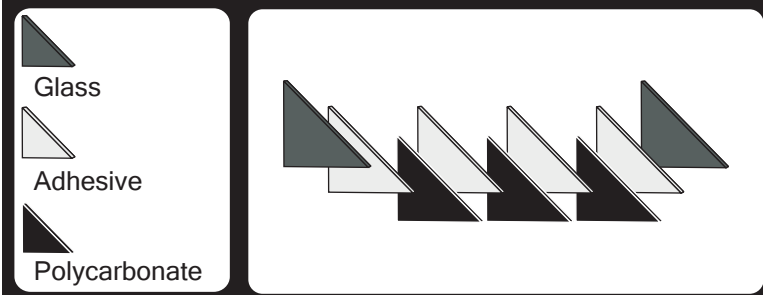




# SMARTGARD – GCPHG2216

## CONTAINMENT GRADE SYMMETRICAL LAMINATE

## PRODUCT DETAILS\*



PART NUMBER	SMARTGARD-GCPHG2216
SPALL TYPE	LOW-SPALL
WEIGHT	11.850 Lb/SqFt
THICKNESS	1.33 in
MAX SIZE	60 X 96 in
SMARTGLASS OPTION AVAIL	YES

\*Represents typical properties, not intended for specification

## TESTING PROTOCOLS

STANDARD USED	RESULT
ASTM F1915	GRADE 1
WMFL Level – 60 Minute Physical Attack	PASSED
ASTM F1233	CLASS III – STEP 27
BALLISTICS: 25 ROUNDS FROM .44 MAG AT 25 FT, 240 GRAIN, JSP AMMUNITION, VELOCITIES BETWEEN 1416 – 1471	NO PENETRATION / SPALL ONLY

## DESCRIPTION

SMARTGARD GCPHG2216 is designed for both containment and ballistics. A modification to SMARTGARD GCPHG1616, it is a symmetrical composite of two ¼” layers of clear or tinted glass, clear adhesive interlayer’s, and a high quality MAKROLON® HYGARD CG750 laminated polycarbonate core.. MAKROLON® CG750 sheet is a three ply laminated polycarbonate constructed with two 1/8” and one 1/2” layers of MAKROLON® polycarbonate sheet bonded by 2 adhesive interlayer’s. Available glass options: float, annealed, heat strengthened, tempered, low E, reflective, and wire.

If you have a need for modification or customization to this composite please contact us at (413) 637-5001. Please note that modifications utilizing some types of glass or increasing the gauge of the glass will increase the overall thickness and weight of this product.

The SMARTGARD GCPHG2216 has an overall nominal thickness of 1.33” in.

## STANDARDS

ANSI Z97.1, ASTM C 1036  
 ASTM 1036-06, ASTM F1233  
 ASTM 1349, ASTM 1048  
 UL 972,  
 CPSC16 CFR 1201 I & II

## GLAZING INFORMATION

The LTI Group strongly suggests the use of a suitable structural security framing with an appropriate protection rating.

A minimum framing engagement of one (1) inch is recommended, (Larger lites may require deeper engagements.)

It is imperative to the life and durability of certain composite types that compatible sealant or gasket material is used on both sides of the laminate. An appropriate sealant solution can be specified by LTI if required.

The LTI Group produces the finest glass and composite laminates in the world, proper care during installation will ensure years of superior performance.

LTI SMART GLASS, INC.

LENOX, MASS. +1.413.637.5001  
 PITTSFIELD, MASS +1.413.637.5001

## WARRANTY

Limited Warranty- LTI warranties the SMARTGARD-GCPHG2216 laminate system against plastic and glass delamination for a 5 year period from date of shipment see additional warranty details online at [www.LTISG.com](http://www.LTISG.com).

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