

GlassSlide MF250 – Heavy Duty Sliding Door Top Hung

The GlassSlide MF250 is designed for 10 and 12mm TEMPAFLOAT® Toughened Safety Glass doors up to a maximum weight of 250kg. It can be modified for thicker glass and SAFELITE® EVA or SAFELITE® STF (Sentry®) Toughened Laminated Structural Glass (TLSG) and can be used for internal applications and selected sheltered external applications.

The top track is 50 x 50mm anodised aluminium and the hangers have a forged body and Nylon wheels with chrome steel roller bearings. Door rails are aluminium with natural anodised or stainless steel or polished stainless steel cover plates and the floor guide is a cast body with adjustable nylon walls. The bottom floor mount channel option uses anodised aluminium to suit nylon rollers or with a polypropylene insert for metal rollers.

Typically, the MF250 is used for single sliding doors with or without a glass side panel. The door has a top rail which houses the roller carriage adjustable in height from 12 to 20mm.

Key Features

- ▶ MF250 RG – Top Rail – Bottom Guide: The bottom of the door can be frameless and fitted with a door guide.
- ▶ MF250 RR – Top and Bottom Rails: The bottom of the door is fitted with a rail and floor guides used.
- ▶ The door has a top rail which houses the roller carriage which is adjustable in height from 12 to 20mm.
- ▶ Multiple door sets can operate with pick up guides fitted to the top door rails, but this system requires continuous bottom floor mounted channels.

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.

Typical Metro MF250 set outs are:

- ▶ MF250 GW – Ceiling Mount – single or double door.

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

- ▶ Designed for 10 and 12mm Toughened Safety Glass.
The system can be modified to accommodate thicker glass and TEMPAFLOAT® Laminated Structural Glass (TLSG) Laminates = AGA Rail up to 15mm with security pin, holes in glass required.
- ▶ Toughened Heat Soak Glass
- ▶ Toughened Screen Print Glass
- ▶ Toughened Digital Print Glass
- ▶ Laminated Structural Glass SAFELITE® EVA or SAFELITE® STF (Sentry®) - (requires special top rails with security pins fitted).
- ▶ 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 GlassSlide Sliding door is designed for glass doors up to a maximum weight of 250kg.
- ▶ To be used for internal applications and selected sheltered external applications 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

GlassSlide MF250

SUITABLE FOR INTERNAL & SHELTERED EXTERNAL 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
13.2mm SAFELITE® EVA	–	–	Yes	–	–	Yes			No			No			No			No
13.5mm SAFELITE® STF (Sentry®)	–	–	Yes	–	–	Yes			No			No			No			No

Top Hung (Ceiling Mount)





Technical drawing of a lock assembly showing a cross-section of a door with a lock mechanism. The drawing includes dimensions: 150mm for the door width, 30mm for the lock body width, 110mm for the door thickness, 72mm for the lock body height, and 10mm for the lock body depth. Labels include 'Threaded Rod', 'Lock Nut', and '30mm Lock Up Plug/Key or AT Insert'.

NOTE: System can be used in single, bi-parting and multiple lines of sliding doors. In ground channel guide systems available on request.

GLASSSLIDE MF250 SLIDING DOOR SYSTEM



Individual Components

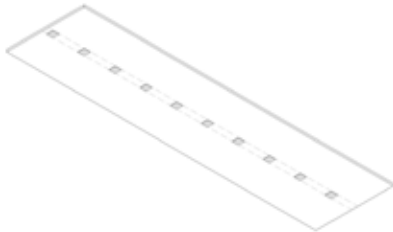


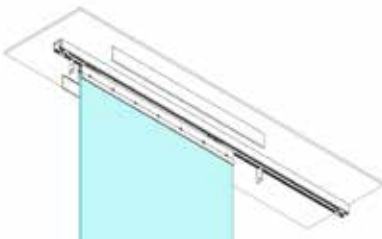
Product	Model	Sizes mm	Finish	Material	Type	Application	Area
GLASSSLIDE MF250 BOTTOM CHANNEL 	300968	3000mm (No PVC)	ANOD NATURAL	ALUM 6063	CHANNEL	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
	300969	4000mm (No PVC)	MILL FINISH OR POWDERCOAT REQUEST				
	300970	6000mm (No PVC)					
	300971	3000mm (PVC)					
	300972	4000mm (PVC)					
	300973	6000mm (PVC)					
GLASSSLIDE MF250 BOTTOM RAIL GUIDE 	300974	103X25mm	BLACK	NYLON	BOTTOM RAIL GUIDE	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
GLASSSLIDE MF250 TOP TRACK 	301633	2000mm	ANOD NATURAL OR POWDERCOAT REQUEST	ALUM 6063	TOP TRACK	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
	300977	3000mm					
	300978	4000mm					
	300979	5000mm					
	300980	6000mm					
GLASS GLIDE WOOLPILE FINSEAL 	302164	6.9mm backing x 12.75 Height	GREY	FINSEAL	WEATHER SEAL	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
		*Per Metre SUITS GLASS SLIDE (MF250)					
GLASSSLIDE MF250 TRACK STOP 	300981	45x35mm	ANOD NATURAL	ALUM/ STAINLESS STEEL COMBINED	TRACK STOP	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
GLASSSLIDE MF250 RAIL HANGER MOUNTING BLOCK 	300976	80x20mm	ANOD NATURAL	ALUM 6063	HANGER MOUNTING BLOCK	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 
GLASSSLIDE MF250 HANGER (SINGLES) 	300975	80x95mm	STEEL/NYLON	ROLLING GEAR	HANGER	SLIDING DOOR COMPONENT	Internal & selected sheltered external applications 

NOTE: Allowance must be made in the glass panel for cut out holes (Handle).

FRAMELESS COMMERCIAL DOORS

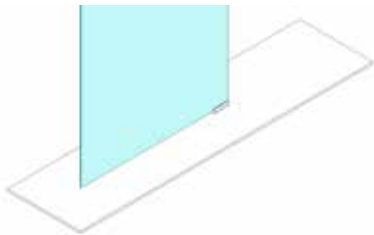
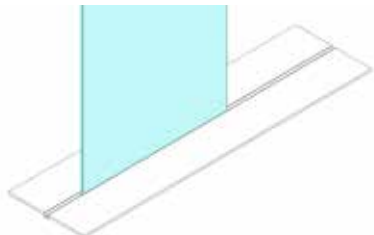
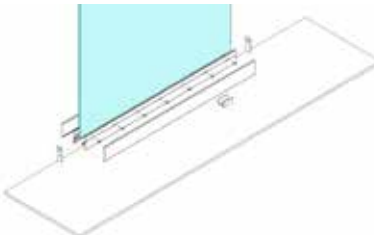
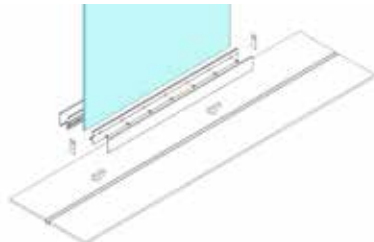
Installation / Fitting Instructions

GlassSlide (MF250)

Product	Installation/Fitting Instructions
Overhead track Preparation 	<ul style="list-style-type: none"> Check supporting structure to ensure the mounting face is level. Packers can be used to level the overall track length. The packers are NOT included in this kit. Packer width should not exceed the width of the track (50mm).
Installation of the Overhead Track to the Supporting Structure 	<ul style="list-style-type: none"> Fix the track using 10g x 50mm 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 roller carriage does not catch them. <p>As a guide use:</p> <ul style="list-style-type: none"> For door widths greater than half the opening width, 10g screws set at 200mm centres maximum. For door widths less than half the opening width, 10g screws set at 400mm centres maximum. Slide track mounted bump stops and roller carriages onto the top track without the door rails attached. Loosely fix the bump stops at their nominated distances from each end of the track.
Top Rail Assembly 	<ul style="list-style-type: none"> Check that the roller blocks have been fixed to the half rail piece at their correct nominated distances from the rail edge, typically 100mm to the centre of the roller threaded rod. Fix the half rail to the roller carriages in the track by hand tightening the threaded shafts into the blocks, refer Step 'A', figure 3. <p>Note. For security purposes ensure that the M8 CSK screw holes are facing to the inside of the building/ room, etc. before fixing the rail to the rollers.</p> <ul style="list-style-type: none"> Level the rail to be parallel to the track, with a minimum/ maximum gap of 12mm to 20mm. Secure the lock nut on the threaded shaft against the roller carriage block. Loosely fix the second piece of the top rail with the M8 countersunk screws as needed, refer Step 'B', Figure 3 (without glass).
Glass Door Assembly 	<p>The M8 screws should still be loose.</p> <ul style="list-style-type: none"> Using 10mm packers, block the bottom edge of the door to obtain correct clearance. There should be 20mm minimum glass clamping surface in the top rail. Tighten the M8 screws up to 15Nm in the top rail and fix the covers in place, refer to Step 'C', figure 3. To plumb the door and adjust the clearances at top and bottom, wind the roller carriage threaded shafts in and out as needed. Re-secure the locking nuts when the door is plumb and remove the packers from under the bottom edge. <p>Note. Allow for at least a 6mm gap, up to a maximum 10mm gap between the bottom edge of the door to the F.F.L.</p>

FRAMELESS COMMERCIAL DOORS

Installation / Fitting Instructions

Product	Installation/Fitting Instructions
Installation of Floor Guide <i>Note. Complete this option if applicable before Step 3, then continue as per above instructions.</i>	<ul style="list-style-type: none"> Slide open the door to its fully opened and closed positions. Once the full open and closed positions are located slide the guide under the glass edge/ s and mark the locations of the screws. Ensure the door is plumb. Slide the door back from those locations and fix the floor guide in place, ensuring that the screws are flush with the base of the guide. <p><i>Note. Ensure the guide will always retain the door throughout its full travel. This position is usually in line with the door jamb.</i></p>
Bottom Rail Installation Option  <i>Bottom Rail with Floor Guide only.</i>  <i>Bottom Rail with Guide Channel only</i>	<p><i>Note. For security purposes ensure that the M8 CSK screw holes are facing to the inside of the building/ room, etc. before fixing the rail to the glass door.</i></p> <ul style="list-style-type: none"> Clamp the rail assembly to the bottom glass edge and partially tighten the screws. Adjust the position of the bottom rail to ensure it clamps 20mm minimum of the glass surface, refer Step 'B' and 'C', figure 4. Tighten the M8 screws up to 15Nm and re-secure the rail covers. Slide open the door to its fully opened and closed positions. Once the full open and closed positions are located slide the nylon guide under the glass edge and mark the locations of the screws. Slide the door back from those locations and fix the floor guide in place, ensuring that the screws are flush with the base of the guide. <p><i>Note. Ensure the guide will always retain the door throughout its full travel. This position is usually in line with the door jamb.</i></p> <ul style="list-style-type: none"> Plumb the centre of the guide pin channel from the centre line of the roller threaded shafts. Locate guide channel in place and fix as is required, Step 'A', Figure 5. Repeat rail assembly to bottom glass edge as per instructions for Bottom Rail With Floor Guide Only, referring to Step 'B' and Step 'C', Figure 5. Follow the applicable lock installation diagrams from the MFG Door Systems locking options drawings, ensuring lock fitting is clamped sufficiently to glass.
Final Adjustment 	<ol style="list-style-type: none"> Lubricate the inside track & all moving parts of the carriages with silicone spray. Check clearances on top and bottom of the door, adjust the height of the door by raising or lowering the carriage shaft. Do a final check and ensure the door is level. Check the full open and closed positions and adjust the bump stops if necessary.
Trouble Shooting 	<ol style="list-style-type: none"> 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. 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.