



REPORT NO.: TR-ALC-240511.01A

ISSUED DATE: May, 11th, 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 steel structure 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	18.97	It's a PASS, tested to 0.36kN/m.
	0.50	25	

Tabel 2: Tested with 15mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Tempered Glass 15mm	0.36	9.45	It's a PASS, tested to 0.74kN/m.
	0.74	20.37	
	0.95	25	
	1.50	42.50	

Tabel 3: Tested with 17.52mm glass

Glass	Imposed Line Load (kN/m)	Deflection (mm)	Conclusion
Laminated and Tempered Glass 17.52mm	0.36	8.03	It's a PASS, tested to 0.74kN/m.
	0.74	18.10	
	1.12	25	
	1.50	37.20	

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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	4.90	It's a PASS, tested to 1.5kN/m.
	0.74	11.90	
	1.50	22.81	
	1.61	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	4.25	It's a PASS, tested to 1.5kN/m.
	0.74	9.82	
	1.50	22.35	
	1.65	25	

Operators: Dong HJ Inspector: Chang YL

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ATTACHMENTS:

Photos from the tests for reference:

