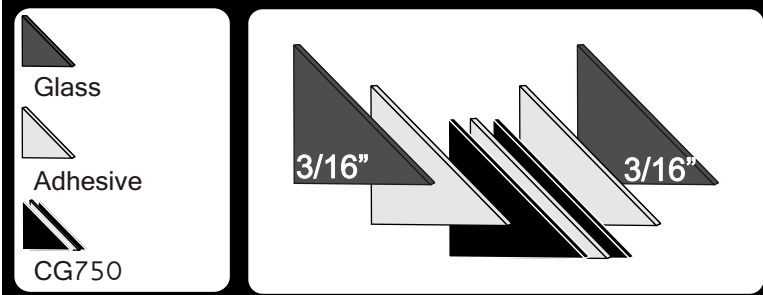




# SMARTGARD – GCPHG2016

## CONTAINMENT GRADE SYMMETRICAL LAMINATE

## PRODUCT DETAILS\*



PART NUMBER	SMARTGARD-GCPHG2016
SPALL TYPE	LOW-SPALL
WEIGHT	10.75 Lb/SqFt
THICKNESS	1.255 in
MAX SIZE	60 X 96 in
SMARTGLASS OPTION AVAIL	YES

\*Represents typical properties, not intended for specification

## TESTING PROTOCOLS

STANDARD USED	RESULT
HPW -T.P 0500.03 Level III Forced Entry STP:26	PASSED
UL752 .357Mag 3-Shot	PASSED / NO PENETRATION / LOW-SPALL
WMFL Level II – 60 Minute Physical Attack	PASSED
ASTM F1233 Class IV	STEP 26
ASTM F1915-03	GRADE 1

## DESCRIPTION

A symmetrical composite of two .177” clear or tinted glass outer lites, clear adhesive interlayer's, and a high quality MAKROLON® HYGARD CG750 laminated polycarbonate core. All LTI security products are custom manufactured to be utilized in secure environments where consistent quality and optimum optical clarity are priorities.

MAKROLON® HYGARD CG750 sheet is a three ply laminated polycarbonate constructed with two 1/8” and one 1/2” layers of MAKROLON® polycarbonate sheet bonded by an adhesive interlayer. MAKROLON® HYGARD CG750 sheet satisfies the requirements of ASTM F1915-Grade 1.

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.

## STANDARDS

ASTM C 1036-91 for float glass  
 ASTM C 1349 for laminate quality  
 ASTM C1048 – Standard Specification for Heat-Treated Flat Glass Kind HS, Kind FT Coated and Uncoated Glass.  
 ANSI Z97.1, CPSC 16 CFR 1201 Cat I & 2 for Impact

## 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.

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 PITTSFIELD, MASS +1.413.637.5001

## WARRANTY

Limited Warranty- LTI warranties the SMARTGARD-GCPHG2016 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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