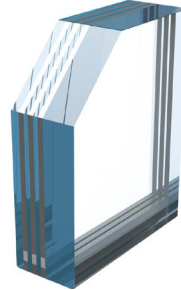


# CONTRAFLAM® ULTIMAX 90

Fire-Rated Clear Detention and Bullet-Resistant Safety Glass

## CLASSIFICATION

## PRODUCT FEATURES



## TECHNICAL SPECIFICATIONS

Fire Rating	90 Minutes
US Testing	Listed and labeled with Underwriters Laboratories Inc. File #R14515, #R22066 Tested in accordance with ASTM E119, NFPA 251, 252, 257, UL 263, UL 9, UL 10B, UL 10C
Canadian Testing	CAN/ULC-S101, S104, S106
Impact Safety Rating	CPSC 16CFR Part 1201 (Categories I & II), CAN/CGSB-12.1-M, ANSI Z97.1
Applications	Doors, Windows, Transoms, Side lites

## AUTHORIZED DIMENSIONS

ULTIMAX System		Protection Level	Total Nominal Glass Thickness	Total Glass Weight (lbs./SF)	Dimensions					
Category	Product Code				Doors			Window/Transom/Side lite		
					Max. Exposed		Max. Exposed Area (sq in.)	Max. Exposed		Max. Exposed Area (sq in.)
					Width	Height		Width	Height	
Detention	90-2119-V	- HP White Level I-TP-0500.02	1-11/16	17.10	35-3/4	88-9/16	3,166	60	88-9/16	3,174
	90-2117-V	- HP White Level I-TP-0500.02 - ASTM 1915 Grade 4	1-13/16	17.53	35-3/4	88-9/16	3,166	60	88-9/16	3,174
	90-SP019-V	- HP White Level III-TP-0500.02 - ASTM 1915 Grade 2 - WMFL Level III	2	18.26	35-3/4	88-9/16	3,166	60	88-9/16	3,174
	90-SP028-V	- HP White Level IV-TP-0500.02 - ASTM 1915 Grade 1 - WMFL Level II	2-1/4	19.86	35-3/4	88-9/16	3,166	60	88-9/16	3,174
	90-SP035	- ASTM 1915 Grade 1 - WMFL Level I	2-1/2	23.00	35-3/4	88-9/16	3,166	60	88-9/16	3,174
Bullet Resistance	90-SP175	- UL 752 Level 1	2	19.84	35-3/4	60	2,145	48	60	2,880
	90-SP311	- UL 752 Level 3	2-3/8	24.89	35-3/4	84	3,003	60	84	3,174
	90-SP412	- UL 752 Level 4 - NIJ Level IIA	2-7/16	26.74	35-3/4	84	3,003	60	84	3,174
Burglary	90-SL916U	- UL 972 Burglary Resistant	1-13/16	19.20	35-3/4	88-9/16	3,166	60	88-9/16	3,174

CONTRAFLAM Ultimax combines the broadest range of fire and security glazing on the US market. A bullet resistance rating of level 8 can be achieved as either a monolithic or IGU make-up. Use for interior or exterior applications. NOTE: Contraflam products are available with DIAMANT® Low Iron.

Rev. 1.1.16 The information published in this document is correct at the time of going to press. Such information may be subject to change and products may be modified.