

PREMIUM QUALITY VINYL WINDOWS & DOORS



American Craftsman ranked
"Highest in Customer Satisfaction
with Windows and Patio Doors"
by J.D. Power.*

*American Craftsman received the highest numerical score among 16 companies in the J.D. Power 2017 Windows & Patio Doors Satisfaction Study, based on 1,904 total responses, measuring the experiences and perceptions of customers who purchased windows and/or patio doors in the previous 12 months, surveyed February—March 2017. Your experiences may vary. Visit jdpower.com.



5 Replacement vs. Remodel/New Construction

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31 Comparison Chart



70 Series Casement and Picture Windows

American Craftsman®
by Andersen 

Quality you expect from a brand you can trust.

American Craftsman® is the brand of vinyl windows and patio doors that not only offers energy efficiency, low maintenance and affordability but the confidence and peace of mind that includes a limited lifetime warranty.

Our products are designed and manufactured with the quality you expect from an Andersen company. So if you are considering vinyl windows for your home, look to American Craftsman products, from the company with the most recognized brand of windows and patio doors in America.



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Classic styling for enhanced curb appeal.

70 Series products are a full portfolio of premium quality, energy-efficient, low-maintenance windows and patio doors. They feature an enhanced design with wider profiles to emulate the look of traditional wood windows. Available with a variety of colors and grille patterns for any style and ENERGY STAR® certified glass options.

See pages 6, 10, 11, 12, 13, 16.



For coastal areas, we offer StormDefense™ Protection on 70 Series windows and patio doors. This includes impact-resistant glass and structural reinforcements to help you protect your home from the harshest coastal weather conditions.*

See pages 10, 11, 12, 13, 16, 21.

*See your code official for local code requirements.



Simplified design for the budget-minded.

50 Series products offer affordability without sacrificing quality. With a simplified design that maximizes light and view for a more contemporary look, these products are low maintenance inside and out and are ENERGY STAR® certified with select glass options.

See pages 9, 11, 13, 17.

Which window is right for your project?

No matter if you're replacing existing windows or adding windows to a new opening, American Craftsman has a variety of window styles and options to choose from. New windows can provide better insulation, which can help reduce your energy bill, and add style by enhancing your home's curb appeal.



Replacement

Designed to fit inside existing window frames

Replacing old windows with new ones can make an impressive change to your home. Replacement windows fit into the existing window frame, allowing you to update your house with minimal disruption while saving you time and money.

See pages 6, 9, 12, 13.

- Cost-effective upgrade that enhances your home's curb appeal.
- Minimal disruption to your interior trim and exterior siding.
- Improved window operation.
- Easy for do-it-yourselfers.
- Custom sizes to fit any window opening for a fast, weathertight installation.
- ENERGY STAR® certified glass options available for any climate to help reduce energy costs.



Remodel or New Construction

Made for new walls or window openings

Whether you're building a new home, putting on an addition, or creating a new window opening, we have a variety of window styles, options and configurations to let you be creative.

See pages 10, 11, 12, 13.

- Frame options include a nailing flange with or without a J-channel for fast, weathertight installation.
- When using siding on the exterior of your home, a J-channel allows you to attractively trim the siding to the window.
- ENERGY STAR® certified options are available for any climate to help reduce energy costs.



70
SERIES

Pro Double-Hung for Replacement

Our 70 Series Pro Replacement double-hung window is designed for easy window replacement and offers an enhanced design for added curb appeal. Featuring wide profiles, this window gives you more of a classic look.

Enhanced design inside and out

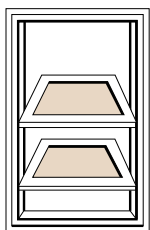
Decorative exterior frame adds curb appeal while **interior jamb covers** create a finished appearance.



EXTERIOR VIEW SHOWN

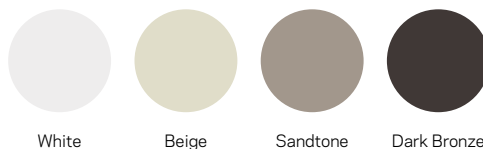
Easy to clean

Tilt-in top and bottom sash with **low-profile tilt latches** that blend in with the window.



INTERIOR VIEW SHOWN

Exterior colors



Printing limitations prevent exact color duplication.

Weathertight performance

Dual weatherstripping helps seal out dust, wind and water. The **Premium lock** made of durable metal pulls the sash tight for additional weathertight performance.



Flexible ventilation

Double-hung windows have two operating sash that move up and down and allow **venting from the top and bottom**. This window also features vent latches for the option of **partial ventilation**.



Easy installation to save you time

Custom sizes and head and sill expanders ensure an exact fit. **Pre-drilled installation holes** save you time.



CUSTOM SIZES



ASK ABOUT
ENERGY
STAR

DID YOU KNOW?

This window is also available as a bay combination unit.



70 Series Pro Double-Hung Windows



50 Series Double-Hung Windows

50
SERIES
Double-Hung
for Replacement

Our 50 Series Replacement double-hung features a slim profile that allows for maximum light and a clean design for more of a contemporary style.

Simplified design

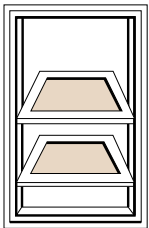
Flat exterior frame for a clean and modern appearance.



EXTERIOR VIEW SHOWN

Easy cleaning

Tilt-in feature for easy cleaning from inside your home.



Weathertight performance

Dual weatherstripping helps seal out dust, wind and water. The **Standard lock** pulls the sash tight to seal out elements.



INTERIOR VIEW SHOWN

Exterior colors



White

Beige

Printing limitations prevent exact color duplication.

Flexible ventilation

Double-hung windows have two operating sash that move up and down and allow **venting from the top and bottom**. This window also features vent latches for the option of **partial ventilation**.



Easy installation to save you time

Custom sizes ensure an exact fit while **pre-drilled installation holes** save you time.



CUSTOM SIZES

DID YOU KNOW?

This window is also available in a **single-hung** where only the bottom sash opens and tilts in for cleaning.





70 Series Double-Hung Windows

70 SERIES Double-Hung for Remodel/New Construction

- Wide profiles for a traditional appearance and improved performance.
- Decorative brickmould exterior frame enhances your home's curb appeal.
- Both top and bottom window sash open for flexible ventilation and tilt in for easy cleaning.
- Factory applied flat exterior trim option complements the architectural style of your home.
- Optional integral J-channel allows for attractive trimming of exterior siding and saves you the time and money of installing it separately.



- Available with StormDefense™ Protection.* See page 21 for details.



*See your code official for local code requirements.



70 Series Single-Hung Windows

70
SERIES

Single-Hung for Remodel/New Construction

- Decorative brickmould exterior frame enhances your home's curb appeal.
- Bottom window sash opens for ventilation and tilts in for easy cleaning.
- J-channel allows for attractive trimming of exterior siding and saves you the time and money of installing it separately.



- Available with StormDefense™ Protection.* See page 21 for details.



CUSTOM SIZES



50 Series Single-Hung Window

50
SERIES

Single-Hung for Remodel/New Construction

- Slim profiles for maximum light and a contemporary look.
- Flat exterior frame for a clean and modern appearance.
- Bottom window sash opens and tilts in for easy cleaning.



CUSTOM SIZES



*See your code official for local code requirements.



70 Series Casement Windows

70 SERIES Casement for Replacement & Remodel/New Construction

- Casement windows are hinged on the side and open outward to the left or right, allowing for full top to bottom venting.
- Wide profiles for a traditional appearance and improved performance.
- Decorative exterior enhances your home's curb appeal.
- Multi-point lock engages from a single lever for convenience and security.
- Folding hardware eliminates interference with window treatments.
- Corrosion-resistant operator for long-lasting,* smooth operation.
- Optional integral J-channel allows for attractive trimming of exterior siding and saves you the time and money of installing it separately.



- Available with StormDefense™ Protection.** See page 21 for details.



DID YOU KNOW?

This window is also available as a bay or bow combination unit.



70 Series Awning Windows

70 SERIES Awning for Replacement & Remodel/New Construction

- Awning windows open outward from the bottom for ventilation and protection from the rain.
- Wide profiles for a traditional appearance and improved performance.
- Decorative exterior enhances your home's curb appeal.
- Folding hardware eliminates interference with window treatments.
- Corrosion-resistant dual arm operator for long-lasting, smooth operation.
- Optional integral J-channel allows for attractive trimming of exterior siding and helps save you the time and money of installing it separately.



- Available with StormDefense™ Protection.** See page 21 for details.



* See the limited warranty for details.

** See your code official for local code requirements.



70 Series Gliding and Specialty Windows

70
SERIES

Gliding

for Replacement & Remodel/New Construction

- Gliding window sash slides horizontally for improved ventilation.
- Decorative brickmould exterior frame enhances your home's curb appeal.
- Durable rollers make sliding easy.
- Dual weatherstripping helps seal out dust, wind and water.
- Remodel/New Construction window comes with J-channel and nailing flange for convenient installation.



- 70 Series replacement gliding window available with StormDefense™ Protection.* See page 21 for details.



50 Series Gliding Windows

50
SERIES

Gliding

for Replacement & Remodel/New Construction

- Gliding window sash slides horizontally for improved ventilation.
- Slim profiles for maximum light and a contemporary look.
- Flat exterior frame design for a clean and modern appearance.
- Dual weatherstripping helps seal out dust, wind and water.



*See your code official for local code requirements.



Consider enhancing your view.

Specialty windows

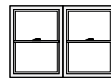
Specialty windows are stationary windows that do not operate and are available in a variety of shapes and sizes to help maximize your view and add light to your home.

Combination windows

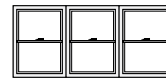
Create window combinations where various shapes and sizes are placed together to make a statement, let in more sunlight, and create a better view of the outdoors.



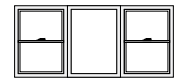
70 Series Casement and Specialty Windows



Twin
Double-Hung



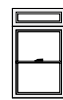
Triple
Double-Hung



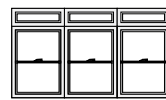
Picture Window with
Double-Hung Flankers



Equal Leg
Arch Over
Double-Hung



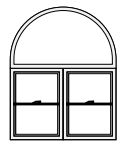
Transom
Over
Double-Hung



Triple Transom
Over Triple
Double-Hung



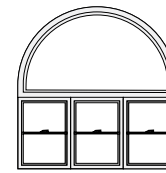
Half Circle
Over
Double-Hung



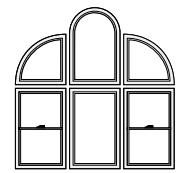
Half Circle
Over Twin
Double-Hung



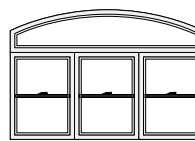
Quarter Circle
Over Double-Hung



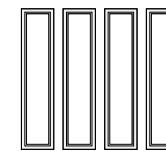
Half Circle Over
Triple Double-Hung



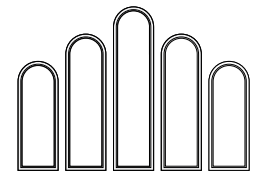
Quarter Circles,
Springline, Double-Hungs
and Picture Window



Equal Leg Arch
Over Triple Double-Hung



Picture Windows



Springline Windows



70 Series Gliding Patio Door with Built-In Blinds



Gliding Patio Door

Premium quality vinyl with an enhanced design.

- Low-maintenance vinyl never needs painting.
- Precision ball-bearing rollers for smooth, long-lasting* operation.
- Steel-reinforced construction adds strength and durability.
- Multi-point lock system with exterior keyed lock provides enhanced security.
- J-channel with integral nailing flange comes standard for convenient installation.
- Fully assembled for quick and easy installation.
- Available with built-in blinds. Blinds are protected from dust and damage and feature a cordless design to easily raise, lower, or tilt for control of light and privacy.



- Available with StormDefense™ Protection.** See page 21 for details.



*See the limited warranty for details. **See your code official for local code requirements. Printing limitations prevent exact color duplication.

Exterior colors:



Hardware:

Includes exterior keyed lock



Standard

Optional:
Satin Nickel



50 Series Gliding Patio Door with Built-In Blinds

50
SERIES

Gliding Patio Door

Designed with flexibility to match your project and budget.

- Low-maintenance vinyl never needs painting.
- Precision ball-bearing rollers for smooth, long-lasting* operation.
- Steel-reinforced construction adds strength and durability.
- Optional exterior keyed lock available.
- Coastal door option available with performance upgrades to meet HVHZ approval.
- Available with built-in blinds. Blinds are protected from dust and damage and feature a cordless design to easily raise, lower or tilt for control of light and privacy.
- Choose from a fully assembled door for quick and easy installation or a door kit for easy transportation.
- Designed for easy replacement or installation into new openings.

Exterior colors:



Hardware:



* See the limited warranty for details.
** 50 Series with built-in blinds is only available in white.
Printing limitations prevent exact color duplication.

Choices that make American Craftsman windows your own.



Colors

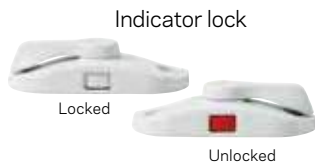
Available in White, Beige, Sandtone and Dark Bronze.



*Dark Bronze has a white interior. Printing limitations prevent exact color replication.

Window Hardware

Durable hardware color-matched to the interior of the window.



Patio Door Hardware



Wireless Open/Closed Sensors

When you want the peace of mind of knowing whether your windows and patio doors are open or closed, these sensors are a simple, reliable solution.

Available for use on all 70 Series windows and patio doors.

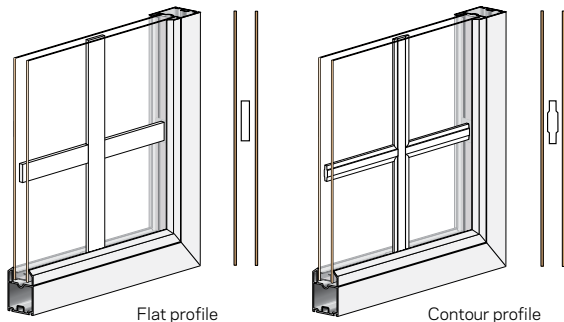
For more details, visit: americancraftsmanwindows.com/connect



Grille Options

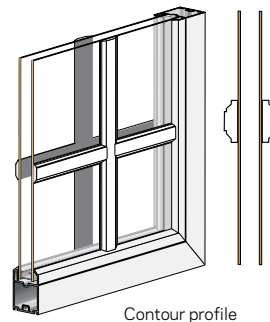
Grilles between the glass

Grilles between the glass add style to your windows and doors and make cleaning easy.



Simulated divided light

Grilles are permanently applied to the glass,* providing a more authentic look.



Finishing Accessories

Our windows designed for remodeling or new construction are available with various finishing options for a quick and professional finish.



Flat exterior trim

Exterior trim complements the architectural style of your home. Our trim is factory applied, so it saves installation time and adds to the window's weathertightness. (Available on the 70 Series double-hung window.)



EXTENSION JAMB

Extension jambs

Extension jambs are used to increase depth of the window jamb to match the wall depth. Available in factory applied 4-9/16" or 6-9/16" wall depth, in either unfinished or primed wood, for easier installation.



DRYWALL CHANNEL

Drywall return

Used instead of extension jambs and interior trim to create a clean transition from window to drywall. Factory applied channel surrounds the window and allows drywall to slide into it for a clean finish around your window. Accommodates both 1/2" and 5/8" drywall.



WITH J-CHANNEL

J-channel

The built-in J-channel is necessary for easy and attractive trimming of vinyl siding. Not only does it make your job easier, but it also saves you the time and money of installing it separately.

* Available only on certain products. Ask a sales associate for details.

Performance comparison of glass options.

No matter what type of project you're doing or where you live, American Craftsman has a glass option that is ENERGY STAR® certified and fits the needs of your home.

GLASS	ENERGY		LIGHT	
	U-FACTOR	SOLAR HEAT GAIN COEFFICIENT	VISIBLE LIGHT TRANSMITTANCE	UV PROTECTION
Low-E A great option for climates where both heating and cooling costs are a concern.	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Low-E SmartSun™ Glass option with thermal control similar to tinted glass but with a visible light transmittance closer to clear glass.	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Low-E Sun Outstanding thermal control for southern climates where less solar heat gain is desired.	★★★★☆	★★★★☆	★★★★☆	★★★★★
Low-E PassiveSun® Allows more heat from the sun into your home, helping to reduce heating costs during colder months.	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Low-E PassiveSun® with HeatLock® Technology The addition of our room-side HeatLock® coating can help products with PassiveSun® glass meet performance requirements.*	★★★★☆	★★★☆☆	★★★★☆	★★★★☆
Clear Dual-Pane Basic thermal performance with high visibility.	★★★☆☆	☆☆☆☆☆	★★★★★	☆☆☆☆☆

Center of glass performance only. Ratings based on glass options available as of June 2015.

*Stringent ENERGY STAR® requirements in the northern climate zone.

DID YOU KNOW?

Argon gas blend is an available upgrade for all American Craftsman glass to increase insulation and performance.



70 Series Double-Hung Windows with StormDefense™ Protection

Impact-resistant glass for coastal areas.



Our products with StormDefense™ Protection include impact-resistant glass and structural upgrades. Designed for coastal areas,* impact-resistant glass from American Craftsman has a layer of clear polymer between two sheets of glass, providing a layer of protection from damaging coastal weather. In addition, an insulating air space helps to keep homes cool in warm months.

The benefits of impact-resistant glass:



Storm protection
Helps protect home against extreme weather and flying debris.



Sound reduction
Reduces exterior noise for a quieter environment.



Saves energy
Helps shield homes from the sun's heat, keeping your home cool and lowering energy costs.



Sun protection
Helps reduce damaging UV rays from coming into your home.



Safety
Provides forced-entry resistance for peace of mind.

*See your code official for local code requirements.

3 simple steps to replacing your old windows.

1

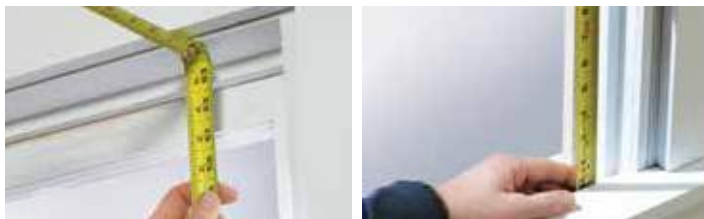


MEASURING TIPS

WIDTH: Measure width of the opening from jamb to jamb, behind trim or stops.



HEIGHT: Measure height of opening from highest point of sloped sill to top of head jamb, behind interior stop.



Measure the opening

Take the smallest width and height measurements. Make sure opening is square by measuring diagonally. Measurements must be within 1/8". Record measurements on worksheet provided in this brochure and take them to The Home Depot® store near you. Worksheet on page 25.

2



Remove existing window parts

Remove both sash and interior stops, leaving window frame and trim in place. Apply sealant.

3



Insert new window

Insert new window, which sits against the outer blind stops. Make sure it's square and then simply secure it. Apply sealant and trim, and you're done.

WATCH IT ONLINE

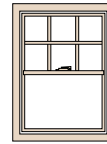


Watch a video at americancraftsmanwindows.com/replace.

Our replacement windows are custom-sized to fit your window opening. If your measurements fall within these ranges, we have a window for you.

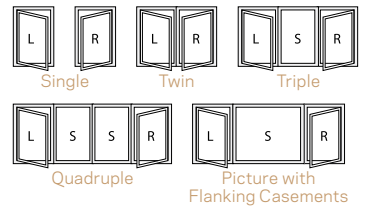
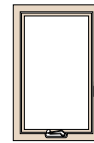
70 & **50** SERIES
Hung Replacement

SERIES	Minimum Width	Maximum Width	Minimum Height	Maximum Height
70 Pro Double-Hung	16¾"	48"	26¾"	80"
50 Double-Hung	16¾"	48"	26¾"	77¼"
50 Single-Hung	16"	48"	24"	80"



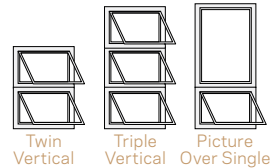
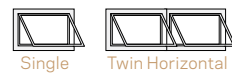
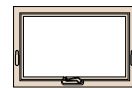
70 SERIES
Casement Replacement

MODELS	Minimum Width	Maximum Width	Minimum Height	Maximum Height
Single	17½"	36"	23"	72"
Twin	35"	72"	23"	72"
Triple	52½"	108"	23"	72"
Quadruple	70"	108"	23"	72"
Picture with Flanking Casements	70"	108"	23"	72"



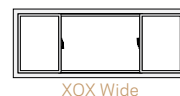
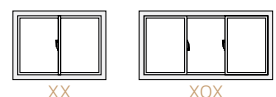
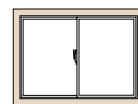
70 SERIES
Awning Replacement

MODELS	Minimum Width	Maximum Width	Minimum Height	Maximum Height
Single	17½"	48"	15"	36"
Twin Horizontal	35½"	96"	15"	36"
Triple Horizontal	54"	108"	15"	36"
Twin Vertical	17½"	48"	30"	72"
Triple Vertical	17½"	48"	45"	108"
Picture Over Single	17½"	48"	45"	96"



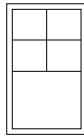







70 SERIES
Gliding Replacement

MODELS	Minimum Width	Maximum Width	Minimum Height	Maximum Height
XX	22"	86"	14¼"	66"
XOX	48"	108"	14¼"	62"
XOX Wide	48"	108"	14¼"	62"



Customer Worksheet



ROOM	WINDOW OR PATIO DOOR STYLE	SERIES	SIZE WIDTH X HEIGHT	GRILLES	OPTIONS
<u>Living Room</u>	<u>double-hung</u>	<u>70</u>	<u>25^{3/4}</u> W x <u>40^{3/4}</u> H		<u>flat exterior trim</u>
1 _____	_____	_____	_____ W x _____ H		_____
2 _____	_____	_____	_____ W x _____ H		_____
3 _____	_____	_____	_____ W x _____ H		_____
4 _____	_____	_____	_____ W x _____ H		_____
5 _____	_____	_____	_____ W x _____ H		_____
6 _____	_____	_____	_____ W x _____ H		_____
7 _____	_____	_____	_____ W x _____ H		_____



Double-Hung

Window and rough opening sizes

NOTES

Cottage or reverse cottage sash ratio available. Check rail is offset 6" up (cottage) or 6" down (reverse cottage) from equal sash location.

Cottage (Reverse Oriel):

CUSTOM WIDTHS:
17 3/4" to 48"

CUSTOM HEIGHTS:
42" to 76 3/4"

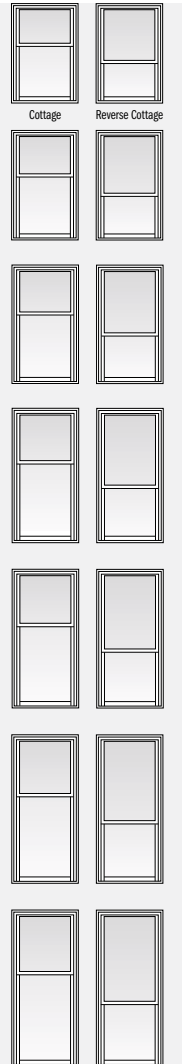
Reverse Cottage (Oriel):

CUSTOM WIDTHS:
17 3/4" to 48"

CUSTOM HEIGHTS:
42" to 76 3/4"

Exterior J-Channel Dimension	21 1/4"	23 1/4"	27 1/4"	31 1/4"	35 1/4"	37 1/4"	39 1/4"	43 1/4"	47 1/4"
Window Dimension	19 3/4"	21 3/4"	25 3/4"	29 3/4"	33 3/4"	35 3/4"	37 3/4"	41 3/4"	45 3/4"
Minimum Rough Opening	20 1/4"	22 1/4"	26 1/4"	30 1/4"	34 1/4"	36 1/4"	38 1/4"	42 1/4"	46 1/4"
Unobstructed Glass (lower sash only)	13 9/16"	15 9/16"	19 9/16"	23 9/16"	27 9/16"	29 9/16"	31 9/16"	35 9/16"	39 9/16"

CUSTOM HEIGHTS — 24" to 84"	CUSTOM WIDTHS — 16" to 52"									
	16"	18"	20"	24"	28"	30"	34"	36"	40"	42"
38 1/4"	16210	18210	20210	24210	28210	210210	30210	34210	38210	
42 1/4"	1632	1832	2032	2432	2832	21032	3032	3432	3832	
50 1/4"	16310	18310	20310	24310	28310	210310	30310	34310	38310	
54 1/4"	1642	1842	2042	2442	2842	21042	3042	3442	3842	
58 1/4"	1646	1846	2046	2446	2846	21046	3046°	3446°	3846°	
66 1/4"	1652	1852	2052	2452	2852°	21052°	3052°	3452°	3852°	
70 1/4"	1656	1856	2056	2456	2856°	21056	3056°	3456°	3856°	
74 1/4"	16510	18510	20510	24510°	28510°	210510°	30510°	34510°	38510°	
78 1/4"	1662	1862	2062	2462°	2862°	21062°	3062°	3462°	3862°	



• "Window Dimension" always refers to inside frame to frame dimension.
 • "Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
 ◇ Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24."



Single-Hung

Window and rough opening sizes

NOTES

Cottage or reverse cottage sash ratio available. Check rail is offset 6" up (cottage) or 6" down (reverse cottage) from equal sash location.

Cottage (Reverse Oriel):

CUSTOM WIDTHS: 16" to 52"

CUSTOM HEIGHTS: 42" to 72"

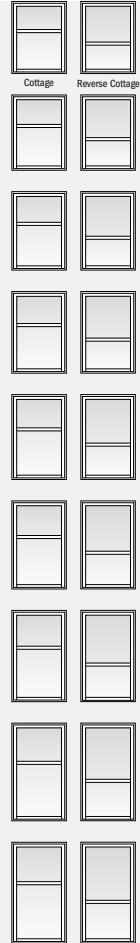
Reverse Cottage (Oriel):

CUSTOM WIDTHS: 16" to 52"

CUSTOM HEIGHTS: 42" to 84"

Exterior J-Channel Dimension	19"	21"	25"	29"	31"	33"	37"	39"	41"	43"	45"	49"
Window Dimension	18"	20"	24"	28"	30"	32"	36"	38"	40"	42"	44"	48"
Minimum Rough Opening	18 1/2"	20 1/2"	24 1/2"	28 1/2"	30 1/2"	32 1/2"	36 1/2"	38 1/2"	40 1/2"	42 1/2"	44 1/2"	48 1/2"
Unobstructed Glass (lower sash only)	13"	15"	19"	23"	25"	27"	31"	33"	35"	37"	39"	43"

CUSTOM HEIGHTS - 24" to 84"	CUSTOM WIDTHS - 16" to 52"											
	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"	38"	40"
37"	1630	1830	2030	2430	2630	2830	3030	3230	3430	3630	3830	4030
39"	1632	1832	2032	2432	2632	2832	3032	3232	3432	3632	3832	4032
45"	1638	1838	2038	2438	2638	2838	3038	3238	3438	3638	3838	4038
47"	16310	18310	20310	24310	26310	28310	30310	32310	34310	36310	38310	40310
49"	1640	1840	2040	2440	2640	2840	3040	3240	3440	3640	3840	4040
51"	1642	1842	2042	2442	2642	2842	3042	3242	3442	3642	3842	4042
53"	1644	1844	2044	2444	2644	2844	3044	3244	3444	3644	3844	4044
55"	1646	1846	2046	2446	2646	2846	3046	3246	3446	3646	3846	4046
57"	1648	1848	2048	2448	2648	2848	3048	3248	3448	3648	3848	4048
61"	1650	1850	2050	2450	2650	2850	3050	3250 [◇]	3450 [◇]	3650 [◇]	3850 [◇]	4050 [◇]
63"	1652	1852	2052	2452	2652	2852	3052 [◇]	3252 [◇]	3452 [◇]	3652 [◇]	3852 [◇]	4052 [◇]



• "Window Dimension" always refers to inside frame to frame dimension.
 • "Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
 ◇ Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24".



Single-Hung

Window and rough opening sizes

NOTES

Cottage or reverse cottage sash ratio available. Check rail is offset 6" up (cottage) or 6" down (reverse cottage) from equal sash location.

Cottage (Reverse Oriel):

CUSTOM WIDTHS: 17 1/2" to 52"

CUSTOM HEIGHTS: 42" to 72"

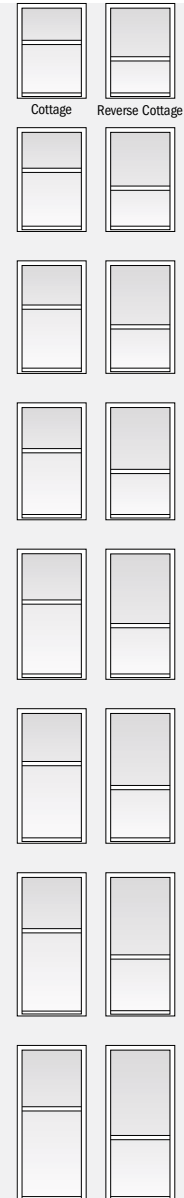
Reverse Cottage (Oriol):

CUSTOM WIDTHS: 17 1/2" to 52"

CUSTOM HEIGHTS: 42" to 84"

Window Dimension	23 3/8"	27 3/8"	31 3/8"	35 3/8"	37 3/8"	39 3/8"	43 3/8"
Minimum Rough Opening	23 7/8"	27 7/8"	31 7/8"	35 7/8"	37 7/8"	39 7/8"	43 7/8"
Unobstructed Glass (lower sash only)	19 1/16"	23 1/16"	27 1/16"	31 1/16"	33 1/16"	35 1/16"	39 1/16"

Window Dimension	CUSTOM WIDTHS – 17 1/2" to 52"						
	2030	2430	2830	3030	3230	3430	3830
35 1/4"							
43 1/4"							
47 1/4"							
51 1/4"							
53 1/4"							
59 1/4"							
61 1/4"							
65 1/4"							
71 1/4"							



CUSTOM HEIGHTS – 24" to 96"

35 1/4"
35 3/4"
14 3/4"
43 1/4"
43 3/4"
18 3/4"
47 1/4"
47 3/4"
20 3/4"
51 1/4"
51 3/4"
22 3/4"
53 1/4"
53 3/4"
23 3/4"
59 1/4"
59 3/4"
26 3/4"
61 1/4"
61 3/4"
27 3/4"
65 1/4"
65 3/4"
29 3/4"
71 1/4"
71 3/4"
32 3/4"

28

- "Window Dimension" always refers to inside frame to frame dimension.
- "Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
- ◊ Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24".



Awning & Casement

Window and rough opening sizes

Awning:

Optional Exterior J-Channel Dimension (not shown in elevations)	25 3/4"	30"	33 1/8"	37 9/16"	42 3/8"	49 5/8"
Window Dimension	24 1/8"	28 3/8"	31 1/2"	35 15/16"	40 3/4"	48"
Minimum Rough Opening	24 5/8"	28 7/8"	32"	36 7/16"	41 1/4"	48 1/2"
Unobstructed Glass	17 3/16"	21 7/16"	24 9/16"	29"	33 13/16"	41 1/16"

CUSTOM WIDTHS - 17 1/2" to 48"	CUSTOM HEIGHTS - 15" to 36"					
	2015	2415	2715	21115	3415	4015
18 5/8"						
22 1/8"						
25 3/4"						
30"						
33 1/8"						
37 9/16"						

Casement:

Optional Exterior J-Channel Dimension (not shown in elevations)	19 1/8"	22 1/8"	25 3/4"	30"	33 1/8"	35 1/8"	37 9/16"
Window Dimension	17 1/2"	20 1/2"	24 1/8"	28 3/8"	31 1/2"	33 1/2"	35 15/16"
Minimum Rough Opening	18"	21"	24 5/8"	28 7/8"	32"	34"	36 7/16"
Unobstructed Glass	10 5/8"	13 5/8"	17 1/4"	21 1/2"	24 5/8"	26 5/8"	29 1/16"

CUSTOM WIDTHS - 17 1/2" to 36"	CUSTOM HEIGHTS - 23" to 72"						
	1520	1820	2020	2420			
25 3/4"							
30"							
37 9/16"							
42 7/16"							
49 5/8"							
54 7/8"							
61 1/2"							
66 7/8"							
73 1/2"							



Gliding

Window and rough opening sizes

Exterior J-Channel
Dimension (70 series only)

Window Dimension


**Minimum
Rough Opening**

Unobstructed Glass
(70 series and single sash only)

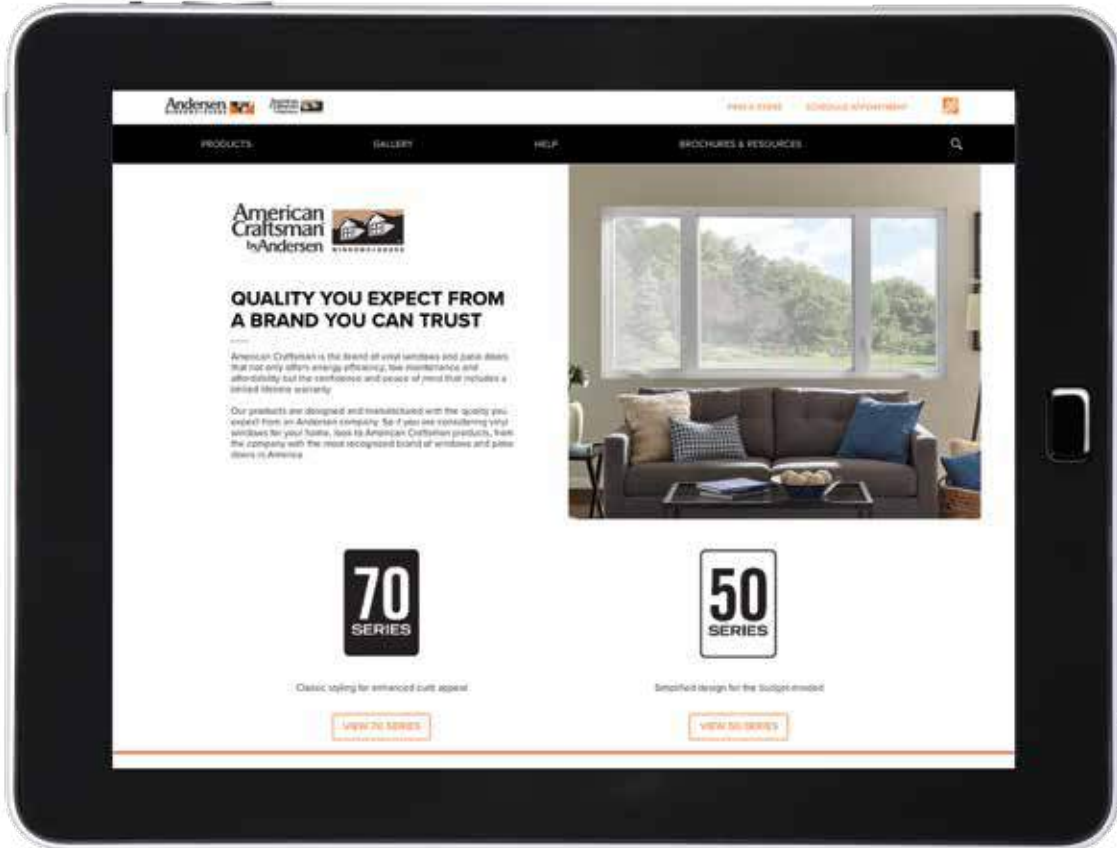
25"	37"	49"	51"	55"	61"	65"	73"
24"	36"	48"	50"	54"	60"	64"	72"
24 1/2"	36 1/2"	48 1/2"	50 1/2"	54 1/2"	60 1/2"	64 1/2"	72 1/2"
9 1/8"	15 1/8"	21 1/8"	22 1/8"	24 1/8"	27 1/8"	29 1/8"	33 1/8"

CUSTOM WIDTHS – 16" to 52"

<p>CUSTOM HEIGHTS – 24" to 84"</p> <p>20"</p> <p>24"</p> <p>36"</p> <p>42"</p> <p>44"</p> <p>46"</p> <p>48"</p> <p>50"</p> <p>52"</p> <p>54"</p> <p>60"</p>	2018 3018 4018 4218 4618 5018 5418 6018
	2020 3020 4020 4220 4620 5020 5420 6020
	2030 3030 4030 4230 4630 5030 5430 6030°
	2036 3036 4036 4236 4636 5036° 5436° 6036°
	2038 3038 4038 4238 4638° 5038° 5438° 6038°
	20310 30310 40310 42310 46310° 50310° 54310° 60310°
	2040 3040 4040 4240° 4640° 5040° 5440° 6040°
	3042 4042 4242° 4642° 5042° 5442° 6042°
	3044 4044 4244° 4644° 5044° 5444° 6044°
	3046 4046 4246° 4646° 5046° 5446° 6046°
3050 4050 4250° 4650° 5050° 5450° 6050°	

WINDOW & DOOR FEATURES		WINDOWS									DOORS			
		70 SERIES 70 Series Pro Double-Hung (Replacement)	50 SERIES 50 Series Double-Hung (Replacement)	70 SERIES 70 Series Double-Hung (Remodel/ New Construction)	70 SERIES 70 Series Single-Hung (Remodel/ New Construction)	50 SERIES 50 Series Single-Hung (Remodel/ New Construction)	70 SERIES 70 Series Casement (Replacement & Remodel/ New Construction)	70 SERIES 70 Series Awning (Replacement & Remodel/ New Construction)	70 SERIES 70 Series Gliding (Replacement & Remodel/ New Construction)	50 SERIES 50 Series Gliding (Replacement & Remodel/ New Construction)	70 SERIES 70 Series Gliding Patio Door	50 SERIES 50 Series Gliding Patio Door		
EXTERIOR/INTERIOR COLOR*														
	White	●	●	●	●	●	●	●	●	●	●	●	●	●
	Beige	●	●	●	●	●	●	●	●	●	●	●	●	●
	Sandtone	●		●	●		●	●	●			●		
	Dark Bronze*	●		●	●		●	●	●			●		●
GLASS														
	Low-E	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-E SmartSun	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-E Sun	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-E PassiveSun®	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-E PassiveSun® with HeatLock® Technology	●	●	●	●	●	●	●	●	●	●	●	●	●
	Clear Dual Pane	●	●	●	●	●	●	●	●	●	●	●	●	●
ENERGY STAR GLASS OPTIONS		●	●	●	●	●	●	●	●	●	●	●	●	●
GRILLES & BLINDS														
	Simulated Divided Light	●		●			●	●	●**			●		
	Finelight (Grilles Between the Glass)	●	●	●	●	●	●	●	●	●	●	●	●	●
	Blinds Between the Glass											●	●	
STORMDEFENSE™ PROTECTION				●	●		●	●	●***			●		
CUSTOM SIZES 		●	●	●	●	●	●	●				●		
WIRELESS OPEN CLOSED SENSORS		●		●	●		●	●	●			●		

*Dark bronze exterior units come with white interiors.
 ** Simulated divided light only available with replacement frame.
 *** StormDefense only available with replacement frame.



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