

Linear 100 & 153 – Sliding Door System Bottom Rolling

The Linear sliding door system is a bottom roller sliding frameless glass door system. This frameless sliding door hardware features Linear wheels fitted directly to the 10 and 12mm TEMPAFLOAT® Toughened Safety Glass that are run on special tracks to allow a very modern frameless glass effect. The floor is load-bearing and the head structure does not need to carry the weight of large doors.

Key Features

There are two Linear Systems:

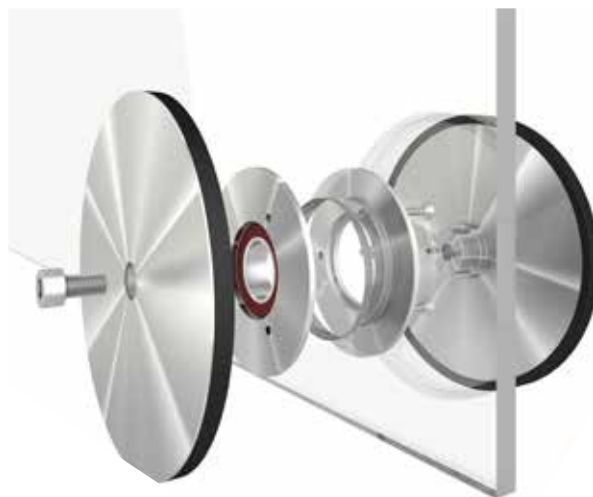
- ▶ Linear 100 – 100mm diameter roller for doors up to 170 kg.
- ▶ Linear 153 – 153mm diameter roller for doors up to 250 kg.
- ▶ The Linear rollers are 316 grade stainless steel with black Acetal tyres, so the operation is smooth and silent.
- ▶ The doors can also be fitted with custom pick up guides if required for more than one door.
- ▶ Door side panels can be fitted and special sliding doors seals if required.
- ▶ The bottom track and head guide are natural anodised aluminium and the head guide has brush felt fitted inside, while the finger pull or door handles are typically stainless steel but can be designed to suit the decor.

Material Finish

- ▶ Natural Anodised.
- ▶ Powdercoated on request. Note: Powder coating is available in a wide range of colours with commercially available surface integrity warranties from 10 to 30 years.

The system is glazed with Metro Performance Glass, as follows:

- ▶ 10mm & 12mm TEMPAFLOAT® Toughened Safety Glass.
- ▶ Toughened Heat Soak Glass.
- ▶ Toughened Screen Print Glass.
- ▶ Toughened Digital Print Glass.
- ▶ Glass must have a minimum strength of 100MPa. All edges polished.



Hardware

- ▶ Refer to your local Metro Frameless Glass Stockist for advice. Or see Section 6.

Scope of Use

- ▶ The Linear System is designed to accommodate glass doors up to a maximum weight of 250kg.
- ▶ Most applications are internal for residential or commercial buildings, but external non-waterproof and wet area applications such as balcony screens or doors are possible typically in a Low Wind Zone (For specification advice refer Metro Technical Department).

Support Inquiries

- ▶ Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz

Linear 100

SUITABLE FOR INTERNAL OR NON WATERPROOF WET AREA APPLICATIONS ONLY. MAXIMUM Door weight 170kg.

Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	2833	Yes	2200	3090	Yes			No			No			No			No
12mm TEMPAFLOAT®	2800	2023	Yes	2600	2179	Yes			No			No			No			No

Linear 153

SUITABLE FOR INTERNAL OR NON WATERPROOF WET AREA APPLICATIONS ONLY. MAXIMUM Door weight 250kg.

Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	4166	Yes	2200	4545	Yes			No			No			No			No
12mm TEMPAFLOAT®	2800	2976	Yes	2600	3205	Yes			No			No			No			No

LINEAR 100 SLIDING DOOR SYSTEM

Bottom Rolling



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
LINEAR 100 SLIDING DOOR KIT 	500019	1000mm Wide *Track / Channel 2000mm	ANOD NATURAL	ALUM 6063	BOTTOM ROLLING *Each Set includes (2x 100mm SS Wheels, 2x top channels stops, 1x top channel, 1x bottom channel)	SLIDING DOOR	Internal
	500697	1000mm Wide *Track / Channel 2000mm	MILL FINISH				
	500020	1500mm Wide *Track / Channel 2000mm	ANOD NATURAL				
	500698	1500mm Wide *Track / Channel 2000mm	MILL FINISH				
	500021	2000mm Wide *Track / Channel 4000mm	ANOD NATURAL				
	500699	2000mm Wide *Track / Channel 4000mm	MILL FINISH				
		*Maximum Door Weight 170kg GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				

(Maximum Door Weight 170kg).

System can be used in single, bi-parting and multiple lines of sliding doors.

NOTE: Need to specify glass thickness on order, minimum glazing clearances shall apply.

LINEAR 153 SLIDING DOOR SYSTEM

Bottom Rolling



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
LINEAR 153 SLIDING DOOR KIT 	500022	1000mm Wide *Track / Channel 2000mm	ANOD NATURAL	ALUM 6063	BOTTOM ROLLING *Each Set includes (2x 153mm SS Wheels, 2x top channels stops, 1x top channel, 1x bottom channel)	SLIDING DOOR	Internal
	500700	1000mm Wide *Track / Channel 2000mm	MILL FINISH				
	500023	1500mm Wide *Track / Channel 2000mm	ANOD NATURAL				
	500701	1500mm Wide *Track / Channel 2000mm	MILL FINISH				
	500024	2000mm Wide *Track / Channel 4000mm	ANOD NATURAL				
	500702	2000mm Wide *Track / Channel 4000mm	MILL FINISH				
		*Maximum Door Weight 250kg GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				

(Maximum Door Weight 250kg).







System can be used in single, bi-parting and multiple lines of sliding doors.

NOTE: Need to specify glass thickness on order, minimum glazing clearances shall apply.

LINEAR 100 & 153 SLIDING DOOR SYSTEM

Individual Components



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
LINEAR BOTTOM TRACK 	300926	3200mm	ANOD NATURAL	ALUM 6063	BOTTOM TRACK	SLIDING DOOR COMPONENT	Internal 
CHANNEL CS50 	300332	50 x 25mm	ANOD NATURAL	ALUM 6063	CHANNEL	CHANNEL SECTION	Internal 
	300331	50 x 25mm	MILL FINISH				
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				
WOOLPILE FINSEAL 	302005	4.8mm backing x 6.5 pile height	GREY	PBF48.650 FINSEAL	WOOLPILE	DOOR SEAL	Internal 

ADDITIONAL: HANDLE SELECTION REQUIRED

(Refer Handle selection table for additional options)

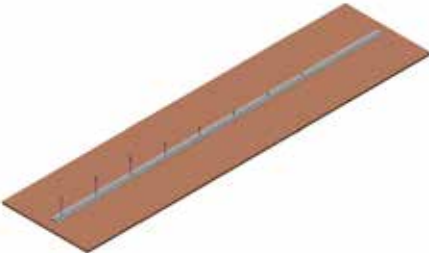
NOTE: Side Mounted channels are available upon request please refer to the specific section on available channels. Allowance must be made in the glass panel for cut out holes (Handle)



FRAMELESS COMMERCIAL DOORS

Installation / Fitting Instructions

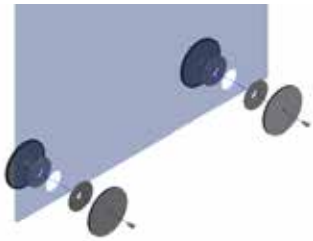
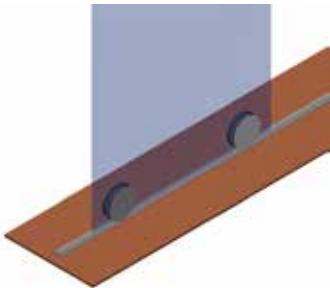
Linear (100 & 153)

Product	Installation/Fitting Instructions
Overhead track Preparation 	<ul style="list-style-type: none"> • Check supporting structure to ensure the floor for the door track is level. • Check lintel to ensure fixing for the top channel is level.
Installation of the Overhead Track to the Supporting Structure 	<ul style="list-style-type: none"> • Fix the bottom channel track using 10g x 40mm SS countersunk screws at 200 to 400 centres to suit the structure you are fixing to. Ensure the screw heads are flush with the track so the glass or roller wheels don't catch them. • Fix the top channel track using 10g x 40mm SS countersunk screws at 200 to 400 centres to suit the structure you are fixing to. Ensure the screw heads are flush with the channel so that the glass doesn't catch them. • Slide track mounted bump stops and fix the bump stops at their nominated distances from each end of the track.

IMPORTANT NOTE: The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.

FRAMELESS COMMERCIAL DOORS

Installation / Fitting Instructions

Product	Installation/Fitting Instructions
Wheels 	<ul style="list-style-type: none"> • Attach either the 100mm or 153mm running wheel to the glass panel, at nominated distances (Depending on system specified)
Final Adjustment 	<ol style="list-style-type: none"> 1. Lubricate the inside track & all moving parts of the carriages with silicone spray. 2. Do a final check and ensure the door is level. 3. Check the full open and closed positions and adjust the bump stops if necessary.
Trouble Shooting	<ol style="list-style-type: none"> 1. Roller slide difficulties: If the sliding door operation becomes difficult, lubricate the roller carriages and the aluminium overhead track with lubricant or silicone spray to reduce traction between rollers and the aluminium track. 2. Door height uneven: The roller carriages are not in the centre or the door rails are not squared and plumb.
Cleaning	<p>Once everything is correctly in place and the job is complete, the glass and plate need to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide page 774.</p>

IMPORTANT NOTE: The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.