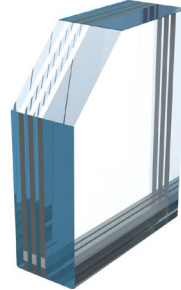


KERALITE® ULTRA ULTIMAX 90

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 NFPA 80, NFPA 252, NFPA 257, UL 10B, UL 10C
Canadian Testing	CAN/ULC-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	KL90-2119-V	- HP White Level I-TP-0500.02	1	11.80	46-1/2	76	2736	46	76	2736
	KL90-2117-V	- HP White Level I-TP-0500.02 - ASTM 1915 Grade 4	1-1/8	12.23	46-1/2	76	2736	46	76	2736
	KL90-SP019-V	- HP White Level III-TP-0500.02 - ASTM 1915 Grade 2 - WMFL Level III	1-5/16	12.96	46-1/2	76	2736	46	76	2736
	KL90-SP028-V	- HP White Level IV-TP-0500.02 - ASTM 1915 Grade 1 - WMFL Level II	1-9/16	14.56	46-1/2	76	2736	46	76	2736
	KL90-SP035	- ASTM 1915 Grade 1 - WMFL Level I	1-13/16	17.70	46-1/2	76	2736	46	76	2736
Bullet Resistance	KL90-SP175	- UL 752 Level 1	1-5/16	14.54	46-1/2	60	2736	46	60	2736
	KL90-SP311	- UL 752 Level 3	1-11/16	19.59	46-1/2	76	2736	46	76	2736
	KL90-SP412	- UL 752 Level 4 - NIJ Level IIA	1-3/4	21.44	46-1/2	76	2736	46	76	2736
Burglary	KL90-SL916U	- UL 972 Burglary Resistant	1-1/8	13.90	46-1/2	76	2736	46	76	2736

KERALITE Ultra 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.

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.