



PRODUCT SERIES: LIBERTY

PRODUCT: LC-4000 (FOR REMODELING AND NEW CONSTRUCTION; (ALL WOOD) CASEMENT WINDOW)

PRODUCT SPECIFICATIONS

<p>FRAME</p>	<ul style="list-style-type: none"> • Head,sill and jamb frame pieces are constructed of 6/4 kiln dried western pine which are treated with a water repellant preservative to protect from rot and insects. Jamb,sill and head parts are glued, tenoned and nailed. • Frame thickness: 1-5/16" at jamb, head and sill. • Standard Jamb Depth: 4-9/16" • Available with optional foam wrap for air tight installation.
<p>SASH</p>	<ul style="list-style-type: none"> • Silicone glazed from the interior for a positive water tight seal; sash joints are glued, tenoned and nailed from the interior. • Standard sash are of the finest quality kiln dried solid select 6/4 Western Pine treated with a water repellent preservative. Optional mahogany also available. • Sash profile dimension is 2.0"
<p>EXTERIOR FINISH</p>	<ul style="list-style-type: none"> • Sash are of standard pine or optional mahogany,primed.
<p>INTERIOR FINISH</p>	<ul style="list-style-type: none"> • Standard in unfinished natural wood in specified species can be painted or stained. • Available white primed or prefinished white (pine only) . Contact TrimLine dealer for custom color details.
<p>HARDWARE</p>	<ul style="list-style-type: none"> • All hardware components are of a zinc alloy in matching finish available in: Polished brass, antique brass, chrome, brushed chrome, oil rubbed bronze, pewter and brushed nickel as well as white, earthtone and beige. • A multi-point locking system is utilized and consists of concealed two-bar stainless steel hinges as well as a dual arm operator and zinc alloy cover with folding handle which nests compactly into the cover making it virtually disappear.
<p>WEATHERSTRIPPING</p>	<ul style="list-style-type: none"> • Standard double weatherstripping system. The frame parts have a full surround bulb style weatherstripping. The sash is completely surrounded by Q-lon weatherstripping. Together they seal the sash to the frame providing superior thermal performance.
<p>GLASS</p>	<ul style="list-style-type: none"> • Standard clear 3/4" thick insulating glass, consisting of "double strength" 3mm annealed glass, 1/2" airspace using warm edge dual seal silicone foam Super Spacer, hermetically sealed with hot melt butyl. • All insulating glass units meets IGMA requirements as per ASTM E2190. • Other glazing options include Comfort Plus Low E with argon gas, obscure, tempered, laminated, bronze or grey tint.
<p>INSECT SCREENS</p>	<ul style="list-style-type: none"> • Standard full screen of .019 thick roll formed aluminum mounted in a wooden screen track. • Standard colors available: white, bronze, earthtone, beige, black and hunter green. Custom colors also available. • Charcoal fiberglass screen cloth (18 x 16 mesh) standard; optional screen mesh available in charcoal or aluminum color wire cloth or Better View[™] high transparency screening in charcoal cloth only.



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<p>GRILLES</p>	<ul style="list-style-type: none"> • Simulated Divided lites (SDL) In a classic putty glazed 5/8", 7/8", 1", 1-1/4" or 1-1/2" cPVC muntin profile permanently applied to exterior of the insulated glass. Double faced tape is used to apply muntin to the glass which first is prepared with a saline type glass bonding and coupling agent before muntin is applied to help ensure lasting adhesion. An optional between the glass dark bronze shadow bar is available for an authentic true divided lite look. Interior wood in pine (standard) or mahogany matching the interior wood species in either permanent or removable style 5/8" or 7/8" wide divided lite patterns only. Removable style not available in 1", 1-1/4", 1-1/2" widths. • Removable wood grilles: available in 5/8" or 7/8" wide classic double stepped profile matching window interior wood species in pine (standard) or mahogany in a wide array of standard or custom divided lite patterns only. • In-glass aluminum "GBG" (grilles between the glass) muntins are available in 5/8" flat profile or 3/4" sculptured profile in all standard exterior cladding color finishes for dust free easy cleaning. Available in either divided lite or diamond patterns. • Combo wood-aluminum: 5/8" flat or 3/4" sculptured in-glass aluminum muntin with either permanently applied (see SDL) or removable wooden interior wood grille in pine (standard) or mahogany. 																																							
<p>ACCESSORIES</p>	<ul style="list-style-type: none"> • A standard zero clearance mull is used for factory mulling of windows without increasing the combined unit dimension of the windows mulled. • Optional 2", 4" and 6" exterior spread mullion covers are also available with internal support blocking; interior wooden mull covers in pine (standard) or mahogany as specified are provided loose. • 11/16" interior wooden jamb extension in pine (standard) or mahogany are factory applied to the perimeter of the window and are available in custom sizes to provide overall jambs depth up to 9". 																																							
<p>WARRANTY</p>	<ul style="list-style-type: none"> • Limited 10 year. • 20 years non-prorated on insulating glass. • Non-square, decorative/leaded glass 5 years. 																																							
<p>PERFORMANCE</p>	<table border="1"> <thead> <tr> <th colspan="6">Thermal Ratings</th> </tr> <tr> <th><u>Glazing</u></th> <th><u>U-Value</u></th> <th><u>R-Value</u></th> <th><u>SHGC</u></th> <th><u>V.T.</u></th> <th><u>CRF</u></th> </tr> </thead> <tbody> <tr> <td>Low E/Argon</td> <td>.48</td> <td>2.08</td> <td>.50</td> <td>.51</td> <td>42</td> </tr> <tr> <td>Low E/Argon</td> <td>.33</td> <td>3.03</td> <td>.25</td> <td>.44</td> <td>57</td> </tr> <tr> <td>Low E/Argon/IS-15</td> <td>.30</td> <td>3.49</td> <td>.24</td> <td>.41</td> <td>45</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Structural Ratings</th> </tr> <tr> <th><u>Test Specimen</u></th> <th><u>Air Infiltration</u></th> <th><u>Performance Class-Grade</u></th> </tr> </thead> <tbody> <tr> <td>32"x60" (812.8mm x 1524.0mm)</td> <td><.01 cfm/ft²</td> <td>CW-70</td> </tr> </tbody> </table>	Thermal Ratings						<u>Glazing</u>	<u>U-Value</u>	<u>R-Value</u>	<u>SHGC</u>	<u>V.T.</u>	<u>CRF</u>	Low E/Argon	.48	2.08	.50	.51	42	Low E/Argon	.33	3.03	.25	.44	57	Low E/Argon/IS-15	.30	3.49	.24	.41	45	Structural Ratings			<u>Test Specimen</u>	<u>Air Infiltration</u>	<u>Performance Class-Grade</u>	32"x60" (812.8mm x 1524.0mm)	<.01 cfm/ft ²	CW-70
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<p>TEST STANDARD</p>	<ul style="list-style-type: none"> • NFRC Certified: meets or exceeds rating and labeing requirements as per NFRC 100, 200 and 500 test procedures. • AMMA/WDMA/CSA 101/I.S.2/A440-05 																																							