

Vinyl Testing Chart



Series	Operation	Frame	Test Type	Testing Protocol	Class	Passed	Test Report	Report #
Awning								
4500	Awning	EU Frame 76mm, T94 Sash: 1524x813 (60"x32")	Structural	AAMA 101 '97	Class (HC), DP (100)	Yes	61095.01-122-47 SYS	61095.01-122-47
4500	Awning	NA Frame, T94 Sash: 1524x813 (60"x32")	Structural	AAMA 101 '05	Class (HC), DP (100)	Yes	79882.01-109-47-r0	79882.01-109-47
Configuration : Bi-Fold (1)								
4500	Bi-Fold	EU Frame, Medium Z & T Sash: 3747x2438 (148"x96")	Structural	NAFS '08	Class (LC), DP (25)	No	4500_Bi-fold_NAFS_LC25_B7323 01-109-44-R0	7323.01-109-44
Configuration : Fixed (17)								
4500	Fixed	NA Frame	Acoustic	ASTM E 90	STC 39 for 1-3/8" glass : STC 40 for 1-5/16	No	4500 Fixed STC 40 A1834.01-113-11-r0	1834.01-113-11
4500	Fixed	NA Frame, Internally & externally glazed for use with door: 1219x2489 (48"x98")	Impact	AAMA 101 & ASTM E 1996, ASTM E 1886	Large Missile & Cycling DP+/-65	No	4500_FX_Test Report_AAAMA	4500 FX AAMA
4500	Fixed	NA Frame, Internally & externally glazed for use with door: 1219x2489 (48"x98")	Impact	TAS 201, 202, 203	Large Missile & Cycling DP+/-65	No	4500_FX_Test Report_TAS	4500 FX TAS
4500	Fixed	EU Frame 76mm: 1829x1829 (72"x72")	Structural	AAMA 101 '97	Class (HC), DP (100)	Yes	60580.01-122-47 SYS	60580.01-122-47
4500	Fixed	NA Frame: 1524x1829 (60"x72")	Structural	AAMA 101 '05	Class (HC), DP (80)	Yes	70831.01-109-47-r0	70831.01-109-47
4500	Fixed	NA Frame: 1829x1829 (72"x72")	Structural	AAMA 101 '05	Class (HC), DP (65)	Yes	79880.01-109-47-r0	79880.01-109-47
4500	Fixed	EU Frame: 1520x2500 (60"x99")	Structural	NAFS '08	Class (AW), DP (70)	No	96123.01-109-47-R1	96123.01-109-47
4500	Fixed	EU Frame: 1520x2515 (60"x99")	Structural	CSA A440 '00	FX, B7, C5/C5	No	96123.02-109-47-R1	96123.02-109-47
4500	Fixed	NA Frame: 2000x2000 (79"x79")	Structural	AAMA 101 '05	Class (R), DP (55)	No	4500 Fixed 96668.01-109-47-r0	96668.01-109-47
4500	Fixed	NA Frame: 2000x2000 (79"x79")	Structural	CSA A440 '00	FX, B4, C5/C5	No	4500 Fixed 96668.02-109-47-r0	96668.02-109-47
4500	Fixed	NA Frame: 1829x1829 (72"x72")	Structural	CSA A440 '00	FX, B7, C5	No	4500_FX_CSA A440-00_NA frame_B8186 02-109-47-r0	8186 02-109-47
4500	Fixed	NA Frame: 1829x1829 (72"x72")	Structural	NAFS '08	Class (CW), DP (75)	No	4500_FX_NAFS 08_NA frame_B8186 01-109-47-r0	8186 01-109-47
4500	Fixed	NA Frame	Thermal	'04 NFRC Simulation	U-Factor 0.16-0.31	Yes	61636.01-116-45 SYS	61636.01-116-45
4500	Fixed	NA Frame	Thermal	'04 NFRC Hotbox	U-Factor 0.26	No	94764.01-116-46-R0 (Assembly Dwgs Only)	94764.01-116-46
4500	Fixed	NA Frame	Thermal	'04 NFRC Simulation	U-Factor 0.20-0.46	No	94763.01-116-45-R0 (Assembly Dwgs Only)	94763.01-116-45
4500	Fixed	NA Frame	Thermal	'10 NFRC Hot Box	U-Factor 0.20	No	4500 Fixed Hot Box A5196 01-301-46-R0 (Without Dwgs)	A5196.01-301-46
Configuration : Fixed and Tilt/Turn (2)								
4500	Fixed and Tilt/Turn	NA Frame: 914x2007 (36"x79")	Blast	ASTM 1642-04/GSA TS 01-03	Fixed - No Break: TT - No Hazard	No	4500 Blast TT-FX_Test Report	A5758.01-122-12
4500	Fixed and Tilt/Turn	NA Frame: 914x2007 (36"x79")	Blast	ASTM 1642-04/GSA TS 01-03	Fixed - No Hazard: TT - NO Hazard	No	4500 TT - FX blast GSA report	B0747-01-122-12

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Configuration : Hopper (3)								
4500	Hopper	EU Frame 76mm: 1524x813 (60"x32")	Structural	AAMA 101 '97	Class (HC), DP (100)	Yes	60579.02-122-47 SYS	60579.02-122-47
4500	Hopper	NA Frame: 1524x813 (60"x32")	Structural	AAMA 101 '05	Class (HC), DP (100)	Yes	79881.01-109-47-r0	79881.01-109-47
4500	Hopper	EU Frame, Door Z-Sash: 1524x914 (60"x36")	Structural	AAMA 101 '05	Class (AW), DP (100)	No	92229.01-109-47-r0	92229.01-109-47
Configuration : In-Swing Double Door (3)								
4500	In-Swing Double Door	NA Frame: 1829x2438 (72"x96")	Structural	ASTM E 283-04, ASTM E 330-02, ASTM E 547-00	air <0.01 cfm/ft2, water 6.06 psf	No	99905.01-109-47-r0	99905.01-109-47
4500	In-Swing Double Door	NA Frame: 1829x2438 (72"x96")	Structural	CAN/CGSB-82.1-M89	A3, B2, C5/C3	No	99905.02-109-47-r0	99905.02-109-47
4500	In-Swing Double Door	NA Frame & Sill: 1829x2438 (72"x96")	Structural	NAFS '08	Class (LC), DP (40)	No	4500 French Inswing Door Structural LC 99905.03-109-47-r0	99905.03-109-47
Configuration : In-Swing Single Door (6)								
4500	In-Swing Single Door	NA Frame	Acoustic	ASTM E 90 '04	STC 40, OITC 33	Yes	4500 Inswing Door STC 40 TL07-574	TL 07-574
4500	In-Swing Single Door	960mm X 2090 mm	Select One	NFRC U-Factor Simulations	U-Factor 0.23-0.43	No	C4592.01-116-45-R0 (NFRC sims ISD 0.24-0.43 121816)	C4592.01-116-45
4500	In-Swing Single Door	NA Frame, Sub-sill: 914x2108 (36"x83")	Structural	AAMA 101 '05	Class (LC), DP (40)	No	89301.01-109-47-r0	89301.01-109-47
4500	In-Swing Single Door	NA Frame, Sub-sill: 914x2108 (36"x83")	Structural	CAN/CGSB-82.1-M89	A3, B2, C3/C3	No	89301.02-109-47-r0	89301.02-109-47
4500	In-Swing Single Door	NA Frame, Sub-sill	Thermal	'04 NFRC Hot Box	U-Factor 0.25	No	91151.01-301-46-R0	91151.01-301-46
4500	In-Swing Single Door	91417.01-116-45-R0 (Assembly Dwgs Only).pdf	Thermal	'04 NFRC Simulation	U-Factor 0.25-0.44	No	91417.01-116-45-R0 (Assembly Dwgs Only)	91417.01-116-45
Configuration : Mullied (9)								
4500	Mullied	Fixed over T/T over Fixed, NA Frame: 1219x3010 (48"x119")	Structural	AAMA 101 '05	Class (C), DP's (30) & (50)	No	90761.01-109-47-r0	90761.01-109-47
4500	Mullied	T/T over Fixed Mullied to Fixed over Hopper, NA Frame: 1524x2438 (60"x96")	Structural	AAMA 101 '05	Class (SP), DP (60)	No	92947.01-109-47-r0	92947.01-109-47
4500	Mullied	FX over FX Mullied to FX over FX (Storefront), 100 x 6 steel reinf.: 2438x2769 (96"x109")	Structural	ASTM E 283, ASTM E 547 & 331, ASTM E 330	Air: 0.02, water: 15.04 psf, uniform struc.: 75 psf, uniform deflect.: 50 psf	No	94572.01-109-47-r0	94572.01-109-47
4500	Mullied	FX over FX Mullied to FX over FX (Storefront), 100 x 6 steel reinf.: 2438x2769 (96"x109")	Structural	CSA A440 '00	FX, B7, C2/C3	No	94572.02-109-47-r0	94572.02-109-47
4500	Mullied	T/T over Fixed Mullied to Fixed over Hopper, EU Frame 68: 1524x2438 (60"x96")	Structural	ASTM E 283, ASTM E 547 & 331, ASTM E 330	air <0.01, water: 12.11 psf, uniform struc.: 82 psf, uniform deflect.: 55 psf	No	94573.01-109-47-r0	94573.01-109-47
4500	Mullied	Fixed over Hopper, EU Frame, Sash Z 74 w/ special reinforcement: 1520x2515 (60"x99")	Structural	NAFS '08	Class (AW), DP (60)	No	96124.01-109-47-R0	96124.01-109-47
4500	Mullied	Fixed over Hopper, EU Frame, Sash Z 74 w/ special reinforcement: 1520x2515 (60"x99")	Structural	CSA A440 '00	A3/FX, B7, C4/C4	No	96124.02-109-47-R0	96124.02-109-47
4500	Mullied	Fixed/Fixed Expansion Joint: 2438x2286 (96"x90")	Structural	CSA A440 '00	FX, B5, C3	No	4500 Expansion Joint Structural CSA A9715.02-109-47-r0	9715.02-109-47
4500	Mullied	Fixed/Fixed Expansion Joint: 2438x2286 (96"x90")	Structural	NAFS '08	Class (CW), DP (50)	No	4500 Expansion Joint Structural NAFS A9715.01-109-47-r0	9715.01-109-47

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Configuration : Out-Swing Double Door (9)

4500	Out-Swing Double Door	NA Frame	Acoustic	ASTM E 90 '04	STC 38, OITC 31	Yes	4500 French Outswing Door STC 38 TL07-577	TL 07-577
4500	Out-Swing Double Door	Dry glazed, NA Frame, w/ 1880x2489 (74"x98") & w/o 1880x2083 (74"x82") weldable corner blocks	Impact	AAMA 101 & ASTM E 1996, ASTM E 1886	Large Missile & Cycling DP+/-65	No	4500_OFD_Test Report_AAMA	4500 OFD-AAMA
4500	Out-Swing Double Door	Dry glazed, NA Frame, w/ 1880x2489 (74"x98") & w/o 1880x2083 (74"x82") weldable corner blocks	Impact	TAS 201, 202, 203	Large Missile & Cycling DP+/-65	No	4500_OFD_Test Report_TAS	4500 OFD-TAS
4500	Out-Swing Double Door	NA Frame, T118 Sash: 1829x2438 (72"x96")	Structural	AAMA 101 '97	Class (LC), DP (35)	Yes	55145.01-122-47 SYS	55145.01-122-47
4500	Out-Swing Double Door	1816x2108 (72"x83")	Structural	AAMA 101 '05	Class (C), DP (50)	No	4500 French Door NCTL 110 12242 1S	NCTL-110-12242-1S
4500	Out-Swing Double Door	NA Frame and Sill: 1829x2438 (72"x96")	Structural	CAN/CGSB-82.1-M89	A3, B3, C3/C3	No	O-O French Door 96669.02-109-47-r0	96669.02-109-47
4500	Out-Swing Double Door	NA Frame and Sill: 1829x2438 (72"x96")	Structural	ASTM E 283-04, ASTM E 330-02, ASTM E 547-00	air: < 0.01 cfm/ft2, water: 6.90 psf	No	O-O French Door for US 96669.01-109-47-r0	96669.01-109-47
4500	Out-Swing Double Door	NA Frame, T118 Sash	Thermal	'04 NFRC Hotbox	U-Factor 0.33	Yes	59586.01-301-46 SYS	59586.01-301-46
4500	Out-Swing Double Door	NA Frame, T118 Sash	Thermal	'04 NFRC Simulation	U-Factor 0.34-0.44	Yes	61633.01-116-45 SYS	61633.01-116-45

Configuration : Out-Swing Single Door (8)

4500	Out-Swing Single Door	NA Frame	Acoustic	ASTM E 90 '04	STC 38, OITC 33	Yes	4500 Outswing Door STC 40 TL07-575	TL 07-575
4500	Out-Swing Single Door	NA Frame, T118 Sash, Sub-Sill: 965x2032 (38"x80")	Structural	AAMA 101 '97	Class (LC), DP (40)	Yes	55149.01-122-47 SYS	55149.01-122-47
4500	Out-Swing Single Door	NA Frame, Sub-sill: 914x2108 (36"x83")	Structural	AAMA 101 '05	Class (LC), DP (80)	No	93353.01-109-47-r0	93353.01-109-47
4500	Out-Swing Single Door	NA Frame, Sub-sill	Thermal	'04 NFRC Hot Box	U-Factor 0.26	No	91152.01-301-46-R0	91152.01-301-46
4500	Out-Swing Single Door	91416.01-116-45-R0 (Assembly Dwgs Only).pdf	Thermal	'04 NFRC Simulation	U-Factor 0.25-0.44	No	91416.01-116-45-R0 (Assembly Dwgs Only)	91416.01-116-45
4500	Out-Swing Single Door	NA Frame	Thermal	'04 NFRC Simulation	U-Factor 0.25-0.44	No	91416.01-116-45-R1 (Assembly Dwg Only)	91416.01-116-45
4500	Out-Swing Single Door	EU Frame 959mm x 2092mm	Thermal	NFRC 102-2012 Hotbox	U-Factor 0.24	No	C4591.01-116-46-R0 (NFRC hotbox 4500 OSD 0.24 032217)	C4591.01-116-46
4500	Out-Swing Single Door	960mmX2090mm NA Frame	Thermal	NFRC U-Factor Simulations	U-Factor .25-.44	No	C4590.01-116-45-R0 (NFRC sims 4500 OSD 0.25-0.44 032717)	C4590.01-116-45

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Configuration : Tilt/Slide Door (7)

4500	Tilt/Slide Door	NA Frame	Acoustic	ASTM E 90 '04	STC 40, OITC 31	Yes	4500 Tilt-Slide Door STC 40 TL07-578	TL 07-578
4500	Tilt/Slide Door	EU Frame 2438x2438 (96"x96")	Impact	ASTM E 1886 & ASTM E 1996	Large Missile & Cycling DP +/-80	No	C2187.03-301-44-r0	C2187.03-301-44-r0
4500	Tilt/Slide Door	EU Frame 2438x2438 (96"x96") Direct Set	Impact	TAS 201, 202, 203	Large Missile & Cycling DP +/-80	No	C2187.01-301-18-r0	C2187.01-301-18
4500	Tilt/Slide Door	EU Frame 2438x2438 (96"x96")	Structural	AAMA/WDMA/CSA 101/I.S.2/A 440-08	Class (CW), (DP) 80	No	C2187.02-301-44-r0	C2187.02-301-44
4500	Tilt/Slide Door	2419x2108 (95"x83")	Structural	NAFS '08	Class (CW), DP (55)	No	4500 Tilt Slide A8465.01-109-47-r0	8465.01-109-47
4500	Tilt/Slide Door	2419x2108 (95"x83")	Structural	CSA A440 '00	A3, B5, C4	No	4500 Tilt Slide CSA A8465.02-109-47-r0	8465.02-109-47
4500	Tilt/Slide Door	XX or OX 2000x2000 w/ Z74 or Z98	Thermal	NFRC U-Factor Simulations	U-Factor .20-.43	No	C6806.01-116-45-R1 (NFRC 4500 TS sims 0.20-0.43 032117)	C6806.01-116-45

Configuration : Tilt/Turn (24)

4500	Tilt/Turn	NA Frame	Acoustic	AAMA 1801	STC 39, OITC 30	Yes	54634.01-113-11 SYS	54634.01-113-11
4500	Tilt/Turn	56604.01-113-11-R0.pdf	Acoustic	ASTM E 90	STC 43, OITC 34	Yes	56604.01-113-11-R0	56604.01-113-11
4500	Tilt/Turn	57176.01-113-11-R0.pdf	Acoustic	ASTM E 90	STC 37, OITC 30	Yes	57176.01-113-11-R0	57176.01-113-11
4500	Tilt/Turn	NA Frame, Glass 1-5/16"	Acoustic	ASTM E 90	STC 37, OITC 28	No	4500 T-T STC 37 97200.01-113-11-r0	97200.01-113-11
4500	Tilt/Turn	NA Frame	Acoustic	ASTM E 90	STC 38 for 1-5/16" glass : STC 39 for 1	No	4500 T-T STC 39 A1833.01-113-11-r0	1833.01-113-11
4500	Tilt/Turn	Dry glazed, NA Frame: 1118x2032 (44"x80")	Impact	TAS 201, 202, 203	Large Missile & Cycling DP +/-65	No	4500 TT_Test Report_TAS	4500 TT-TAS
4500	Tilt/Turn	Dry glazed, NA Frame: 1118x2032 (44"x80")	Impact	AAMA 101 & ASTM E 1996, ASTM E 1886	Large Missile & Cycling DP +/-65	No	4500 TT_Test Report_AAMA	4500 TT-AAMA
4500	Tilt/Turn	NA Frame: 1118x1524 (44"x60")	Structural	AAMA 101 '97	Class (R), DP (80)	Yes	55150.01-122-47 SYS	55150.01-122-47
4500	Tilt/Turn	NA Frame: 1000x1600 (39"x63")	Structural	CSA A440 '00	A3, B7, C5/C5	Yes	AI-02578-A (Angl) Oscillo-Battant CSA PVC Rehau Industries	AI-02578-A
4500	Tilt/Turn	EU Frame 68mm: 1000x1600 (39"x63")	Structural	AAMA 101 '05	Class (R), DP (65)	Yes	60905.01-122-47 SYS	60905.01-122-47
4500	Tilt/Turn	EU Frame: 1219x1829 (48"x72")	Structural	AAMA 101 '05	Class (C), DP (90)	Yes	79883.01-109-47-r0	79883.01-109-47
4500	Tilt/Turn	NA Frame: 1219x1829 (48"x72")	Structural	AAMA 101 '05	Class (C), DP (90)	Yes	79884.01-109-47-r0	79884.01-109-47
4500	Tilt/Turn	NA Frame: 1524x2515 (60"x99")	Structural	AAMA 101 '05	Class (HC), DP (45)	Yes	79884.02-109-47-r1	79884.02-109-47
4500	Tilt/Turn	NA Frame: 1219x1803 (48"x71")	Structural	NAFS '08	Class (CW), DP (100)	No	4500 T-T structural A9014.01-109-47-r0	9014.01-109-47
4500	Tilt/Turn	NA Frame: 1219x1803 (48"x71")	Structural	CSA A440 '00	A3, B7, C5/C5	No	4500 T-T Structural A9014.02-109-47-r0	9014.02-109-47
4500	Tilt/Turn	EU Frame: 1219x1803 (48"x71")	Structural	CSA A440 '00	A3, B7, C5	No	4500 TT_EU frame_CSA A440-00_A3 B7 C5_48x71	7013.02-109-47
4500	Tilt/Turn	EU Frame: 1219x1803 (48"x71")	Structural	NAFS '08	Class (CW), DP (95)	No	4500 TT_EU frame_NAFS-08_CW95_48x71	7013.01-109-47
4500	Tilt/Turn	NA Frame	Thermal	'04 NFRC Hotbox	U-Factor 0.30	Yes	59587.01-301-46 SYS	59587.01-301-46
4500	Tilt/Turn	NA Frame Z60 Sash	Thermal	'04 NFRC Simulation	U-Factor 0.21-0.32	Yes	61635.01-116-45 SYS	61635.01-116-45
4500	Tilt/Turn	NA Frame	Thermal	'04 NFRC Hotbox	U-Factor 0.29	No	94766.01-116-46-R0 (Assembly Dwgs Only)	94766.01-116-46
4500	Tilt/Turn	NA frame	Thermal	'04 NFRC Simulation	U-Factor 0.22-0.45	No	94765.01-116-45-R0 (Assembly Dwg Only)	94765.01-116-45
4500	Tilt/Turn	N/A frame	Thermal	AAMA 1503-09	U-Factor 0.22	No	AAMA 1503 A0708.01-301-46-R0 (Not with Drawings)	0708.01-301-46
4500	Tilt/Turn	NA Frame Hotbox Rev 1: 2/27/13	Thermal	NFRC 102-2010	U-Factor 0.19	No	B3110.01-201-46-r1	B3110.01-201-46
4500	Tilt/Turn	NA Frame	Thermal	'10 NFRC Simulation	U-Factor 0.22-0.44	No	4500 TT_Sims_C4087 01-116-45-R0	4087.01-116-45