



DOOR SYSTEMS PERFORMANCE CHART

SIKORA
CUSTOM WINDOWS AND DOORS

TEST	SPECIFICATIONS	TEST RESULTS	RATING																																							
EASE OF OPERATION	MAXIMUM FORCES TO INITIATE AND MAINTAIN MOTION: Initiate: < 200 N (45.0 lb) Maintain: < 100 N (22.5 lb)	<table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">INITIATE</td> <td style="text-align: center;">MAINTAIN</td> </tr> <tr> <td>RIGHT PANEL</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Opening:</td> <td style="text-align: center;">42 N (9.5 lb)</td> <td style="text-align: center;">29 N (6.5lb)</td> </tr> <tr> <td style="padding-left: 20px;">Closing:</td> <td style="text-align: center;">31 N (7.0 lb)</td> <td style="text-align: center;">56 N (12.5lb)</td> </tr> <tr> <td>LEFT PANEL</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Opening:</td> <td style="text-align: center;">40 N (9.0 lb)</td> <td style="text-align: center;">29 N (6.5lb)</td> </tr> <tr> <td style="padding-left: 20px;">Closing:</td> <td style="text-align: center;">42 N (9.5lb)</td> <td style="text-align: center;">40 N (9.0lb)</td> </tr> </table>		INITIATE	MAINTAIN	RIGHT PANEL			Opening:	42 N (9.5 lb)	29 N (6.5lb)	Closing:	31 N (7.0 lb)	56 N (12.5lb)	LEFT PANEL			Opening:	40 N (9.0 lb)	29 N (6.5lb)	Closing:	42 N (9.5lb)	40 N (9.0lb)	PASS																		
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AIR TIGHTNESS ASTM E283	A1: <2.79 m ³ /h.m ⁻¹ (0.50 cfm/ft) A2: <1.65 m ³ /h.m ⁻¹ (0.30 cfm/ft) A3: <0.55 m ³ /h.m ⁻¹ (0.10 cfm/ft)	CRACK LENGTH: 11.440 m (37.53 ft) RATE OF INFILTRATION: 0.041 m ³ /h.m ⁻¹ (0.072 cfm/ft)	A3																																							
WATER RESISTANCE ASTM E547, 4 cycles, each 5 minutes pressure ON and 1 minute pressure OFF	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">RATING</td> <td style="text-align: center;">PRESSURE</td> </tr> <tr> <td>B1:</td> <td style="text-align: center;">150 Pa (3.13 psf)</td> </tr> <tr> <td>B2:</td> <td style="text-align: center;">200 Pa (4.18 psf)</td> </tr> <tr> <td>B3:</td> <td style="text-align: center;">250 Pa (5.22 psf)</td> </tr> <tr> <td>B4:</td> <td style="text-align: center;">400 Pa (8.35 psf)</td> </tr> <tr> <td>B5:</td> <td style="text-align: center;">500 Pa(10.44 psf)</td> </tr> <tr> <td>B6:</td> <td style="text-align: center;">600 Pa(12.53 psf)</td> </tr> <tr> <td>B7:</td> <td style="text-align: center;">700 Pa(14.62 psf)</td> </tr> </table>	RATING	PRESSURE	B1:	150 Pa (3.13 psf)	B2:	200 Pa (4.18 psf)	B3:	250 Pa (5.22 psf)	B4:	400 Pa (8.35 psf)	B5:	500 Pa(10.44 psf)	B6:	600 Pa(12.53 psf)	B7:	700 Pa(14.62 psf)	NO WATER LEAKAGE OCCURRED AT PRESSURE DIFFERENTIALS PROGRESSIVELY INCREASING TO 250 Pa.	B3																							
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SASH STRENGTH & STIFFNESS (RACKING)	MAXIMUM VERTICAL DEFLECTION OF OUTER FREE EDGE OF OPEN SASH IS 5 mm (0.196") AT 265 N (60 lb) VERTICAL FORCE APPLIED TO THE FREE STILE.	<table style="width: 100%; border: none;"> <tr> <td colspan="3" style="text-align: center;">MEASURED VERTICAL DEFLECTION OF OUTER FREE EDGE</td> </tr> <tr> <td style="padding-left: 20px;">Right Panel:</td> <td colspan="2" style="text-align: center;">4.25 mm (0.167")</td> </tr> <tr> <td style="padding-left: 20px;">Left Panel:</td> <td colspan="2" style="text-align: center;">3.89 mm (0.153")</td> </tr> </table>	MEASURED VERTICAL DEFLECTION OF OUTER FREE EDGE			Right Panel:	4.25 mm (0.167")		Left Panel:	3.89 mm (0.153")		PASS																														
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SASH STRENGTH & STIFFNESS (WARPING)	MAXIMUM DEFLECTION OF SASH BLOCKED IN OPEN POSITION < 18.0 mm UNDER 60 N (13.5 lb) APPLIED AT CENTRE OF BOTTOM RAIL.	<table style="width: 100%; border: none;"> <tr> <td colspan="2" style="text-align: center;">MEASURED DEFLECTION (Perpendicular to Top Rail)</td> </tr> <tr> <td style="padding-left: 20px;">Right Panel:</td> <td style="text-align: center;">6.50 mm (0.256")</td> </tr> </table>	MEASURED DEFLECTION (Perpendicular to Top Rail)		Right Panel:	6.50 mm (0.256")	PASS																																			
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SASH PULL - OFF	MID-SPAN SASH DEFLECTION < 10.5 mm (75% OF NET GLAZING ENGAGEMENT OF 14.0 mm) @ 265 N (60lb) CONCENTRATED LOAD.	<table style="width: 100%; border: none;"> <tr> <td colspan="2" style="text-align: center;">DEFLECTION</td> </tr> <tr> <td>RIGHT PANEL</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Hinge Stile:</td> <td style="text-align: center;">2.33 mm (0.092")</td> </tr> <tr> <td style="padding-left: 20px;">Free Stile:</td> <td style="text-align: center;">3.12 mm (0.123")</td> </tr> <tr> <td>LEFT PANEL</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Hinge Stile:</td> <td style="text-align: center;">2.41 mm (0.095")</td> </tr> <tr> <td style="padding-left: 20px;">Free Stile:</td> <td style="text-align: center;">2.92 mm (0.115")</td> </tr> </table>	DEFLECTION		RIGHT PANEL		Hinge Stile:	2.33 mm (0.092")	Free Stile:	3.12 mm (0.123")	LEFT PANEL		Hinge Stile:	2.41 mm (0.095")	Free Stile:	2.92 mm (0.115")	PASS																									
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