## Subject: Table of slide panel performances

Attn: Specifiers / Suppliers of aluminium joinery

## Date: March 2015 - Updated to July 2016

## Objectives

 Confirm slide efficiency of pool access door panels to enable the fitting of Swish child-resistant safety systems per FoSPA 1987
Present a guide of acceptable standards for panel slide efficiency for architects, specifiers, manufacturers and builders to satisfy client needs for effective pool-safety barriers and legal compliance
Confirm that door-panel slide performance of manufacturer's showroom models can be achieved in realistic on-site environments

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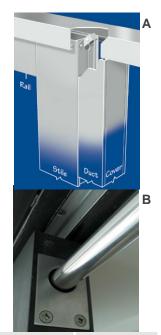
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1. On-site nationwide tests (sample 1685) by Swish Automation prior to system installation, involving all New Zealand door-set brands **Findings** 

1. For practical automation Swish recommend that the force required to slide a site-installed door panel should not exceed 3 kgf (29.4 N) before installation of the door-closing system (=)

2. With wheelset / track correction, slide efficiency of some panel samples (=) was improved to function well within the optimal slide performance range required for efficient automation (=)





lide nance or vners, cts,	Specification		Effort to initiate door panel movement: kgf					
	Joinery profile (alum.)	Panel weight	Standard wheels Standard	Standard wheels Flush	Quad wheelsets Flush	Quad wheelsets Standard	Quad wheelsets Reinforced	Specified SelfClose system
ers, cturers	mm	kg	track	track	track	track	track	
Iders	40	400	n/a	n/a	TBA	TBA	TBA	Horizontal
	40	300	n/a	n/a	TBA	TBA	> 2.0	Horizontal
presenting nired to nel motion ssed in <b>kgf</b> for general nsion. poversion: 3 N	40	200	n/a	n/a	TBA	3.0	> 1.5	Horizontal
	40	150	4.0	4.0	3.0	≈ 2.0	≈ 1.0	Horizontal
	35	110	3.5	3.5	< 2.0	< 1.5	< 1.0	Horizontal
	35	100	3.0	3.0	> 1.0	< 1.0	< 1.0	Horizontal
	35	80	≈ 3.0	2.0	≈ 1.0	< 1.0		Vertical
	35	60	≈ 3.0	1.0	< 1.0			Vertical
	30	50	≈ 3.0	< 1.0				Vertical

Optimal range of effort to initiate movement Recommended maximum practical effort to initiate movement Impractical for automation until wheelsets / track upgraded

Modify doors between house and home pool into effective barriers against access by unsupervised children aged to 6 years, in compliance with the Fencing of Swimming Pools Act 1987.

SelfClose™ (A) and / or (B) devices (above) installed to self-close the panel from open positions ≥ 150mm to the closed self-latched position.
SelfLatch™ (C) device installed ≥ 1500mm above interior floor Since April 2005, Swish Automation has installed over 2000 FoSPA-compliant, TA-approved pool access safety systems in New Zealand

Double-glazed Double-glazed



On-site panel slide performance guide for pool-owners, architects, specifiers, manufacturers and builders

Panel

Slide Efficiencev

Tests

Figures representing effort required to initiate panel motion are expressed in kg (kg force) for genera comprehension. Newton conversion: 1 kgf ≈ 9.8 N

Purpose

Statutory

Approvals

specifications