



ISOCLIMA

2026 Spec Book

PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD MP1000		
PRODUCT CODE:	MP1000		
CONSTRUCTION:	This product is a laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	ASTM F1 233 Class V; HP White Level IV-TP-0500.02 UL752-Level 2-UL Listed File BP844; .357 Magnum Jacketed Lead Soft Point; No Spall, No Penetration		
THICKNESS:	1.03"		
THICKNESS TOLERANCE:	.930-1.130"		
WEIGHT:	6.41 lbs./ft ²		
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*ft ² * °F)
	0.65	0.88	0.68
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD MP750			
PRODUCT CODE:	MP750			
CONSTRUCTION:	This product is a laminated 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 - File BP844; 9mm Full Metal Copper Jacket with Lead Core; No Spall, No Penetration			
THICKNESS:	.766"			
THICKNESS TOLERANCE:	.960-.842"			
WEIGHT:	4.76 lbs/ft ²			
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.8	0.78	0.67	
APPLICABLE STANDARDS:				
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD MPC 375			
PRODUCT CODE:	MPC 375			
CONSTRUCTION:	This product is a laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	ASTM F1 233 Class III ASTM 1915 Grade 3; HP White Level II-TP-0500.02 WMFL Level III			
THICKNESS:	.369"			
THICKNESS TOLERANCE:	.332-.406"			
WEIGHT:	2.29 lbs/ft ²			
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*ft ² * °F)	<i>*Transmittance values are recalculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.77	0.92	0.84	
APPLICABLE STANDARDS:				
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"			



12/10/2025

Information contained within valid for 6 months

616 Selfield Road - Selma, AL 36703

Tel: 800-633-2513 - Fax: 334-875-2704 – www.isoclimagroup.com

PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD MPC 500		
PRODUCT CODE:	MPC 500		
CONSTRUCTION:	This product is a laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	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 shots in 8" Circle, 158 grain lead, 20 feet; No penetration.		
THICKNESS:	.486"		
THICKNESS TOLERANCE:	.138-.534"		
WEIGHT:	3.04 lbs/ft ²		
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*ft ² * °F)
	0.72	0.90	0.77
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:			
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"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD RC 750			
PRODUCT CODE:	RC 750			
CONSTRUCTION:	This product is a laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	ASTM F1233 Class IV; ASTM 1915 Grade 1; HP White Level III-TP-0500.02			
THICKNESS:	.766"			
THICKNESS TOLERANCE:	.690-.842"			
WEIGHT:	4.76 lbs/ft ²			
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*ft ² * °F)	<i>*Transmittance values are recalculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.65	0.88	0.68	
APPLICABLE STANDARDS:				
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



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PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD RS 1250			
PRODUCT CODE:	RS 1250			
CONSTRUCTION:	This product is a laminated 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-File BP844; 9mm Uzi Full Metal Copper Jacket with Lead Core; No Spall, No Penetration			
THICKNESS:	1.28"			
THICKNESS TOLERANCE:	1.15-1.41"			
WEIGHT:	7.97 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.71	0.75	0.55	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172	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 Clearance:			
	Face:	1/8" per side		
	Edge:	3/8"		
	Bite:	1"		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	LEXGARD SP 1250		
PRODUCT CODE:	SP 1250		
CONSTRUCTION:	This product is a laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	ASTM F1233 Class V; ASTM 1915 Grade 1; HP White Level V-TP-0500.02 WMFL Level I UL752-Level 3-UL Listed-File BP844; .44 magnum Lead Semi-Wadcutter Gas Checked; No Spall, No Penetration		
THICKNESS:	1.28"		
THICKNESS TOLERANCE:	1.15-1.41"		
WEIGHT:	7.97 lbs./ft ²		
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*ft ² * °F)
	0.63	0.83	0.53
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C 1172	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	3/8" CHILDGARD®		
PRODUCT CODE:	CHILDGARD		
CONSTRUCTION:	CHILDGARD security glazing is laminated safety glass constructed using a unique arrangement of transparent materials. 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 to 10 minutes 1 seconds UL 972 Listed for Burglary Resistance		
THICKNESS:	THICKNESS	.404"	
TOLERANCE:	WEIGHT:	.380"-.426"	
MINIMUM	SIZE:	4.18 lbs/ft ²	
MAXIMUM	SIZE:	10" x 10"	
OPTIONS:	60 x 96" or 40" x 102"		
	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*ft ² * °F)
	0.819	0.731	0.921
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1172	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II)
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: 1/4" Bite: 1/2"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	9/16" CHILDGARD™ 2118		
PRODUCT CODE:	CHILDGARD 2118		
CONSTRUCTION:	This is a glass laminate, no exposed plastic (polycarbonate, PET, etc.). Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>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</p> <p>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)</p>		
THICKNESS:	THICKNESS	.527"	
TOLERANCE:	WEIGHT:	.479"-.573"	
MINIMUM	SIZE:	4.95 lbs/ft ²	
MAXIMUM	SIZE:	10" x 10"	
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. <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*ft ² * °F)
	0.807	0.726	0.841
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 1/4" Bite: 1/2"</p>		





PRODUCT SPECIFICATIONS

PRODUCT NAME:	1.154" Solarban™ 60 on Gray #2 FT (3/8" Black LPD) CHILDGARD™ 2118			
PRODUCT CODE:	CHILDGARD 2118 IGU			
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			
PERFORMANCE TESTING:	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)			
THICKNESS:	THICKNESS	1.154"		
TOLERANCE:	WEIGHT:	1.088"-1.217"		
MINIMUM	SIZE:	8.22 lbs/ft ²		
MAXIMUM	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. <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*ft ² * °F)	<i>*Transmittance values are recalculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.321	0.252	0.298	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)	
	ASTM C1048	ASTM C1422		
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:	1/4"		
	Bite:	1/2"		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	9/16" ACCESSGARD™ 2118		
PRODUCT CODE:	ACCESSGARD 2118		
CONSTRUCTION:	This is a glass laminate, no exposed plastic (polycarbonate, PET, etc.). Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>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</p> <p>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)</p>		
THICKNESS:	THICKNESS	.527"	
TOLERANCE:	WEIGHT:	.479"-.573"	
MINIMUM	SIZE:	4.95 lbs/ft ²	
MAXIMUM	SIZE:	10" x 10"	
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. <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*ft ² * °F)
	0.807	0.726	0.841
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 1/4" Bite: 1/2"</p>		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	ARMORGARD™ BULLET RESISTANT GLASS			
PRODUCT CODE:	BRX16/BRAR15			
CONSTRUCTION:	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 that can safely withstand impacts from an AR-15 style rifle.			
PERFORMANCE TESTING:	BS EN 1063 Class BR5 "S" (+ Protection against AR15/5.56 caliber threats) Three shots 5.56x45 M855 on 120mm triangle			
THICKNESS:	THICKNESS	1.69"		
TOLERANCE:	WEIGHT:	1.587-1.811"		
MINIMUM	SIZE:	17.0 lbs./ft ²		
MAXIMUM	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. <i>Please note some options may increase OA thickness.</i>			
TECHNICAL DATA:	Visible Light Transmission (VLT) 70.1	Solar Heat Gain Coefficient (SHGC) 0.554	U-Value (BTU/hr* ² * °F) 0.745	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)	
APPLICABLE STANDARDS:	ASTM C1048			
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"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/2" Clear INFERNOGARD 90-2114			
PRODUCT CODE:	INFERNOGARD 90-2114			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level III TP-0500.02; ASTM F1915 Grade 2 (40) Minute Containment; WMFL Level II (60) Minute Physical Attack; ASTM F1233-08 Class 3.5</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet; .357 magnum revolver, 3 shots 8" circle, 158 grain, 25 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS:	THICKNESS	2.43"		
TOLERANCE:	WEIGHT:	2.26-2.62"		
MINIMUM	SIZE:	19.3 lbs./ft ²		
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.			
INSTALLATION:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

PRODUCT NAME:	2 3/8" Clear INFERNOGARD 90-2115			
PRODUCT CODE:	INFERNOGARD 90-2115			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level III TP-0500.02; ASTM F1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS:	THICKNESS	2.1325" 2.17-2.50" 18.6 lbs./ft ² 12x12" 60x96"		
TOLERANCE:	WEIGHT:	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>		
MINIMUM	SIZE:			
MAXIMUM	SIZE:			
OPTIONS:				
TECHNICAL DATA:	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 5/16' Clear INFERNOGARD 90-2116			
PRODUCT CODE:	INFERNOGARD 90-2116			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level III TP-0500.02; ASTM F1915 Grade 3 (20) Minute Containment; ASTM F 1233-08 Class 2.7 .38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS: THICKNESS	2.27"			
TOLERANCE: WEIGHT:	2.14-2.47"			
MINIMUM SIZE:	18.5 lbs./ft ²			
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	2-5/32" Clear INFERNOGARD 90-2117			
PRODUCT CODE:	INFERNOGARD 90-2117			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level III TP-0500.03; ASTM F1915 Grade 4 (10) Minute Containment</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS:	2.12"			
TOLERANCE:	2-2.30"			
MINIMUM SIZE:	17.5 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

PRODUCT NAME:	2 1/16" Clear INFERNOGARD 90-2119		
PRODUCT CODE:	INFERNOGARD 90-2119		
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>HP White Level III TP-0500.02</p> <hr/> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet (Spall, no penetration)</p> <hr/> <p>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</p>		
THICKNESS:	THICKNESS	2.02"	
TOLERANCE:	WEIGHT:	1.91-2.19"	
MINIMUM	SIZE:	16.9 lbs./ft ²	
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*ft ² * °F)
	N/A	N/A	N/A
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	3 31/32" Clear INFERNOGARD 90-DBP08			
PRODUCT CODE:	INFERNOGARD 90-DBP08			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL Standard 752-Level VIII; Military Assault Rifle, 7.62mm NATO Rifle, Lead Core Full Metal Copper Jacket, Military Ball, 5 Shots (2750-3025 ft/s) (No 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	3.97"		
TOLERANCE:	WEIGHT:	3.71-4.25"		
MINIMUM	SIZE:	39.2 lbs./ft ²		
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* ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 NFPA 80	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/8" Clear INFERNOGARD 90-PSYCH 2118			
PRODUCT CODE:	INFERNOGARD 90-PSYCH 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 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:	1.96-2.25"		
MINIMUM	SIZE:	17.2 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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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:	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"		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 5/16" Clear INFERNOGARD 90-SP019			
PRODUCT CODE:	INFERNOGARD 90-SP019			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level IV TP-0500-.03; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack; ASTM F 1233-08 Class 2.8</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS: THICKNESS	2.26"			
TOLERANCE: WEIGHT:	2.13-2.46"			
MINIMUM SIZE:	18.4 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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 C 1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 9/16" Clear INFERNOGARD 90-SP028			
PRODUCT CODE:	INFERNOGARD 90-SP028			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>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</p> <p>.9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>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</p>			
THICKNESS:	THICKNESS	2.52"		
TOLERANCE:	WEIGHT:	2.36-2.74"		
MINIMUM	SIZE:	20.0 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 Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 13/16" Clear INFERNOGARD 90-SP035		
PRODUCT CODE:	INFERNOGARD 90-SP035		
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>ASTM F 1915 Grade 1 (60) Minute Containment; WMFL Level 1 (60) Minute Physical Attack</p> <p>.44 magnum revolver, 25 rounds, 240 grain, soft point ammunition, 29 feet (Spall, no penetration)</p> <p>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</p>		
THICKNESS: THICKNESS	2.78"		
TOLERANCE: WEIGHT:	2.61-3.01		
MINIMUM SIZE:	23.5 lbs./ft ²		
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*ft ² * °F)
	N/A	N/A	N/A
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 7/16" Clear INFERNOGARD 90-SP188			
PRODUCT CODE:	INFERNOGARD 90-SP188			
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:	<p>UL Standard 752-Level I-File BP844; 9mm Full Metal Copper Jacket with Lead Core (No Spall, no penetration)</p> <p>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</p>			
THICKNESS:	2.44"			
TOLERANCE:	2.28-2.60"			
MINIMUM WEIGHT:	21.9 lbs./ft ²			
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/2" Clear INFERNOGARD 90-SP293			
PRODUCT CODE:	INFERNOGARD 90-SP293			
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 II; .357 Magnum Jacketed Lead Soft Point (No 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	2.53"			
TOLERANCE: WEIGHT:	2.37-2.70"			
MINIMUM SIZE:	23.4 lbs./ft ²			
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* ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
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 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"			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 5/8" Clear INFERNOGARD 90-SP311			
PRODUCT CODE:	INFERNOGARD 90-SP311			
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 Semi-Wadcutter Gas Checked (No 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	2.65"		
TOLERANCE:	WEIGHT:	2.48-2.83"		
MINIMUM	SIZE:	25.1 lbs./ft ²		
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 13/16" Clear INFERNOGARD 90-SP412			
PRODUCT CODE:	INFERNOGARD 90-SP412			
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:	<p>UL Standard 752-Level IV-.30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber) (No spall, no penetration) 90</p> <p>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</p>			
THICKNESS:	2.77"			
TOLERANCE:	2.61-2.99"			
MINIMUM SIZE:	26.8 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
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 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 15/16" Clear INFERNOGARD 90-SP513			
PRODUCT CODE:	INFERNOGARD 90-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 V-7.62mm Rifle Lead core Full Metal Copper Jacket (No 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:	2.95"			
TOLERANCE:	2.75-3.15"			
MINIMUM SIZE:	28.4 lbs./ft ²			
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/16" Clear INFERNOGARD 60-2114			
PRODUCT CODE:	INFERNOGARD 2114			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP 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</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet; .357 magnum revolver, 3 shots 8": circle, 158 grain, 25 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	2.0625"			
TOLERANCE:	1.88-2.24"			
MINIMUM WEIGHT:	16.29 lbs./ft ²			
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* ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)	
	ASTM C1048	ASTM C1422	NFPA 50	
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 31/32" Clear INFERNOGARD 60-2115			
PRODUCT CODE:	INFERNOGARD 60-2115			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level II TP-0500.02; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	THICKNESS	1.96"		
TOLERANCE:	WEIGHT:	1.79-2.13"		
MINIMUM	SIZE:	15.59 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² ft ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
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 covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.			
INSTALLATION:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 15/16" Clear INFERNOGARD 60-2116			
PRODUCT CODE:	INFERNOGARD 60-2116			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level II TP-0500.02; ASTM F 1915 Grade 3 (20) Minute Containment; ASTM F 1233-08 Class 2.7 .38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	1.90"			
TOLERANCE:	1.77-2.10"			
WEIGHT:	15.5 lbs./ft ²			
MINIMUM SIZE:	12x12"			
MAXIMUM SIZE:	60x96"			
OPTIONS:	<p>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></p>			
TECHNICAL DATA:	<p>Visible Light Transmission (VLT) N/A</p> <p>ASTM C1036</p>	<p>Solar Heat Gain Coefficient (SHGC) N/A</p> <p>ASTM C1349</p>	<p>U-Value (BTU/hr*² * °F) N/A</p> <p>ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact)</p> <p>NFPA 80</p>	<p><small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small></p>
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422		
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:	<p>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.</p> <p>Recommended Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 3/4" Clear INFERNOGARD 60-2117			
PRODUCT CODE:	INFERNOGARD 60-2117			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level 1 TP-0500.03; ASTM F 1915 Grade 4 (10) Minute Containment .38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	THICKNESS	1.75"		
TOLERANCE:	WEIGHT:	1.63-1.93"		
MINIMUM	SIZE:	14.5 lbs./ft ²		
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 11/16" Clear INFERNOGARD 60-2119		
PRODUCT CODE:	INFERNOGARD 60-2119		
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>HP White Level 1 TP-0500.02 .38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>		
THICKNESS: THICKNESS	1.64"		
TOLERANCE: WEIGHT:	1.53-1.81"		
MINIMUM SIZE:	13.9 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*ft ² * °F)
	N/A	N/A	N/A
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"</p>		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	3 9/16" Clear INFERNOGARD 60-DBP08			
PRODUCT CODE:	INFERNOGARD 60-DBP08			
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 VIII Military Assault Rifle, 7.62mm NATO Rifle, Lead Core Full Metal Copper Jacket, Military Ball, 5 Shots (2750-3025 ft/s) (No spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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	3.52"		
TOLERANCE:	WEIGHT:	3.33-3.87"		
MINIMUM	SIZE:	36.2 lbs./ft ²		
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 NFPA 80	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 3/4" Clear INFERNOGARD 60-PSYCH 2118			
PRODUCT CODE:	INFERNOGARD 60-PSYCH 2118			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>ASTM F 1233 Class 1.4</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	THICKNESS	1.73"		
TOLERANCE:	WEIGHT:	1.59-1.88"		
MINIMUM	SIZE:	14.2 lbs./ft ²		
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			



PRODUCT SPECIFICATIONS



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. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level IV TP-0500.03; ASATM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack; ASTM F 1233-08 Class 2.8</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>			
THICKNESS:	THICKNESS	1.89"		
TOLERANCE:	WEIGHT:	1.75-2.08"		
MINIMUM	SIZE:	15.4 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² ft ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
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 covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.			
INSTALLATION:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 3/16" Clear INFERNOGARD 60-SP028		
PRODUCT CODE:	INFERNOGARD 60-SP028		
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	<p>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</p> <p>9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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</p>		
THICKNESS:	2.18"		
TOLERANCE:	1.99-2.37"		
MINIMUM SIZE:	17.0 lbs./ft ²		
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*ft ² * °F)
	N/A	N/A	N/A
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 7/16" Clear INFERNOGARD 60-SP035		
PRODUCT CODE:	INFERNOGARD 60-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 (60) Minute Containment; WMFL Level 1 (60) Minute Physical Attack .44 magnum revolver, 25 rounds, 240 grain, soft point ammunition, 29 feet (Spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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:	2.23-2.63."		
MINIMUM SIZE:	20.5 lbs./ft ²		
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*ft ² * °F)
	N/A	N/A	N/A
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349 ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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"		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/16" Clear INFERNOGARD 60-SP188			
PRODUCT CODE:	INFERNOGARD 60-SP188			
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 I-File BP844 9mm Full Metal Copper Jacket with Lead Core (No spall, no penetration)			
	60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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	2.06"		
TOLERANCE:	WEIGHT:	1.90-2.23"		
MINIMUM	SIZE:	18.9 lbs./ft ²		
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 5/32" Clear INFERNOGARD 60-SP293			
PRODUCT CODE:	INFERNOGARD 60-SP293			
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 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) Intertek 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./ft ²			
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* ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
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 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"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 5/16" Clear INFERNOGARD 60-SP311			
PRODUCT CODE:	INFERNOGARD 60-SP311			
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 Semi-Wadcutter Gas Checked (No spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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./ft ²		
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* ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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"		





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 7/16" Clear INFERNOGARD 60-SP412			
PRODUCT CODE:	INFERNOGARD 60-SP412			
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) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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:	2.40"			
TOLERANCE:	2.24-2.62"			
MINIMUM SIZE:	23.8 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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	N/A	N/A	N/A	
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 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"			





PRODUCT SPECIFICATIONS

PRODUCT NAME:	2 9/16" Clear INFERNOGARD 60-SP513			
PRODUCT CODE:	INFERNOGARD 60-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 V; 7.62mm Rifle Lead Core Full Metal Copper Jacket (No spall, no penetration) 60 Minute Fire Rating Doors: UL 10(c)(2016), CAN/ULC S104(2015), NFPA 252(2017) Intertek 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:	2.58"			
TOLERANCE:	2.38-2.78"			
MINIMUM SIZE:	25.4 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	N/A	N/A	N/A	
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 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"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 11/16" Clear INFERNOGARD 45-2114			
PRODUCT CODE:	INFERNOGARD 45-2114			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP 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</p> <p>.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, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
THICKNESS:	THICKNESS	1.68"		
TOLERANCE:	WEIGHT:	1.51-1.87"		
MINIMUM	SIZE:	15.30 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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² ft ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

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:	<p>HP White Level II TP-0500.02; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet; .357 Magnum revolver, 3 shots 8" circle, 158 grain lead, 25 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
THICKNESS:	THICKNESS	1.59"		
TOLERANCE:	WEIGHT:	1.42-1.75"		
MINIMUM	SIZE:	14.59 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² ft ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
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 covered by our Single Responsibility™ Program that ensures one firm has handled and is accountable for all phases of manufacturing.			
INSTALLATION:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 9/16" Clear INFERNOGARD 45-2116			
PRODUCT CODE:	INFERNOGARD 45-2116			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level II TP-0500.02; ASTM F 1915 Grade 3 (20) Minute Containment; ASTM F 1233-08 Class 2.7 .38</p> <p>Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
THICKNESS:	THICKNESS	1.53"		
TOLERANCE:	WEIGHT:	1.39-1.72"		
MINIMUM	SIZE:	14.5 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			

PRODUCT SPECIFICATIONS

PRODUCT NAME:	1 3/8" Clear INFERNOGARD 45-2117									
PRODUCT CODE:	INFERNOGARD 45-2117									
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-0500.03; ASTM F 1915 Grade 4 (10) Minute Containment .38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet (Spall, no penetration) 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596									
THICKNESS:	THICKNESS	1.40"								
TOLERANCE:	WEIGHT:	1.25-1.55								
MINIMUM	SIZE:	13.5 lbs./ft2								
MAXIMUM	SIZE:	12x12"								
OPTIONS:	60x96"									
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass 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:	<table border="1"> <tr> <td>Visible Light Transmission (VLT) N/A</td> <td>Solar Heat Gain Coefficient (SHGC) N/A</td> <td>U-Value (BTU/hr*²* °F) N/A</td> <td rowspan="2">*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</td> </tr> <tr> <td>ASTM C1036</td> <td>ASTM C1349</td> <td></td> </tr> </table>	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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			
Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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"									

PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 5/16" Clear INFERNOGARD 45-2119									
PRODUCT CODE:	INFERNOGARD 45-2119									
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.									
PERFORMANCE TESTING:	<p>HP White Level 1 TP-0500.02</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 20 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>									
THICKNESS:	THICKNESS	1.3125"								
TOLERANCE:	WEIGHT:	1.16-1.44"								
MINIMUM	SIZE:	12.9 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:	<table border="1"> <tr> <td>Visible Light Transmission (VLT) N/A</td> <td>Solar Heat Gain Coefficient (SHGC) N/A</td> <td>U-Value (BTU/hr*² * °F) N/A</td> <td rowspan="2">*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</td> </tr> <tr> <td>ASTM C1036</td> <td>ASTM C1349</td> <td></td> </tr> </table>	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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			
Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>									

PRODUCT SPECIFICATIONS



PRODUCT NAME:	3 7/32" Clear INFERNOGARD 45-DBP08			
PRODUCT CODE:	INFERNOGARD 45-DBP08			
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:	<p>UL Standard 752-Level VIII; Military Assault Rifle, 7.62mm NATO Rifle, Lead Core Full Metal Copper Jacket, Military Ball, 5 shots (2705-3025 ft/s) (No spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
THICKNESS:	THICKNESS	3.22"		
TOLERANCE:	WEIGHT:	2.96-3.50"		
MINIMUM	SIZE:	35.2 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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	NFPA 80	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 3/8" Clear INFERNOGARD 45-PSYCH 2118			
PRODUCT CODE:	INFERNOGARD 45-PSYCH 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 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596			
THICKNESS:	1.36"			
TOLERANCE:	1.21-1.50"			
MINIMUM WEIGHT:	13.2 lbs./ft ²			
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:	ASTM C1048	NFPA 80	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 9/16" Clear INFERNOGARD 45-SP019			
PRODUCT CODE:	INFERNOGARD 45-SP019			
CONSTRUCTION:	Multi-layer construction comprised of glass clad polycarbonate and fire resistant glass laminate. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>HP White Level IV TP-0500.03; ASTM F 1915 Grade 2 (40) Minute Containment; WMFL Level III (30) Minute Physical Attack; ASTM F 1233-08 Class 2.8</p> <p>.38 Special handgun, 3 shots 8" circle, 158 grain lead, 10 feet; .9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
THICKNESS:	THICKNESS	1.51"		
TOLERANCE:	WEIGHT:	1.38-1.71"		
MINIMUM	SIZE:	14.4 lbs./ft ²		
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² ft ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
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 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.			
	<p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			



PRODUCT SPECIFICATIONS



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:	<p>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</p> <p>.9mm handgun, 124 grain lead, FMJ caliber, 10 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>			
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 Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:	ASTM C1048	ASTM C1422	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



PRODUCT SPECIFICATIONS



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:	<p>ASTM F 1915 Grade 1 (60) Minute Containment; WMFL Level 1 (60) Minute Physical Attack .44 magnum revolver, 25 rounds, 240 grain, soft point ammunition, 29 feet (Spall, no penetration)</p> <p>45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>									
THICKNESS: THICKNESS	2.06"									
TOLERANCE: WEIGHT:	1.86-2.26"									
MINIMUM SIZE:	19.5 lbs./ft2									
MAXIMUM SIZE:	12x12"									
OPTIONS:	60x96"									
	Tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass 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:	<table border="1"> <tr> <td>Visible Light Transmission (VLT) N/A</td> <td>Solar Heat Gain Coefficient (SHGC) N/A</td> <td>U-Value (BTU/hr*² * °F) N/A</td> <td rowspan="2">*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</td> </tr> <tr> <td>ASTM C1036</td> <td>ASTM C1349</td> <td></td> </tr> </table>	Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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			
Visible Light Transmission (VLT) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"</p>									



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 11/16" Clear INFERNOGARD 45-SP188			
PRODUCT CODE:	INFERNOGARD 45-SP188			
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 I-File BP844; 9mm Full Metal Copper Jacket with Lead Core (No spall, no penetration) 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596			
THICKNESS: THICKNESS	1.69"			
TOLERANCE: WEIGHT:	1.53"			
MINIMUM SIZE:	1.85"			
MAXIMUM SIZE:	17.9 lbs./ft2			
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) N/A ASTM C1036	Solar Heat Gain Coefficient (SHGC) N/A ASTM C1349	U-Value (BTU/hr*ft ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
APPLICABLE STANDARDS:	NFPA 80		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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 3/4" Clear INFERNOGARD 45-SP293			
PRODUCT CODE:	INFERNOGARD 45-SP293			
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 II; .357 Magnum Jacketed Lead Soft Point (No spall, no penetration) 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596			
THICKNESS:	THICKNESS 1.75"			
TOLERANCE:	WEIGHT: 1.62-1.95"			
MINIMUM	SIZE: 19.4 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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °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:	NFPA 80		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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	1 7/8" Clear INFERNOGARD 45-SP311			
PRODUCT CODE:	INFERNOGARD 45-SP311			
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 Semi-Wadcutter Gas Checked (No spall, no penetration) 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek 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"			
	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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:	NFPA 80		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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			





PRODUCT SPECIFICATIONS



PRODUCT NAME:	2 1/16" Clear INFERNOGARD 45-SP412														
PRODUCT CODE:	INFERNOGARD 45-SP412														
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:	<p>UL Standard 752-Level IV; .30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber) (No spall, no penetration) 45</p> <p>Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596</p>														
THICKNESS: THICKNESS	2.02"														
TOLERANCE: WEIGHT:	1.86-2.24"														
MINIMUM SIZE:	22.8 lbs./ft ²														
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:	<table border="1"> <tr> <td>Visible Light Transmission (VLT)</td> <td>Solar Heat Gain Coefficient (SHGC)</td> <td>U-Value (BTU/hr*ft² * °F)</td> <td rowspan="2">*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</td> </tr> <tr> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>ASTM C1036</td> <td>ASTM C1349</td> <td></td> <td></td> </tr> </table>	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time	N/A	N/A	N/A	ASTM C1036	ASTM C1349					
Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time												
N/A	N/A	N/A													
ASTM C1036	ASTM C1349														
APPLICABLE STANDARDS:	ANSI Z97.1/CPSC 16 CFR 1201 (Cat I & II Impact) 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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>														



12/10/2025

Information contained within valid for 6 months

616 Selfield Road - Selma, AL 36703

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PRODUCT SPECIFICATIONS



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 V; 7.62mm Rifle Lead Core Full Metal Copper Jacket (No spall, no penetration) 45 Minute Fire Rating Doors: UL 10(c), CAN/ULC S104(2015), NFPA 252(2017) Intertek Certification, Spec ID 56532; 45 Minute Fire Rating Wall/Window: ASTM E 119 (2018C), UL 263 (R2015), CAN/ULC S101 (2014) Intertek Certification, Spec ID 56596			
THICKNESS:	2.17"			
TOLERANCE:	2.00-2.40"			
MINIMUM SIZE:	24.4 lbs./ft ²			
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) N/A	Solar Heat Gain Coefficient (SHGC) N/A	U-Value (BTU/hr* ² * °F) N/A	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:	NFPA 80		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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 1 - Bullet Resistant Glass		
PRODUCT CODE:	BR-113		
CONSTRUCTION:	Product is an all-glass construction. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL Standard 752-Level 1-UL Listed-File BP844; 9mm Full Metal Copper Jacket with Lead Core; No Spall, No Penetration		
THICKNESS:	1.295"		
THICKNESS TOLERANCE:	1.209-1.381"		
WEIGHT:	16.05 lbs./ft ²		
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*ft ² * °F)
	0.78	0.67	0.85
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 2 - Bullet Resistant Glass		
PRODUCT CODE:	BR-155		
CONSTRUCTION:	Product is an all-glass construction. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL Standard 752-Level 2-UL Listed-File BP844; .357 Magnum Jacketed Lead Soft Point; No Spall, No Penetration		
THICKNESS:	1.812"		
THICKNESS TOLERANCE:	1.691-1.935"		
WEIGHT:	22.51 lbs./ft ²		
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*ft ² * °F)
	0.74	0.64	0.75
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 3 - Bullet Resistant Glass		
PRODUCT CODE:	BR-233		
CONSTRUCTION:	Product is an all-glass construction. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL Standard 752-Level 3-UL Listed-File BP844; .44 Magnum Lead Semi-Wadcutter Gas Checked; No Spall, No Penetration		
THICKNESS:	2.136"		
THICKNESS TOLERANCE:	1.992-2.279"		
WEIGHT:	26.38 lbs./ft ²		
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*ft ² * °F)
	0.71	0.61	0.74
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 8 - Secur-Tem + Poly		
PRODUCT CODE:	DBP08		
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL 752-Level 8-UL Listed-File BP844; 7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber) Five (5) Shots; No Spall, No Penetration		
THICKNESS:	2.398"		
THICKNESS TOLERANCE:	2.225-2.570"		
WEIGHT:	26.92 lbs./ft ²		
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*ft ² * °F)
	0.57	0.53	0.60
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT NAME:	UL Level 1 - Secur-Tem + Poly		
PRODUCT CODE:	SP188		
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL 752-Level I-UL Listed-File BP844; 9mm Full Metal Copper Jacket with Lead Core; No Spall, No Penetration		
THICKNESS:	.861"		
THICKNESS TOLERANCE:	.797-.923"		
WEIGHT:	9.65 lbs./ft ²		
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*ft ² * °F)
	0.77	0.64	0.84
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 2 - Secur-Tem + Poly			
PRODUCT CODE:	SP293			
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 2-UL Listed-File BP844; .357 Magnum Jacketed Lead Soft Point; No Spall, No Penetration			
THICKNESS:	.952"			
THICKNESS TOLERANCE:	.884-1.02"			
WEIGHT:	11.11 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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</i>
	0.78	0.63	0.84	
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 3 - Secur-Tem + Poly								
PRODUCT CODE:	SP311								
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.								
PERFORMANCE TESTING:	UL 752-Level 3-UL Listed-File BP844; .44 Magnum Lead Semi-Wadcutter Gas Checked; No Spall, No Penetration								
THICKNESS:	1.072"								
THICKNESS TOLERANCE:	.998-1.145"								
WEIGHT:	12.81 lbs./ft ²								
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:	<table border="1"> <tr> <td>Visible Light Transmission (VLT)</td> <td>Solar Heat Gain Coefficient (SHGC)</td> <td>U-Value (BTU/hr*ft² * °F)</td> </tr> <tr> <td>0.77</td> <td>0.62</td> <td>0.83</td> </tr> </table>	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)	0.77	0.62	0.83	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>	
Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)							
0.77	0.62	0.83							
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>								



PRODUCT NAME:	UL Level 4 - Secur-Tem + Poly		
PRODUCT CODE:	SP412		
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL 7520 Level 40-UL Listed-File BP844; .30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber); No Spall, No Penetration		
THICKNESS:	1.22"		
THICKNESS TOLERANCE:	1.13-1.31"		
WEIGHT:	14.5 lbs./ft ²		
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*ft ² * °F)
	0.75	0.60	0.81
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT NAME:	UL Level 5 - Secur-Tem + Poly		
PRODUCT CODE:	SP513		
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	UL 752-Level 5-UL Listed-File BP844; 7.62mm Rifle Lead Core Full Metal Copper Jacket Military Baoll (.308 Caliber) One (1) Shot; No Spall, No Penetration		
THICKNESS:	1.372"		
THICKNESS TOLERANCE:	1.272-1.471"		
WEIGHT:	16.09 lbs./ft ²		
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*ft ² * °F)
	0.74	0.59	0.8
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 7 - Secur-Tem + Poly			
PRODUCT CODE:	SP719			
CONSTRUCTION:	This product is a glass-clad polycarbonate and contains an exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 7-UL Listed File BP844; 5.56mm Rifle Full Metal Coper Jacket 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:	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) 0.69 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.54 ASTM C1349	U-Value (BTU/hr* ² * °F) 0.73	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level IIA - Bullet Resistant Glass		
PRODUCT CODE:	BR-113		
CONSTRUCTION:	Product is an all-glass construction. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-0108.01-Level IIA; .357 Magnum Jacketed Soft Point; 9mm Full Metal Jacket; No Spall, No Penetration		
THICKNESS:	1.295"		
THICKNESS TOLERANCE:	1.209-1.381"		
WEIGHT:	16.05 lbs./ft ²		
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*ft ² * °F)
	0.78	0.67	0.85
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	Lexgard MP750			
PRODUCT CODE:	MP750			
CONSTRUCTION:	Product is a laminated polycarbonate and contains exposed polycarbonate with abrasion resistant coatings on both sides. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL752-Level 1-UL Listed-Fil eBP844; 9mm Full Metal Copper Jacket with Lead Core; NIJ-STD-0108.01 Level IIA Special Requirement; 9-mm, 124 grain Full Metal Jacket; No Spall, No Penetration			
THICKNESS:	.766"			
THICKNESS TOLERANCE:	.690-.842"			
WEIGHT:	4.76 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) 0.80 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.78 ASTM C1172	U-Value (BTU/hr* ² ft ² * °F) 0.67	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	Lexgard SP 1250			
PRODUCT CODE:	SP 1250			
CONSTRUCTION:	This product is laminated polycarbonate and contains exposed polycarbonate surfaces with abrasion resistant coatings on both sides. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	ASTM F1233 Class V; ASTM 1915 Grade 1; HP White Level V-TP-0500.02 WMFL Level I National Institute of Justice-0108.01-Level IIA; .44 magnum Lead Semi-Wadcutter Gas Checked; No Spall, No Penetration			
THICKNESS: THICKNESS	1.28"			
TOLERANCE: WEIGHT:	1.15-1.41"			
MINIMUM SIZE:	7.97 lbs./ft ²			
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* ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.73	0.86	0.55	
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:	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"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level IIA - Secur-Tem + Poly		
PRODUCT CODE:	SP175		
CONSTRUCTION:	Product is glass-clad polycarbonate and contains exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-0108.01-Level IIA; .357 Magnum Jacketed Soft Point; 9mm Full Metal Jacket; No Spall, No Penetration		
THICKNESS:	.681"		
THICKNESS TOLERANCE:	.634-.728"		
WEIGHT:	7.84 lbs./ft ²		
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* ² * °F)
	0.81	0.69	0.86
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level IIA - Secur-Tem + Poly		
PRODUCT CODE:	SP188		
CONSTRUCTION:	Product is glass-clad polycarbonate and contains exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-0108.01-Level IIA; .357 Magnum Jacketed Soft Point; 9mm Full Metal Jacket; No Spall, No Penetration		
THICKNESS:	.861"		
THICKNESS TOLERANCE:	.797-.923"		
WEIGHT:	9.65 lbs./ft ²		
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* ² * °F)
	0.77	0.64	0.84
	<small>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level IIIA - Secur-Tem + Poly		
PRODUCT CODE:	SP412		
CONSTRUCTION:	Product is glass-clad polycarbonate and contains exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-0108.01-Level IIA; .44 Magnum Lead Semi-Wadcutter Gas Checked; 9mm Full Metal Jacket; No Spall, No Penetration		
THICKNESS:	1.220"		
THICKNESS TOLERANCE:	1.130-1.310"		
WEIGHT:	14.5 lbs./ft ²		
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*ft ² * °F)
	0.75	0.6	0.81
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level III - Secur-Tem + Poly		
PRODUCT CODE:	SPN316		
CONSTRUCTION:	Product is glass-clad polycarbonate and contains exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-0108.01-Level III; 7.62mm (.308 Winchester) Full Metal Jacket; No Spall, No Penetration		
THICKNESS:	1.572"		
THICKNESS TOLERANCE:	1.461-1.683"		
WEIGHT:	18.39 lbs./ft ²		
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*ft ² * °F)
	0.73	0.58	0.74
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	NIJ Level IV - Secur-Tem + Poly		
PRODUCT CODE:	SPN420		
CONSTRUCTION:	Product is glass-clad polycarbonate and contains exposed polycarbonate surface with an abrasion resistant coating on the witness (safe) side. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	National Institute of Justice-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./ft ²		
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*ft ² * °F)
	0.64	0.54	0.68
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036	ASTM C1349	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 1-Air Gap (AG) Unit			
PRODUCT CODE:	IC-1			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level I-UL Listed-File BP844; 9mm Full Metal Copper Jacket with Lead Core; No Spall, No Penetration			
	ASTM F1233 Class II; ASTM 1915 Grade 4HP White Level I-TP-0500.02			
THICKNESS: THICKNESS	1.0915"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	7.33 lbs./ft ²			
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) 0.67 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.61 ASTM C1172	U-Value (BTU/hr* ² * °F) 0.48	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 1-Air Gap (AG) Unit			
PRODUCT CODE:	IC-111.5			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level I-UL Listed-File BP844; 9mm Full Metal Copper Jacket with Lead Core; No Spall, No Penetration			
	ASTM F1233 Class III; ASTM 1915 Grade 3; HP White Level II-TP-0500.02; WMFL Level III			
THICKNESS: THICKNESS	.883"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	5.65 lbs./ft ²			
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) 0.69 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.65 ASTM C1172	U-Value (BTU/hr* ² * °F) 0.48	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 2-Air Gap (AG) Unit			
PRODUCT CODE:	IC-221.5			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 2-UL Listed-File BP844; .357 Magnum Jacketed Lead Soft Point; No Spall, No Penetration ASTM F1233 Class III; ASTM 1915 Grade 3; HP White Level II-TP-0500.02; WMFL Level III			
THICKNESS:	1.112"			
THICKNESS TOLERANCE:				
WEIGHT:	8.99 lbs./ft ²			
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) 0.67 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.59 ASTM C1172	U-Value (BTU/hr* ² * °F) 0.48	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 3-Air Gap (AG) Unit			
PRODUCT CODE:	IC-322			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 3-UL Listed-File BP844; .44 Magnum Lead Semi-Wadcutter Gas Checked No Spall, No Penetration ASTM F1233 Class III; ASTM 1915 Grade 2; HP White Level II-TP-0500.02; WMFL Level II			
THICKNESS: THICKNESS	1.220"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	9.64 lbs./ft ²			
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) 0.63 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.58 ASTM C1172	U-Value (BTU/hr* ² * °F) 0.46	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 4 Air Gap (AG) Unit			
PRODUCT CODE:	IC-433			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 4-UL Listed-File BP844; .30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber); No Spall, No Penetration ASTM F1233 Class IV; ASTM 1915 Grade 1; HP White Level III-TP-0500.02			
THICKNESS: THICKNESS	1.795"			
TOLERANCE: WEIGHT:				
MINIMUM SIZE:	14.84 lbs./ft ²			
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) 0.54 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.49 ASTM C1172	U-Value (BTU/hr*ft ² * °F) 0.41	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



PRODUCT NAME:	UL Level 8-Air Gap (AG) Unit			
PRODUCT CODE:	IC-830			
CONSTRUCTION:	Air-Gap (AG) double-glazed units are constructed with an exterior lite of laminated glass and an interior lite of laminated polycarbonate. The two lites are separated by an air space which is created using a proprietary edge spacer and seal system. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	UL 752-Level 8-UL Listed-File BP844; 7.62 Rifle Lead Core Full Metal Copper Jacket; Military Ball (.308 Caliber); No Spall, No Penetration ASTM F 1233 Class V; HP White Level IV-TP-0500.02			
THICKNESS:	3.01"			
TOLERANCE:	WEIGHT:			
MINIMUM SIZE:	27.21 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) 0.48 ASTM C1036	Solar Heat Gain Coefficient (SHGC) 0.44 ASTM C1172	U-Value (BTU/hr* ² * °F) 0.36	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
APPLICABLE STANDARDS:	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT NAME:	SECUR-TEM + POLY 2114			
PRODUCT CODE:	2114			
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	HP 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"			
TOLERANCE: WEIGHT:	.776-.936"			
MINIMUM SIZE:	7.0 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.69	0.80	0.70	
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:	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"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-TEM + POLY 2115			
PRODUCT CODE:	2115			
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	HP White Level II-TP-0500.02; WMFL Level III; ASTM 1915 Grade 2 (40 minutes) .38 special handgun, 3 shots in an 8" circle, 158 grain, 20 feet; 9mm, 3 shots in an 8" circle, 158 grain lead, 20 feet; Spall with no penetration.			
THICKNESS: THICKNESS	.754"			
TOLERANCE: WEIGHT:	.684-.824"			
MINIMUM SIZE:	6.3 lbs./ft ²			
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) 0.73	Solar Heat Gain Coefficient (SHGC) 0.81	U-Value (BTU/hr* ² * °F) 0.74	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	ASTM C1036	ASTM C1349		
APPLICABLE STANDARDS:	ASTM C1048	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT NAME:	SECUR-TEM + POLY 2116			
PRODUCT CODE:	2116			
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	HP White Level II-TP-0500.02; ASTM 1915 Grade 3 .38 Special handgun, 3 shots in an 8" Circle, 158 grain lead, 20 feet; .9mm handgun, 124 grain lead, FMJ caliber, 25 feet; Spall with no penetration			
THICKNESS: THICKNESS	.7245"			
TOLERANCE: WEIGHT:	.658-.791"			
MINIMUM SIZE:	6.2 lbs./ft ²			
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* ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.73	0.80	0.76	
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:	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"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-TEM + POLY 2117		
PRODUCT CODE:	2117		
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	HP White Level I-TP-0500.02; ASTM 1915 Grade 4 .38 Special handgun, 3 shots in an 8" circle, 158 grain lead, 20 feet; Spall with no penetration		
THICKNESS:	.569"		
THICKNESS TOLERANCE:	.518-.620"		
WEIGHT:	5.22 lbs./ft ²		
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*ft ² * °F)
	0.77	0.83	0.82
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		

PRODUCT NAME:	SECUR-TEM + POLY 2119		
PRODUCT CODE:	2119		
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	HP White Level I-TP-0500.02 .38 Special handgun, 3 shots in an 8" circle, 158 grain lead, 20 feet; Spall with no penetration		
THICKNESS:	.467"		
THICKNESS TOLERANCE:	.426-.508"		
WEIGHT:	4.58 lbs./ft ²		
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*ft ² * °F)
	382	0.84	0.88
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		

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 surfaces. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	ASTM F1233 Glass 1.4 <i>Tested to comply with 2014 GFI Guidelines for Hospitals and Outpatient Facilities.</i>		
THICKNESS:	.527"		
THICKNESS TOLERANCE:	.479-.573"		
WEIGHT:	4.95 lbs./ft ²		
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*ft ² * °F)
	0.82	0.73	0.84
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-TEM + POLY SP019			
PRODUCT CODE:	SP019			
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.			
PERFORMANCE TESTING:	HP White Level III-TP-0500.02; ASTM 1915 Grade 2; WMFL Level III HP White Levels A and B-TP-0500.02; 38 Special handgun, 3 shots in an 8" Circle, 158 Grain lead, 20 feet; .9mm handgun, 124 grain lead, FMJ caliber, 25 feet; Spall with no penetration			
THICKNESS: THICKNESS	.7125"			
TOLERANCE: WEIGHT:	.647-.778"			
MINIMUM SIZE:	6.1 lbs./ft ²			
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* ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.73	0.81	0.75	
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:	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"			

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-TEM + POLY SP028		
PRODUCT CODE:	SP028		
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	HP White Level IV-TP-0500.02; 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./ft ²		
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*ft ² * °F)
	0.67	0.80	0.67
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		

PRODUCT NAME:	SECUR-TEM + POLY SP035		
PRODUCT CODE:	SP035		
CONSTRUCTION:	This product is a symmetrical glass clad polycarbonate with heat strengthened or chemically strengthened glass on both exposed surfaces. Exact Construction is Proprietary.		
PERFORMANCE TESTING:	ASTM 1915 Grade 1; WMFL Level I .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./ft ²		
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*ft ² * °F)
	0.65	0.75	0.64
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	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"		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	ARMORGARD™ Ultimate ASTM F1233 FORCED ENTRY/NIJ IIIA BULLET RESISTANT SECURITY LAMINATE (FE/BR)		
PRODUCT CODE:	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 Contraband, Class 3.3 Body NIJ 0108.01 Level IIIA 5 shots 44 Magnum SWCGC + 5 shots 9mm FMJ Protection		
THICKNESS:	1.3"		
THICKNESS TOLERANCE:	1.159-1.350"		
WEIGHT:	12.28 lbs/ft ²		
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*ft ² * °F)
	0.683	0.666	0.644
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
APPLICABLE STANDARDS:	ASTM C1036 ASTM C1048	ASTM C1349	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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-LITE 3X		
PRODUCT CODE:	SL716-3X		
CONSTRUCTION:	Exact Construction is Proprietary.		
PERFORMANCE TESTING:	Secur-Lite 3X products are chemically or heat strengthened all glass laminates designed to protect against physical attack. Tested by Patzig Testing Laboratories, Inc. Meets ANSI Z97.1 Impact Resistance		
THICKNESS:	.495"		
THICKNESS TOLERANCE:	.453-.534"		
WEIGHT:	5.60 lbs/ft ²		
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*ft ² * °F)
	0.87	0.83	0.92
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-LITE 4X		
PRODUCT CODE:	SL916-4X		
CONSTRUCTION:	Exact Construction is Proprietary.		
PERFORMANCE TESTING:	Secur-Lite 4X products are chemically or heat strengthened all glass laminates designed to protect against physical attack. Tested by Patzig Testing Laboratories, Inc. Meets ANSI Z97.1 Impact Resistance		
THICKNESS:	.680"		
THICKNESS TOLERANCE:	.622-.734"		
WEIGHT:	6.52 lbs./ft ²		
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*ft ² * °F)
	0.86	0.79	0.88
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side Edge: 3/8" Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	SECUR-LITE 5X		
PRODUCT CODE:	SL1316-5X		
CONSTRUCTION:	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" .791-.934" 9.57 lbs./ft ² 12x12" 60x96" Tinted glass, low iron glass, printed (spandrel and pattern screen		
THICKNESS TOLERANCE:	printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units		
WEIGHT:	(IGU), switchable smart glass, tinted and translucent interlayers. <i>Please note some options may increase OA</i>		
MINIMUM SIZE:	<i>thickness.</i>		
MAXIMUM SIZE:			
OPTIONS:			
TECHNICAL DATA:	Visible Light Transmission (VLT)	Solar Heat Gain Coefficient (SHGC)	U-Value (BTU/hr*ft ² * °F)
	0.84	0.75	0.83
	<small>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</small>		
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>		

PRODUCT SPECIFICATIONS



PRODUCT NAME:	5/16" SECUR-LITE UL			
PRODUCT CODE:	SL516U			
CONSTRUCTION:	Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>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.</p> <p>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.</p> <p>Laminated glass is in compliance with Solutia's Keep-Safe certification program. .3125"</p>			
THICKNESS:	THICKNESS	.284-.334"		
TOLERANCE:	WEIGHT:	3.69 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*ft ² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time
	0.88	0.88	0.98	
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			



PRODUCT SPECIFICATIONS



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:	.451"			
TOLERANCE:	.428-.480"			
MINIMUM SIZE:	5.324 lbs./ft ²			
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time</i>
	0.683	0.666	0.644	
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:	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"		



PRODUCT SPECIFICATIONS



PRODUCT NAME:	9/16" SECUR-LITE UL			
PRODUCT CODE:	SL916U			
CONSTRUCTION:	Exact Construction is Proprietary.			
PERFORMANCE TESTING:	<p>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.</p> <p>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.</p> <p>Laminated glass is in compliance with Solutia's Keep-Safe certification program. .554"</p>			
THICKNESS:	THICKNESS	.519-.587"		
TOLERANCE:	WEIGHT:	7.05 lbs./ft ²		
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window&OpticsSoftwarewiththelatestdatabase info available at the time
	0.86	0.81	0.93	
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:	<p>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.</p> <p>Recommended Clearance:</p> <p>Face: 1/8" per side</p> <p>Edge: 3/8"</p> <p>Bite: 1"</p>			



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:	.554"			
TOLERANCE:	.507-.600"			
MINIMUM WEIGHT:	5.938 lb./ft ²			
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*ft ² * °F)	<i>*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time</i>
	0.86	0.71	0.89	
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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT SPECIFICATIONS



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:	.770"			
TOLERANCE:	.703-.833			
MINIMUM SIZE:	8.09 lbs/ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.85	0.77	0.83	
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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 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:	.985"			
TOLERANCE:	.899-1.066"			
MINIMUM SIZE:	10.23 lbs./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.83	0.74	0.74	
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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			



PRODUCT NAME:	SUPER SECUR-TEM 5			
PRODUCT CODE:	SSM5			
CONSTRUCTION:	Exact Construction is Proprietary.			
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./ft ²			
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*ft ² * °F)	*Transmittance values are calculated using LBNL Window & Optics Software with the latest database info available at the time
	0.83	0.74	0.73	
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 Clearance: Face: 1/8" per side Edge: 3/8" Bite: 1"			