





Security Glazing							
PRODUCT NAME:	LEXGARD MP1000						
PRODUCT CODE:	MP1000						
CONSTRUCTION:		his product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion esistant coatings on both sides. Exact Construction is Proprietary.					
PERFORMANCE TESTING:	ASTM F1 233 Class V; HF	STM F1 233 Class V; HP White Level IV-TP-0500.02					
	UL752-Level 2-UL Listed	File BP844; .357 Magnur	n Jacketed Lead Soft Po	int; No Spall, No Penetration			
THICKNESS:	1.03"						
THICKNESS TOLERANCE:	.930-1.130"						
WEIGHT:	6.41 lbs./ft2						
MINIMUM SIZE:	12x12"						
MAXIMUM SIZE:	60x96"						
OPTIONS:	including transparent mi translucent interlayers. I	irror, bird friendly, insula Please note some options	ting glass units (IGU), so may increase OA thick	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase			
	0.65	0.88	0.68	info available at the time			
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172	ANSI Z97.1/CPSC	: 16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorpor weep system to allow moisture and water to escape the glazing channel.						
	Recommended Clearance						
	Face: 1/8" per side	e					
	Edge: 3/8"						
	Bite: 1"						

















PRODUCT NAME:	LEXGARD MP750					
PRODUCT CODE:	MP750					
CONSTRUCTION:	The state of the s	This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	UL 752-Level 1-UL Listed - I	File BP844; 9mm Full Metal	Copper Jacket with Lead (	Core; No Spall, No Penetration		
THICKNESS:	.766"					
THICKNESS TOLERANCE:	.960842"					
WEIGHT:	4.76 lbs/ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.8	0.78	0.67	info available at the time		
APPLICABLE STANDARDS:						
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	nerica (GANA) Glazing and oisture and water to escand water to escand es	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Bite: 1"					















#### **PRODUCT SPECIFICATIONS**



PRODUCT NAME:	LEXGARD MPC 375					
DDODLICT CODE.						
PRODUCT CODE:	MPC 375	MPC 375				
CONSTRUCTION:		This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	ASTM F1 233 Class III AS	TM 1915 Grade 3; HP Wh	ite Level II-TP-0500.02	WMFL Level III		
THICKNESS:	.369"					
THICKNESS TOLERANCE:	.332406"					
WEIGHT:	2.29 lbs/ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	including transparent mi		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.77	0.92	0.84	info available at the time		
APPLICABLE STANDARDS:						
SINGLE RESPONSIBILITY:						
SINGLE RESPONSIBILITY.	' '	LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Program that ensures or  All glass should be instal Association of North Am	ne firm has handled and in led in accordance with the lerica (GANA) Glazing and oisture and water to esca	s accountable for all ph e guidelines set forth i l Sealant Manuals. Glaz	n the current edition of the Glassing systems should incorporate a		













616 Selfield Road - Selma, AL 36703





PRODUCT NAME:	LEXGARD MPC 500						
PRODUCT CODE:	MPC 500						
CONSTRUCTION:	This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.						
PERFORMANCE TESTING:	ASTM F1233 Class III AST	ASTM F1233 Class III ASTM 1915 Grade 2; HP White Level II-TP-0500.02 WMFL Level II					
	HP White Level A-TP-0500.	02; .38 Special handgun, 3 s	shots in 8" Circle, 158 grain	n lead, 20 feet; No penetration.			
THICKNESS:	.486"						
THICKNESS TOLERANCE:	.138534"						
WEIGHT:	3.04 lbs/ft2						
MINIMUM SIZE:	12x12"						
MAXIMUM SIZE:	60x96"						
OPTIONS:	including transparent mi		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase			
	0.72	0.90	0.77	info available at the time			
APPLICABLE STANDARDS:							
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a			











616 Selfield Road - Selma, AL 36703





#### **PRODUCT SPECIFICATIONS**



PRODUCT NAME:	LEXGARD RC 750					
PRODUCT CODE:	RC 750					
CONSTRUCTION:	· ·	This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	ASTM F1233 Class IV; AS	TM 1915 Grade 1; HP W	nite Level III-TP-0500.02	2		
THICKNESS:	.766"					
THICKNESS TOLERANCE:	.690842"					
WEIGHT:	4.76 lbs/ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	including transparent m		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.65	0.88	0.68	info available at the time		
APPLICABLE STANDARDS:						
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to escand	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		











616 Selfield Road - Selma, AL 36703





## ISOCLIMA PRODUCT SPECIFICATIONS



Security diazing						
PRODUCT NAME:	LEXGARD RS 1250					
PRODUCT CODE:	RS 1250					
CONSTRUCTION:	'	This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	UL 752-Level 60-L Listed-Fil	e BP844; 9mm Uzi Full Met	al Copper Jacket with Lead	Core; No Spall, No Penetration		
THICKNESS:	1.28"					
THICKNESS TOLERANCE:	1.15-1.41"					
WEIGHT:	7.97 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:		rror, bird friendly, insula	ting glass units (IGU), sw	i) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.71	Solar Heat Gain Coefficient (SHGC) 0.75	U-Value (BTU/hr*ft² * °F) 0.55	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172		16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security	Glazing products are cov	vered by our Single Responsibility™		
INSTALLATION:	_	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		

















Security Glazing						
PRODUCT NAME:	LEXGARD SP 1250					
PRODUCT CODE:	SP 1250					
CONSTRUCTION:	· ·	This product is a laimated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	ASTM F1233 Class V; AS	TM 1915 Grade 1; HP Wh	ite Level V-TP-0500.02 \	WMFL Level I		
	UL752-Level 3-UL Listed-Fil	e BP844; .44 magnum Lead	Semi-Wadcutter Gas Chec	ked; No Spall, No Penetration		
THICKNESS:	1.28"					
THICKNESS TOLERANCE:	1.15-1.41"					
WEIGHT:	7.97 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	including transparent m		ting glass units (IGU), sv	glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.63	0.83	0.53	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am	nerica (GANA) Glazing and oisture and water to escare:	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
	Bite: 1"					



12/10/2025













#### **PRODUCT SPECIFICATIONS**



PRODUCT NAME:	3/8" CHILDGARD®	3/8" CHILDGARD®				
PRODUCT CODE:	CHILDGARD					
CONSTRUCTION:	CHILDGARD security glaz	zing is laminated safety g	ass constructed using a	unique arrangement of transparent		
	materials. Exact Constru	ction is Proprietary.				
PERFORMANCE TESTING:	FORCED ENTRY:					
	ASTM F3561-22 Level 8					
	ASTM F1233-08 Class 1.4	4 Body Passage / Class 1.3	3 Contraband			
	5-aa1 rated to 10 minute	es 1 seconds				
	UL 972 Listed for Burgla	ry Resistance				
THICKNESS: THICKNESS	.404"					
TOLERANCE: WEIGHT:	.380"426"					
MINIMUM SIZE:	4.18 lbs/ft²					
MAXIMUM SIZE:	10" x 10"					
OPTIONS:	NS: 60 x 96" or 40" x 102"					
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass					
	- '	•		witchable smart glass, tinted and		
	translucent interlayers.	Please note some options	may increase OA thick	ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	0.819	0.731	0.921	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/0	CPSC 16 CFR 1201 (Cat I & II )		
	ASTM C1048					
SINGLE RESPONSIBILITY:	The state of the s	ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m Recommended Clearance Face: 1/8" per sid	nerica (GANA) Glazing and objective and water to escand water to escand the control of the contr	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Edge: 1/4"					
	Bite: 1/2"					

















Security Glazing					
PRODUCT NAME:	9/16" CHILDGARD™ 2	118			
PRODUCT CODE:	CHILDGARD 2118				
CONSTRUCTION:	This is a glass laminate, r	no exposed plastic (polyc	arbonate, PET, etc.). Exa	act Construction is Proprietary.	
PERFORMANCE TESTING:	FORCED ENTRY: ASTM F3561-22 Level 8 ASTM F1233-08 Class 1.4 5-aa1 rated for 16 minut		3 Contraband		
	cial. Spall, No Penetration)				
THICKNESS: THICKNESS	.527"				
TOLERANCE: WEIGHT:	.479"573"				
MINIMUM SIZE:	4.95 lbs/ft <sup>2</sup>				
MAXIMUM SIZE:	10" x 10"				
		rror, bird friendly, insula	ting glass units (IGU), sw	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.807	Solar Heat Gain Coefficient (SHGC) 0.726	U-Value (BTU/hr*ft² * °F) 0.841	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures on		= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:		erica (GANA) Glazing and oisture and water to escant in the case of the case o	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a	















#### PRODUCT SPECIFICATIONS



PRODUCT NAME:	1.154" Solarban™ 60 on Gray #2 FT (3/8" Black LPD) CHILDGARD™ 2118

**CHILDGARD 2118 IGU** PRODUCT CODE:

**CONSTRUCTION:** This is a glass laminate IGU, no exposed plastic (polycarbonate, PET, etc.). Exact Construction is Proprietary.

PERFORMANCE TESTING: FORCED ENTRY:

ASTM F3561-22 Level 8

ASTM F1233-08 Class 1.4 Body Passage / Class 1.3 Contraband

5-aa1 rated for 16 minutes

**BULLET RESISTANT:** 

NIJ 0108.01 Level II 5 shots 9mm FMJ Protection

NIJ 0108.01 Level IIA 5 shots 9mm FMJ Protection

Tested to H.P. White Level A for Bullet Resistance (3 shots from a .38 Special. Spall, No Penetration)

1.154" THICKNESS: THICKNESS

TOLERANCE:

MAXIMUM

1.088"-1.217"

WEIGHT: 8.22 lbs/ft<sup>2</sup> MINIMUM SIZE:

SIZE:

12x12"

**OPTIONS:** 60 x 96"

> Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. Please note some options may increase OA thickness.

		ACTN4 C1026	ACTN 4 C1 2 4 O	/	16.050.1001.10.111
		0.321	0.252	0.298	info available at the time
		Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase
TECH	INICAL DATA:	Visible Light	Solar Heat Gain	U-Value	

**ASTM C1036 ASTM C1349** APPLICABLE STANDARDS: ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)

**ASTM C1048 ASTM C1422** 

Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ SINGLE RESPONSIBILITY: Program that ensures one firm has handled and is accountable for all phases of manufacturing.

**INSTALLATION:** All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass

Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a

weep system to allow moisture and water to escape the glazing channel.

Recommended Clearance:

Face: 1/8" per side

Edge: 1/4" Bite: 1/2"



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Security Glazing				
PRODUCT NAME:	9/16" ACCESSGARD™	2118		
PRODUCT CODE:	ACCESSGARD 2118			
CONSTRUCTION:	This is a glass laminate, r	no exposed plastic (polyc	arbonate, PET, etc.). Exa	act Construction is Proprietary.
PERFORMANCE TESTING:	FORCED ENTRY:			
	ASTM F3561-22 Level 8			
	ASTM F1233-08 Class 1.4	4 Body Passage / Class 1.3	3 Contraband	
	5-aa1 rated for 16 minut	es		
	BULLET RESISTANT:			
	NIJ 0108.01 Level II 5 sho	ats Omm EMI Protection		
		nots 9mm FMJ Protection	<b>.</b>	
				ecial. Spall, No Penetration)
THICKNESS: THICKNESS	.527"	er A for Bullet Resistance	(3 3110t3 110111 a .36 3pe	eciai. Spail, No Fellettation)
TOLERANCE: WEIGHT:	.479"573"			
MINIMUM SIZE:	4.95 lbs/ft <sup>2</sup>			
MAXIMUM SIZE:	10" x 10"			
OPTIONS:	60 x 96"			
		rror, bird friendly, insula	ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value	
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL
	0.807	0.726	0.841	Window&OpticsSoftwarewiththelatestdatabase info available at the time
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am weep system to allow m Recommended Clearanc Face: 1/8" per side	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a
	Edge: 1/4" Bite: 1/2"			

















0000	nty Giazing						
PRODUCT N	AME:	ARMORGARD™ BULL	D™ BULLET RESISTANT GLASS				
PRODUCT CO	DDE:	BRX16/BRAR15					
CONSTRUCT	ION:	BRX16/BRAR15 is a bullet resistant laminated glass construction that uses a proprietary arrangement of transparent materials. This product was developed in response to frequent inquiries for a tested product to can safely withstand impacts from an AR-15 style rifle.					
PERFORMAN	NCE TESTING:	BS EN 1063 Class BR5 "S	BS EN 1063 Class BR5 "S" (+ Protection against AR15/5.56 caliber threats)				
		Three shots 5.56x45 M8	Three shots 5.56x45 M855 on 120mm triangle				
THICKNESS:	THICKNESS	1.69"					
TOLERANCE	WEIGHT:	1.587-1.811"					
MINIMUM	SIZE:	17.0 lbs./ft²					
MAXIMUM	SIZE:	12x12"					
OPTIONS:		60 x 96"					
TECHNICAL I	DATA:		irror, bird friendly, insulat Please note some options Solar Heat Gain		vitchable smart glass, tinted and ness.		
		Transmission (VLT)	Coefficient (SHGC) 0.554	(BTU/hr*ft² * °F) 0.745	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
APPLICABLE	STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349	STM C1349  ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)			
SINGLE RESP	PONSIBILITY:		LLC and Global Security C ne firm has handled and is		vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATIO	ON:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		



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Security Glazing						
PRODUCT NAME:	2 1/2" Clear INFERNO	OGARD 90-2114				
PRODUCT CODE:	INFERNOGARD 90-21	14				
CONSTRUCTION:	,		ad polycarbonate and	fire resistant glass laminate. Exact		
	Construction is Proprieta	Construction is Proprietary.				
PERFORMANCE TESTING:			e 2 (40) Minute Contain	ment; WMFL Level II (60) Minute		
	Physical Attack; ASTM F					
		_	ead, 20 feet; .357 magn	um revolver, 3 shots 8" circle, 158		
	grain, 25 feet (Spall, no	·				
	_			252 (2017); Intertek Certification,		
	·	=	="	(2018C), UL 263 (R2015), CAN/ULC		
	i i	rtification, Spec ID56596				
THICKNESS: THICKNESS	2.43"					
TOLERANCE: WEIGHT:	2.26-2.62"					
MINIMUM SIZE:	19.3 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
		irror, bird friendly, insula Please note some options		witchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value	**		
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft <sup>2</sup> * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance					
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	2 3/8" Clear INFERNO	GARD 90-2115				
PRODUCT CODE:	INFERNOGARD 90-212	15				
CONSTRUCTION:	,	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	Physical Attack			ment; WMFL Level III (30) Minute		
	feet (Spall, no penetration	<u>'</u>				
	_			252 (2017); Intertek Certification,		
	Spec ID 56532; 90 Minut S101 (2014); Intertek Cer	•	ow Systems: ASTM E119	(2018C), UL 263 (R2015), CAN/ULC		
THICKNESS: THICKNESS	2.1325" 2.17-2.50" 18.6	=				
TOLERANCE: WEIGHT:				ing) glass, low-e glass, reflective glass		
MINIMUM SIZE:				l), switchable smart glass, tinted and		
MAXIMUM SIZE:	translucent interlayers. F	riease note some options	may increase OA tnickr	ness.		
OPTIONS:						
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349	ANCL 707 1 /CDCC	16 CFR 1201 (Cat I & II Impact)		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	NFPA 80	. 10 CFK 1201 (Cat I & II IIIIpact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures on		= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	_	erica (GANA) Glazing and	Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearanc	e:				
	Face: 1/8" per side					
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing				
PRODUCT NAME:	2 5/16' Clear INFERNOGA	ARD 90-2116		
PRODUCT CODE:	INFERNOGARD 90-2116			
CONSTRUCTION:	Multi-layer construction cor	nprised of glass clad p	oolycarbonate and fire r	esistant glass laminate. Exact
	Construction is Proprietary.			
PERFORMANCE TESTING:				
	HP White Level III TP-0500.0	2; ASTM F1915 Grade	e 3 (20) Minute Contain	ment; ASTM F 1233-08 Class 2.7
	.38 Special handgun, 3 shots	8" circle, 158 grain l	ead, 10 feet; .9mm hand	dgun, 124 grain lead, FMJ caliber, 10
	feet (Spall, no penetration)			
	90 Minute Fire Rating Doors	: UL 10(c)(2016), CAN	J/ULC S104 (2015), NFP	252 (2017); Intertek Certification, Spe
	ID 56532; 90 Minute Fire R	ating Wall/Window S	ystems: ASTM E119 (20	018C), UL 263 (R2015), CAN/ULC S103
	(2014); Intertek Certification	n, Spec ID56596		
THICKNESS: THICKNESS	2.27"			
TOLERANCE: WEIGHT:	2.14-2.47"			
MINIMUM SIZE:	18.5 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass
	including transparent mirror translucent interlayers. <i>Plea</i>		. ,,	vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value	
	Transmission (VLT) (N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	ASTM C1036	ASTM C1349	14/74	injo avanable at the time
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI Z97.1/CPSC NFPA 80	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC Program that ensures one fi	<u>=</u>	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	_	a (GANA) Glazing and	l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a
	Recommended Clearance:			
	Face: 1/8" per side			
	Edge: 3/8"			
	Bite: 1"			



12/10/2025















Security Glazing						
PRODUCT NAME:	2-5/32" Clear INFERN	OGARD 90-2117				
PRODUCT CODE:	INFERNOGARD 90-21	17				
CONSTRUCTION:	· ·	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level III TP-05	00.03; ASTM F1915 Grad	e 4 (10) Minute Contain	ment		
	.38 Special handgun, 3 s	hots 8" circle, 158 grain l	ead, 10 feet (Spall, no p	enetration)		
	.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet (Spall, no penetration)  90 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104 (2015), NFP 252 (2017); Intertek Certification, Spec ID 56532; 90 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014); Intertek Certification, Spec ID56596					
THICKNESS: THICKNESS	2.12"					
TOLERANCE: WEIGHT:	2-2.30"					
MINIMUM SIZE:	17.5 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:	- '	irror, bird friendly, insula Please note some options  Solar Heat Gain		witchable smart glass, tinted and ness.		
TECHNICAL DATA.	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL		
	N/A	N/A	N/A	Window & Optics Software with the latest database info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	·	C 16 CFR 1201 (Cat I & II Impact)		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance					
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	2 1/16" Clear INFERN	OGARD 90-2119				
PRODUCT CODE:	INFERNOGARD 90-21	19				
CONSTRUCTION:	·	· ·	oolycarbonate and fire r	esistant glass laminate. Exact		
	Construction is Proprieta	Construction is Proprietary.				
PERFORMANCE TESTING:						
	HP White Level III TP-05	00.02				
	.38 Special handgun, 3 s	hots 8" circle, 158 grain l	ead, 20 feet (Spall, no p	enetration)		
	90 Minute Fire Rating Do	oors: UL 10(c)(2016), CAN	I/ULC S104 (2015), NFP	252 (2017); Intertek Certification,		
		=	ow Systems: ASTM E119	(2018C), UL 263 (R2015), CAN/ULC		
	S101 (2014); Intertek Ce	rtification, Spec ID56596				
THICKNESS: THICKNESS	2.02"					
TOLERANCE: WEIGHT:	1.91-2.19"					
MINIMUM SIZE:	16.9 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
			-	g) glass, low-e glass, reflective glass		
		• • • • • • • • • • • • • • • • • • • •		vitchable smart glass, tinted and		
	translucent interlayers.	Please note some options	may increase OA thickr	ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass,	LLC and Global Security	Glazing products are cov	vered by our Single Responsibility™		
	Program that ensures or	ne firm has handled and i	s accountable for all pha	ases of manufacturing.		
INSTALLATION:	_		=	the current edition of the Glass		
		, ,		ng systems should incorporate a		
	weep system to allow m	oisture and water to esca	ape the glazing channel.			
	Recommended Clearance	e:				
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















	24 /22" Class INITED	NOCARD OF DROOF				
PRODUCT NAME: 3	31/32" Clear INFER	NOGARD 90-DBP08				
PRODUCT CODE:	IFERNOGARD 90-DE	3P08				
	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.					
	JL Standard 752-Level VIII; Military Assault Rifle, 7.62mm NATO Rifle, Lead Core Full Metal Copper Jacket, Ailitary Ball, 5 Shots (2750-3025 ft/s) (No spall, no penetration)					
Sp	90 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104 (2015), NFP 252 (2017); Intertek Certification, Spec ID 56532; 90 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014); Intertek Certification, Spec ID56596					
THICKNESS: THICKNESS 3.	97"					
TOLERANCE: WEIGHT: 3.	71-4.25"					
MINIMUM SIZE: 39	.2 lbs./ft2					
MAXIMUM SIZE: 12	x12"					
OPTIONS: 60	x96" Tinted glass, low	ı iron glass, printed (span	drel and pattern screen	printing) glass, low-e glass, reflective		
tra	anslucent interlayers.	Please note some options	may increase OA thickn	vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 NFPA 80	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
		LLC and Global Security ( ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.		
As	sociation of North Am		l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
Re	commended Clearance	ce:				
Fa	ce: 1/8" per sid	e				
Ec	lge: 3/8"					
	te: 1"					

















Security Glazing							
PRODUCT NAME:	2 1/8" Clear INFERNO	GARD 90-PSYCH 2118					
PRODUCT CODE:	INFERNOGARD 90-PS	YCH 2118					
CONSTRUCTION:	Multi-layer construction	n comprised of glass c	ad polycarbonate and	fire resistant glass laminate. Exact			
	Construction is Proprieta	Construction is Proprietary.					
PERFORMANCE TESTING:	ASTM F 1233 Class 1.4						
				IFP 252 (2017); Intertek Certification,			
		Spec ID 56532; 90 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263 (R2015), CAN/U S101 (2014); Intertek Certification, Spec ID56596					
THICKNESS: THICKNESS	2.12"	2.12"					
TOLERANCE: WEIGHT:	1.96-2.25"						
MINIMUM SIZE:	17.2 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass			
TECHNICAL DATA:	translucent interlayers. I	Please note some options		vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database			
	N/A	N/A	N/A	info available at the time			
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)			
	ASTM C1048	ASTM C 1422	NFPA 80				
SINGLE RESPONSIBILITY:	•	LLC and Global Security on the firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a			
	Recommended Clearance	e:					
		<del>-</del> -					
	Face: 1/8" per side	e					
	Face: 1/8" per side	e					

















Security Glazing					
PRODUCT NAME:	2 5/16" Clear INFERN	OGARD 90-SP019			
PRODUCT CODE:	INFERNOGARD 90-SP	019			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exac Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level IV TP-05 Physical Attack; ASTM F	•	de 2 (40) Minute Contai	nment; WMFL Level III (30) Minute	
	.38 Special handgun, 3 s feet (Spall, no penetration	_	ead, 10 feet; .9mm hand	dgun, 124 grain lead, FMJ caliber, 10	
	Spec ID 56532; 90 Minut			252 (2017); Intertek Certification, (2018C), UL 263 (R2015), CAN/ULC	
THICKNESS: THICKNESS	2.26"				
TOLERANCE: WEIGHT:	2.13-2.46"				
MINIMUM SIZE:	18.4 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
TECHNICAL DATA:		irror, bird friendly, insula Please note some options  Solar Heat Gain		vitchable smart glass, tinted and ness.	
TECHNICAE DATA.	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C 1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glassing systems should incorporate a	
	Recommended Clearance	٠۵٠			
	Face: 1/8" per sid				
	Edge: 3/8"	C			
	Bite: 1"				
	Ditc. 1				

















Security Glazing					
PRODUCT NAME:	2 9/16" Clear INFERN	OGARD 90-SP028			
PRODUCT CODE:	INFERNOGARD 90-SP	028			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level IV TP-050 Physical Attack; ASTM F		le 1 (60) Minute Contair	nment; WMFL Level II (60) Minute	
	.9mm handgun, 124 gria	ın lead, FMJ caliber, 10 fe	et (Spall, no penetratio	n)	
	Spec ID 56532; 90 Minut			252 (2017); Intertek Certification, (2018C), UL 263 (R2015), CAN/ULC	
THICKNESS: THICKNESS	2.52"				
TOLERANCE: WEIGHT:	2.36-2.74"				
MINIMUM SIZE:	20.0 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
		irror, bird friendly, insula Please note some options		vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database	
	N/A	N/A	N/A	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a	
	Recommended Clearance	e:			
	Recommended Clearanc Face: 1/8" per side				

















Security Glazing						
PRODUCT NAME:	2 13/16" Clear INFER	NOGARD 90-SP035				
PRODUCT CODE:	INFERNOGARD 90-SP	035				
CONSTRUCTION:	· ·	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	ACTNA F 101F Curada 1 /C	O) Minute Containment.	A/NATI Louis 1 (CO) NAire	the Discoursed Attacks		
	·	0) Minute Containment; \				
	_	=		eet (Spall, no penetrration)		
	_	, , , , , , , , , , , , , , , , , , , ,		252 (2017); Intertek Certification,		
	·	<del>-</del>	w Systems: ASTM E119	(2018C), UL 263 (R2015), CAN/ULC		
	1 '	rtification, Spec ID56596				
THICKNESS: THICKNESS	2.78"					
TOLERANCE: WEIGHT:	2.61-3.01					
MINIMUM SIZE:	23.5 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:	Visible Light	Please note some options  Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and is	Glazing products are co	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Program that ensures or  All glass should be instal Association of North Am	ne firm has handled and is	Glazing products are considerations accountable for all phases accountable for all phases accountable for all phases accountable for all phases account and account for a consideration account for a	ases of manufacturing.  The current edition of the Glass of systems should incorporate a		
	Program that ensures or  All glass should be instal Association of North Am	ne firm has handled and is led in accordance with the perica (GANA) Glazing and oisture and water to esca	Glazing products are considerations accountable for all phases accountable for all phases accountable for all phases accountable for all phases account and account for a consideration account for a	ases of manufacturing.  The current edition of the Glass of systems should incorporate a		
	All glass should be instal Association of North Am weep system to allow m	ne firm has handled and is led in accordance with the perica (GANA) Glazing and poisture and water to esca	Glazing products are considerations accountable for all phases accountable for all phases accountable for all phases accountable for all phases account and account for a consideration account for a	ases of manufacturing.  The current edition of the Glass of systems should incorporate a		
	All glass should be instal Association of North Am weep system to allow m	ne firm has handled and is led in accordance with the perica (GANA) Glazing and poisture and water to esca	Glazing products are considerations accountable for all phases accountable for all phases accountable for all phases accountable for all phases account and account for a consideration account for a	ases of manufacturing.  The current edition of the Glass of systems should incorporate a		

















Security Glazing					
PRODUCT NAME:	2 7/16" Clear INFERN	OGARD 90-SP188			
PRODUCT CODE:	INFERNOGARD 90-SP188				
CONSTRUCTION:				glass laminate. Exact Construction is ) side for no spall protection.	
PERFORMANCE TESTING:	UL Standard 752-Level I-File BP844; 9mm Full Metal Copper Jacket with Lead Core (No Spall, no penetrati				
	Spec ID 56532; 90 Minut S101 (2014); Intertek Ce	e Fire Rating Wall/Windo		252 (2017); Intertek Certification, (2018C), UL 263 (R2015), CAN/ULC	
THICKNESS: THICKNESS	2.44"				
TOLERANCE: WEIGHT:	2.28-2.60"				
MINIMUM SIZE:	21.9 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
	including transparent mi		ting glass units (IGU), sw	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database	
	N/A	N/A	N/A	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	1	LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to esca	Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a	
	Face: 1/8" per side	e			
	Edge: 3/8"				
	Bite: 1"				

















Security Glazing						
PRODUCT NAME:	2 1/2" Clear INFERNOGARD 90-SP293					
PRODUCT CODE:	INFERNOGARD 90-SP	293				
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interio (safe) side for no spall protection.					
PERFORMANCE TESTING:	UL Standard 752-Level	UL Standard 752-Level II; .357 Magnum Jacketed Lead Soft Point (No spall, no penetration) 90 Minute F				
	Spec ID 56532; 90 Minut	016), CAN/ULC S104 (203 te Fire Rating Wall/Windo rtification, Spec ID56596		ertek Certification, (2018C), UL 263 (R2015), CAN/ULC		
THICKNESS: THICKNESS	2.53"					
TOLERANCE: WEIGHT:	2.37-2.70"					
MINIMUM SIZE:	23.4 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Please note some options  Solar Heat Gain  Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance					
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	2 5/8" Clear INFERNO	2 5/8" Clear INFERNOGARD 90-SP311				
PRODUCT CODE:	INFERNOGARD 90-SP	311				
CONSTRUCTION:	· ·			glass laminate. Exact Construction is e) side for no spall protection.		
PERFORMANCE TESTING:	UL Standard 752 - Le	UL Standard 752 - Level III; .44 Magnum Lead Semi-Wadcutter Gas Checked (No spall, no penetration)				
	Spec ID 56532; 90 Minut			252 (2017); Intertek Certification, (2018C), UL 263 (R2015), CAN/ULC		
THICKNESS: THICKNESS	2.65"					
TOLERANCE: WEIGHT:	2.48-2.83"					
MINIMUM SIZE:	25.1 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	: 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security on the firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance					
	Face: 1/8" per sid Edge: 3/8"	e				
	Edge: 3/8" Bite: 1"					
	טונכ. 1					

















Security Glazing				
PRODUCT NAME:	2 13/16" Clear INFERNOGARD 90-SP412			
PRODUCT CODE:	INFERNOGARD 90-SP	412		
CONSTRUCTION:				t glass laminate. Exact Construction is e) side for no spall protection.
PERFORMANCE TESTING:	UL Standard 752-Level I	V30 Caliber Rifle Lead	Core Soft Point (.30-06	Caliber) (No spall, no penetration) 90
	Spec ID 56532; 90 Minut			2 (2017); Intertek Certification, 9 (2018C), UL 263 (R2015), CAN/ULC
THICKNESS: THICKNESS	2.77"			
TOLERANCE: WEIGHT:	2.61-2.99"			
MINIMUM SIZE:	26.8 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value	*Transmittance values are calculated using LBNL
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	Window & Optics Software with the latest database
	N/A	N/A	N/A	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	C 16 CFR 1201 (Cat I & II Impact)
	NFPA 80			
SINGLE RESPONSIBILITY:	i i	LLC and Global Security on the firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a
	Recommended Clearance	· • ·		
	Face: 1/8" per sid			
	Edge: 3/8"	C		
	Bite: 1"			

















PRODUCT NAME:	2 15/16" Clear INFERNOGARD 90-SP513					
PRODUCT CODE:	INFERNOGARD 90-SP513					
CONSTRUCTION:	1	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interio (safe) side for no spall protection.				
PERFORMANCE TESTING:	UL Standard 752-Level	JL Standard 752-Level V-7.62mm Rifle Lead core Full Metal Copper Jacket (No spall, no penetration)				
	Spec ID 56532; 90 Minut	, ,, ,, ,,	• • •	2 (2017); Intertek Certification, (2018C), UL 263 (R2015), CAN/ULC		
THICKNESS: THICKNESS	2.95"					
TOLERANCE: WEIGHT:	2.75-3.15"					
MINIMUM SIZE:	28.4 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Please note some options  Solar Heat Gain  Coefficient (SHGC)	may increase OA thickr  U-Value  (BTU/hr*ft² * °F)	vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	i i	LLC and Global Security on the firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearance	e:				
	Face: 1/8" per side					
	Edge: 3/8"					
	Bite: 1"					
	Dite. 1					

















Security Glazing						
PRODUCT NAME:	2 1/16" Clear INFERNOGARD 60-2114					
PRODUCT CODE:	INFERNOGARD 2114	INFERNOGARD 2114				
CONSTRUCTION:	·	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	IP White Level III TP-0500.02; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level II (60) Minute Physical Attack; ASTM F 1233-08 Class 3.5					
	.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet; .357 magnum revolver, 3 shots 8": circle grain, 25 feet (Spall, no penetration)					
	60 Minute Fire Rating Do	oors: UL 10(c)(2016), CAN	I/ULC S104(2015), NFPA	252(2017) Interteck Certification,		
	Spec ID 56532; 60 Minut S101(2014) Intertek Cer	•	ow Systems: ASTM E119	(2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	2.0625"					
TOLERANCE: WEIGHT:	1.88-2.24"					
MINIMUM SIZE:	16.29 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:		Please note some options  Solar Heat Gain		vitchable smart glass, tinted and ness.		
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC NFPA 50	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	Glazing products are co	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance	e:				
	Face: 1/8" per sid					
	Edge: 3/8"	_				
	Bite: 1"					

















Security Glazing							
PRODUCT NAME:	1 31/32" Clear INFERNOGARD 60-2115						
PRODUCT CODE:	INFERNOGARD 60-21	INFERNOGARD 60-2115					
CONSTRUCTION:	Multi-layer construction Construction is Proprieta	·	lad polycarbonate and	l fire resistant glass laminate. Exac			
PERFORMANCE TESTING:	HP White Level II TP-050 Physical Attack						
	feet (Spall, no penetration	on)		dgun, 124 grain lead, FMJ caliber, 10			
		te Fire Rating Wall/Windo		252(2017) Interteck Certification, (2018C), UL 263(R2015), CAN/ULC			
THICKNESS: THICKNESS	1.96"	amountain, specific 30330					
TOLERANCE: WEIGHT:	1.79-2.13"						
MINIMUM SIZE:	15.59 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"						
		irror, bird friendly, insula Please note some options		vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a			
	Pacammandad Classes	201					
	Recommended Clearance Face: 1/8" per sid						
	Edge: 3/8"	e					
	Bite: 1"						
	DICC. 1						

















Security Glazing						
PRODUCT NAME:	1 15/16" Clear INFERNOGARD 60-2116					
PRODUCT CODE:	INFERNOGARD 60-21	16				
CONSTRUCTION:	, ·	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level II TP-050	00.02; ASTM F 1915 Grade	e 3 (20) Minute Contain	ment; ASTM F 1233-08 Class 2.7		
	.38 Special handgun, 3 s feet (Spall, no penetration	, ,	ead, 10 feet; .9mm han	dgun, 124 grain lead, FMJ caliber, 10		
		te Fire Rating Wall/Windo		A 252(2017) Interteck Certification, 9 (2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	1.90"					
TOLERANCE: WEIGHT:	1.77-2.10"					
MINIMUM SIZE:	15.5 lbs./ft2	15.5 lbs./ft2				
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96" Tinted glass, low glass	60x96" Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective				
TECHNICAL DATA.	translucent interlayers.	Please note some options	may increase OA thick	witchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A ASTM C1036	Solar Heat Gain Coefficient (SHGC) N/A ASTM C1349	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
APPLICABLE STANDARDS:	ASTM C1038	ASTM C1422	ANSI Z97.1/CPSC NFPA 80	C 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	•	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance	ce:				
	Face: 1/8" per sid	e				
	5-1 2/0"					
	Edge: 3/8"					















#### **PRODUCT SPECIFICATIONS**



Security Glazing						
PRODUCT NAME:	1 3/4" Clear INFERNO	GARD 60-2117				
PRODUCT CODE:	INFERNOGARD 60-21	17				
CONSTRUCTION:	Multi-layer construction	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exac				
	Construction is Proprieta	Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level 1 TP-050	0.03; ASTM F 1915 Grad	e 4 (10) Minute Contain	ment		
	.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet (Spall, no penetration)					
	60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification					
	1 '	-	ow Systems: ASTM E119	(2018C), UL 263(R2015), CAN/ULC		
	S101(2014) Intertek Cert	tification, Spec ID 56596				
THICKNESS: THICKNESS	1.75"					
TOLERANCE: WEIGHT:	1.63-1.93"					
MINIMUM SIZE:	14.5 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
				g) glass, low-e glass, reflective glass witchable smart glass, tinted and		
	- '	Please note some options		_		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance	e:				
	Face: 1/8" per sid					
	Edge: 3/8"					
	Bite: 1"					

















PRODUCT NAME:	1 11/16" Clear INFERNOGARD 60-2119				
PRODUCT CODE:	INFERNOGARD 60-2119				
CONSTRUCTION:	Multi-layer construction Construction is Proprieta	· · · · · · · · · · · · · · · · · · ·	polycarbonate and fire r	esistant glass laminate. Exact	
PERFORMANCE TESTING:	HP White Level 1 TP-050 .38 Special handgun, 3 sl		ead, 20 feet (Spall, no p	enetration)	
	_	e Fire Rating Wall/Windo		252(2017) Interteck Certification, (2018C), UL 263(R2015), CAN/ULC	
THICKNESS: THICKNESS	1.64"				
TOLERANCE: WEIGHT:	1.53-1.81"				
MINIMUM SIZE:	13.9 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
TECHNICAL DATA:	including transparent mi translucent interlayers. I Visible Light	• •		vitchable smart glass, tinted and ness.	
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	· · · · · · · · · · · · · · · · · · ·	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures or		= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance Face: 1/8" per side Edge: 3/8"				
	Bite: 1"				

















Security Glazing						
PRODUCT NAME:	3 9/16" Clear INFERNOGARD 60-DBP08					
PRODUCT CODE:	INFERNOGARD 60-DB	P08				
CONSTRUCTION:	1			glass laminate. Exact Construction is e) side for no spall protection.		
PERFORMANCE TESTING:		UL Standard 752-Level VIII Military Assault Rifle, 7.62mm NATO Rifle, Lead Core Full Metal Copper Jack Military Ball, 5 Shots (2750-3025 ft/s) (No spall, no penetration)				
	Spec ID 56532; 60 Minut S101(2014) Intertek Cert	e Fire Rating Wall/Windo		252(2017) Interteck Certification, (2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	3.52"					
TOLERANCE: WEIGHT:	3.33-3.87"					
MINIMUM SIZE:	36.2 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL		
	N/A	N/A	N/A	Window & Optics Software with the latest database info available at the time		
ADDUCABLE CTANDADDC.	ASTM C1036	ASTM C1349	•	16 CFR 1201 (Cat I & II Impact)		
APPLICABLE STANDARDS:	ASTM C1048	NFPA 80	711431 237.17 61 36	10 CFR 1201 (Cut Fac II III puct)		
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ( ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance	e:				
	Face: 1/8" per sid					
	Edge: 3/8"	-				
	Bite: 1"					
	Ditte:					

















Security Glazing					
PRODUCT NAME:	1 3/4" Clear INFERNO	GARD 60-PSYCH 2118			
PRODUCT CODE:	INFERNOGARD 60-PS	YCH 2118			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	ASTM F 1233 Class 1.4 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 60 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263(R2015), CAN/ULC S101(2014) Intertek Certification, Spec ID 56596				
THICKNESS: THICKNESS	1.73"				
TOLERANCE: WEIGHT:	1.59-1.88"				
MINIMUM SIZE:	14.2 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"			) glass, low-e glass, reflective glass	
TECHNICAL DATA:	translucent interlayers. If  Visible Light  Transmission (VLT)	-		*Transmittance values are calculated using LBNL	
	N/A	N/A	N/A	Window & Optics Software with the latest database info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	·	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	= :	rered by our Single Responsibility™ uses of manufacturing.	
INSTALLATION:	Association of North Am		d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a	
	Recommended Clearanc	e:			
	Face: 1/8" per side				
	Edge: 3/8"				
	Bite: 1"				

















Security Glazing						
PRODUCT NAME:	1 15/16" Clear INFERNOGARD 60-SP019					
PRODUCT CODE:	INFERNOGARD 60-SP019					
CONSTRUCTION:	·	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exac Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level IV TP-05 Physical Attack; ASTM F		de 2 (40) Minute Conta	inment; WMFL Level III (30) Minute		
	.38 Special handgun, 3 sfeet (Spall, no penetrat	, •	ead, 10 feet; .9mm hand	dgun, 124 grain lead, FMJ caliber, 10		
	60 Minute Fire Rating D	oors: UL 10(c)(2016), CAN	/ULC S104(2015), NFPA	252(2017) Interteck Certification,		
	Spec ID 56532; 60 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263(R2015), CA S101(2014) Intertek Certification, Spec ID 56596					
THICKNESS: THICKNESS	1.89"					
TOLERANCE: WEIGHT:	1.75-2.08"					
MINIMUM SIZE:	.5.4 lbs./ft2					
MAXIMUM SIZE:	12x12" 60x96"					
	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A ASTM C1036	Solar Heat Gain Coefficient (SHGC) N/A ASTM C1349	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI Z97.1/CPSC NFPA 80	2 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		s, LLC and Global Security ( one firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearan	ce:				
	Face: 1/8" per sid					
	Edge: 3/8"					
	Bite: 1"					

















PRODUCT NAME:	2 3/16" Clear INFERN	2 3/16" Clear INFERNOGARD 60-SP028				
PRODUCT CODE:	INFERNOGARD 60-SP	028				
CONSTRUCTION:	Multi-layer construction Construction is Proprieta		ad polycarbonate and	fire resistant glass laminate. Exact		
PERFORMANCE TESTING:		HP White Level IV TP-0500.03; ASTM F 1915 Grade 1 (60) Mniute Containment; WMFL Level II (60) Minute Physical Attack; ASTM F 1233-08 Class 3.4				
	9mm handgun, 124 grain	n lead, FMJ caliber, 10 fe	et (Spall, no penetration	n)		
		e Fire Rating Wall/Windo		252(2017) Interteck Certification, (2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	2.18"					
TOLERANCE: WEIGHT:	1.99-2.37"					
MINIMUM SIZE:	17.0 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"	,				
	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	$(BTU/hr*ft^2 * °F)$	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	Glazing products are cov	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a		
		C .				
	Edge: 3/8" Bite: 1"					
	DICC. I					

















PRODUCT NAME:	2.7/16" Class INFERN	OCARD 60 SD03F				
PRODUCT NAIVIE.	2 7/16" Clear INFERN	UGARD 60-5P035				
PRODUCT CODE:	INFERNOGARD 60-SP035					
CONSTRUCTION:	Multi-layer construction	n comprised of glass cl	ad polycarbonate and	fire resistant glass laminate. Exact		
	Construction is Proprieta	onstruction is Proprietary.				
PERFORMANCE TESTING:	ASTM F 1915 Grade 1 (6	0) Minute Containment;	WMFL Level 1 (60) Minu	ite Physical Attack		
	.44 magnum revolver, 25	5 rounds, 240 grain, soft	point ammunition, 29 fe	et (Spall, no penetration)		
	60 Minute Fire Rating Do	oors: UL 10(c)(2016), CAN	I/ULC S104(2015), NFPA	252(2017) Interteck Certification,		
	Spec ID 56532; 60 Minut	te Fire Rating Wall/Windo	ow Systems: ASTM E119	(2018C), UL 263(R2015), CAN/ULC		
	S101(2014) Intertek Cert	5101(2014) Intertek Certification, Spec ID 56596				
THICKNESS: THICKNESS	2.40"					
TOLERANCE: WEIGHT:	2.23-2.63."					
MINIMUM SIZE:	20.5 lbs./ft2	20.5 lbs./ft2				
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"	60x96"				
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and					
	translucent interlayers.	Please note some options	s may increase OA thickn	ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	$(BTU/hr*ft^2 * °F)$	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422	NFPA 80			
CINCLE DECDONICIDILITY.	Isoclima Specialty Glass	LLC and Global Security		vered by our Single Responsibility™		
SINGLE RESPONSIBILITY:	i i	ne firm has handled and i	= :			
	Trogram that choures of	ie iiiii ilas ilailaica alia i	s accountable for an pric	socs of manageding.		
INSTALLATION:	All glass should be instal	led in accordance with th	ne guidelines set forth in	the current edition of the Glass		
	_		=	ng systems should incorporate a		
		oisture and water to esca				
	, ,					
	Recommended Clearance:					
	Face: 1/8" per sid					

















Security Glazing						
PRODUCT NAME:	2 1/16" Clear INFERNOGARD 60-SP188					
PRODUCT CODE:	INFERNOGARD 60-SP	188				
CONSTRUCTION:				glass laminate. Exact Construction is e) side for no spall protection.		
PERFORMANCE TESTING:	UL Standard 752-Level I-	File BP844 9mm Full Met	al Copper Jacket with Le	ead Core (No spall, no penetration)		
	_	te Fire Rating Wall/Wind		PA 252(2017) Interteck Certification, 19 (2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	2.06"					
TOLERANCE: WEIGHT:	1.90-2.23"					
MINIMUM SIZE:	18.9 lbs./ft2					
MAXIMUM SIZE:	12x12"	12x12"				
OPTIONS:	60x96"					
		rror, bird friendly, insula Please note some options		vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security on the firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
	Recommended Clearanc	e:				
	Face: 1/8" per side					
	Edge: 3/8"					
	Bite: 1"					
i						

















PRODUCT NAME:	2 5/32" Clear INFERNOGARD 60-SP293					
PRODUCT CODE:	INFERNOGARD 60-SP	INFERNOGARD 60-SP293				
CONSTRUCTION:	1	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.				
PERFORMANCE TESTING:	UL Standard 752-Level II; .357 Magnum Jacketed Lead Soft Point (No spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 60 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263(R2015), CAN/ULC S101(2014) Intertek Certification, Spec ID 56596					
THICKNESS: THICKNESS	2.13"					
TOLERANCE: WEIGHT:	1.99-2.33"					
MINIMUM SIZE:	20.4 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
TECHNICAL DATA:	translucent interlayers. If  Visible Light  Transmission (VLT)	· · · · · · · · · · · · · · · · · · ·		vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.  Recommended Clearance:					
	Face: 1/8" per side					
	Edge: 3/8"					

















PRODUCT NAME:	2 5/16" Clear INFERNOGARD 60-SP311					
PRODUCT CODE:	INFERNOGARD 60-SP	311				
CONSTRUCTION:				glass laminate. Exact Construction is e) side for no spall protection.		
PERFORMANCE TESTING:	Minute Fire Rating Door Spec ID 56532; 60 Minut S101(2014) Intertek Cert	UL Standard 752-Level III; .44 Magnum Lead Semi-Wadcutter Gas Checked (No spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 60 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263(R2015), CAN/ULC S101(2014) Intertek Certification, Spec ID 56596				
THICKNESS: THICKNESS	2.25"					
TOLERANCE: WEIGHT:	2.11-2.45					
MINIMUM SIZE:	22.1 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
	translucent interlayers. I	Please note some options	may increase OA thickr	vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearanc					
	Face: 1/8" per side	9				
	Edge: 3/8" Bite: 1"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	2 7/16" Clear INFERNOGARD 60-SP412					
PRODUCT CODE:	INFERNOGARD 60-SP	INFERNOGARD 60-SP412				
CONSTRUCTION:	The state of the s	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is roprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.				
PERFORMANCE TESTING:	ORMANCE TESTING: UL Standard 752-Level IV; .30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber) (No spall,					
	Spec ID 56532; 60 Minut	Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 60 Minute Fire Rating Wall/Window Systems: ASTM E119 (2018C), UL 263(R2015), CAN/ULC S101(2014) Intertek Certification, Spec ID 56596				
THICKNESS: THICKNESS	2.40"					
TOLERANCE: WEIGHT:	2.24-2.62"					
MINIMUM SIZE:	23.8 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:	Visible Light Transmission (VLT)	Please note some options  Solar Heat Gain  Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	N/A	N/A	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security one firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a		
	Recommended Clearance	e:				
	Face: 1/8" per sid					
	Edge: 3/8"	<b>C</b>				
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	2 9/16" Clear INFERNOGARD 60-SP513					
PRODUCT CODE:	INFERNOGARD 60-SP	513				
CONSTRUCTION:	'			glass laminate. Exact Construction is e) side for no spall protection.		
PERFORMANCE TESTING:	UL Standard 752-Level	V; 7.62mm Rifle Lead Co	ore Full Metal Copper	Jacket (No spall, no penetration) 60		
		e Fire Rating Wall/Windo	, ,,	2(2017) Interteck Certification, (2018C), UL 263(R2015), CAN/ULC		
THICKNESS: THICKNESS	2.58"					
TOLERANCE: WEIGHT:	2.38-2.78"					
MINIMUM SIZE:	25.4 lbs./ft2					
MAXIMUM SIZE:	12x12"	12x12"				
OPTIONS:	60x96"			) glass, low-e glass, reflective glass		
TECHNICAL DATA:	translucent interlayers. F  Visible Light  Transmission (VLT)	•		*Transmittance values are calculated using LBNL		
	N/A	N/A	N/A	Window & Optics Software with the latest database info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	•	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures on	<del>-</del>	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearance	e:				
	Face: 1/8" per side	9				
	Face: 1/8" per side Edge: 3/8"	2				

















Security Glazing						
PRODUCT NAME:	1 11/16" Clear INFERNOGARD 45-2114					
PRODUCT CODE:	INFERNOGARD 45-2114					
CONSTRUCTION:	Multi-layer construction Construction is Proprieta		ad polycarbonate and	fire resistant glass laminate. Exact		
PERFORMANCE TESTING:	HP White Level III TP-05 Physical Attack; ASTM F	•	e 2 (40) Minute Contair	nment; WMFL Level II (60) Minute		
	.38 special handgun, 3 s 158 grain, 25 feet (Spall,	. •	rain, 20 feet; .357 magn	um revolver, 3 shots in an 8" circle,		
	_	ating Wall/Window: ASTI	, , ,	017) Interteck Certification, Spec ID 3 (R2015), CAN/ULC S101 (2014)		
THICKNESS: THICKNESS	1.68"					
TOLERANCE: WEIGHT:	1.51-1.87"					
MINIMUM SIZE:	15.30 lbs./ft2	15.30 lbs./ft2				
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:		Please note some options  Solar Heat Gain  Coefficient (SHGC) N/A	U-Value (BTU/hṛ*ft² * °F)	vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ĺ í	,	N/A	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	0.	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearance	·e·				
	Face: 1/8" per sid					
	Edge: 3/8"	_				
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	1-5/8" Clear INFERNOGARD 45-2115					
PRODUCT CODE:	INFERNOGARD 45-2115					
CONSTRUCTION:	'	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level II TP-050 Physical Attack	IP White Level II TP-0500.02; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack				
	.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet; .357 Magnum revolver, 3 shots 8" circle, 19 grain lead, 25 feet (Spall, no penetration)					
	45 Minute Fire Rating D	oors: UL 10(c), CAN/ULC S	3104(2015), NFPA 252(2	017) Interteck Certification, Spec ID		
	56532; 45 Minute Fire R	ating Wall/Window: ASTI	И Е 119 (2018C), UL 263	3 (R2015), CAN/ULC S101 (2014)		
	nterteck Certification, Spec ID 56596					
THICKNESS: THICKNESS	1.59"	59"				
TOLERANCE: WEIGHT:	1.42-1.75"	1.42-1.75"				
MINIMUM SIZE:	14.59 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
		irror, bird friendly, insula Please note some options		vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349	,,	myo avanasie at the time		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI Z97.1/CPSC NFPA 80	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	ATION:  All glass should be installed in accordance with the guidelines set forth in the current edition of Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should income weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearand	·e.				
	Face: 1/8" per sid					
	Edge: 3/8"	C				
	Bite: 1"					
	DICC. 1					

















Security Glazing						
PRODUCT NAME:	1 9/16" Clear INFERNOGARD 45-2116					
PRODUCT CODE:	INFERNOGARD 45-21	16				
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exa Construction is Proprietary.					
PERFORMANCE TESTING:	HP White Level II TP-05	00.02; ASTM F 1915 Gra	de 3 (20) Minute Conta	inment; ASTM F 1233-08 Class 2.7 .38		
	Special handgun, 3 shots feet (Spall, no penetration		. 10 feet; .9mm handgur	n, 124 grain lead, FMJ caliber, 10		
	45 Minute Fire Rating Do	oors: UL 10(c), CAN/ULC	5104(2015), NFPA 252(2	017) Interteck Certification, Spec ID		
	56532; 45 Minute Fire R Interteck Certification, S	•	M E 119 (2018C), UL 263	3 (R2015), CAN/ULC S101 (2014)		
THICKNESS: THICKNESS	1.53"	53"				
TOLERANCE: WEIGHT:	1.39-1.72"					
MINIMUM SIZE:	14.5 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
	including transparent m	• •	ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349				
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	-	16 CFR 1201 (Cat I & II Impact)		
			NFPA 80			
SINGLE RESPONSIBILITY:	· ·	ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a		
	Recommended Clearance	٠۵٠				
	Face: 1/8" per sid					
	Edge: 3/8"	C				
	Bite: 1"					
	DICC. I					

















Security Glazing						
PRODUCT NAME:	1 3/8" Clear INFERNO	1 3/8" Clear INFERNOGARD 45-2117				
PRODUCT CODE:	INFERNOGARD 45-21	17				
CONSTRUCTION:	'	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Examonstruction is Proprietary.  P White Level II TP-0500.03; ASTM F 1915 Grade 4 (10) Minute Containment				
PERFORMANCE TESTING:	HP White Level II TP-050	00.03; ASTM F 1915 Grad	e 4 (10) Minute Containi	ment		
	.38 Special handgun, 3 s	hots 8" circle, 158 grain l	ead, 10 feet (Spall, no po	enetration)		
	56532; 45 Minute Fire R	5 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 6532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) interteck Certification, Spec ID 56596				
THICKNESS: THICKNESS	1.40"					
TOLERANCE: WEIGHT:	25-1.55					
MINIMUM SIZE:	3.5 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96" Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass					
	translucent interlayers.	irror, bird friendly, insula Please note some options	s may increase OA thickr	vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349				
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI Z97.1/CPSC NFPA 80	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i		rered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearance	e:				
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	1 5/16" Clear INFERNOGARD 45-2119					
PRODUCT CODE:	INFERNOGARD 45-21	19				
CONSTRUCTION:	Multi-layer construction Construction is Proprieta		ad polycarbonate and	fire resistant glass laminate. Exact		
PERFORMANCE TESTING:	HP White Level 1 TP-050	00.02				
	.38 Special handgun, 3 s	hots 8" circle, 158 grain l	ead, 20 feet (Spall, no p	enetration)		
45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56596						
THICKNESS: THICKNESS	1.3125"					
TOLERANCE: WEIGHT:	1.16-1.44"					
MINIMUM SIZE:	12.9 lbs.ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
TECHNICAL DATA:		Please note some options  Solar Heat Gain  Coefficient (SHGC) N/A		vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349	ANICI 707 1 /CDCC	14. CED 1201 (Cat I & II Impro at)		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	NFPA 80	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Amweep system to allow m  Recommended Clearance Face: 1/8" per sid	nerica (GANA) Glazing and noisture and water to escand	l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a		
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing							
PRODUCT NAME:	3 7/32" Clear INFERNOGARD 45-DBP08						
PRODUCT CODE:	INFERNOGARD 45-DB	P08					
CONSTRUCTION:	'	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.					
PERFORMANCE TESTING:		VIII; Military Assault Rifl 05-3025 ft/s) (No spall, n		Lead Core Full Metal Copper Jacket			
	56532; 45 Minute Fire R	45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596					
THICKNESS: THICKNESS	3.22"						
TOLERANCE: WEIGHT:	2.96-3.50"						
MINIMUM SIZE:	35.2 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"						
	including transparent m		ting glass units (IGU), sw	glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value				
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
ADDUCABLE CTANDADDC.	ASTM C1036	ASTM C1349	ΔNSI 797 1/CPSC	16 CFR 1201 (Cat I & II Impact)			
APPLICABLE STANDARDS:	ASTM C1048	NFPA 80	ANSI 237.17 CF 3C	TO CIN 1201 (Cat i & ii iiiipact)			
SINGLE RESPONSIBILITY:	i i	LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a			
	Pacammandad Classes	0.1					
	Recommended Clearance						
	Face: 1/8" per side	<del>.</del>					
	Edge: 3/8" Bite: 1"						
	Bite: 1"						



12/10/2025















1 3/8" Clear INFERNO	GARD 45-PSVCH 2112				
1 3/0 Clear III ENITOGAND 43 1 31CH 2110					
INFERNOGARD 45-PSYCH 2118					
· ·		ad polycarbonate and	I fire resistant glass laminate. Exac		
ASTM F 1233 Class 1.4					
45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596					
· ·					
	iron glass printed (spar	idral and nattorn screen	o printing) glass low o glass reflective		
_	iron giass, printeu (spar	iurei anu pattern screei	if printing) glass, low-e glass, renective		
Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
ASTM C1036 ASTM C1048	NFPA 80	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)		
The state of the s		= :			
All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
Recommended Clearance	e:				
Edge: 3/8"					
Bite: 1"					
	INFERNOGARD 45-PS' Multi-layer construction Construction is Proprieta ASTM F 1233 Class 1.4 45 Minute Fire Rating Do 56532; 45 Minute Fire Ra Interteck Certification, S 1.36" 1.21-1.50" 13.2 lbs./ft2 12x12" 60x96" Tinted glass, low glass including transparent mi translucent interlayers. Including transparent mi translucent interlayers. Including transparent mi transmission (VLT) ASTM C1036 ASTM C1048 Isoclima Specialty Glass, Program that ensures or All glass should be instal Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per side Edge: 3/8"	Multi-layer construction comprised of glass of Construction is Proprietary.  ASTM F 1233 Class 1.4  45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S 56532; 45 Minute Fire Rating Wall/Window: ASTN Interteck Certification, Spec ID 56596  1.36"  1.21-1.50"  13.2 lbs./ft2  12x12"  60x96" Tinted glass, low iron glass, printed (spanglass including transparent mirror, bird friendly, insular translucent interlayers. Please note some options  Visible Light	INFERNOGARD 45-PSYCH 2118  Multi-layer construction comprised of glass clad polycarbonate and Construction is Proprietary.  ASTM F 1233 Class 1.4  45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 Interteck Certification, Spec ID 56596  1.36"  1.21-1.50"  13.2 lbs./ft2  12x12"  60x96" Tinted glass, low iron glass, printed (spandrel and pattern screen glass including transparent mirror, bird friendly, insulating glass units (IGU), swarmslucent interlayers. Please note some options may increase OA thicked and interlayers. Please note some options may increase OA thicked (BTU/hp**ft² * °F)  N/A  ASTM C1036  ASTM C1036  ASTM C1048  NFPA 80  Isoclima Specialty Glass, LLC and Global Security Glazing products are concept that ensures one firm has handled and is accountable for all phase of the program that ensures one firm has handled and secondate with the guidelines set forth in Association of North America (GANA) Glazing and Sealant Manuals. Glaz weep system to allow moisture and water to escape the glazing channel Recommended Clearance: Face: 1/8" per side Edge: 3/8"		

















Security Glazing						
PRODUCT NAME:	1 9/16" Clear INFERNOGARD 45-SP019					
PRODUCT CODE:	INFERNOGARD 45-SP019					
CONSTRUCTION:	Multi-layer construction Construction is Proprieta	,	ad polycarbonate and	d fire resistant glass laminate. Exac		
PERFORMANCE TESTING:	HP White Level IV TP-05 Physical Attack; ASTM F	·	e 2 (40) Minute Contaiı	nment; WMFL Level III (30) Minute		
	.38 Special handgun, 3 s feet (Spall, no penetration	, ,	ead, 10 feet; .9mm han	dgun, 124 grain lead, FMJ caliber, 10		
	45 Minute Fire Rating Do	oors: UL 10(c), CAN/ULC S	104(2015), NFPA 252(2	2017) Interteck Certification, Spec ID		
	56532; 45 Minute Fire R	ating Wall/Window: ASTI	M E 119 (2018C), UL 263	3 (R2015), CAN/ULC S101 (2014)		
	Interteck Certification, S	pec ID 56596				
THICKNESS: THICKNESS	1.51"					
TOLERANCE: WEIGHT:	1.38-1.71"					
MINIMUM SIZE:	14.4 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"			g) glass, low-e glass, reflective glass		
TECHNICAL DATA:	translucent interlayers.	Please note some options	may increase OA thick	witchable smart glass, tinted and ness.		
TECHNICAL DATA.	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349				
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	NFPA 80	C 16 CFR 1201 (Cat   &    Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am		l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Recommended Clearance	re:				
	Face: 1/8" per sid	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing	
PRODUCT NAME:	1 13/16" Clear INFERNOGARD 45-SP028
PRODUCT CODE:	INFERNOGARD 45-SP028
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.
PERFORMANCE TESTING:	HP White Level IV TP-0500.03; ASTM F 1915 Grade 1 (60) Minute Containment; WMFL Level II (60) Minute Physical Attack; ASTM F 1233-08 Class 3.4
	.9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)
	45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596
THICKNESS: THICKNESS	1.81"
TOLERANCE: WEIGHT:	1.61-1.99"
MINIMUM SIZE:	16.0 lbs./ft2
MAXIMUM SIZE:	12x12"
OPTIONS:	60x96"
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .
TECHNICAL DATA:	Visible Light Solar Heat Gain U-Value  Transmission (VLT) Coefficient (SHGC) (BTU/hr*ft² * °F) Window & Optics Software with the latest database info available at the time  Visible Light Solar Heat Gain U-Value  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	ASTM C1036 ASTM C1349
APPLICABLE STANDARDS:	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) ASTM C1048 ASTM C1422
	NFPA 80
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.  Recommended Clearance: Face: 1/8" per side
	Edge: 3/8"
	Bite: 1"

















Security Glazing							
PRODUCT NAME:	2 1/16" Clear INFERNOGARD 45-SP035						
PRODUCT CODE:	INFERNOGARD 45-SP035						
CONSTRUCTION:	•	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.					
PERFORMANCE TESTING:	ASTM F 1915 Grade 1 (6	0) Minute Containment;	WMFL Level 1 (60) Minu	te Physical Attack			
	.44 magnum revolver, 2	5 rounds, 240 grain, soft	point ammunition, 29 fe	et (Spall, no penetration)			
	45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596						
THICKNESS: THICKNESS	2.06"						
TOLERANCE: WEIGHT:	1.86-2.26"						
MINIMUM SIZE:	19.5 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"			) glass, low-e glass, reflective glass			
TECHNICAL DATA:	translucent interlayers.  Visible Light	Please note some options  Solar Heat Gain	may increase OA thicknut				
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC NFPA 80	16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	= -	rered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am weep system to allow m	nerica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a			
	Recommended Clearance						
	Face: 1/8" per sid	e					
	Edge: 3/8"						
	Bite: 1"						

















occoming and any							
PRODUCT NAME:	1 11/16" Clear INFERNOGARD 45-SP188						
PRODUCT CODE:	INFERNOGARD 45-SP	188					
CONSTRUCTION:				glass laminate. Exact Construction is e) side for no spall protection.			
PERFORMANCE TESTING:	UL Standard 752-Level I-File BP844; 9mm Full Metal Copper Jacket with Lead Core (No spall, no բ						
	56532; 45 Minute Fire R	45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596					
THICKNESS: THICKNESS	1.69"						
TOLERANCE: WEIGHT:	1.53"						
MINIMUM SIZE:	1.85"						
MAXIMUM SIZE:	17.9 lbs./ft2						
OPTIONS:	60x96"						
		irror, bird friendly, insula Please note some options		vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am weep system to allow m	nerica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a			
	Recommended Clearance						
	Face: 1/8" per sid	e					
	Edge: 3/8"						
	Bite: 1"						

















1 3/4" Clear INFERNOGARD 45-SP293					
INFERNOGARD 45-SP293					
Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.					
UL Standard 752-Level	II; .357 Magnum Jackete	d Lead Soft Point (No	spall, no penetration) 45 Minute Fir		
Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596					
1.75"					
1.62-1.95"					
19.4 lbs./ft2					
12x12"					
60x96"					
translucent interlayers.	Please note some options  Solar Heat Gain	may increase OA thickn U-Value	ess.		
·	,	N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
· ·		= :			
Association of North Am	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
Association of North Am weep system to allow m	nerica (GANA) Glazing and oisture and water to escand to escand water to escand	l Sealant Manuals. Glazi	ng systems should incorporate a		
Association of North Am weep system to allow m	nerica (GANA) Glazing and oisture and water to escand to escand water to escand	l Sealant Manuals. Glazi	ng systems should incorporate a		
	INFERNOGARD 45-SP  Multi-layer construction corproprietary. Note: Contains  UL Standard 752-Level Rating Doors: UL 10(c), 056532; 45 Minute Fire R Interteck Certification, S 1.75"  1.62-1.95"  19.4 lbs./ft2  12x12"  60x96"  Tinted glass, low iron glaincluding transparent m translucent interlayers. Intercept of the second s	INFERNOGARD 45-SP293  Multi-layer construction comprised of glass clad polycar Proprietary. Note: Contains abrasion resistant polycard UL Standard 752-Level II; .357 Magnum Jackete Rating Doors: UL 10(c), CAN/ULC S104(2015), NFF 56532; 45 Minute Fire Rating Wall/Window: ASTN Interteck Certification, Spec ID 56596  1.75"  1.62-1.95"  19.4 lbs./ft2  12x12"  60x96"  Tinted glass, low iron glass, printed (spandrel and including transparent mirror, bird friendly, insular translucent interlayers. Please note some options  Visible Light Solar Heat Gain Coefficient (SHGC) N/A ASTM C1036 ASTM C1349  NFPA 80  Isoclima Specialty Glass, LLC and Global Security Coefficient Special Speci	INFERNOGARD 45-SP293  Multi-layer construction comprised of glass clad polycarbonate and fire resistant Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe UL Standard 752-Level II; .357 Magnum Jacketed Lead Soft Point (No stating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck C56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 Interteck Certification, Spec ID 56596  1.75"  1.62-1.95"  19.4 lbs./ft2  12x12"  60x96"  Tinted glass, low iron glass, printed (spandrel and pattern screen printing including transparent mirror, bird friendly, insulating glass units (IGU), sw translucent interlayers. Please note some options may increase OA thicknown Visible Light  Transmission (VLT)  Visible Light  Transmission (VLT)  ASTM C1036  ASTM C1349  ANSI Z97.1/CPSC		

















Security Glazing							
PRODUCT NAME:	1 7/8" Clear INFERNOGARD 45-SP311						
PRODUCT CODE:	INFERNOGARD 45-SP31	L					
CONSTRUCTION:		Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.					
PERFORMANCE TESTING:	UL Standard 752-Level III;	.44 Magnum Lead S	emi-Wadcutter Gas Ch	ecked (No spall, no penetration) 45			
	56532; 45 Minute Fire Ratir	Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596					
THICKNESS: THICKNESS	1.87"						
TOLERANCE: WEIGHT:	1.73-2.08"						
MINIMUM SIZE:	21.1 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"			) glass, low-e glass, reflective glass			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	u-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
APPLICABLE STANDARDS:	ASTM C1036 NFPA 80	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC Program that ensures one f		= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	_	ca (GANA) Glazing and	Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a			
	Recommended Clearance:						
	Face: 1/8" per side						
	Edge: 3/8"						
	Bite: 1"						

















Security Glazing							
PRODUCT NAME:	2 1/16" Clear INFERN	OGARD 45-SP412					
PRODUCT CODE:	INFERNOGARD 45-SP4	412					
CONSTRUCTION:	'	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.					
PERFORMANCE TESTING:	UL Standard 752-Level IV; .30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber) (No spall, no penetration)						
		ating Wall/Window: ASTN		7) Interteck Certification, Spec ID 3 (R2015), CAN/ULC S101 (2014)			
THICKNESS: THICKNESS	2.02"						
TOLERANCE: WEIGHT:	1.86-2.24"						
MINIMUM SIZE:	22.8 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"						
		rror, bird friendly, insulat	ing glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value				
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
ADDUCADUS CTANDADOS	ASTM C1036	ASTM C1349	ANSI 797 1/CDSC	16 CFR 1201 (Cat I & II Impact)			
APPLICABLE STANDARDS:	NFPA 80		ANSI 237.17 CI 3C	. 10 CFR 1201 (Cat F & II IIIIpact)			
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and is	= :	vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am		Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a			
	Recommended Clearanc	e:					
	Face: 1/8" per side	е					
	Edge: 3/8"						
	Bite: 1"						

















PRODUCT NAME:	2 3/16" Clear INFERNOGARD 45-SP513						
PRODUCT CODE:	INFERNOGARD 45-SP513						
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary. Note: Contains abrasion resistant polycarbonate on the interior (safe) side for no spall protection.						
PERFORMANCE TESTING:	UL Standard 752-Level	UL Standard 752-Level V; 7.62mm Rifle Lead Core Full Metal Copper Jacket (No spall, no penetration					
	Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Interteck Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Interteck Certification, Spec ID 56596						
THICKNESS: THICKNESS	2.17"						
TOLERANCE: WEIGHT:	2.00-2.40"						
MINIMUM SIZE:	24.4 lbs./ft2						
MAXIMUM SIZE:	12x12"						
OPTIONS:	60x96"						
	including transparent m		ting glass units (IGU), sw	i) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value				
	Transmission (VLT) N/A	Coefficient (SHGC) N/A	(BTU/hr*ft² * °F) N/A	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time			
	ASTM C1036	ASTM C1349	,	ingo aranazie at the time			
APPLICABLE STANDARDS:	NFPA 80		ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.			
INSTALLATION:	Association of North Am		d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a			
	Recommended Clearance	ce:					
	Face: 1/8" per sid						
	Edge: 3/8"	•					
	Bite: 1"						

















Security diazing							
PRODUCT NAME:	UL Level 1 - Bullet Resistant Glass						
PRODUCT CODE:	BR-113	BR-113					
CONSTRUCTION:	Product is an all-glass co	nstruction. Exact Constru	uction is Proprietary.				
PERFORMANCE TESTING:	UL Standard 752-Level 1 Penetration	-UL Listed-File BP844; 9n	nm Full Metal Copper Ja	cket with Lead Core; No Spall, No			
THICKNESS:	1.295"						
THICKNESS TOLERANCE:	1.209-1.381"						
WEIGHT:	16.05 lbs./ft2						
MINIMUM SIZE:	12x12"						
MAXIMUM SIZE:	60x96"						
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase			
	0.78	0.67	0.85	info available at the time			
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)			
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.						
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a			
	Face: 1/8" per sid	e					
	Edge: 3/8"						
	Bite: 1"						
1							

















PRODUCT NAME:	UL Level 2 - Bullet Res	sistant Glass		
PRODUCT CODE:	BR-155			
CONSTRUCTION:	Product is an all-glass co	nstruction. Exact Constru	uction is Proprietary.	
PERFORMANCE TESTING:	UL Standard 752-Level 2	-UL Listed-File BP844; .3!	57 Magnum Jacketed Le	ad Soft Point; No Spall, No
	Penetration			
THICKNESS:	1.812"			
THICKNESS TOLERANCE:	1.691-1.935"			
WEIGHT:	22.51 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:		rror, bird friendly, insula	ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase
	0.74	0.64	0.75	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures or	· · · · · · · · · · · · · · · · · · ·	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	_	erica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a
	Edge: 3/8"			
	Bite: 1"			
	DICC. 1			

















PRODUCT NAME:	UL Level 3 - Bullet Res	sistant Glass		
PRODUCT NAME.	OL Level 3 - Bullet Res	sistant Glass		
PRODUCT CODE:	BR-233			
CONSTRUCTION:	Product is an all-glass co	nstruction. Exact Constru	uction is Proprietary.	
PERFORMANCE TESTING:	UL Standard 752-Level 3	-UL Listed-File BP844; .44	1 Magnum Lead Semi-W	/adcutter Gas Checked; No Spall, No
	Penetration			
THICKNESS:	2.136"			
THICKNESS TOLERANCE:	1.992-2.279"			
WEIGHT:	26.38 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database
	0.71	0.61	0.74	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per side	erica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a
	Edge: 3/8"			
	Bite: 1"			

















UL Level 8 - Secur-Tem + Poly				
DBP08				
			· ·	
		e Lead Core Full Metal (	Copper Jacket Military Ball (.308	
2.398"				
2.225-2.570"				
26.92 lbs./ft2				
12x12"				
60x96"				
including transparent mi	irror, bird friendly, insula	ting glass units (IGU), sv	witchable smart glass, tinted and	
Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
0.57	0.53	0.60	info available at the time	
ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	16 CFR 1201 (Cat I & II Impact)	
	•	• .		
Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to escare:	d Sealant Manuals. Glaz	ing systems should incorporate a	
	DBPO8  This product is a glass-cresistant coating on the UL 752-Level 8-UL Listed Caliber) Five (5) Shots; N 2.398" 2.225-2.570" 26.92 lbs./ft2 12x12" 60x96"  Tinted glass, low iron glaincluding transparent m translucent interlayers. A Visible Light Transmission (VLT) 0.57 ASTM C1036  Isoclima Specialty Glass, Program that ensures or All glass should be instal Association of North Amweep system to allow m Recommended Clearance Face: 1/8" per sid	This product is a glass-clad polycarbonate and coresistant coating on the witness (safe) side. Exact UL 752-Level 8-UL Listed-File BP844; 7.62mm Riff Caliber) Five (5) Shots; No Spall, No Penetration 2.398" 2.225-2.570" 26.92 lbs./ft2 12x12" 60x96" Tinted glass, low iron glass, printed (spandrel and including transparent mirror, bird friendly, insula translucent interlayers. Please note some options Visible Light Transmission (VLT) Coefficient (SHGC) 0.57 0.53 ASTM C1036 ASTM C1349  Isoclima Specialty Glass, LLC and Global Security of Program that ensures one firm has handled and in All glass should be installed in accordance with the Association of North America (GANA) Glazing and weep system to allow moisture and water to escape the system of the	This product is a glass-clad polycarbonate and contains an exposed poresistant coating on the witness (safe) side. Exact Construction is Propried UL 752-Level 8-UL Listed-File BP844; 7.62mm Rifle Lead Core Full Metal (Caliber) Five (5) Shots; No Spall, No Penetration 2.398"  2.225-2.570"  26.92 lbs./ft2  12x12"  60x96"  Tinted glass, low iron glass, printed (spandrel and pattern screen printing including transparent mirror, bird friendly, insulating glass units (IGU), so translucent interlayers. Please note some options may increase OA thick.  Visible Light Solar Heat Gain U-Value (BTU/hr*ft² * °F)  0.57 0.53 0.60  ASTM C1036 ASTM C1349 ANSI Z97.1/CPSC  Isoclima Specialty Glass, LLC and Global Security Glazing products are co Program that ensures one firm has handled and is accountable for all ph All glass should be installed in accordance with the guidelines set forth in Association of North America (GANA) Glazing and Sealant Manuals. Glaz weep system to allow moisture and water to escape the glazing channel Recommended Clearance: Face: 1/8" per side	

















Security Glazing				
PRODUCT NAME:	UL Level 1 - Secur-Ten	n + Poly		
PRODUCT CODE:	SP188			
CONSTRUCTION:		ad polycarbonate and co witness (safe) side. Exact	· · · · · · · · · · · · · · · · · · ·	carbonate wurface with an abrasion etary.
PERFORMANCE TESTING:	UL 752-Level I-UL Listed-	-File BP844; 9mm Full Me	tal Copper Jacket with	Lead Core; No Spall, No Penetration
THICKNESS:	.861"			
THICKNESS TOLERANCE:	.797923"			
WEIGHT:	9.65 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent mi		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL
	0.77	0.64	0.84	Window&OpticsSoftwarewiththelatestdatabase info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	C 16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security one firm has handled and i	= -	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am		l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a
	Recommended Clearanc	e:		
	Face: 1/8" per side			
	Edge: 3/8"	-		

















Security Glazing					
PRODUCT NAME:	UL Level 2 - Secur-Tem + Poly				
PRODUCT CODE:	SP293				
CONSTRUCTION:		clad polycarbonate and c witness (safe) side. Exact		ycarbonate wurface with an abrasio tary.	
PERFORMANCE TESTING:	UL 752-Level 2-UL Listed	l-File BP844; .357 Magnu	m Jacketed Lead Soft Po	int; No Spall, No Penetration	
THICKNESS:	.952"				
THICKNESS TOLERANCE:	.884-1.02"				
WEIGHT:	11.11 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"				
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value		
	Transmission (VLT)	Coefficient (SHGC)	$(BTU/hr*ft^2 * °F)$	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.78	0.63	0.84	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security one firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	nerica (GANA) Glazing and oisture and water to escand to escand water to escand	l Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a	
	Bite: 1"				

















Security Glazing				
PRODUCT NAME:	UL Level 3 - Secur-Ter	n + Poly		
PRODUCT CODE:	SP311			
CONSTRUCTION:		lad polycarbonate and c witness (safe) side. Exact	·	ycarbonate wurface with an abrasion tary.
PERFORMANCE TESTING:	UL 752-Level 3-UL Listed Penetration	-File BP844; .44 Magnum	Lead Semi-Wadcutter (	Gas Checked; No Spall, No
THICKNESS:	1.072"			
THICKNESS TOLERANCE:	.998-1.145"			
WEIGHT:	12.81 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m		ting glass units (IGU), sw	a) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.77	Solar Heat Gain Coefficient (SHGC) 0.62	U-Value (BTU/hr*ft² * °F) 0.83	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i	Glazing products are cov	vered by our Single Responsibility™
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a

















Security Glazing					
PRODUCT NAME:	UL Levi 4 - Secur-Tem + Poly				
PRODUCT CODE:	SP412				
CONSTRUCTION:		lad polycarbonate and c witness (safe) side. Exact	• •	lycarbonate wurface with an abrasio etary.	
PERFORMANCE TESTING:	UL 7520 Level 40-UL List Penetration	ed-File BP844; .30 Calibe	r Rifle Lead Core Soft P	oint (.30-06 Caliber); No Spall, No	
THICKNESS:	1.22"				
THICKNESS TOLERANCE:	1.13-1.31"				
WEIGHT:	14.5 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"				
OPTIONS:	including transparent m		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.75	0.60	0.81	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	C 16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am		l Sealant Manuals. Glaz	n the current edition of the Glass ling systems should incorporate a	
	Recommended Clearance	e:			
	Face: 1/8" per side	e			
	Edge: 3/8"				

















UL Level 5 - Secur-Tem + Poly				
SP513				
	• •	·	•	
	·	e Lead Core Full Metal (	Copper Jacket Military Baoll (.308	
1.372"				
1.272-1.471"				
16.09 lbs./ft2				
12x12"				
60x96"				
including transparent mi	rror, bird friendly, insula	ting glass units (IGU), sv	witchable smart glass, tinted and	
Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
0.74	0.59	0.8	info available at the time	
ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	C 16 CFR 1201 (Cat I & II Impact)	
· ·	· · · · · · · · · · · · · · · · · · ·	= :		
Association of North Am weep system to allow me	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glaz	ing systems should incorporate a	
Face: 1/8" per side Edge: 3/8"	9			
	SP513  This product is a glass-cresistant coating on the UL 752-Level 5-UL Listed Caliber) One (1) Shot; No. 1.372" 1.272-1.471" 16.09 lbs./ft2 12x12" 60x96"  Tinted glass, low iron glaincluding transparent mitranslucent interlayers. If the company of the coatenate of th	This product is a glass-clad polycarbonate and coresistant coating on the witness (safe) side. Exact UL 752-Level 5-UL Listed-File BP844; 7.62mm Rifle Caliber) One (1) Shot; No Spall, No Penetration 1.372" 1.272-1.471" 16.09 lbs./ft2 12x12" 60x96" Tinted glass, low iron glass, printed (spandrel and including transparent mirror, bird friendly, insular translucent interlayers. Please note some options  Visible Light Transmission (VLT) O.74 O.59 ASTM C1036 ASTM C1349  Isoclima Specialty Glass, LLC and Global Security Organ that ensures one firm has handled and in the Association of North America (GANA) Glazing and weep system to allow moisture and water to escale Recommended Clearance:	SP513  This product is a glass-clad polycarbonate and contains an exposed poresistant coating on the witness (safe) side. Exact Construction is Propriet UL 752-Level 5-UL Listed-File BP844; 7.62mm Rifle Lead Core Full Metal (Caliber) One (1) Shot; No Spall, No Penetration  1.372"  1.272-1.471"  16.09 lbs./ft2  12x12"  60x96"  Tinted glass, low iron glass, printed (spandrel and pattern screen printing including transparent mirror, bird friendly, insulating glass units (IGU), stranslucent interlayers. Please note some options may increase OA thicks  Visible Light Solar Heat Gain U-Value  Transmission (VLT) Coefficient (SHGC) (BTU/hr*ft² * °F)  0.74 0.59 0.8  ASTM C1036 ASTM C1349 ANSI Z97.1/CPSC  Isoclima Specialty Glass, LLC and Global Security Glazing products are co Program that ensures one firm has handled and is accountable for all ph  All glass should be installed in accordance with the guidelines set forth in Association of North America (GANA) Glazing and Sealant Manuals. Glaz weep system to allow moisture and water to escape the glazing channel Recommended Clearance:	

















PRODUCT NAME:	UL Level 7 - Secur-Ter	m + Poly		
	or rever 7 seeds for			
PRODUCT CODE:	SP719			
CONSTRUCTION:		ad polycarbonate and co witness (safe) side. Exact		carbonate wurface with an abrasion stary.
PERFORMANCE TESTING:	UL 752-Level 7-UL Listed	File BP844; 5.56mm Rifl	e Full Metal Coper Jacke	et with Lead; No Spall, No Penetration
THICKNESS:	1.932"			
THICKNESS TOLERANCE:	1.799-2.065"			
WEIGHT:	23.952 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.69	Solar Heat Gain Coefficient (SHGC) 0.54	U-Value (BTU/hr*ft² * °F) 0.73	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:			ANSI Z97.1/CPSC	: 16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	erica (GANA) Glazing and oisture and water to esc	l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a
	Bite: 1"			

















PRODUCT NAME:	NIJ Level IIA - Bullet R	Resistant Glass		
PRODUCT CODE:	BR-113			
CONSTRUCTION:	Product is an all-glass co	nstruction. Exact Constru	iction is Proprietary.	
PERFORMANCE TESTING:	National Institute of Just	ice-0108.01-Level IIA; .3!	7 Magnum Jacketed Sc	oft Point; 9mm Full Metal Jacket; No
	Spall, No Penetration			
THICKNESS:	1.295"			
THICKNESS TOLERANCE:	1.209-1.381"			
WEIGHT:	16.05 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent mi		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase
	0.78	0.67	0.85	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to escare:	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a
	Bite: 1"			

















Security Glazing				
PRODUCT NAME:	Lexgard MP750			
PRODUCT CODE:	MP750			
CONSTRUCTION:	Product is a laminated poth sides. Exact Constr	· ·	ns exposed polycarbon	ate with abrasion resistant coatings o
PERFORMANCE TESTING:		-Fil eBP844; 9mm Full Me mm, 124 grain Full Metal	• •	Lead Core; NIJ-STD-0108.01 Level IIA netration
THICKNESS:	.766"			
THICKNESS TOLERANCE:	.690842"			
WEIGHT:	4.76 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.80	Solar Heat Gain Coefficient (SHGC) 0.78	U-Value (BTU/hr*ft² * °F) 0.67	*Transmittance values are calculated using LBNL Window & Optics Software with the latest databas info available at the time
	ASTM C1036	ASTM C1172		
APPLICABLE STANDARDS:			ANSI Z97.1/CPSC	C 16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	· ·	, LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am	nerica (GANA) Glazing and noisture and water to esca	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a
	Face: 1/8" per sid	e		
	Face: 1/8" per sid Edge: 3/8"	e		

















DDODUCT NAME					
PRODUCT NAME:	Lexgard SP 1250				
PRODUCT CODE:	SP 1250				
CONSTRUCTION:	'	ted polycarbonate and th sides. Exact Constructi	·	ycarbonate suerfaces with abrasion	
PERFORMANCE TESTING:	ASTM F1233 Class V; AST	ΓM 1915 Grade 1; HP Wh	ite Level V-TP-0500.02 \	WMFL Level I	
	National Institute of Jus Penetration	tice-0108.01-Level IIA; .4	4 magnum Lead Semi-	Wadcutter Gas Checked; No Spall, No	
THICKNESS: THICKNESS	1.28"	1.28"			
TOLERANCE: WEIGHT:	1.15-1.41"				
MINIMUM SIZE:	7.97 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
	_	rror, bird friendly, insula	ting glass units (IGU), sv	glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database	
	0.73	0.86	0.55	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures or	•	• .	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:		erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a	
	Face: 1/8" per side				
	Edge: 3/8"	-			
	Bite: 1"				

















PRODUCT NAME:	NIJ Level IIA - Secur-T	NIJ Level IIA - Secur-Tem + Poly				
PRODUCT CODE:	SP175					
CONSTRUCTION:		lucarbanata and contain	s avacced nelveerbone	ate surface with an aprasion resistan		
CONSTRUCTION.	- '	safe) side. Exact Construc		ite surface with an aprasion resistan		
PERFORMANCE TESTING:	National Insittude of Jus Spall, No Penetration	tice-0108.01-Level IIA; .3	57 Magnum Jacketed Sc	oft Point; 9mm Full Metal Jacket; No		
THICKNESS:	.681"					
THICKNESS TOLERANCE:	.634728"					
WEIGHT:	7.84 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	including transparent m		ting glass units (IGU), sw	g) glass, low-e glass, reflective glass witchable smart glass, tinted and seess.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	0.81	0.69	0.86	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	·	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	i i	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to escare:	d Sealant Manuals. Glazi	n the current edition of the Glass ng systems should incorporate a		

















PRODUCT NAME:	NIJ Level IIA - Secur-T	em + Poly		
PRODUCT CODE:	SP188			
CONSTRUCTION:		llycarbonate and contain safe) side. Exact Construc		ate surface with an aprasion resistan
PERFORMANCE TESTING:	Spall, No Penetration	tice-0108.01-Level IIA; .3!	57 Magnum Jacketed Sc	oft Point; 9mm Full Metal Jacket; No
THICKNESS:	.861"			
THICKNESS TOLERANCE:	.797923"			
WEIGHT:	9.65 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m	· ·	ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase
	0.77	0.64	0.84	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am	nerica (GANA) Glazing and oisture and water to esc	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a

















PRODUCT NAME:	NIII Lovel IIIA Coord	Tom I Doly		
PRODUCT NAME.	NIJ Level IIIA - Secur-	iem + Poly		
PRODUCT CODE:	SP412			
CONSTRUCTION:		lycarbonate and contain safe) side. Exact Construc		te surface with an aprasion resistant
PERFORMANCE TESTING:	Metal Jacket; No Spall, N		1 Magnum Lead Semi-W	/adcutter Gas Checked; 9mm Full
THICKNESS:	1.220"			
THICKNESS TOLERANCE:	1.130-1.310"			
WEIGHT:	14.5 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase
	0.75	0.6	0.81	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and		vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am	nerica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a

















DDODUCT NAME:				
PRODUCT NAME:	NIJ Level III - Secur-Te	em + Poly		
PRODUCT CODE:	SPN316			
CONSTRUCTION:	Product is glass-clad po coating on the witness (	-		te surface with an aprasion resistant
PERFORMANCE TESTING:	National Institute of Just Penetration	ice-0108.01-Level III; 7.6	2mm (.308 Winchester)	) Full Metal Jacket; No Spall, No
THICKNESS:	1.572"			
THICKNESS TOLERANCE:	1.461-1.683"			
WEIGHT:	18.39 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:		irror, bird friendly, insula	ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase
	0.73	0.58	0.74	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures or	•		vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	_	erica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a

















Security Glazing					
PRODUCT NAME:	NIJ Level IV - Secur-Tem + Poly				
PRODUCT CODE:	SPN420				
CONSTRUCTION:		lycarbonate and contain safe) side. Exact Construc	• • •	te surface with an aprasion resistant	
PERFORMANCE TESTING:	National Institute of Just	tice-0108.01-Level IV; .30	-06 Armor Piercing; No	Spall, No Penetration	
THICKNESS:	2.163"				
THICKNESS TOLERANCE:	2.010-2.316"				
WEIGHT:	25.3 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"				
OPTIONS:	including transparent m		ting glass units (IGU), s	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.64	0.54	0.68	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPS0	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	· · ·	LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Amweep system to allow m	nerica (GANA) Glazing and noisture and water to esca	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a	
	Recommended Clearance				
	Face: 1/8" per sid	e			
	Edge: 3/8"				
	Bite: 1"				

















Security Glazing				
PRODUCT NAME:	UL Level 1-Air Gap (A	G) Unit		
PRODUCT CODE:	IC-1			
CONSTRUCTION:	laminated polycarbonate edge spacer and seal sys	e. The two lites are seper stem. Exact Construction	ated by an air space wh is Proprietary.	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:	UL 752-Level I-UL Listed	-File BP844; 9mm Full Me	tal Copper Jacket with I	ead Core; No Spall, No Penetration
	,	ΓM 1915 Grade 4HP Whit	e Level I-TP-0500.02	
THICKNESS: THICKNESS	1.0915"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	7.33 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
TECHNICAL DATA:		irror, bird friendly, insulat Please note some options Solar Heat Gain Coefficient (SHGC) 0.61		vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	ASTM C1036	ASTM C1172		
APPLICABLE STANDARDS:			ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and is	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Am weep system to allow m	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a
	Recommended Clearance			
	Face: 1/8" per side	e		
	Edge: 3/8"			
	Bite: 1"			

















Security Glazing				
PRODUCT NAME:	UL Level 1-Air Gap (A	G) Unit		
PRODUCT CODE:	IC-111.5			
CONSTRUCTION:	laminated polycarbonate		ated by an air space wh	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:		·		ead Core; No Spall, No Penetration
		TM 1915 Grade 3; HP Wh	ite Level II-TP-0500.02;	WMFL Level III
THICKNESS: THICKNESS	.883"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	5.65 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
TECHNICAL DATA:		Please note some options  Solar Heat Gain  Coefficient (SHGC) 0.65		vitchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
			0.48	info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass,	LLC and Global Security (	·	vered by our Single Responsibility™
		ne firm has handled and is	= :	
INSTALLATION:	Association of North Am		l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a
	Recommended Clearance	e:		
	Face: 1/8" per side	е		
	Edge: 3/8"			
	Bite: 1"			















# Specialty Glass, LLC PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 2-Air Gap (AG	3) Unit		
PRODUCT CODE:	IC-221.5			
CONSTRUCTION:	laminated polycarbonate edge spacer and seal sys	e. The two lites are seper tem. Exact Construction	ated by an air space wh is Proprietary.	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:	ASTM F1233 Class III; AST	•		int; No Spall, No Penetration WMFL Level III
THICKNESS:	1.112"			
THICKNESS TOLERANCE:				
WEIGHT:	8.99 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:		rror, bird friendly, insula	ting glass units (IGU), sw	) glass, low-e glass, reflective glass vitchable smart glass, tinted and less.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.67	Solar Heat Gain Coefficient (SHGC) 0.59	U-Value (BTU/hr*ft² * °F) 0.48	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Program that ensures on	e firm has handled and i	Glazing products are cov s accountable for all pha	rered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	Association of North Amweep system to allow more Recommended Clearance Face: 1/8" per side Edge: 3/8"	erica (GANA) Glazing and oisture and water to escand water to escand escand	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a
	Bite: 1"			



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Security Glazing				
PRODUCT NAME:	UL Level 3-Air Gap (A	G) Unit		
PRODUCT CODE:	IC-322			
CONSTRUCTION:	laminated polycarbonate		ated by an air space wh	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:	Penetration	-File BP844; .44 Magnum TM 1915 Grade 2; HP Wh		Gas Checked No Spall, No WMFL Level II
THICKNESS: THICKNESS	1.220"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	9.64 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
TECHNICAL DATA:	including transparent mi translucent interlayers. I	irror, bird friendly, insular Please note some options	ting glass units (IGU), sw	a) glass, low-e glass, reflective glass witchable smart glass, tinted and plass.
TECHNICAL DATA.	Visible Light Transmission (VLT) 0.63	Solar Heat Gain Coefficient (SHGC) 0.58	(BTU/hr*ft² * °F) 0.46	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
A DDI ICADI E CTANDADOC.	ASTM C1036	ASTM C1172	ANSI 707 1 /CDSC	16 CFR 1201 (Cat I & II Impact)
APPLICABLE STANDARDS: SINGLE RESPONSIBILITY:	Isaslima Spacialty Glass	LLC and Global Socurity (		vered by our Single Responsibility™
SINGLE RESPONSIBILITY.	Program that ensures or	ne firm has handled and is	s accountable for all pha	ases of manufacturing.
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a
	Face: 1/8" per side			
	Edge: 3/8"			

















Security Glazing				
PRODUCT NAME:	UL Level 4 Air Gap (AG	G) Unit		
PRODUCT CODE:	IC-433			
CONSTRUCTION:	laminated polycarbonate		ated by an air space wh	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:	Penetration	-File BP844; .30 Caliber R TM 1915 Grade 1; HP Wh		t (.30-06 Caliber); No Spall, No
THICKNESS: THICKNESS	1.795"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	14.84 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
	including transparent mi translucent interlayers. I	rror, bird friendly, insula Please note some options	ting glass units (IGU), sw may increase OA thickn	glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.54	Solar Heat Gain Coefficient (SHGC) 0.49	U-Value (BTU/hr*ft² * °F) 0.41	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	ASTM C1036	ASTM C1172	ANCI 707 1 /CDCC	16 CED 1201 (Cat I & II Impact)
APPLICABLE STANDARDS:	Isaalima Chasialty Class	LLC and Clabal Sagurity		16 CFR 1201 (Cat I & II Impact) vered by our Single Responsibility™
SINGLE RESPONSIBILITY:	The state of the s	ne firm has handled and i	= :	
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a
	Face: 1/8" per side			
	Edge: 3/8"			
	Bite: 1"			

















PRODUCT NAME:	UL Level 8-Air Gap (AG	G) Unit		
PRODUCT CODE:	IC-830			
CONSTRUCTION:		e. The two lites are seper	ated by an air space wh	laminated glass and an interior lite of ich is created using a propriteary
PERFORMANCE TESTING:	UL 752-Level 8-UL Listed No Spall, No Penetration ASTM F 1233 Class V; HP	·		er Jacket; Military Ball (.308 Caliber);
THICKNESS: THICKNESS	3.01"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	27.21 lbs./ft2			
MAXIMUM SIZE:	12x12"			
OPTIONS:	60x96"			
		rror, bird friendly, insula	ting glass units (IGU), sw may increase OA thickn	) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.48  ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.44 ASTM C1172	U-Value (BTU/hr*ft² * °F) 0.36	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
APPLICABLE STANDARDS:	ASTIVI C1030	ASTIVICITY2	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures on	· · · · · · · · · · · · · · · · · · ·	= :	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:		erica (GANA) Glazing and pisture and water to escan	l Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a



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Security Glazing						
PRODUCT NAME:	SECUR-TEM + POLY 2	114				
PRODUCT CODE:	2114					
CONSTRUCTION:		his product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened class on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level III-TP-05	P White Level III-TP-0500.02; ASTM 1915 Grade 2; WMFL Level II				
	.38 special handgun, 3 shots in an 8" circle, 158 grain, 20 feet; .357 magnum revolver, 3 shots in an 8" circle, 158 grain, 25 feet; Spall with no penetration					
THICKNESS: THICKNESS	.856"	356"				
TOLERANCE: WEIGHT:	.776936"	776936"				
MINIMUM SIZE:	7.0 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:	60x96"					
	including transparent m		ting glass units (IGU), sw	) glass, low-e glass, reflective glass vitchable smart glass, tinted and less.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database		
	0.69	0.80	0.70	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ eses of manufacturing.		
INSTALLATION:	Association of North Am weep system to allow m	nerica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
	Recommended Clearance					
	Face: 1/8" per sid Edge: 3/8"	е				
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	SECUR-TEM + POLY 2:	SECUR-TEM + POLY 2115				
PRODUCT CODE:	2115					
CONSTRUCTION:	This product is a symme on both exposed surface		_	nened or chemically strengthened glass		
PERFORMANCE TESTING:	HP White Lvel II-TP-0500	0.02; WMFL Level III; AST	M 1915 Grade 2 (40 min	utes)		
	.38 special handgun, 3 s feet; Spall with no penet	·	grain, 20 feet; 9mm, 3	shots in an 8" circle, 158 grain lead, 20		
THICKNESS: THICKNESS	.754"					
TOLERANCE: WEIGHT:	584824"					
MINIMUM SIZE:	6.3 lbs./ft2					
MAXIMUM SIZE:	12x12"					
OPTIONS:		50x96" Finted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass				
				vitchable smart glass, tinted and		
	translucent interlayers.			<b>G</b> ,		
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value	*Transmittance values are calculated using LBNL		
	Transmission (VLT) 0.73	Coefficient (SHGC) 0.81	(BTU/hr*ft² * °F) 0.74	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time		
	ASTM C1036	ASTM C1349	ANCI 707 1 /CDCC	16 CFR 1201 (Cat I & II Impact)		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI 297.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures or			vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:		erica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a		
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	SECUR-TEM + POLY 2:	SECUR-TEM + POLY 2116				
PRODUCT CODE:	2116	2116				
CONSTRUCTION:	1	his product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthene lass on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level II-TP-050	00.02; ASTM 1915 Grade	3			
	.38 Special handgun, 3 caliber, 25 feet; Spall with	·	58 grain lead, 20 feet; .	9mm handgun, 124 grain lead, FMJ		
THICKNESS: THICKNESS	.7245"					
TOLERANCE: WEIGHT:	558791"					
MINIMUM SIZE:	6.2 lbs./ft2	2 lbs./ft2				
MAXIMUM SIZE:	12x12"					
OPTIONS:	50x96"					
				) glass, low-e glass, reflective glass vitchable smart glass, tinted and		
	translucent interlayers.			<u> </u>		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.73	0.80	0.76	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
	ASTM C1048	ASTM C1422				
SINGLE RESPONSIBILITY:	1	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearance	e:				
	Face: 1/8" per side	e				
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing					
PRODUCT NAME:	SECUR-TEM + POLY 2117				
PRODUCT CODE:	2117				
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthene glass on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level I-TP-050	0.02; ASTM 1915 Grade 4			
	.38 Special handgun, 3 s	.38 Special handgun, 3 shots in an 8" circle, 158 grain lead, 20 feet; Spall with no penetration			
THICKNESS:	.569"				
THICKNESS TOLERANCE:	.518620"				
WEIGHT:	5.22 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"				
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .				
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value		
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft <sup>2</sup> * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.77	0.83	0.82	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.				
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance Face: 1/8" per side				
	Edge: 3/8"	C			
	Bite: 1"				

















PRODUCT NAME:	SECUR-TEM + POLY 2119				
PRODUCT CODE:	2119				
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthene glass on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level I-TP-050	0.02			
		.38 Special handgun, 3 shots in an 8" circle, 158 grain lead, 20 feet; Spall with no penetration			
THICKNESS:	.467"				
THICKNESS TOLERANCE:	.426508"				
WEIGHT:	4.58 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"			g) glass, low-e glass, reflective glass	
	translucent interlayers.	Please note some options	may increase OA thick	witchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase	
	382	0.84	0.88	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	C 16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.				
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	nerica (GANA) Glazing and oisture and water to escand water to escand es	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a	
	Bite: 1"				

















Security Glazing				
PRODUCT NAME:	9/16" PSYCH-2118			
PRODUCT CODE:	PSYCH2118			
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat treated glass on both exposed surface Exact Construction is Proprietary.			
PERFORMANCE TESTING:	ASTM F1233 Glass 1.4			
	Tested to comply with 2	014 GFI Guidelines for Ho	spitals and Outpatient F	facilities.
THICKNESS:	.527"			
THICKNESS TOLERANCE:	.479573"			
WEIGHT:	4.95 lbs./ft2			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase
	0.82	0.73	0.84	info available at the time
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i	• .	vered by our Single Responsibility™ ases of manufacturing.
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.			
	Recommended Clearance	e:		
	Face: 1/8" per sid	e		
	Edge: 3/8"			
	Bite: 1"			

















DDODLICT NAME.	CECUID TENA - DOLLA CO	0040				
PRODUCT NAME:	SECUR-TEM + POLY SI	P019				
PRODUCT CODE:	SP019					
CONSTRUCTION:		his product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthene lass on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level III-TP-05	00.02; ASTM 1915 Grade	2; WMFL Level III			
		B-TP-0500.02; 38 Specia in lead, FMJ caliber, 25 fe	_	nn 8" Circle, 158 Grain lead, 20 feet;		
THICKNESS. THICKNESS	.7125"	ili lead, i ivij caliber, 25 le	et, Span with no penetr	ation		
THICKNESS: THICKNESS	.647778"					
TOLERANCE: WEIGHT:	.1 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE: OPTIONS:	50x96"					
	including transparent m		ting glass units (IGU), sw	glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.73	0.81	0.75	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.		
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should inco weep system to allow moisture and water to escape the glazing channel.  Recommended Clearance: Face: 1/8" per side					
	Edge: 3/8"					
	Bite: 1"					

















Security Glazing						
PRODUCT NAME:	SECUR-TEM + POLY SP028					
PRODUCT CODE:	SP028					
CONSTRUCTION:	· · · · · · · · · · · · · · · · · · ·	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthen glass on both exposed surfaces. Exact Construction is Proprietary.				
PERFORMANCE TESTING:	HP White Level IV-TP-05	00.02; ASTM 1915 Grade	1; WMFL Level II			
	.9mm, 3 shots in an 8" Circle, 158 grain lead, 20 feet; Spall with no penetration					
THICKNESS:	.970"					
THICKNESS TOLERANCE:	.880-1.06"					
WEIGHT:	7.70 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:		irror, bird friendly, insula	ting glass units (IGU), sv s may increase OA thicki	g) glass, low-e glass, reflective glass vitchable smart glass, tinted and ness.		
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.67	0.80	0.67	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.					
INSTALLATION:	_	erica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a		

















Security Glazing						
PRODUCT NAME:	SECUR-TEM + POLY SP035					
PRODUCT CODE:	SP035					
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthene glass on both exposed surfaces. Exact Construction is Proprietary.					
PERFORMANCE TESTING:	ASTM 1915 Grade 1; WN	ΛFL Level I				
	.44 magnum revolver, 25	.44 magnum revolver, 25 rounds, 240 grain; Soft point ammunition, 29 feet; Spall with no penetration.				
THICKNESS:	1.223"					
THICKNESS TOLERANCE:	1.124-1.327"					
WEIGHT:	11.2 lbs./ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .					
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.65	0.75	0.64	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC	2 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.					
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	erica (GANA) Glazing and oisture and water to esc	d Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		
	Bite: 1"					

















PRODUCT NAME:	ARMORGARD™ Ultimate ASTM F1233 FORCED ENTRY/NIJ IIIA BULLET RESISTANT SECURITY LAMINATE (FE/BR)					
PRODUCT CODE:	SP3A13	SP3A13				
CONSTRUCTION:	This is a glass laminate, no exposed plastic (polycarbonate, PET, etc.). Exact Construction is Proprietary.					
PERFORMANCE TESTING:	ASTM F1233-21 Class 2.3	STM F1233-21 Class 2.3 Contraband, Class 3.3 Body				
	NIJ 0108.01 Level IIIA 5 s	shots 44 Magnum SWCG0	C + 5 shots 9mm FMJ Pr	otection		
THICKNESS:	1.3"					
THICKNESS TOLERANCE:	1.159-1.350"					
WEIGHT:	12.28 lbs/ft <sup>2</sup>					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .					
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.683	0.666	0.644	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349	ANSI Z97.1/CPSC	C 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.					
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to escand water to escand escand	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a		

















Security Glazing						
PRODUCT NAME:	SECUR-LITE 3X					
PRODUCT CODE:	SL716-3X					
CONSTRUCTION:	Exact Construction is Proprietary.					
PERFORMANCE TESTING:	Secur-Lite 3X products a	re chemically or heat stre	engthened all glass lami	nates designed to protect against		
	physical attack. Tested b	physical attack. Tested by Patzig Testing Laboratories, Inc. Meets ANSI Z97.1 Impact Resistance				
THICKNESS:	.495"					
THICKNESS TOLERANCE:	.453534"					
WEIGHT:	5.60 lbs/ft2					
MINIMUM SIZE:	12x12"					
MAXIMUM SIZE:	60x96"					
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .					
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value			
	Transmission (VLT)	Coefficient (SHGC)	$(BTU/hr*ft^2 * °F)$	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase		
	0.87	0.83	0.92	info available at the time		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™  Program that ensures one firm has handled and is accountable for all phases of manufacturing.					
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.					
	Recommended Clearanc	e:				
	Face: 1/8" per side	e				
	Edge: 3/8"					
	Bite: 1"					

















PRODUCT NAME:	SECUR-LITE 4X				
PRODUCT CODE:	SL916-4X				
CONSTRUCTION:	Exact Construction is Proprietary.				
PERFORMANCE TESTING:	Secur-Lite 4X products a	re chemically or heat stre	engthened all glass lami	inates designed to protect against	
	physical attack. Tested b	physical attack. Tested by Patzig Testing Laboratories, Inc. Meets ANSI Z97.1 Impact Resistance			
THICKNESS:	.680"				
THICKNESS TOLERANCE:	.622734"				
WEIGHT:	6.52 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"				
OPTIONS:	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .				
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value		
	Transmission (VLT)	Coefficient (SHGC)	(BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.86	0.79	0.88	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPS0	C 16 CFR 1201 (Cat I & II Impact)	
	ASTM C1048	ASTM C1422			
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, Program that ensures on	· · · · · · · · · · · · · · · · · · ·	= -	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance	e:			
	Face: 1/8" per side				
	Edge: 3/8"				

















Security Glazing					
PRODUCT NAME:	SECUR-LITE 5X				
PRODUCT CODE:	SL1316-5X				
CONSTRUCTION:	Exact Construction is Pro	Exact Construction is Proprietary.			
PERFORMANCE TESTING:	Secur-Lite 5X products are chemically or heat strengthened all glass laminates designed to protect against physical attack Testing by Froehling & Robertson Inc. Meets approximately 30 minutes of physical attack				
THICKNESS:	.865" .791934" 9.57 lbs./ft2 12x12" 60x96" Tinted glass, low iron glass, printed (spandrel and pattern scre				
THICKNESS TOLERANCE:	printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass un				
WEIGHT:	(IGU), switchable smart	glass, tinted and translu	cent interlayers. <i>Please</i>	note some options may increase OA	
MINIMUM SIZE:	thickness.				
MAXIMUM SIZE:					
OPTIONS:					
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL	
	0.84	0.75		Window&OpticsSoftwarewiththelatestdatabase	
	ASTM C1036	0.73 ASTM C1172	0.83	info available at the time	
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1172 ASTM C1422	ANSI 297.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.				
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Gl Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporat weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance:				
	Face: 1/8" per sid				
	Edge: 3/8"	-			
	Bite: 1"				

















PRODUCT CODE: S	5/16" SECUR-LITE UL SL516U				
	L516U				
CONSTRUCTION	SL516U				
EGNSTRUCTION.	Exact Construction is Proprietary.				
ir H p L	UL Standard 972; Multiple Impact Test: Tested by Underwriters Laboratories. Resists five 50 foot-pound impacts of a steel ball from a height of 10 feet without penetrating the glass.  High Energy Impact Test: Tested by Underwriters Laboratories. Resists one 200 foot-pound impact of a five pound steel ball from a height of 40 feet.  Laminated glass is in compliance with Solutia's Keep-Safe certification program3125"				
THICKNESS THICKNESS	284334"				
TOLERANCE: WEIGHT:	3.69 lbs/ft2 .2x12"				
RAINIIRALIRA CIZE.	60x96"				
NAAVINALINA CIZE.		ass, printed (spandrel and	pattern screen printing	g) glass, low-e glass, reflective glass	
		Please note some options		vitchable smart glass, tinted and	
TECHNICAL DATA:	Visible Light	Solar Heat Gain	U-Value		
	Transmission (VLT)	Coefficient (SHGC)	$(BTU/hr*ft^2 * °F)$	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.88	0.88	0.98	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1172 ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)				
	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.				
	_		_	n the current edition of the Glassing systems should incorporate a	
		oisture and water to esca	ape the glazing channel.		
\ \			ape the glazing channel.		





Edge:

Bite:

3/8"

1"













PRODUCT NAME:	7/16" SECUR-LITE UL				
PRODUCT CODE:	SL716U				
CONSTRUCTION:	Exact Construction is Proprietary. UL Standard 972; Multiple Impact Test: Tested by Underwriters				
PERFORMANCE TESTING:	Laboratories. Resists five 50 foot-pound impacts of a steel ball from a height of 10 feet without penetrating the glass.  High Energy Impact Test: Tested by Underwriters Laboratories. Resists one 200 foot-pound impact of a five pound steel ball from a height of 40 feet.  Laminated glass is in compliance with Solutia's Keep-Safe certification program.				
THICKNESS: THICKNESS	.451"				
TOLERANCE: WEIGHT:	.428480"				
MINIMUM SIZE:	5.324 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
TECHNICAL DATA:	translucent interlayers.	Please note some options	, ,	vitchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	(BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.683	0.666	0.644	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1172 ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)				
SINGLE RESPONSIBILITY:	The state of the s	LLC and Global Security on the firm has handled and i		vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am weep system to allow m  Recommended Clearance Face: 1/8" per sid Edge: 3/8"	erica (GANA) Glazing and oisture and water to esca	d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a	
	Bite: 1"				

















Security Glazing					
PRODUCT NAME:	9/16" SECUR-LITE UL				
PRODUCT CODE:	SL916U				
CONSTRUCTION:	Exact Construction is Proprietary.				
PERFORMANCE TESTING:	impacts of a steel ball from this ball from a laminated glass is in correct to the steel ball from a laminated glass is in correct to the steel ball from a laminated glass is in correct to the steel ball from the steel ball from a laminated glass is in correct to the steel ball from th	om a height of 10 feet wi : Tested by Underwriters	thout penetrating the g Laboratories. Resists or	ne 200 foot-pound impact of a five	
THICKNESS: THICKNESS	.519587"				
TOLERANCE: WEIGHT:	7.05 lbs./ft2				
MINIMUM SIZE:	12x12"				
MAXIMUM SIZE:	60x96"	uss printed (spandral and	nattorn scroon printing	g) glass, low-e glass, reflective glass	
	,	Please note some options		vitchable smart glass, tinted and	
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*Transmittance values are calculated using LBNL	
	0.86	0.81	0.93	Window&OpticsSoftwarewiththelatestdatabase info available at the time	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1172	ANSI Z97.1/CPSC	: 16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:	Isoclima Specialty Glass, LLC and Global Security Glazing products are covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.				
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to esca	l Sealant Manuals. Glazi	n the current edition of the Glass ing systems should incorporate a	





Face:

Edge: Bite:

1/8" per side

3/8"













DDODLICT NAME:	CECUP TELLS				
PRODUCT NAME:	SECUR-TEM 3				
PRODUCT CODE:	SM3				
CONSTRUCTION:	Exact Construction is Proprietary.				
PERFORMANCE TESTING:	Secur-Tem products are chemically or heat strengthened all glass laminates designed to protect against physical attack.  Testing By Froehling & Robertson Inc and Wiss, Janney, Eistner Associates, Inc. Meets approximately 10-15 minutes of physical attack.				
THICKNESS: THICKNESS	.554"				
TOLERANCE: WEIGHT:	.507600"				
MINIMUM SIZE:	5.938 lb./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	including transparent m		ting glass units (IGU), sv	g) glass, low-e glass, reflective glass witchable smart glass, tinted and ness.	
TECHNICAL DATA:	Visible Light Transmission (VLT) 0.86	Solar Heat Gain Coefficient (SHGC) 0.71	U-Value (BTU/hr*ft² * °F) 0.89	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:		LLC and Global Security ( ne firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am	erica (GANA) Glazing and oisture and water to escand	l Sealant Manuals. Glaz	n the current edition of the Glass ing systems should incorporate a	
	Bite: 1"				

















PRODUCT NAME:	SECUR-TEM 4				
PRODUCT CODE:	SM4				
CONSTRUCTION:	Exact Construction is Proprietary.				
PERFORMANCE TESTING:	Secur-Tem products are chemically or heat strengthened all glass laminates designed to protect against physical attack.  Testing By Froehling & Robertson Inc and Wiss, Janney, Eistner Associates, Inc. Meets approximately 20-25 minutes of physical attack.				
THICKNESS: THICKNESS	.770"				
TOLERANCE: WEIGHT:	.703833				
MINIMUM SIZE:	8.09 lbs/ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
TECHNICAL DATA:	- '	Please note some options Solar Heat Gain Coefficient (SHGC) 0.77		witchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance:				
	Face: 1/8" per side				
	Edge: 3/8"	<b>C</b>			
	Bite: 1"				
1					















#### **PRODUCT SPECIFICATIONS**



PRODUCT NAME:	SECUR-TEM 5				
PRODUCT CODE:	SM5				
CONSTRUCTION:	Exact Construction is Proprietary.				
PERFORMANCE TESTING:	Secur-Tem products are chemically or heat strengthened all glass laminates designed to protect against physical attack.  Testing By Froehling & Robertson Inc and Wiss, Janney, Eistner Associates, Inc. Meets approximately 30-35 minutes of physical attack.				
THICKNESS: THICKNESS	.985"				
TOLERANCE: WEIGHT:	.899-1.066"				
MINIMUM SIZE:	10.23 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
TECHNICAL DATA:		Please note some options  Solar Heat Gain  Coefficient (SHGC)		witchable smart glass, tinted and ness.  *Transmittance values are calculated using LBNL Window & Optics Software with the latest database	
	0.83	0.74	0.74	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)		
SINGLE RESPONSIBILITY:	· ·	LLC and Global Security one firm has handled and i	= :	vered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.				
	Recommended Clearance:				
	Face: 1/8" per side				
	Edge: 3/8"	•			
	Bite: 1"				
	D.t.c. 1				

















Security Glazing					
PRODUCT NAME:	SUPER SECUR-TEM 5				
PRODUCT CODE:	SSM5				
CONSTRUCTION:	Exact Construction is Pro	oprietary.			
PERFORMANCE TESTING:	Secur-Tem products are chemically or heat strengthened all glass laminates designed to protect against physical attack.  Attack Resistance: Exceeds UL 972 and SM5				
THICKNESS: THICKNESS	1.105"				
TOLERANCE: WEIGHT:	1.007-1.198"				
MINIMUM SIZE:	10.91 lbs./ft2				
MAXIMUM SIZE:	12x12"				
OPTIONS:	60x96"				
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA thickness</i> .				
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft² * °F)	*TransmittancevaluesarecalculatedusingLBNL Window&OpticsSoftwarewiththelatestdatabase	
	0.83	0.74	0.73	info available at the time	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172 ASTM C1422	ANSI Z97.1/CPSC	16 CFR 1201 (Cat I & II Impact)	
SINGLE RESPONSIBILITY:		LLC and Global Security ne firm has handled and i		rered by our Single Responsibility™ ases of manufacturing.	
INSTALLATION:	Association of North Am weep system to allow m	nerica (GANA) Glazing and noisture and water to esca	d Sealant Manuals. Glazi	the current edition of the Glass ng systems should incorporate a	
	Recommended Clearance:				
	Face: 1/8" per sid	e			
	Edge: 3/8"				
	Bite: 1"				











