



REPORT NO.: TR-ALC-240308.01A

ISSUED DATE: Mar. 8th, 2024

PRODUCT: ALUMINIUM GLASS CHANNEL SYSTEM

TEST SAMPLES:

ALUMINIUM GLASS CHANNEL SYSTEM (KBS-TOP-FIX-CH)

TEST METHOD:

1. Install the aluminium channel onto the concrete base with M12 bolts at nominally 200mm centres.
2. Place adjustable wedges and top covers with rubber gasket, and glass panel (WxH=1000x1100mm) into the channel, adjust the wedge and place top cover with rubber gasket to complete the installation of the system.
3. A line load is imposed at 1100mm height of the system, and the deflection of the glass is measured under load.

TEST RESULTS:

Tabel 1: Tested with 12mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Tempered Glass 12mm	0.36	18.91	It's a PASS, tested to 0.36kN/m.
	0.49	25	

Tabel 2: Tested with 15mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Tempered Glass 15mm	0.36	9.41	It's a PASS, tested to 0.74kN/m.
	0.74	20.35	
	0.96	25	
	1.50	43.02	

Tabel 3: Tested with 17.52mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Laminated and Tempered Glass 17.52mm	0.36	7.99	It's a PASS, tested to 0.74kN/m.
	0.74	18.04	
	1.12	25	
	1.50	36.76	

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Tabel 4: Tested with 17.52mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Tempered Glass 19mm	0.36	4.85	It's a PASS, tested to 1.5kN/m.
	0.74	11.92	
	1.50	22.72	
	1.60	25	

Tabel 5: Tested with 17.52mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Laminated and Tempered Glass 21.52mm	0.36	4.28	It's a PASS, tested to 1.5kN/m.
	0.74	10.89	
	1.50	23.75	
	1.57	25	

Operators: Dong HJ 

Inspector: Chang YL 