

Verification of logo information and requirements

All Cardinal LG laminated products are tested and certified pursuant to the safety requirements of the Consumer Products Safety Commission, CPSC 16CFR1201 and with the American National Standards Institute, ANSI Z97.1-2004.

Cardinal LG laminated products comply with the requirements of the Safety Glazing Certification Counsel, or SGCC, which is an independent and voluntary industry-administered testing and certification “clearing-house”. The SGCC has specific directives ensuring that participating manufacturers remain in compliance with either the ANSI and/or CPSC safety certification requirements. Safety glazing certified through the SGCC will be assigned a specific control number as well as other information pertaining to the product as certified.

Cardinal LG logo information pertains to the safety labeling requirements of the CPSC, ANSI, and SGCC which requires a permanent mark on the glazing that contains the SGCC number, required ANSI and CPSC information, nominal thickness of the product, and the letter U or L indicating certified size.

In addition, Cardinal LG logos will contain manufacturing facility information (CLG-1 for Amery and CLG-2 for Ocala) as well as information pertaining to quarter and year of manufacture.

SGCC certification guidelines, as listed in the SGCC Certified Products Directory, specifically discuss the handling of variations in the manufacture of certified products.

Under the section on Laminated Glass, instruction L.1 states: “Certification of regular laminated glass will also cover tinted, heat absorbing, and coated glasses, and clear or tinted interlayer, both flat and bent, of the same or nominal thickness.”

Instruction L.4 states: When a laminated glass is certified, other laminated glasses having the same thickness or thicknesses of glass and a greater thickness of plastic interlayer will be considered to be of equal nominal thickness and will be included in the certification.”

Instruction L.8 states: When a laminated annealed glass is certified, other laminated glasses having the same thickness or thicknesses of heat strengthened or tempered glass and the same or greater thickness of plastic interlayer of the same chemical composition will be considered to be included in the certification.”

There is no provision in the safety glazing documentation pertaining to certification or logo requirements in the event of a laminated glass product consisting of two lites of uneven thickness. Standard practice has been to use the certification and logo information relating to the thinner lite in the mix when dealing with laminated products manufactured with unbalanced lite thicknesses.

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Impact glazing manufactured for Dade County, FL. applications requires specific information relating to the manufacturer's Dade County Notice Of Acceptance, or NOA, linking to the

specific material used in the impact product to be contained in the logo. Dade County does not require specific safety glazing information in the logo for laminated glass used in impact products.

There is no national requirement for laminated glass, manufactured exclusively as impact glazing and for use in areas that do not mandate Dade County certification, to have any logo information related specifically to impact resistance, nor is there a necessity for product manufacture information. There is also no requirement to certify the product as a safety glazing if that is not the manufacturer's intent – and subsequently no prerequisite for safety glazing information in a logo.

Cardinal LG considers SeaStorm impact glazing to be a natural progression of increased product performance from the primary requirement of laminated safety glazing. Consequently, all Cardinal LG laminated glass contains safety glazing information as part of the basic logo with any additions to the logo, specific to either code or customer requirements or both, as an adjunct to the basic safety requirement of the product.

All Cardinal LG SeaStorm impact glazing will contain Dade County required NOA information in the logo regardless of the ultimate geographical location of the glazing following installation in a window or door by the window or door manufacturer. This enables the manufacturer, as well as code officials or the homeowner, as needed, to identify the product as impact resistant. At the same time, the laminated glass will have the basic safety glazing information as mandated by the governing bodies noted previously.

When viewing the logo in the interest of determining the laminated product's suitability for impact protection, the window manufacturer, code official, or homeowner must be aware that the specific safety glazing information relates to the basic requirement of the glass as safety glazing and not to the requirement of an impact product. For example, the "nominal thickness" of the laminated lite pertains specifically to, and is in accordance with, section L.4 of the SGCC manual and may not reflect the actual thickness of the overall laminated glazing on site.

SeaStorm impact resistant glazing will read either "DCA" or "MDCA" with additional interlayer information in keeping with Dade County NOA requirements.

The presence of the specific Dade County information on the logo is the assurance that the product meets or exceeds the applicable impact requirement.

Cardinal LG does not include designations in their laminated glass logos that specify whether Heat-Strengthened or Tempered glass was used in the construction as no governing body has deemed it necessary. However, if Tempered glass is used in the construction, each Tempered lite will have its own, individual, Tempered logo.