

Air, Water and Structural Performance				Commercial Dome Skylights Certifications & Testing										Hurricane Missile Impact					Dome MaterialTesting					Fall Protection Testing						
	Product Tested	Description NAFS Testing	NAFS-17 Ratings	WDA/NAF mark	AAMA	ICC-ES	FM	IFRC	LAPMO	Miami-Dade NOA	TDI	Florida-BM Approval	Test Report Only	TAS 201, 202, 203 ASTM E1886 and E1996	HVHZ	Wind-Borne Debris	Miami-Dade	U-Factor	SHGC NFRC 200	Haze ASTM D1003	Luminous Trans- mittance ASTM D1003	UV Transmittance ASTM E903	Smoke Density Rating ASTM D2843	Self-Ignition Temp ASTM D1929	Rate of Burn ASTM D635	Burn Brand Rating ASTM E108	Hail FM 4431	Static Max Weight	Dynamic Dropped Weight	
Dynamic Double Domes	CMD2/DMD2 PIC2 LuxGuard Smooth over Prismatic (0.118 PC/0.118 PC) CMD2 6096 PIC2 & DMD2 6096 PIC2	Max Uplift	30 psf	✓		Max size 4896	✓ Max size 6096 or 40 SF	✓									N/A		0.65	0.46	100%	61.9%	n.r.	Clear 48.5%	1030° F	CC1	Class A	FM - 2" VELUX - 4"	1000 lbf Tested size 6096	1600 lbf-ft 400 lbs @ 4" Tested size 6096
		Max Download	30 psf																											
		Max Water Penetration	15 psf (Pass)																											
		Max Air Leakage	<0.061 cfm/ft²																											
	CMD2 X1P2 LuxGuard Plus Smooth over Smooth (0.150 PC/0.118 PC) CMD2 4896 X1P2 CMD2 6072 X1P2	Max Uplift	4896: 80 psf, 6072: 60 psf	✓			✓ Max size 6096 or 40 SF							Cyclic Pressure	Yes			+/- 80 psf	+/- 80 psf		100%	65.6%	0.1%	Clear 33.9%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested size 6096 Actual test P1P2 (0.118 PC/0.118 PC)	1600 lbf-ft 400 lbs @ 4" Tested size 6096 Actual test P1P2 (0.118 PC/0.118 PC)
		Max Download	4896: 80 psf, 6072: 65 psf																											
		Max Water Penetration	15 psf (Pass)																											
		Max Air Leakage	<0.1 cfm/ft²																											
	CMD2/DMD2 P1P2 LuxGuard Smooth over Smooth (0.118 PC/0.118 PC) CMD2 6096 P1P2, DMD2 6096 P1P2, DMD2 7272 P1P2, DMD2 7272 P1P2	Max Uplift	6096: 55 psf, 7272: 35 psf	✓			✓ Max size 6096 or 40 SF	✓									N/A		0.65	0.49	100%	66.4%	0.1%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested size 6096 & 7272	1600 lbf-ft 400 lbs @ 4" Tested size 6096 2000 lbf-ft 400 lbs @ 5" Tested size 7272
		Max Download	6096: 55 psf, 7272: 35 psf																											
Max Water Penetration		15 psf (Pass)																												
Max Air Leakage		0.006 cfm/ft² (Fixed)																												
Triple Dynamic Domes	CMD2/DMD2 SIN2 IMA Clear Smooth over Prismatic (0.150 100% IMA/0.118 50% IMA) CMD2 6096 SIN2 & DMD2 6096 SIN2	Max Uplift	35 psf	✓			✓										N/A		0.64	0.48	100%	68.9%	6.2%	32.1%	830° F	CC2	n.r.	n.r.	800 lbf Tested size 6096	400 lbf-ft 100 lbs @ 4" Tested size 6096
		Max Download	35 psf																											
		Max Water Penetration	15 psf (Pass)																											
		Max Air Leakage	0.005 cfm/ft² (Fixed)																											
	CMD2/DMD P1H1 LuxGuard Smooth over Satin Ice Acrylic (0.118 PC/0.118 Satin Ice Acrylic) CMD2 6096 P1H1, DMD2 6096 P1H1	Max Uplift	45 psf	✓			✓										N/A		0.67	0.54	100%	71.5%	0.2%	PC 48.5%	PC - 1030° F	PC - CC1	Class A	4" Pass	1000 lbf Tested size 6096	1200 lbf-ft 400 lbs @ 3" Tested size 6096
		Max Download	45 psf																											
		Max Water Penetration	15 psf (Pass)																											
		Max Air Leakage	0.025 cfm/ft² (Fixed)																											
	CMD3/DMD3 PIC2 LuxGuard Smooth over Smooth over Prismatic (0.118 PC/0.118 PC) CMD3 6096 PIC2 & DMD3 6096 PIC2	Max Uplift	55 psf	✓				✓									N/A		0.52	0.41	100%	60.6%	0.0%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested size 6096	2000 lbf-ft 400 lbs @ 5" Tested size 6096
		Max Download	55 psf																											
Max Water Penetration		15 psf (Pass)																												
Max Air Leakage		0.007 cfm/ft² (Fixed)																												
CMD3/DMD3 P1P2 LuxGuard Smooth over Smooth over Smooth (0.118 PC/0.118 PC) CMD3 6096 P1P2, DMD3 6096 P1P2	Max Uplift	55 psf	✓													N/A		n.r.	n.r.	100%	PIP1: 60.6% PIP2: 52.4%	0.0%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested size 6096 Actual test CMD3/DMD3 PIC2	2000 lbf-ft 400 lbs @ 5" Tested size 6096 Actual test CMD3/DMD3 PIC2	
	Max Download	55 psf																												
	Max Water Penetration	15 psf (Pass)																												
	Max Air Leakage	0.015 cfm/ft² (Fixed)																												
Dynamic Dome with Lumina	CMD4/DMD4 LuxGuard Smooth over Lumina (0.118 PC/0 mm Lumina) CMD4 4896 P1L2, DMD4 4896 P1L2 (Air/Water/Structural) CMD4 6096 P1L2, DMD4 6096 P1L2 (Fall Protection)	Max Uplift	40 psf	✓			✓										N/A		0.37	0.46	95.6%	63.5%	0.1%	PC 48.5%	PC 1030° F	PC CC1	Class A	4" Pass	1000 lbf Tested size 6096	1200 lbf-ft 400 lbs @ 3" Tested size 6096
		Max Download	40 psf																											
		Max Water Penetration	15 psf																											
		Max Air Leakage	0.010 cfm/ft² (Fixed)																											
	CMD5/DMD5 LuxGuard Smooth over Security Bars with Lumina (See CMD4/DMD4 except for Fall Protection) (0.118 IMA/0 mm Lumina) CMD5 4896 P1L2, DMD5 6096 P1L2, DMD5 4896 P1L2, DMD5 6096 P1L2	Max Uplift	40 psf	✓			✓										N/A		0.37	0.46	95.6%	63.5%	0.1%	PC 48.5%	PC 1030° F	PC CC1	Class A	4" Pass	CMD5 Security Bars 1500 lbf Tested size 4896 Security Bars 800 lbf Tested size 60120	CMD5 Security Bars 1400 lbf-ft 400 lbs @ 3.5" Tested size 4896 Security Bars 1500 lbf-ft Tested size 60120
		Max Download	40 psf																											
		Max Water Penetration	15 psf																											
		Max Air Leakage	0.010 cfm/ft² (Fixed)																											
	CDS 4896 SoCal (0.118 PC) CDS 4896 3P200 or CDS 4896 3P200	Max Uplift	40 psf	✓		✓ Max size 4896	✓										N/A		1.42	0.61	100%	73.7%	0.2%	White 59.6%	1030° F	CC1	Class B	4" Pass	1776 lbf 4896 max size, 118 poly	400 lbs @ 3" 1200 lbf 4896 Max size, 118 poly
		Max Download	35 psf																											
Max Water Penetration		4.6 psf (Pass)																												
Max Air Leakage		0.05 cfm/ft²																												
Traditional Double Domes - Greenwood	CMD2/DMD2 PIC2 LuxGuard Smooth over Prismatic (0.118 PC/0.118 PC) CMD2 4896 PIC2 & DMD2 4896 PIC2	Max Uplift	n.r.														N/A		0.59	0.51	100%	61.9%	Clear n.r.	1030° F	CC1	Class A	FM - 2" VELUX - 4"	1000 lbf Tested Size 4896	1600 lbf-ft 400 lbs @ 4" Tested Size 4896	
		Max Download	n.r.																											
		Max Water Penetration	n.r.																											
		Max Air Leakage	n.r.																											
	CMD2 X1P2 LuxGuard Plus Smooth over Smooth (0.150 PC/0.118 PC) CMD2 4896 X1P2 (Using P1P2 test results)	Max Uplift	30 psf														N/A			100%	65.6%	0.1%	Clear 33.9%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested Size 6096 Actual test P1P2 (0.118 PC/0.118 PC)	1600 lbf-ft 400 lbs @ 4" Tested Size 6096 Actual test P1P2 (0.118 PC/0.118 PC)	
		Max Download	30 psf																											
		Max Water Penetration	15 psf																											
		Max Air Leakage	0.030 cfm/ft² (Fixed)																											
	CMD2/DMD2 P1P2 LuxGuard Smooth over Smooth (0.118 PC/0.118 PC) CMD2 4896 P1P2, DMD2 4896 P1P2 CMD2 4896 P1P2, DMD2 4896 P1P2	Max Uplift	30 psf	✓													N/A		0.59	0.52	100%	66.4%	0.1%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	1000 lbf Tested Size 6096	1600 lbf-ft 400 lbs @ 4" Tested Size 6096
		Max Download	30 psf																											
Max Water Penetration		15 psf																												
Max Air Leakage		0.030 cfm/ft² (Fixed)																												
CMD2/DMD2 SIN2 IMA Clear Smooth over Prismatic (0.150 100% IMA/0.118 50% IMA) CMD2 6096 SIN2 & DMD2 6096 SIN2	Max Uplift	n.r.														N/A		n.r.	n.r.	100%	68.9%	6.2%	32.1%	830° F	CC2	n.r.	n.r.	1000 lbf Tested Size 6096	1600 lbf-ft 400 lbs @ 4" Tested Size 6096	
	Max Download	n.r.																												
	Max Water Penetration	n.r.																												
	Max Air Leakage	n.r.																												
CMD2/DMD2 P1H1 LuxGuard Smooth over Satin Ice Acrylic (0.118 PC/0.118 Satin Ice Acrylic) CMD2 6096 P1H1, DMD2 6096 P1H1	Max Uplift	n.r.														N/A		0.58		100%	71.5%	n.r.	PC 48.5%	PC - 1030° F	PC - CC1	Class A	4" Pass	1000 lbf Tested Size 6096	1200 lbf-ft 400 lbs @ 3" Tested Size 6096	
	Max Download	n.r.																												
	Max Water Penetration	n.r.																												
	Max Air Leakage	n.r.																												
Triple Traditional Domes	CMD3/DMD3 PIC2 LuxGuard Smooth over Smooth over Prismatic (0.118 PC/0.118 PC) CMD3 6096 PIC2 & DMD3 6096 PIC2	Max Uplift	n.r.				✓										N/A		0.44	0.47	100%	60.6%	0.0%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	n.r.	n.r.
		Max Download	n.r.																											
		Max Water Penetration	n.r.																											
		Max Air Leakage	n.r.																											
	CMD3/DMD3 P1P2 LuxGuard Smooth over Smooth over Smooth (0.118 PC/0.118 PC) CMD3 6096 P1P2, DMD3 6096 P1P2 CMD3 6096 P1P2, DMD3 6096 P1P2	Max Uplift	n.r.														N/A		n.r.	n.r.	100%	PIP1: 60.6% PIP2: 52.4%	0.0%	Clear 48.5%	1030° F	CC1	Class A	4" Pass	n.r.	n.r.
		Max Download	n.r.																											
		Max Water Penetration	n.r.																											
		Max Air Leakage	n.r.																											
	CWC2 (DDSS2) Double dome curb mount (8x8/8 (90/90) - 0.220 acrylic over 0.177 IMA 62x100 (66/62) - 0.220 acrylic over 0.177 IMA 64x64 (66/64) - 0.177 acrylic over 0.118 IMA 48x92 (52/96) - 0.177 acrylic over 0.177 IMA Multiple sizes and glazing for fall protection	98x98 Max Download / Uplift	+/- 30 psf															N/A		n.r.	n.r.	n.r.	n.r.	4.8% 0.125" thickness	850° F	17"Min	n.r.		36 lbf 34005200 0A1A1 (080/080) 52005200 0A1A1 (080/080) 384 lbf 48009600 0A1A1 (118/118)	100 lbs @ 3" 300 lbf CWC2 48009600 0A1A1
		62x100 Max Download / Uplift	+/- 30 psf																											
64x64 Max Download / Uplift		+/- 45 psf																												
48x92 Max Download / Uplift		+/- 30 psf																												
CWD2 (DDSA2-12) Double dome deck mount 76x76 (90/90) - 0.177 acrylic over 0.177 IMA 64x64 (66/62) - 0.220 acrylic over 0.177 IMA 64x64 (66/64) - 0.177 acrylic over 0.118 IMA 48x92 (52/96) - 0.177 acrylic over 0.177 IMA Multiple sizes and glazing for fall protection	76x76 Max Download / Uplift	+/- 30 psf	✓														n.r.	n.r.	n.r.	n.r.	n.r.	4.8% 0.125" thickness	850° F	17"Min	n.r.	n.r.	336 lbf 52005200 0A1A1 (090/090) 576 lbf 55001020 0A1A1 (118/118)	No data		
	64x98 Max Download / Uplift	+/- 30 psf																												
	64x64 Max Download / Uplift	+/- 45 psf																												
	48x91 Max Download / Uplift	+/- 30 psf																												
CWC3 Triple dome, curb mount	Max Download / Uplift																N/A		n.r.	n.r.	n.r.	n.r.	4.8% 0.125" thickness	850° F	17"Min	n.r.	n.r.	Possibly use CWC2 Data	Possibly use CWC2 data	
	Max Water Penetration	Possibly use CWC2 data																												
	Max Air Leakage																													
	Max Download / Uplift																													
CWD3 Triple dome, deck mount	Max Download / Uplift																N/A		n.r.	n.r.	n.r.	n.r.	4.8% 0.125" thickness	850° F	17"Min	n.r.	n.r.	Possibly use CWC2 Data	Possibly use CWC2 data	
	Max Water Penetration	Possibly use CWD2 data																												
	Max Air Leakage																													
	Max Download / Uplift																													
Hurricane Traditional Domes - Wells	CWS2 (DDCSHR) Double dome curb mount 5296 - 0.236 IMA over 0.236 IMA 5276 - 0.236 IMA over 0.236 IMA 5252 - 0.236 IMA over 0.236 IMA CWS2 5296 for fall protection	5296 Max Download / Uplift	+/- 45 psf	✓																									1200 lbs 5296 Max size, 236 IMA/236 IMA	400 lbs @ 3" 1200 lbf 5296 Max size, 236 IMA/236 IMA
		5276 Max Download / Uplift	+/- 60 psf																											
		5252 Max Download / Uplift	+/- 75 psf																											
		Max Water Penetration	15.04 psf																											
	CWS3 (DDDCSHR) Triple dome curb mount 0.118 Acrylic over 0.236 IMA over 0.236 IMA (Outer dome is meant to be sacrificed) CWS2 5296 for fall protection	Max Download / Uplift																											1200 lbs 5296 Max size, 236 IMA/236 IMA	400 lbs @ 3" 1200 lbf 5296 Max size, 236 IMA/236 IMA
		Max Water Penetration	See CWS2																											
		Max Air Leakage	outer dome sacrificed on CWS3																											
		Max Download / Uplift																												
	CMD2/DMD2 E2A1 EcoSky Satin Sky 2 over Smooth Acrylic (0.118 IMA/0.118 Acrylic) CMD2 4896 E2A1, DMD2 4896 E2A2, DMD2 6096 E2A1, DMD2 6096 E2A2	Max Uplift	4896: 50 psf, 6096: 45 psf	✓				✓										N/A	E2A1 & E2A2 0.65	E2A1(clear) 0.37 E2A2(white) 0.31	E2A1 99.8% E2A2 100%	E2A1 56.8% E2A2 34.7%	E2A1 2.3% E2A2 0.7%	SS2 3.8%	SS2 750° F	SS2 CC2	n.r.	n.r.	1000 lbf Tested size 6096	300 lbf-ft 100 lbs @ 3" Tested size 6096
		Max Download	4896: 50 psf, 6096: 45 psf																					Acrylic 3.4%		Acrylic 833° F				
Max Water Penetration		15 psf																												
Max Air Leakage		0.013 cfm/ft² (Fixed)																												
CMD3/DMD3 E2A1 EcoSky Satin Sky 2 over Clear Smooth over Clear Smooth (0.118 IMA/0.118 Acrylic/0.118 Acrylic) CMD3 6096 E2A1, DMD3 6096 E2A1	Max Uplift	45 psf	✓				✓										N/A	0.52	0.34	99.9%	51.7%	1.9%	SS2 3.8%	SS2 750° F	SS2 CC2	n.r.	n.r.	1000 lbf Tested Size 6096	400 lbf-ft 200 lbf @ 2" Tested size 6096	
	Max Download	45 psf																					Acrylic 3.4%		Acrylic 833° F					Acrylic 1.02"/min
	Max Water Penetration	15 psf																												
	Max Air Leakage	0.0																												