



South side of unit with 4-lite casement windows flanking front entrance. The dormer window on the left (with matching window on the right obscured by the tree, see below) each have screen-storm windows of aluminum. I do not know what was original, but the upper sashes do not stay up unless latched, and lower sashes are warped and do not function properly. I propose replacing with either single-lite awning type casement windows or 2-lite regular casement windows.





This is the first floor 4-lite casement window seen above to the left/west of entry. There is condensation between double glass of each lite and the frame has rotted lower left, see detail below. I was informed that replacing the frame and panels was necessary because Marvin no longer makes panels which can be used as replacements.





The north side of original brick structure with 1st floor casement windows and second floor dormer window. I don't know the original window style for the 2 front (south side) and 1 rear (north side) dormers. This recent replacement is vinyl and the color is taupe.



Best close-up – color is taupe – material is vinyl. I propose replacing with same type/style of window as front dormers.



This shows north wall with a 2-lite casement window to the west (in the office/TV room) which has a rotten sash which needs to be replaced, No other exterior work on this window. On the left is partially seen 4 lite casement north wall of living room which does not require repair.



On the right is the north wall living room 4 lite casement window. Center and left are the recently installed 2-lite vinyl sliding windows which I would like to replace, if necessary, with 2-lite casement windows.



View of 2nd floor in front shows obscured dormer to left, 2-lite casement facing east (in master bedroom), and double hung master bath window (detail below). I have no idea what style window would be considered original (this addition was made in 1985). I propose replacing the bathroom window with 1-lite casement window to match other windows.



Section 08 52 00
Wood Ultimate Casement/Awning Collection

Part 1 General

1.1 Section Includes

- A. Wood Ultimate Casement/Awning Crank Out Operators, Stationary and Picture units complete with hardware, glazing, weather strip, insect screen, removable screen, removable grille, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified anchors, trim and attachments
 - B. Wood Ultimate Casement/Awning Crank Out Bow and Bay units: Operators, Stationary and Picture units complete with hardware, glazing, weather strip, insect screen, removable screen, removable grille, grilles-between-the-glass, simulated divided lite, jamb extension, head/seat board and standard or specified anchors, trim and attachments
 - C. Wood Ultimate Casement Polygon (Stationary Units only) units complete with glazing, weather strip, removable grille, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified anchors, trim and attachments
 - D. Wood Ultimate Replacement Casement/Awning Window: Operators, Stationary and Picture units complete with hardware, glazing, weather strip, insect screen, removable screen, removable grille, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified anchors, trim and attachments
 - E. Wood Ultimate Replacement Casement Polygon (Stationary Units only) units complete with glazing, weather strip, removable grille, grilles-between-the-glass, simulated divided lite, jamb extension, 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 66 00 - Product Delivery
 - D. Section 01 68 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 Turnished by window manufacturer
 - J. Section 07 92 00 - Joint Sealant: Sill sealant and perimeter caulking

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1.3 References

- K. Section 09 90 00 - Painting and Coating: Paint and stain other than factory-applied finish
- 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. F2090-10: Standard Specifications for Windows Fall Prevention Devices with Emergency Escape (egress) Release Mechanisms
- B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
1. AAMA/WDMA/CSA 1011/ S.2/A440-05: Standard/Specification for window, doors and unit skylights
 2. AAMA/WDMA/CSA 1011/ S.2/A440-08, North American Fenestration, Standard/Specification for window, doors and skylights
 3. AAMA/WDMA/CSA 1011/ 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 Repellent Preservative Treatment for Millwork
 - D. Window and Door Manufacturer's Association (WDM/A): 1011/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 Gain Coefficients at Normal Incidence

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- 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: Factory-assembled Wood Ultimate Casement/Awning, operating exterior swing window on Casement and a top pivoting awning (stationary or picture units) as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- B. Description: Factory-assembled Wood Ultimate Replacement Casement/Awning, operating exterior swing window on Casement and a top pivoting awning (stationary or picture units) as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- C. Description: Factory-assembled Wood Ultimate Casement Polygon (stationary only) as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- D. Description: Factory-assembled Wood Ultimate Replacement Casement Polygon (stationary only) as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
- E. Description: Factory-assembled Wood Ultimate Casement Bow Assemblies as manufactured by Marvin Windows and Doors, 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
- F. Description: Factory-assembled Wood Ultimate Casement Bay Assemblies as manufactured by Marvin Windows and Doors, Warroad, Minnesota.
 - 1. Available 30 degree, 45 degree, 60 degree, and 90 degree
 - 2. Optional retrofit square jamb return – crank out units only
 - 3. 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 repellent, preservative treated in accordance with ANS/WDMA I.S.4.
 - B. Frame thickness: 1 3/16" (30mm)
 - C. Frame depths for full frame units have 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 depth for replacement frame units have an overall 3 3/4" (83mm) jamb for replacement application and 2 3/16" (56mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction.
 - E. Frame bevel: Standard is no bevel; optional available are 8 degree and 14 degree bevel (Replacement frame only)
 - F. In-Sash Casement Polygon: minimum frame angle 15°, minimum short leg of Rough Opening 6" (152mm)
- ### 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 3/8" and 2"
 - C. Slides and Rails: 2 1/16" (52mm)
 - D. Sash Options: Optional tall bottom rail: 3 9/16" (90mm)
 - E. Interior Sash Sticking
 - 1. Standard is: Ogee
 - 2. Optional: Square sticking and Ovoid profile

2.7 Weather Strip

- A. Weather strip at the frame is a hollow foamed material bent around 90 degree corner to allow for seamless corner joints
 - 1. Color: Beige
- B. Sash weather strip: Bulb shaped glass filled material
- C. Color: White, beige or black

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 Insect Screen

- A. Aluminum frame finish is available in Satin Taupe, Bronze, Stone White, or Ebony
- B. Screen mesh: Charcoal Fiberglass, Charcoal Aluminum White, Black Aluminum Wire, Bright Aluminum Wire, Bright Bronze Wire, High Transparency Mesh (H-Tran) Charcoal Fiberglass
- C. Optional Wood Screen Surround with H-Tran Fiberglass Screen. Species will match unit species.
- D. Optional Retractable Wood Screen with H-Tran Fiberglass Screen

2.10 Removable Interior Grilles

- A. 3/4" by 15/32" (19mm x 12mm), 1 1/8" x 15/32" (29mm x 12mm) wide – Pine only
 - 1. Pattern: Rectangular, Diamond, Custom lite layout
 - 2. Finish: match interior sash finish

2.11 Simulated Divided Lites (SDL)

- A. 5/8" (16mm) wide, 7/8" (22mm) wide, 1 1/8" (29mm), 1 15/16" (49mm), 2 1/32" (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: Ogee
- 2. Optional: Square
- E. Pattern: Rectangular, diamond, custom lite cut
- F. Finish: Match panel finish

2.12 Grilles-Between-the-Glass (GBG)

- A. Offered on 1" glazing only
- B. 1 1/16" (17mm) contoured aluminum bar
 - 1. Exterior Colors: Stone White. The use of different types of glazing may alter the exterior GBG color appearance
 - 2. Interior Colors: Stone White, Bronze, Pebble Gray, Sierra, White, Ebony (only available with Ebony interior)
- C. Optional flat aluminum spacer bar. Contact your Marvin representative.
- D. Pattern: Rectangular, Cottage, Custom lite layout

2.13 Authentic Divided Lites (ADL)

- A. 1 1/16" (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

2.14 Interior Shades (Not available for Polygon)

- A. Cellular shade is attached to the window via a removable surround system that houses the cellular shade system and screen.
 - 1. Shade cartridge is removable and replaceable
 - 2. Limited to 1 shade surround per sash opening
 - 3. Interior shades has the control option top down, bottom up
- B. Surround Frame
 - 1. Wood (Pine) wrapped extruded aluminum
 - a. Alternate species: Mahogany, Mixed Grain Douglas Fir, and Vertical Grain Douglas Fir

CLAD ULTIMATE CASEMENT/PUSH OUT CASEMENT

MO (mm)	1-4 1/2 (419)	1-6 1/2 (469)	1-8 1/2 (520)	2-1/2 (622)	2-2 1/2 (673)	2-4 1/2 (723)	2-6 1/2 (774)	2-8 1/2 (825)	3-1/2 (927)	3-4 1/2 (1028)
RO (mm)	1-5 (431)	1-7 (482)	1-9 (533)	2-1 (635)	2-3 (685)	2-5 (736)	2-7 (787)	2-9 (838)	3-1 (939)	3-5 (1041)
FS (mm)	1-4 (406)	1-6 (457)	1-8 (508)	2-0 (609)	2-2 (660)	2-4 (711)	2-6 (762)	2-8 (812)	3-0 (914)	3-4 (1016)
DLO (mm)	0-10 13/64 (259)	1-0 13/64 (310)	1-2 13/64 (361)	1-6 13/64 (462)	1-8 13/64 (513)	1-10 13/64 (564)	2-0 13/64 (615)	2-2 13/64 (666)	2-6 13/64 (767)	2-10 13/64 (869)
1-1 3/8 (399)										
1-1 5/8 (346)										
1-1 7/8 (333)										
1-1 7/8 (384)										
1-3 3/8 (390)	CUPCA1616	CUPCA1816	CUPCA2016	CUPCA2416	CUPCA2616	CUPCA2816	CUPCA3016	CUPCA3216	CUPCA3616	CUPCA4016
1-3 5/8 (396)										
1-3 7/8 (384)										
0-9 21/64 (237)										
1-5 3/8 (447)										
1-5 5/8 (447)	CUPCA1618	CUPCA1818	CUPCA2018	CUPCA2418	CUPCA2618	CUPCA2818	CUPCA3018	CUPCA3218	CUPCA3618	CUPCA4018
1-5 7/8 (434)										
1-5 7/8 (434)										
0-11 21/64 (288)										
1-7 3/8 (492)										
1-7 5/8 (498)	CUPCA1620	CUPCA1820	CUPCA2020	CUPCA2420	CUPCA2620	CUPCA2820	CUPCA3020	CUPCA3220	CUPCA3620	CUPCA4020
1-7 7/8 (485)										
1-7 7/8 (485)										
1-12 1/64 (339)										
1-11 3/8 (593)										
1-11 5/8 (600)	CUPCA1624	CUPCA1824	CUPCA2024	CUPCA2424	CUPCA2624	CUPCA2824	CUPCA3024	CUPCA3224	CUPCA3624	CUPCA4024
1-11 7/8 (587)										
1-11 7/8 (587)										
1-5 21/64 (440)										
2-3 3/8 (695)										
2-3 5/8 (701)	CUPCA1628	CUPCA1828	CUPCA2028	CUPCA2428	CUPCA2628	CUPCA2828	CUPCA3028	CUPCA3228	CUPCA3628	CUPCA4028
2-3 7/8 (688)										
2-3 7/8 (688)										
1-9 21/64 (542)										
2-7 3/8 (796)										
2-7 5/8 (803)	CUPCA1632	CUPCA1832	CUPCA2032	CUPCA2432	CUPCA2632	CUPCA2832	CUPCA3032	CUPCA3232	CUPCA3632	CUPCA4032 E
2-7 7/8 (790)										
2-7 7/8 (790)										
2-12 1/64 (643)										
2-11 3/8 (898)										
2-11 5/8 (904)	CUPCA1636	CUPCA1836	CUPCA2036	CUPCA2436	CUPCA2636	CUPCA2836	CUPCA3036	CUPCA3236	CUPCA3636 E	CUPCA4036 E
2-11 7/8 (892)										
2-11 7/8 (892)										
2-5 21/64 (745)										
3-3 3/8 (1000)										
3-3 5/8 (1006)	CUPCA1640	CUPCA1840	CUPCA2040	CUPCA2440	CUPCA2640	CUPCA2840	CUPCA3040 E	CUPCA3240 E	CUPCA3640 E	CUPCA4040 E
3-3 7/8 (993)										
2-9 21/64 (847)										

NOTES:

- Marvin® exclusive wash mode is not available on Ultimate Awnings, Ultimate Casement Round Tops or Ultimate Casement Windows less than 20" in width.
- Clad Ultimate Push Out Casement not available in frame size heights less than 15 1/8"
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".

E These windows meet national egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with a frame size of 25.2 sq. ft. and larger.

Clad Ultimate Casement: **CUCA**
Clad Ultimate Push Out Casement: **CUPCA**

CLAD ULTIMATE CASEMENT/PUSH OUT CASEMENT

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DLO (mm)	0-10 13/64 (259)	1-0 13/64 (310)	1-2 13/64 (361)	1-6 13/64 (462)	1-8 13/64 (513)	1-10 13/64 (564)	2-0 13/64 (615)	2-2 13/64 (666)	2-6 13/64 (767)	2-10 13/64 (869)

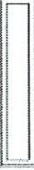







































3-7 3/8 (1101) 3-7 5/8 (1108) 3-7 7/8 (1095) 3-12 1/64 (9-48)										
	CUCA1644 CUPCA1644	CUCA1844 CUPCA1844	CUCA2044 CUPCA2044	CUCA2444 CUPCA2444	CUCA2644 CUPCA2644	CUCA2844 CUPCA2844E	CUCA3044E CUPCA3044E	CUCA3244E CUPCA3244E	CUCA3644E CUPCA3644E	CUCA4044E CUPCA4044E
3-11 3/8 (1203) 3-11 5/8 (1209) 3-11 7/8 (1196) 3-5 21/64 (1050)										
	CUCA1648 CUPCA1648	CUCA1848 CUPCA1848	CUCA2048 CUPCA2048	CUCA2448 CUPCA2448	CUCA2648 CUPCA2648	CUCA2848E CUPCA2848E	CUCA3048E CUPCA3048E	CUCA3248E CUPCA3248E	CUCA3648E CUPCA3648E	CUCA4048E CUPCA4048E
4-5 3/8 (1355) 4-5 5/8 (1362) 4-5 7/8 (1349) 3-11 21/64 (1202)										
	CUCA1654 CUPCA1654	CUCA1854 CUPCA1854	CUCA2054 CUPCA2054	CUCA2454 CUPCA2454	CUCA2654 CUPCA2654	CUCA2854E CUPCA2854E	CUCA3054E CUPCA3054E	CUCA3254E CUPCA3254E	CUCA3654E CUPCA3654E	CUCA4054E CUPCA4054E
4-7 3/8 (1406) 4-7 5/8 (1412) 4-7 7/8 (1400) 4-1 21/64 (1253)										
	CUCA1656 CUPCA1656	CUCA1856 CUPCA1856	CUCA2056 CUPCA2056	CUCA2456 CUPCA2456	CUCA2656 CUPCA2656	CUCA2856E CUPCA2856E	CUCA3056E CUPCA3056E	CUCA3256E CUPCA3256E	CUCA3656E CUPCA3656E	CUCA4056E CUPCA4056E
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 7/8 (1500) 4-5 21/64 (1355)										
	CUCA1660 CUPCA1660	CUCA1860 CUPCA1860	CUCA2060 CUPCA2060	CUCA2460 CUPCA2460	CUCA2660 CUPCA2660	CUCA2860E CUPCA2860E	CUCA3060E CUPCA3060E	CUCA3260E CUPCA3260E	CUCA3660E CUPCA3660E	CUCA4060E CUPCA4060E
5-3 3/8 (1609) 5-3 5/8 (1616) 5-3 7/8 (1603) 4-9 21/64 (1456)										
	CUCA1664 CUPCA1664	CUCA1864 CUPCA1864	CUCA2064 CUPCA2064	CUCA2464 CUPCA2464	CUCA2664 CUPCA2664	CUCA2864E CUPCA2864E	CUCA3064E CUPCA3064E	CUCA3264E CUPCA3264E	CUCA3664E CUPCA3664E	CUCA4064E CUPCA4064E
5-11 3/8 (1812) 5-11 5/8 (1819) 5-11 7/8 (1806) 5-5 21/64 (1659)										
	CUCA1672T CUPCA1672T	CUCA1872T CUPCA1872T	CUCA2072T CUPCA2072T	CUCA2472T CUPCA2472T	CUCA2672T CUPCA2672T	CUCA2872ET CUPCA2872ET	CUCA3072ET CUPCA3072ET	CUCA3272ET CUPCA3272ET	CUCA3672ET CUPCA3672ET	CUCA4072ET CUPCA4072ET

NOTES:

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 21 1/8" or larger and units with a frame size of 25.2 sq. ft. and larger.

CLAD ULTIMATE CASEMENT/PUSH OUT CASEMENT

MO (mm)	1-4 1/2 (419)	1-6 1/2 (469)	1-8 1/2 (520)	2-1/2 (622)	2-2 1/2 (673)	2-4 1/2 (723)	2-6 1/2 (774)	2-8 1/2 (825)	3-1/2 (927)	3-4 1/2 (1028)
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FS (mm)	1-4 (406)	1-6 (457)	1-8 (508)	2-0 (609)	2-2 (660)	2-4 (711)	2-6 (762)	2-8 (812)	3-0 (914)	3-4 (1016)
DLO (mm)	0-10 13/64 (259)	0-10 13/64 (310)	1-2 13/64 (361)	1-6 13/64 (462)	1-8 13/64 (513)	1-10 13/64 (564)	2-0 13/64 (615)	2-2 13/64 (666)	2-6 13/64 (767)	2-10 13/64 (869)

6-5 3/8 (1965) 6-5 5/8 (1971) 6-5 1/8 (1958) 5-11 21/64 (1812)										
	CUCA1678T CUPCA1678T	CUCA1878T CUPCA1878T	CUCA2078T CUPCA2078T	CUCA2478T CUPCA2478T	CUCA2678T CUPCA2678T	CUCA2878ET CUPCA2878ET	CUCA3078ET CUPCA3078ET	CUCA3278ET CUPCA3278ET	CUCA3678ET CUPCA3678ET	CUCA4078ET CUPCA4078ET
6-11 3/8 (2117) 6-11 5/8 (2124) 6-11 1/8 (2111) 6-5 21/64 (1964)										
	CUCA1684T CUPCA1684T	CUCA1884T CUPCA1884T	CUCA2084T CUPCA2084T	CUCA2484T CUPCA2484T	CUCA2684T CUPCA2684T	CUCA2884ET CUPCA2884ET	CUCA3084ET CUPCA3084ET	CUCA3284ET CUPCA3284ET	CUCA3684ET CUPCA3684ET	CUCA4084ET CUPCA4084ET
7-7 3/8 (2320) 7-7 5/8 (2327) 7-7 1/8 (2314) 7-1 21/64 (2167)										
	CUCA1692T CUPCA1692T	CUCA1892T CUPCA1892T	CUCA2092T CUPCA2092T	CUCA2492T CUPCA2492T	CUCA2692T CUPCA2692T	CUCA2892ET CUPCA2892ET	CUCA3092ET CUPCA3092ET	CUCA3292ET CUPCA3292ET	CUCA3692ET CUPCA3692ET	CUCA4092ET CUPCA4092ET
7-11 3/8 (2422) 7-11 5/8 (2428) 7-11 1/8 (2416) 7-5 21/64 (2269)										
	CUCA1696T CUPCA1696T	CUCA1896T CUPCA1896T	CUCA2096T CUPCA2096T	CUCA2496T CUPCA2496T	CUCA2696T CUPCA2696T	CUCA2896ET CUPCA2896ET	CUCA3096ET CUPCA3096ET	CUCA3296ET CUPCA3296ET	CUCA3696ET CUPCA3696ET	CUCA3696ET CUPCA3696ET

CLAD ULTIMATE CASEMENT STANDARD OPERATION AS VIEWED FROM THE OUTSIDE



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