11/16"] or [1"] glazing.
- Exterior sash profile is [ogee] [putty glaze], interior sash profile is ogee.

### Weatherstripping

- Dual Weatherstripping
  - A foam filled close cell sheathed weatherstrip on the full frame perimeter is compressed between frame and sash for positive seal on all four sides.
  - Secondary leaf-type weatherstrip between edge of sash and frame.

### Glazing System 1

- Quality float glass complying with ASTM C 1036.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E coated with argon] [AdvancedComfort Low-E] [SunDefense™ Low-E with Argon] [NaturalSun Low-E] [[bronze] [gray] [green] air-filled Advanced Low-E coated]].
- Custom and high altitude glazing available for 11/16" glazing only.
  - or –
- Silicone-glazed triple-pane 1-1/16" dual-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [Advanced Low-E with krypton] [SunDefense™ Low-E with argon] [SunDefense™ Low-E with krypton] [NaturalSun Low-E with krypton] [Obscure [standard] [fern]].

### Exterior

- Exterior aluminum surfaces are finished with EnduraClad® multi-stage finish system.
  - Color is [Standard] [Feature] [custom]2.
  - or –
- Exterior aluminum surfaces are finished with EnduraClad Plus 70% fluoropolymer-based multi-stage finish system.
  - Color is [Standard] [Feature] [custom]2.

### Interior

- [Unfinished, ready for site finishing] [Factory-primed with one coat acrylic latex] [Pine: [Factory prefinished [paint] [stain]2].

### Hardware

- Multi-point lock system—A single handle locking system engages multiple locking points around the sash.
- Turn operation requires a 90 degree turn of the handle from locked position. Tilting the sash inwards requires a 180 degree turn from locked position. Sash is limited by stay at top of window during tilt operation.
- Finish of handle is [baked enamel [Champagne] [White] [Brown]] [Satin Brass] [Satin Nickel] [Oil-Rubbed Bronze]. All vent units are available with left- or right-hand hinging.

### Optional Products

#### Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [Pine] [Mahogany] [Douglas Fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]2].
  - Exterior grilles are [5/8" putty profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are extruded aluminum.
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Bars are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
    - or –
- Grilles-Between-the-Glass3
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
  - Interior color is [Black] [White] [Brown4] [Fossil] [Harvest] [Cordovan] [Ivory] [Tan4] [Brickstone] [Putty4].
  - Exterior color5 is [Standard] [Feature]2.

#### Screens

- InView™ Screens
  - [Full-Size] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Screen frame finish is [baked enamel] [anodized], color to match window cladding.

(1) Insulating glass with argon is Low-E coated. All other insulating glass is air-filled.

(2) Available in clear, Low-E and obscure insulating glass.

(3) Contact your local Pella sales representative for current color options.

(4) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.





Detailed Product Description - Wood Exterior

Frame

- Select woods, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [Pine] [Mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [Pine: primed] [Mahogany: [primed] [ready-to-stain]].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths, with Pella's standard wood exterior trim.

Sash

- Select woods, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [Pine] [Mahogany].
- Exterior surfaces are [Pine: primed] [Mahogany: [primed] [ready-to-stain]].
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 2-3/4" (70mm) for [1 1/16"] or [1"] glazing.
- Exterior sash profile is putty glaze, interior sash profile is ogee.

Weatherstripping

- Dual Weatherstripping
  - A foam filled close cell sheathed weather-strip on the full frame perimeter is compressed between frame and sash for positive seal on all four sides.
  - Secondary leaf-type weather strip between edge of sash and frame.

Glazing System 1

- Quality float glass complying with ASTM C 1036.
- Silicone-glazed 1 1/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E coated with argon] [SunDefense™ Low-E with Argon] [AdvancedComfort Low-E with Argon] [NaturalSun Low-E coated with argon] [[bronze] [gray] [green] air-filled Advanced Low-E coated]].
- Custom and high altitude [with argon] glazing available.
  - or -
- Silicone-glazed triple-pane 1-1/16" dual-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [Advanced Low-E with krypton] [SunDefense™ Low-E with argon] [SunDefense™ Low-E with krypton] [NaturalSun Low-E with krypton] [Obscure [standard] [fern]].

Interior

- [Unfinished, ready for site finishing] [primed with one coat acrylic latex] [Pine: [prefinished [paint] [stain]3].

Hardware

- Multi-point lock system—A single handle locking system engages multiple locking points around the sash.
- Turn operation requires a 90 degree turn of the handle from locked position. Tilting the sash inwards requires a 180 degree turn from locked position. Sash is limited by stay at top of window during tilt operation.
- Finish of handle is [baked enamel [Champagne] [White] [Brown]] [Satin Brass] [Satin Nickel] [Oil-Rubbed Bronze]. All vent units are available with left- or right-hand hinging.

Optional Products

Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]3].
  - Exterior grilles are solid [5/8" putty profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
    - or -

Grilles-Between-the-Glass 2

- Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
- Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
- Interior color is [Black] [White] [Brown 4] [Fossil] [Harvest] [Cordovan] [Ivory] [Tan 4] [Brickstone] [Putty 4].
- Exterior color 5 is [standard 3].

Screen

- InView™ Screens
  - [Full-Size] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Screen frame finish is [baked enamel, white] [feature 3].

(1) Insulating glass with argon is Low-E coated. All other insulating glass is air-filled.

(2) Available in clear, Low-E and obscure insulating glass.

(3) Contact your local Pella sales representative for current color options.

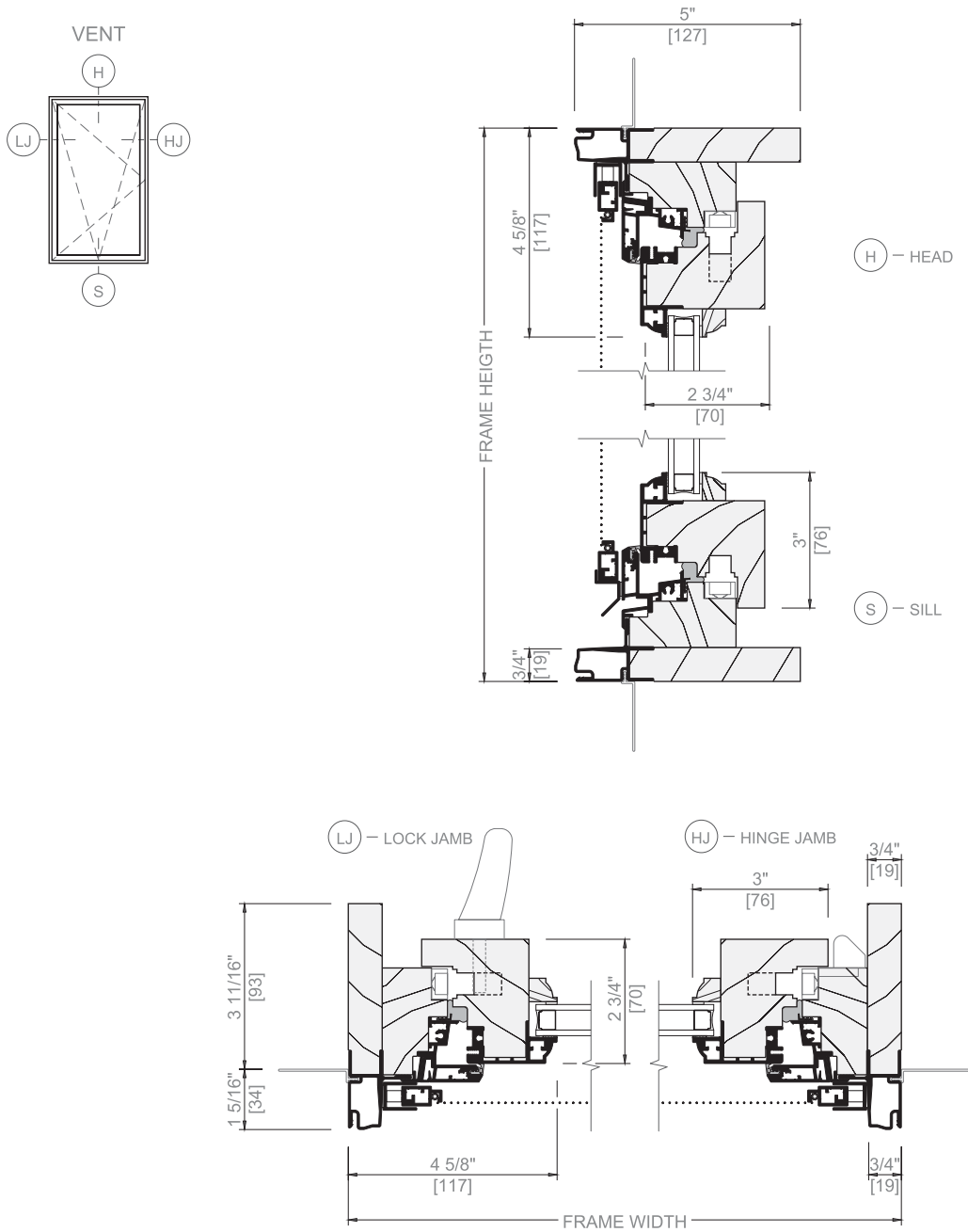
(4) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.



# Pella® Reserve™ Tilt-Turn Window

## Unit Sections - Aluminum-Clad Exterior



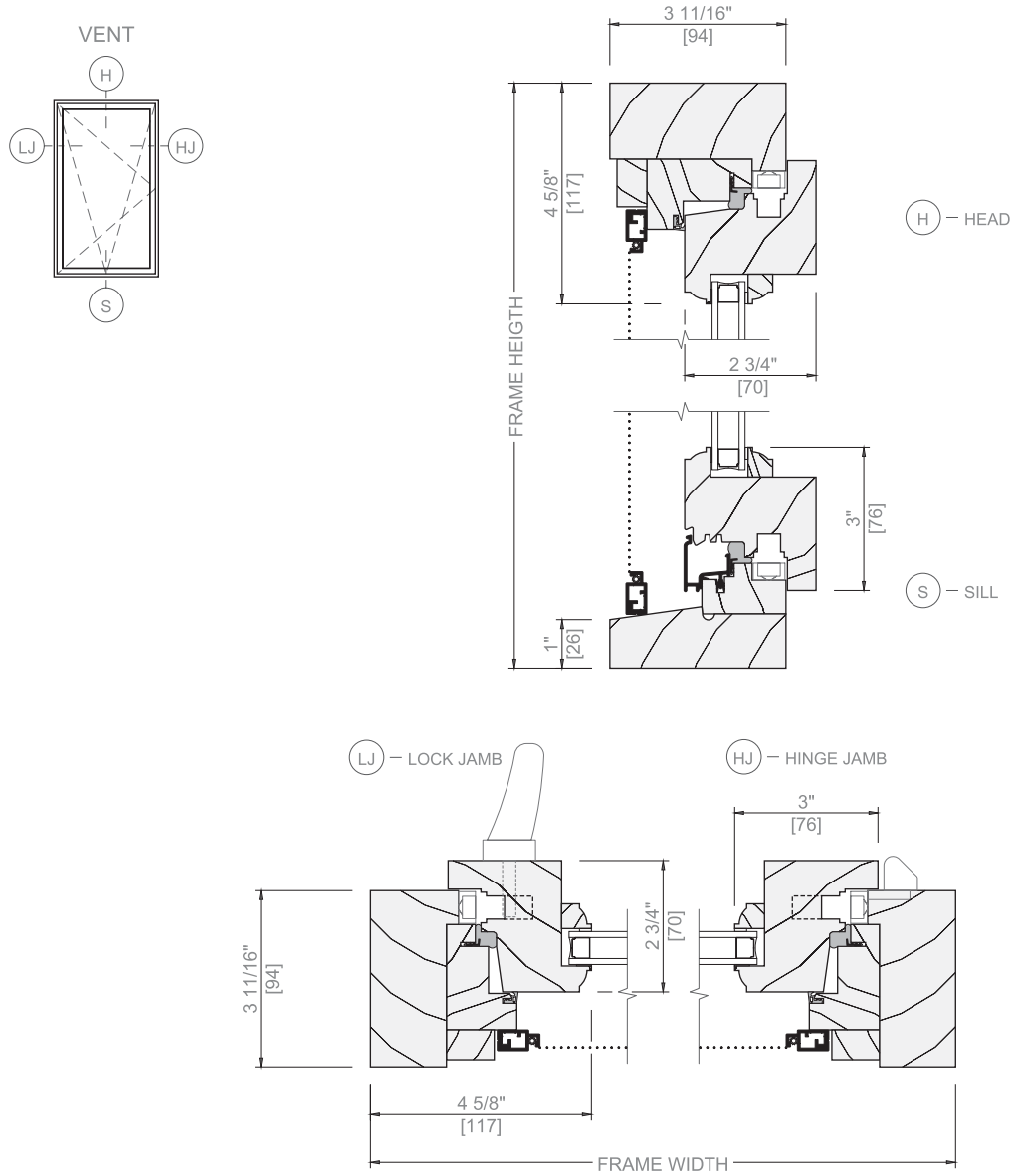
Scale 3" = 1' 0"

All dimensions are approximate.



# Pella® Reserve™ Tilt-Turn Window

## Unit Sections - Wood Exterior



Scale 3" = 1' 0"

All dimensions are approximate.