

Uniclass L41104:N14	EPIC D11103
CI/SfB (31.549) X	

Industrial

Sliding and folding hardware systems for timber or metal doors up to 1000kg



Runners have progressively developed a range of sliding door systems, unparalleled for their durability, versatility and simplicity. Using only the highest quality materials, our systems are built to last, easy to install and offer the best value for money.

We recognise that customer service is of utmost importance in today's busy commercial market. To this end **Runners** has an ongoing programme of continual improvement based on customer feedback. We carry large stocks to enable us to rapidly respond to customer needs.

For special requirements and advice, our in-house design team is available to help. Whatever your application, there's a **Runners** system that provides the solution.

Runners Industrial is the choice where durability, strength and versatility really matter.

Typical Applications:

Industrial Doors	Room Dividers	Stables
Agricultural Doors	Moving Scenery	Sliding Doors
Hangar Doors	Overhead Runways	Moving Walls
Bi-fold Doors	Industrial Curtains	

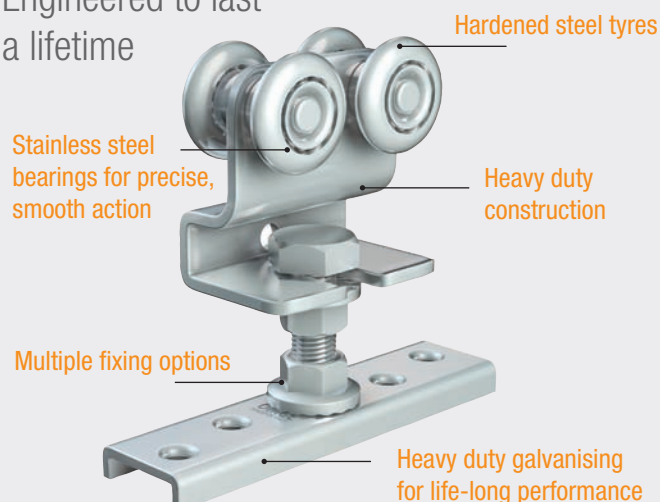
TECHNICAL SUPPORT

Our team of experts are only a phone call away and can offer technical help and advice on system selection, installation and maintenance.

SPARES

Runners carry a full range of spares for all our sliding systems. All parts are available for immediate dispatch or collection from our trade counter.

Engineered to last
a lifetime



Industrial

Contents

series **20** maximum capacity 90kg* per panel



Overview	3
Straight sliding top hung for wood or metal doors	4
End folding top hung for wood or metal doors	8
Centre folding top hung for wood or metal doors	8
Components	11

*capacity based on 2 x 45kg hangers per panel.

series **50** maximum capacity 440kg* per panel



Overview	16
Straight sliding top hung for wood or metal doors	17
End folding top hung for wood or metal doors	20
Centre folding top hung for wood or metal doors	20
Components	23

*capacity based on 2 x 220kg hangers per panel.

series **70** maximum capacity 600kg* per panel



Overview	26
Straight sliding top hung for wood or metal doors	27
Components	29

*capacity based on 2 x 300kg hangers per panel.

series **250** maximum capacity 1000kg* per panel



Overview	31
Straight sliding top hung for wood or metal doors	32
Centre folding top hung for wood or metal doors	35
Components	37

*capacity based on 2 x 500kg hangers per panel.

Accessories 15, 40-43

series **20**

Straight & folding sliding door system for lightweight doors in interior & exterior applications.

Runners **Series 20** is designed for lightweight applications such as interior doors and cupboards or overhead runway systems and partitions etc. With its vast range of hangers and components, **Series 20** offers a smooth, flexible solution for straight, folding and curved configurations.

Series 20 maximum panel weight capacity is 90kg*.

*capacity based on 2 x 45kg hangers per panel.

Versatility



Runners **Series 20** is a simple and versatile system that allows for creation of either single or double track runs. A wide range of hangers and bottom guides means **Series 20** can be used almost anywhere for domestic or commercial applications.



Wheel Types



24mm ball bearing wheels with hardened steel tyre and stainless steel bearings.



24mm ball bearing wheels with Delrin tyre and stainless steel bearings. Delrin tyres produce a smoother, quieter operation than steel tyres, especially when used with aluminium track.



24mm ball bearing wheels with nylon coated steel tyre and stainless steel bearings. For use on lighter panels for superior performance.

Delrin® is a high performance resin which combines lubricity and wear resistance with the stiffness and strength needed in parts designed to replace metal.



series 20

Straight sliding systems for timber or metal doors

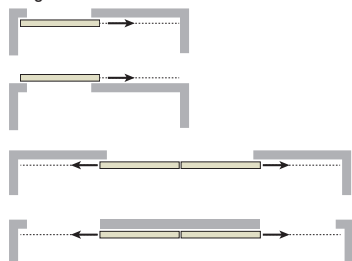
Series 20 straight sliding systems are suitable for timber or metal doors with a maximum panel weight up to 70kg (using two 2 wheel hangers per door), or 90kg (using two 4 wheel hangers per door). Components suitable for use with straight sliding systems are detailed below. Generally two hangers are used on each door panel. A third or fourth hanger can be used to increase door weight capacity. eg. using three **20-23** hangers would allow a door panel weighing up to 135kg to be used.

When using upper track support brackets they should be fixed at 600 - 1000mm spacing. Steel track is pre-drilled for soffit fixing at 600mm centres and may be fixed directly to the substrate. Aluminium track is not pre-drilled and will require support brackets.

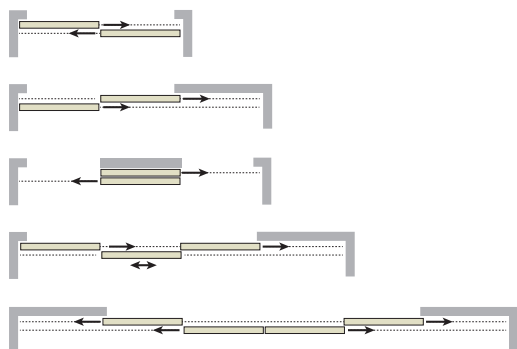
Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

Typical panel configurations

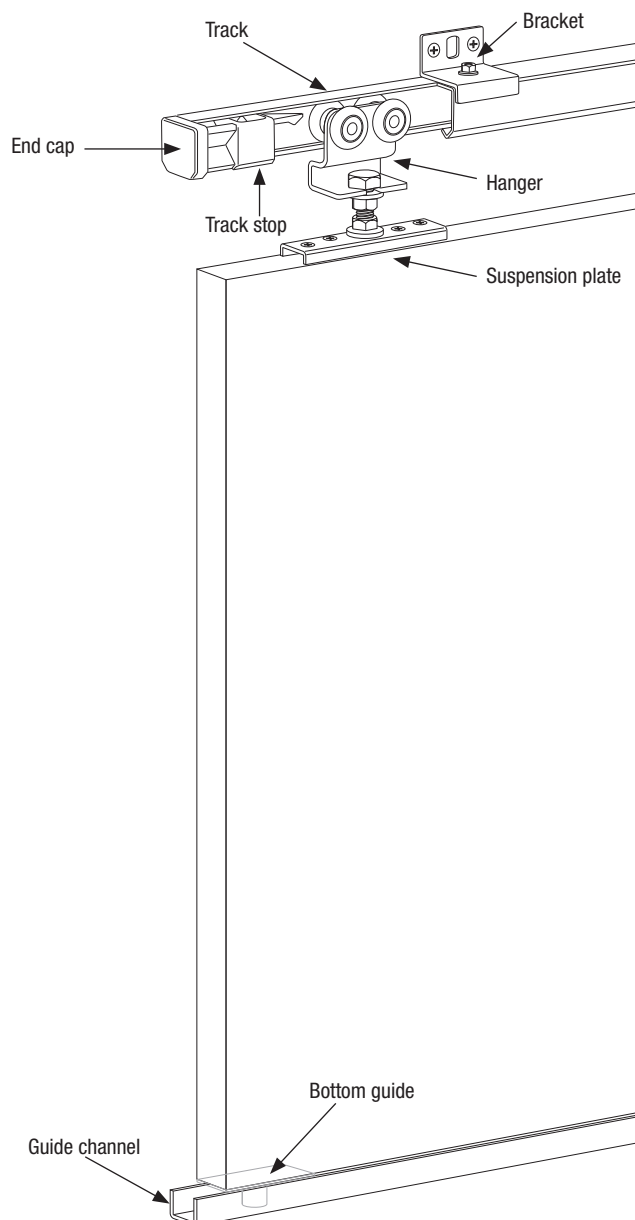
Single track run



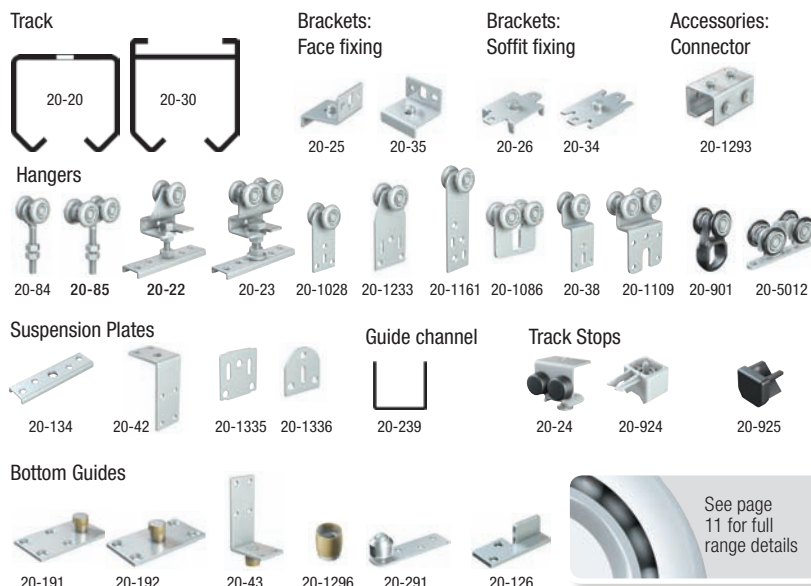
Double track run



TECHNICAL ADVICE
Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.



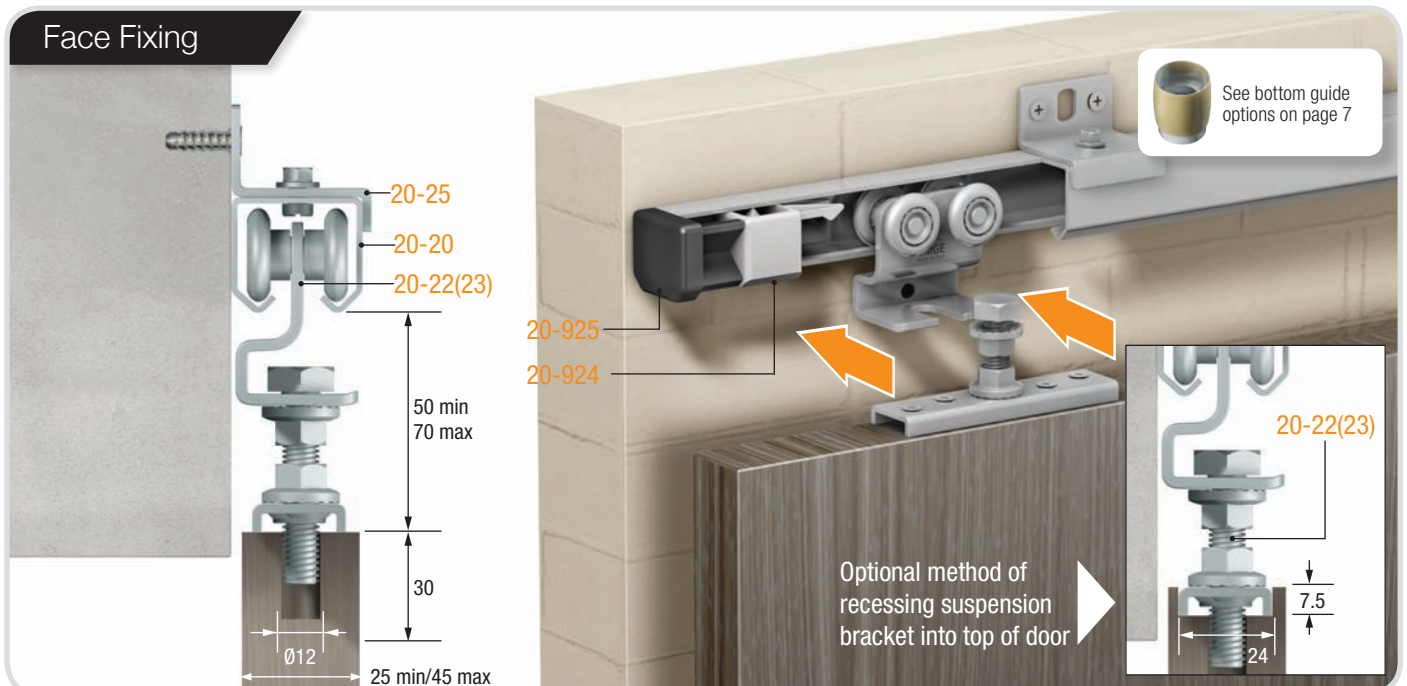
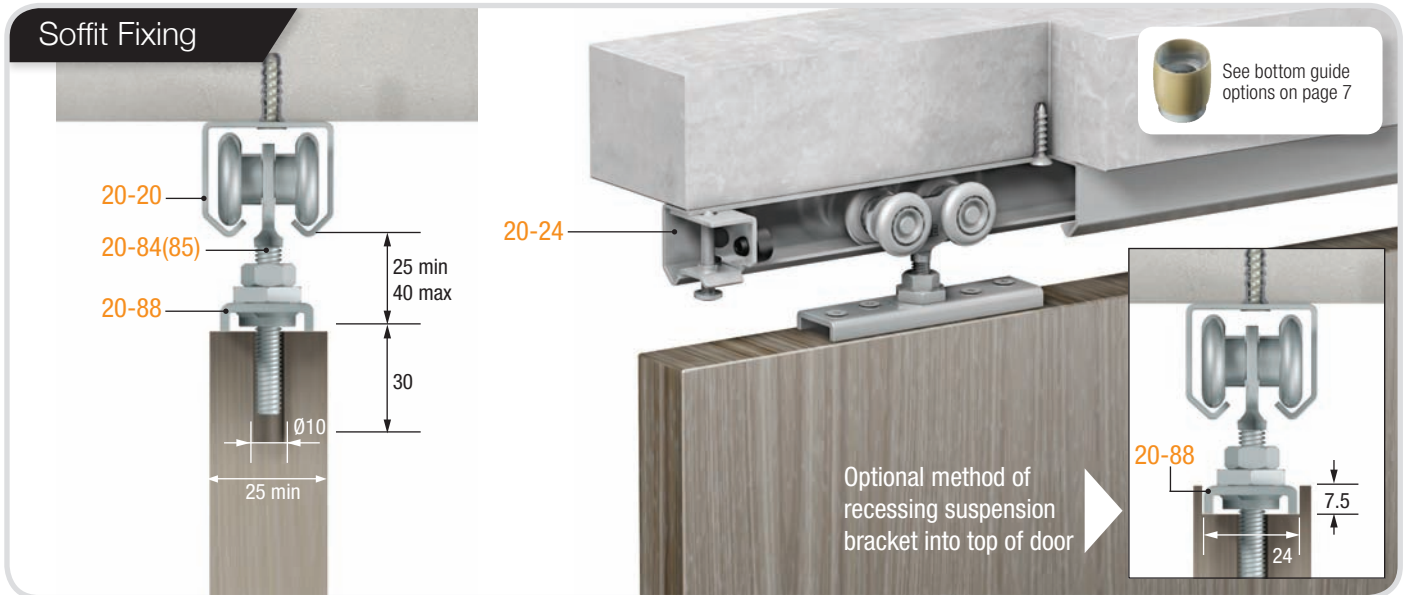
series 20 Straight sliding components



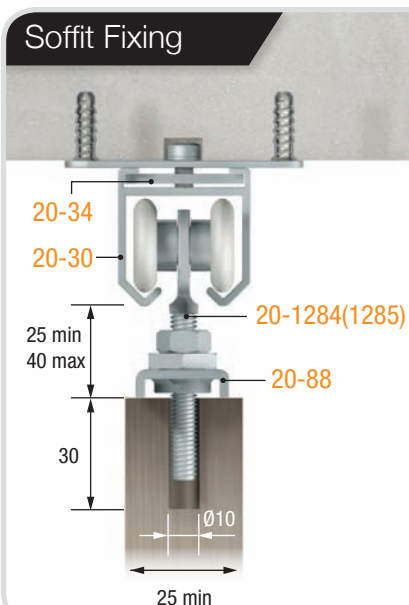
See page 11 for full range details

Technical

Straight sliding application examples (steel track)



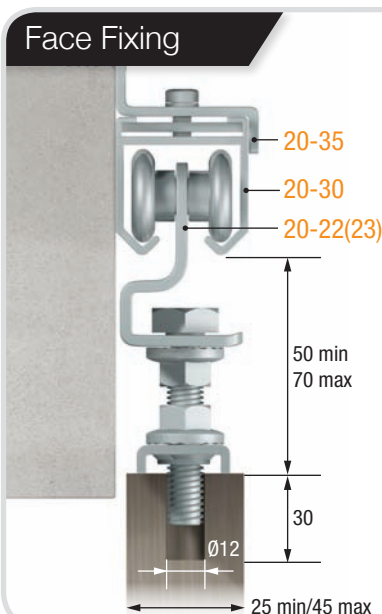
Soffit Fixing



20-924



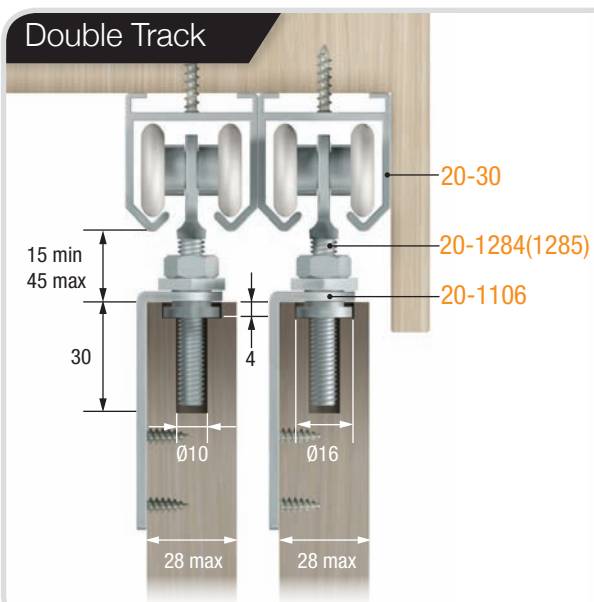
Face Fixing



20-925
20-924



Double Track



20-924



Technical

Other application examples

Curtains



Cable Clamps



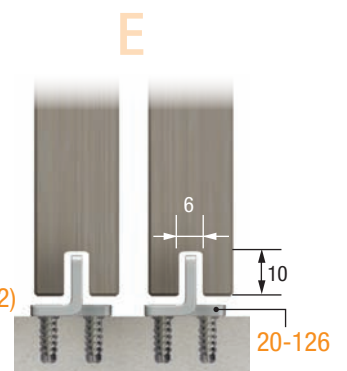
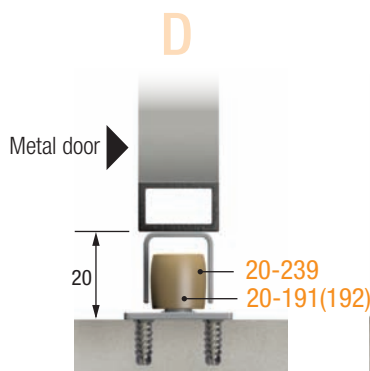
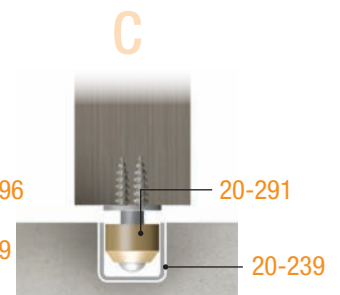
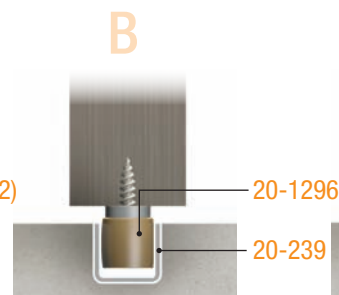
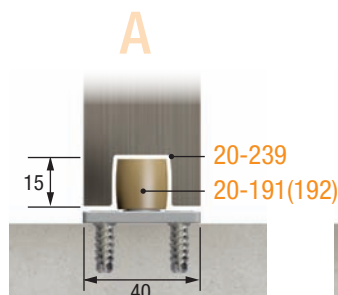
Tarpaulins



Bottom Guide Options

Typical bottom guide configurations for sliding systems (suggestions only).

- A. Guide roller fixed to floor with under guide channel recessed into door bottom.
- B. Screw mounted guide roller fixed to door with under guide channel recessed into floor.
- C. Guide roller on narrow plate fixed to door with under guide channel recessed into floor.
- D. Guide channel fitted to door bottom with guide roller fixed to floor.
- E. Single or double door configurations are easily installed using steel guide 20-126



Other bottom guide options available. See GUIDE ROLLER section on page 14.

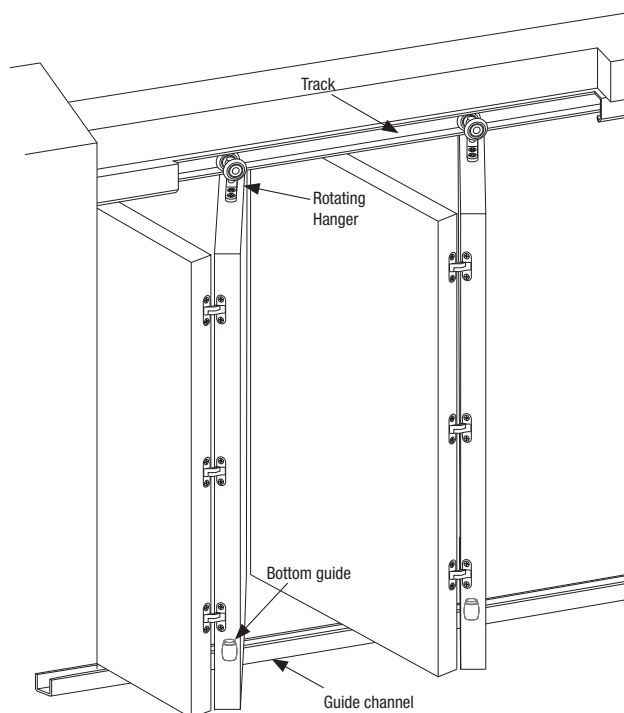


TECHNICAL ADVICE

Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.

series **20** Centre folding/end folding systems for timber or metal doors

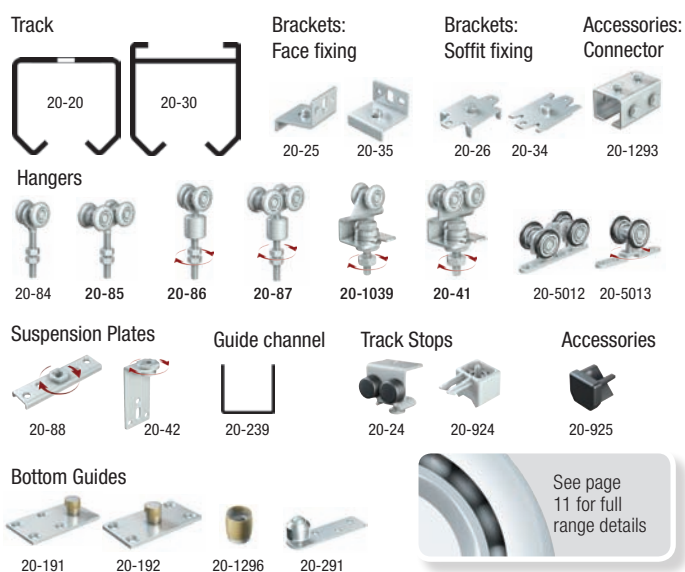
Centre Folding Systems



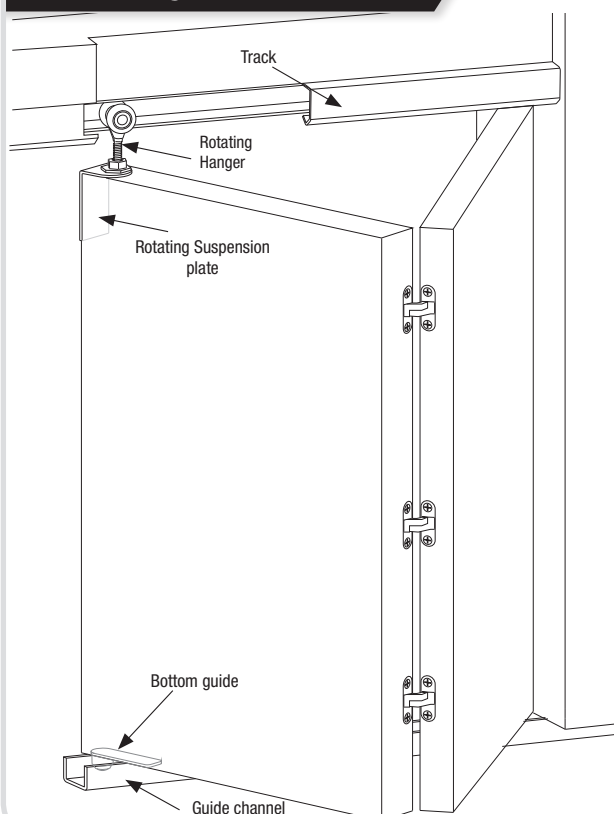
Series 20 centre folding systems are suitable for timber or metal doors with a maximum panel weight up to 35kg (using 2 wheel hangers), or 45kg (using 4 wheel hangers). Components suitable for use with centre folding systems are detailed below.

Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

series **20** Centre Folding door components



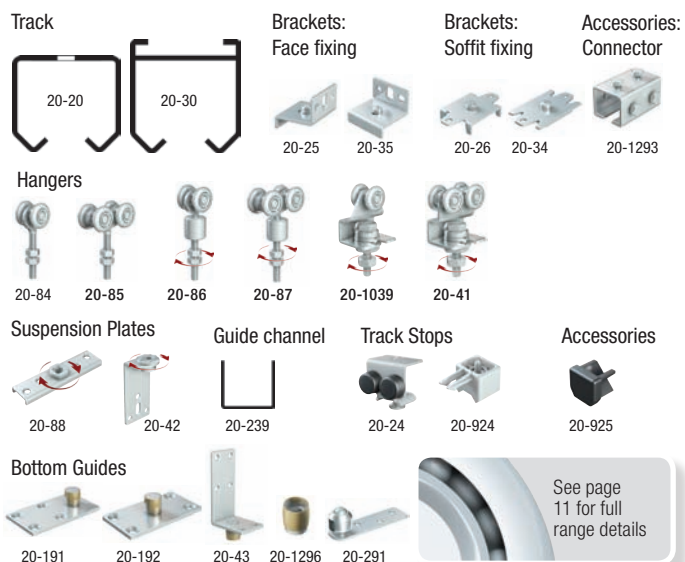
End Folding Systems



Series 20 end folding systems are suitable for timber or metal doors with a maximum panel weight up to 35kg (using 2 wheel hangers), or 45kg (using 4 wheel hangers). Components suitable for use with end folding systems are detailed below.

Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

series **20** End Folding door components



Technical

NOTE: The width of the door panel which is hinged to the frame (jamb) must be reduced by half the thickness of the door plus half the width of the remaining doors, plus the diameter of the hinge knuckle when using butt hinges.

When using invisible hinges no allowance is necessary for the hinge knuckles. The example below is for a hinge with a 10mm knuckle. Dimension will vary depending on hinge choice.

Example using 600mm wide x 30mm thick door

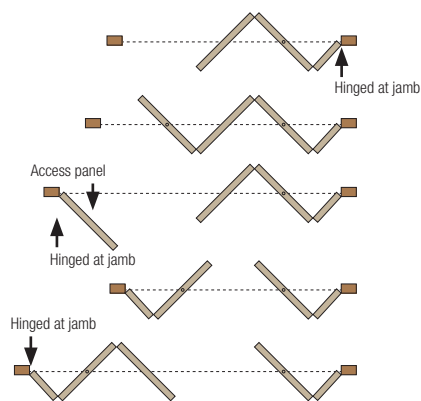
$$600\text{mm} \div 2 = 300\text{mm}; 30\text{mm} \div 2 = 15\text{mm};$$

$$300\text{mm} + 15\text{mm} + 10\text{mm}$$

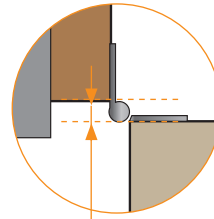
$$= 325\text{mm reduction in width.}$$

Other typical panel centre folding configurations

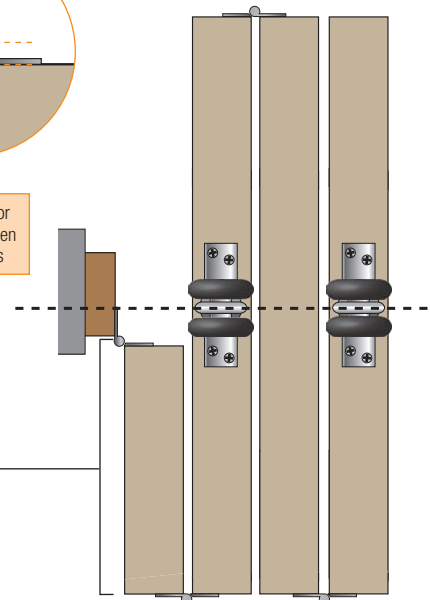
All panels equal width except jamb leaf which must be reduced as shown above.



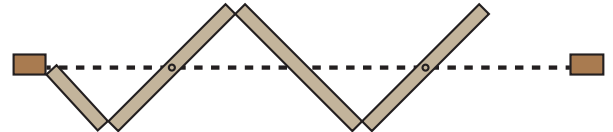
No clearance necessary when using invisible hinges (page 15)



Allow clearance for hinge knuckles when using butt hinges



Typical plan of 3 1/2 doors



NOTE: The width of the door panel which is hinged to the frame (jamb) must be reduced by half the thickness of the door plus 14mm, plus the diameter of the hinge knuckle when using butt hinges.

When using invisible hinges no allowance is necessary for the hinge knuckles. The example below is for a hinge with a 10mm knuckle. Dimension will vary depending on hinge choice.

Example using 30mm thick door

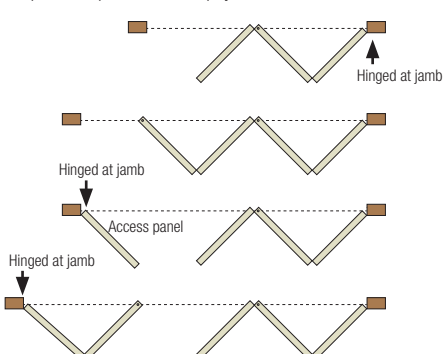
$$30\text{mm} \div 2 = 15\text{mm}$$

$$15\text{mm} + 14\text{mm} + 10\text{mm}$$

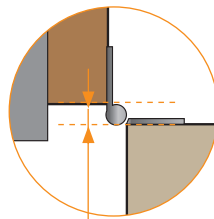
$$= 39\text{mm reduction in width.}$$

Other typical panel end folding configurations

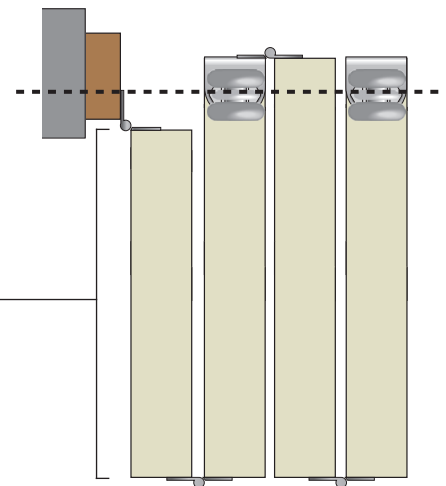
All panels equal width except jamb leaf which must be reduced as shown above.



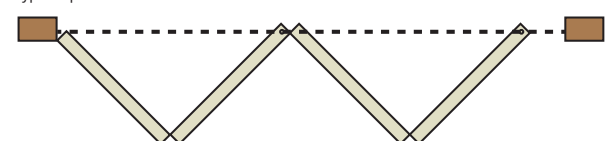
No clearance necessary when using invisible hinges (page 15)



Allow clearance for hinge knuckles when using butt hinges



Typical plan of 3 1/2 doors



TECHNICAL ADVICE

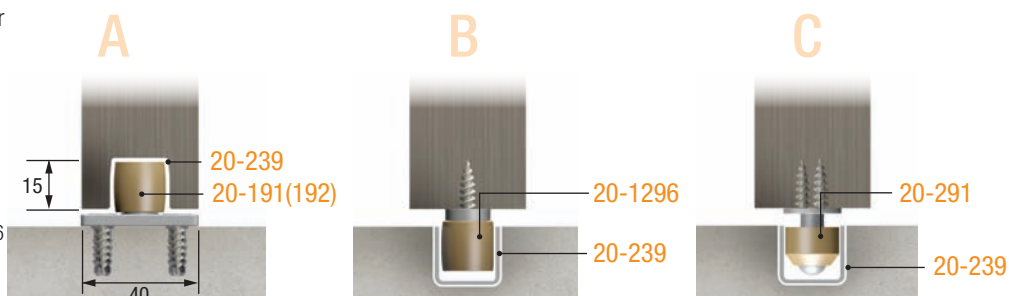
Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.



Bottom Guide Options

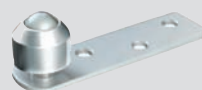
Typical bottom guide configurations for folding systems (suggestions only).

- A. Guide roller fixed to floor with under guide channel recessed into door bottom.
- B. Guide roller fixed to door with under guide channel recessed into floor.
- C. For use on end folding systems in conjunction with suspension plate 20-1106 and appropriate hanger.



TECHNICAL ADVICE

Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.

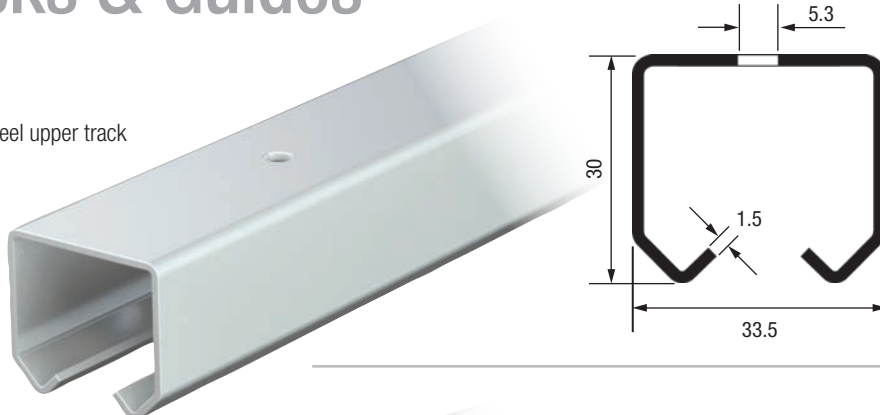


Other bottom fixing options available. See GUIDE ROLLER section on page 14.

Tracks & Guides

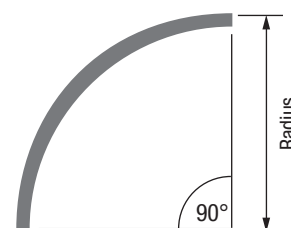
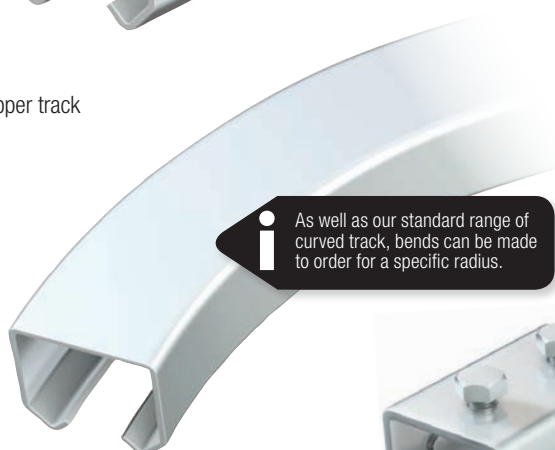
20-20

Galvanised steel upper track
(pre-drilled)



Length	Part No.
1 metre	20-20-1
2 metre	20-20-2
3 metre	20-20-3
4 metre	20-20-4
5 metre	20-20-5

90° Curved upper track
(pre-drilled)



Steel Track Radius	Part No.
0.75 metre	20-280
1.0 metre	20-285
1.5 metre	20-286
2.0 metre	20-290



20-1293

Track connector for steel upper track

20-30

Aluminium profile upper track



Length	Part No.
3 metre	20-30-3
4 metre	20-30-4
5 metre	20-30-5

20-239

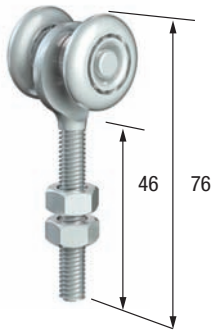
Under guide galvanised steel channel



Length	Part No.
1 metre	20-239-1
2 metre	20-239-2
3 metre	20-239-3
4 metre	20-239-4
5 metre	20-239-5

i All steel track and guide channels are supplied in galvanised finish. Regular greasing is required to prevent premature wear from friction.

Hangers



20-84

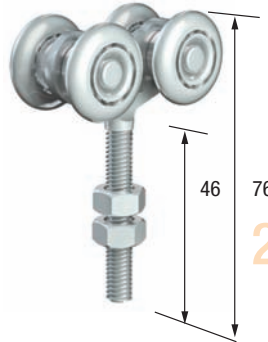
Adjustable steel hanger with M8 x 46mm pin and 24mm ball bearing wheels.



20-84 | 35kg capacity
24mm ball bearing steel wheels.



20-1284 | 25kg capacity
24mm ball bearing Delrin wheels.



20-85

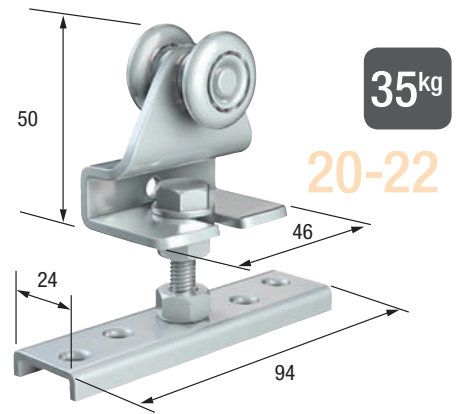
Adjustable steel hanger with M8 x 46mm pin and 24mm ball bearing wheels.



20-85 | 45kg capacity
24mm ball bearing steel wheels.



20-1285 | 35kg capacity
24mm ball bearing Delrin wheels.

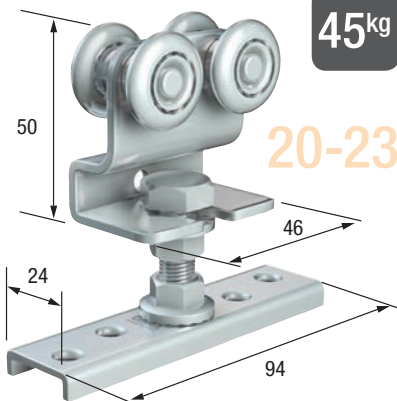


20-22

Adjustable steel hanger with M8 x 40mm pin and 24mm ball bearing steel wheels. Minimum door thickness 25mm.



20-22 | 35kg capacity
24mm ball bearing steel wheels.

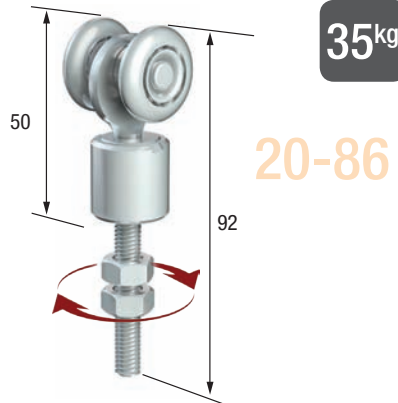


20-23

Adjustable steel hanger with M10 x 40mm pin and 24mm ball bearing steel wheels. Minimum door thickness 25mm.



20-23 | 45kg capacity
24mm ball bearing steel wheels.



20-86

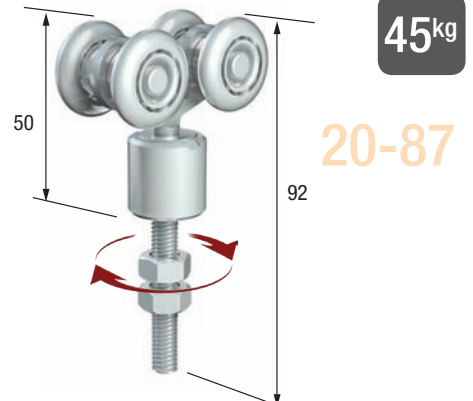
Adjustable steel hanger with M8 x 46mm rotating pin and 24mm ball bearing wheels.



20-86 | 35kg capacity
24mm ball bearing steel wheels.



20-1286 | 25kg capacity
24mm ball bearing Delrin wheels.



20-87

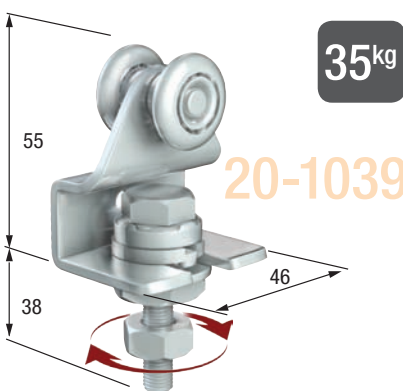
Adjustable steel hanger with M8 x 46mm rotating pin and 24mm ball bearing wheels.



20-87 | 45kg capacity
24mm ball bearing steel wheels.



20-1287 | 35kg capacity
24mm ball bearing Delrin wheels.

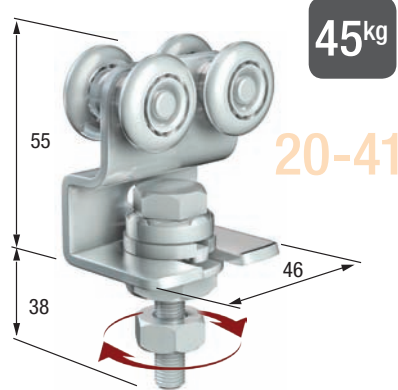


20-1039

Adjustable steel hanger with M10 x 40mm rotating pin and 24mm ball bearing wheels.



20-1039 | 35kg capacity
24mm ball bearing steel wheels.

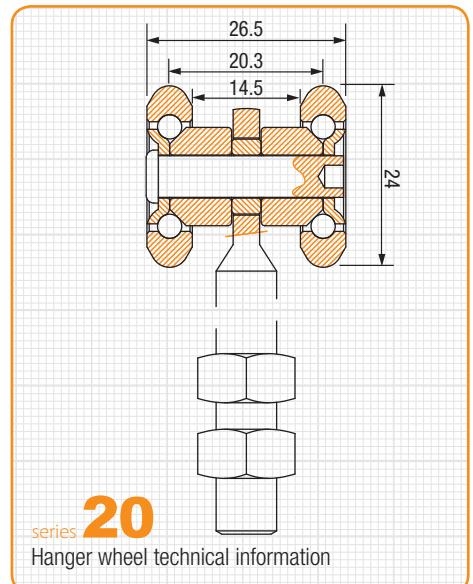


20-41

Adjustable steel hanger with M10 x 46mm rotating pin and 24mm ball bearing wheels.



20-41 | 45kg capacity
24mm ball bearing steel wheels.



20
series
Hanger wheel technical information

Hangers



35kg

20-1028

Steel hanger with 24mm ball bearing wheels.

20-1028 | 35kg capacity
24mm ball bearing steel wheels.

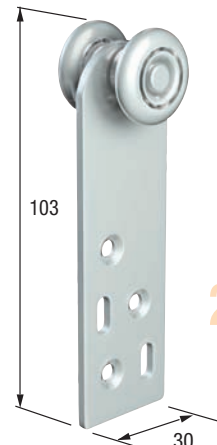


35kg

20-1233

Steel hanger with 24mm ball bearing wheels.

20-1233 | 35kg capacity
24mm ball bearing steel wheels.

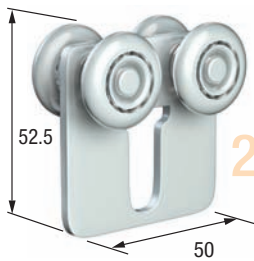


35kg

20-1161

Steel hanger with 24mm ball bearing wheels.

20-1161 | 35kg capacity
24mm ball bearing steel wheels.

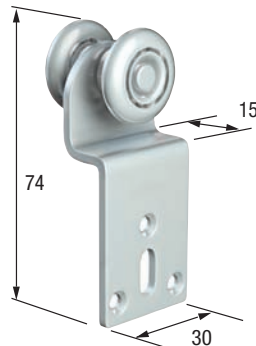


45kg

20-1086

Steel hanger with 24mm ball bearing wheels.

20-1086 | 45kg capacity
24mm ball bearing steel wheels.

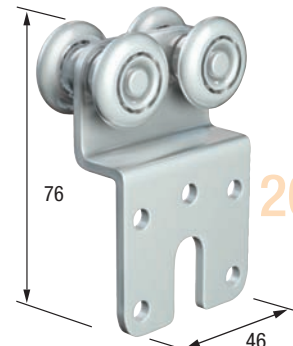


35kg

20-38

Steel hanger with 24mm ball bearing wheels.

20-38 | 35kg capacity
24mm ball bearing steel wheels.



45kg

20-1109

Steel hanger with 24mm ball bearing wheels.

20-1109 | 45kg capacity
24mm ball bearing steel wheels.

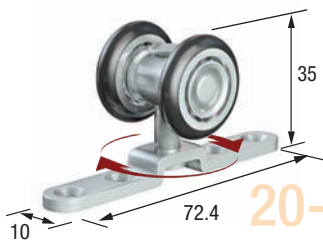


25kg

20-901

Nylon hanger with 24mm ball bearing wheels.

20-901 | 25kg capacity
24mm ball bearing steel/nylon wheels.

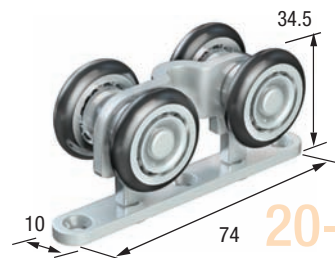


30kg

20-5013

Steel hanger with rotating pin and 24mm ball bearing wheels.

20-5013 | 30kg capacity
24mm ball bearing steel/nylon wheels.

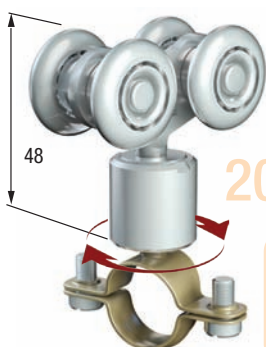


35kg

20-5012

Steel hanger with 24mm ball bearing wheels.

20-5012 | 35kg capacity
24mm ball bearing steel/nylon wheels.



25kg

20-1224

Steel hanger with rotating cable clamp and 24mm ball bearing wheels.

- 20-1224-16** | 25kg capacity
24mm ball bearing steel wheels
16mm cable clamp.
- 20-1224-26** | 25kg capacity
24mm ball bearing steel wheels
26mm cable clamp.
- 20-1224-32** | 25kg capacity
24mm ball bearing steel wheels
32mm cable clamp.

Clamp sizes:
16mm
26mm
32mm

Wheel Types



24mm ball bearing wheels with hardened steel tyre and stainless steel bearings.



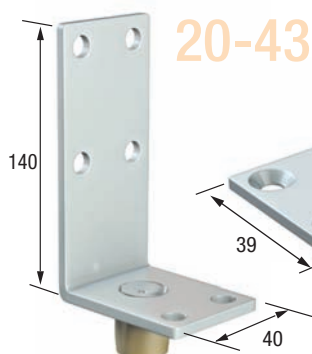
24mm ball bearing wheels with Delrin tyre and stainless steel bearings.



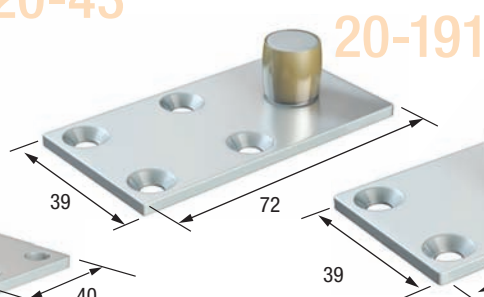
24mm ball bearing wheels with nylon coated steel tyre and stainless steel bearings.

Please note that available tyre options are shown below each hanger as only certain hangers are available with rubber or Delrin tyres.

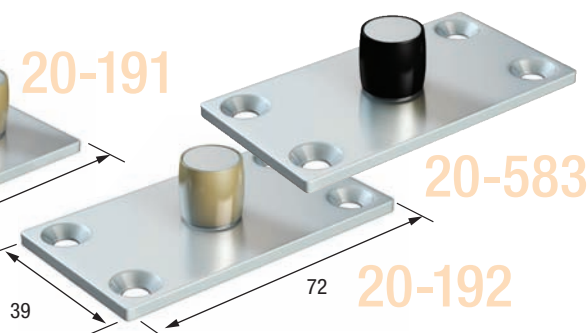
Bottom Guides/Brackets/Plates



20-43 Steel side guide roller with rotating brass pin 14mm diameter. Minimum door thickness 30 mm.



20-191 Steel guide roller with rotating brass pin 14mm diameter.

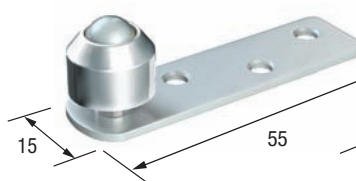


20-192 Steel guide roller with rotating brass pin 14mm diameter.
20-283 as 20-192 but with nylon roller.



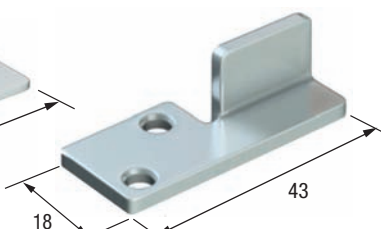
20-1296 Steel guide roller with rotating brass pin 14mm diameter.

20-291



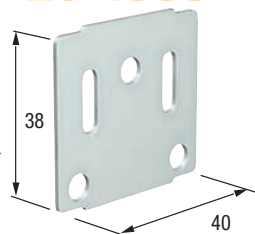
20-291 Steel guide roller with rotating steel pin 14mm diameter.

20-126



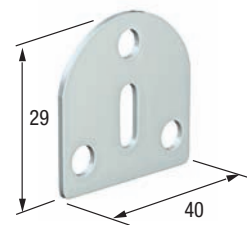
20-126 Floor fixing steel guide.

20-1335



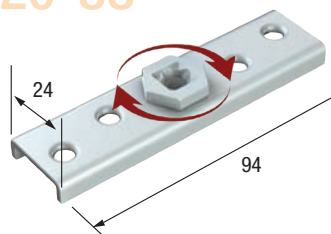
20-1335 Steel striking plate for roller 20-1233.

20-1336



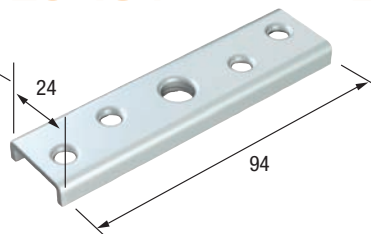
20-1336 Steel striking plate for roller 20-1028.

20-88



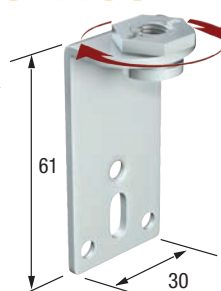
20-88 Steel rotating suspension plate for M8 pin. Min. door thickness 25mm. For use with: 20-22; 20-85; 20-86; 20-87

20-134

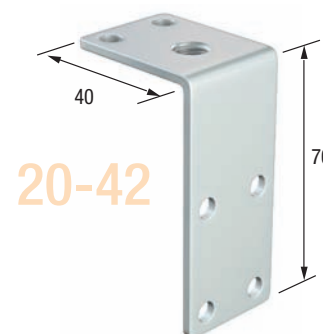


20-134 Steel suspension plate for M10 pin. Min. door thickness 25mm. For use with: 20-23; 20-41; 20-1039

20-1106



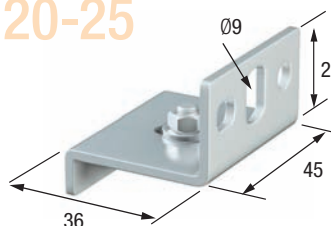
20-1106 Steel rotating suspension plate for M8 pin. For use with: 20-22; 20-84; 20-85; 20-86; 20-87



20-42

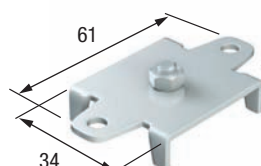
20-42 Steel side suspension plate for M10 pin. Min. door thickness 30mm. For use with: 20-23; 20-41; 20-1039

20-25



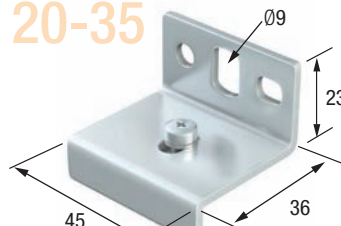
20-25 Face fixing steel bracket for the steel upper track.

20-26



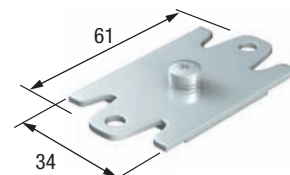
20-26 Ceiling fixing steel bracket for the steel upper track.

20-35



20-35 Face fixing steel bracket for the aluminium upper track.

20-34



20-34 Ceiling fixing steel bracket for the aluminium upper track.

When using upper track support brackets they should be fixed at 600 - 1000mm spacing. Steel track is pre-drilled for soffit fixing at 600mm centres and may be fixed directly to the substrate. Aluminium track is not pre-drilled and will require support brackets.

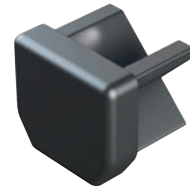
Accessories



20-24
Metal stop for the upper track.



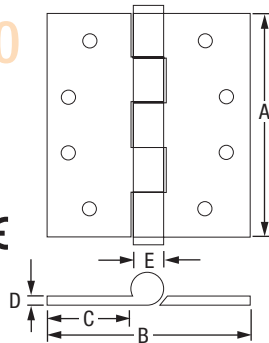
20-924
Hook stop for the upper track.
Holds door in closed position.



20-925
End cap for the upper track.



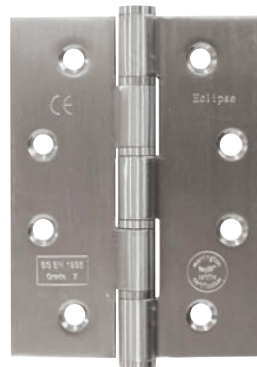
AIL 250



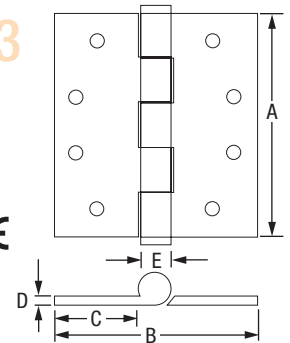
102mm Stainless Steel Ball Bearing Hinge

CE Grade 13
Up to 120kg door weight.
Tested to 200,000 Cycles.
Fixing screws supplied.

A	Height	102mm
B	Width	76mm
C	Leaf	30mm
D	Thickness	3mm
E	Knuckle	14mm



AIL 233



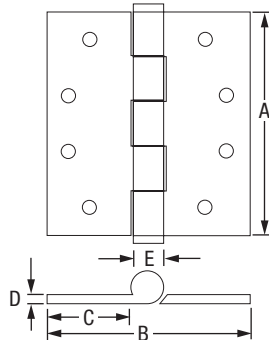
102mm Stainless Steel Ball Bearing Hinge

CE Grade 13
Up to 40kg door weight.
Tested to 200,000 Cycles.
Fixing screws supplied.

A	Height	102mm
B	Width	76mm
C	Leaf	32mm
D	Thickness	2mm
E	Knuckle	11mm



AIL 236



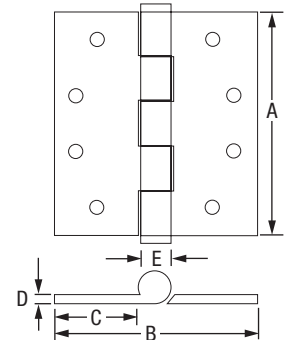
76mm Stainless Steel Ball Bearing Hinge

CE Grade 7
Up to 40kg door weight.
Tested to 200,000 Cycles.
Fixing screws supplied.

A	Height	76mm
B	Width	51mm
C	Leaf	21mm
D	Thickness	2mm
E	Knuckle	11mm



AIL 231



76mm Stainless Steel Washered Hinge

CE Grade 7
Up to 40kg door weight.
Tested to 200,000 Cycles.
Fixing screws supplied.

A	Height	76mm
B	Width	51mm
C	Leaf	21mm
D	Thickness	1.5mm
E	Knuckle	9mm

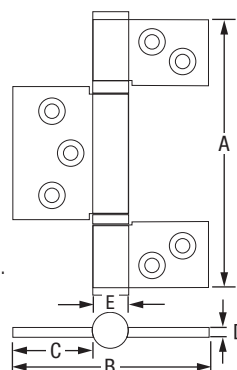
Non-mortice hinge



60-301

Premium quality ball bearing stainless steel hinge.
Finishes: satin stainless, polished stainless, polished brass.
Up to 100kg door weight.
Fixing screws supplied.
Minimum Door Thickness: 35mm.

A	Height	100mm
B	Width	72mm
C	Leaf	28mm
D	Thickness	3mm
E	Knuckle	16mm

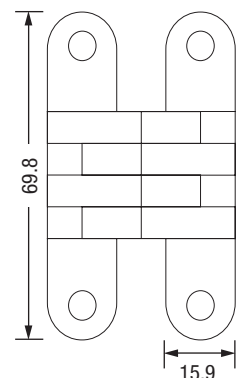


Invisible hinge



20-4401

Made of steel and zinc alloy.
Finishes: brass or nickel plated.



series 50

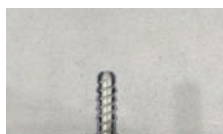
Straight & folding sliding door system for commercial interior & exterior applications up to 440kg

Runners **Series 50** is designed for commercial and agricultural applications such as warehousing, agricultural buildings, stables etc. The comprehensive range of hangers and components allows **Series 50** to be used for many applications including overhead runway systems, partitions, sliding curtains and stabling blocks.

Series 50 maximum panel weight capacity is 440kg*.

*capacity based on 2 x 220kg hangers per panel.

Reliability



Runners **Series 50** includes a wide range of accessories for sliding and folding doors used for different types of application either residential or industrial. The carrying capacity of the rail and the accessories make this series particularly suitable for the construction of different types of greenhouses, stables and barns, and for the construction of sliding covers and folding garage doors.



Wheel Types



38mm ball bearing wheels with hardened steel tyre and stainless steel bearings.



series **50**

Straight sliding systems for timber or metal doors

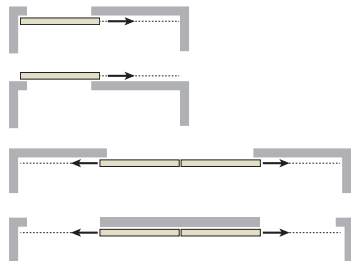
Series 50 straight sliding systems are suitable for timber or metal doors with a maximum panel weight up to 440kg when using two 220kg 4 wheel hangers per door. Capacity will be reduced accordingly if using lower capacity hangers from the Series 50 range. Components suitable for use with straight sliding systems are detailed below. Generally two hangers are used on each door panel. A third or fourth hanger can be used to increase door weight capacity. eg. using three **50-53** hangers would allow a door panel weighing up to 660kg to be used.

When using upper track support brackets they should be fixed at a minimum of 600mm and a maximum of 1000mm spacing. Series 50 steel or aluminium upper track is NOT pre-drilled and will require drilling for soffit fixing.

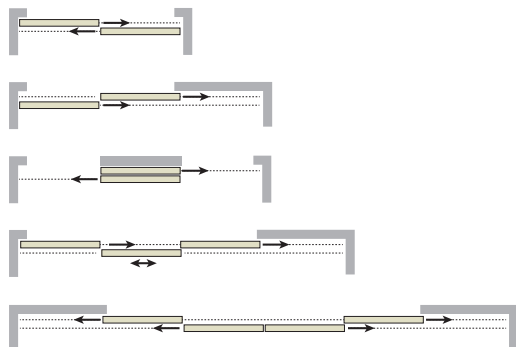
Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

Typical panel configurations

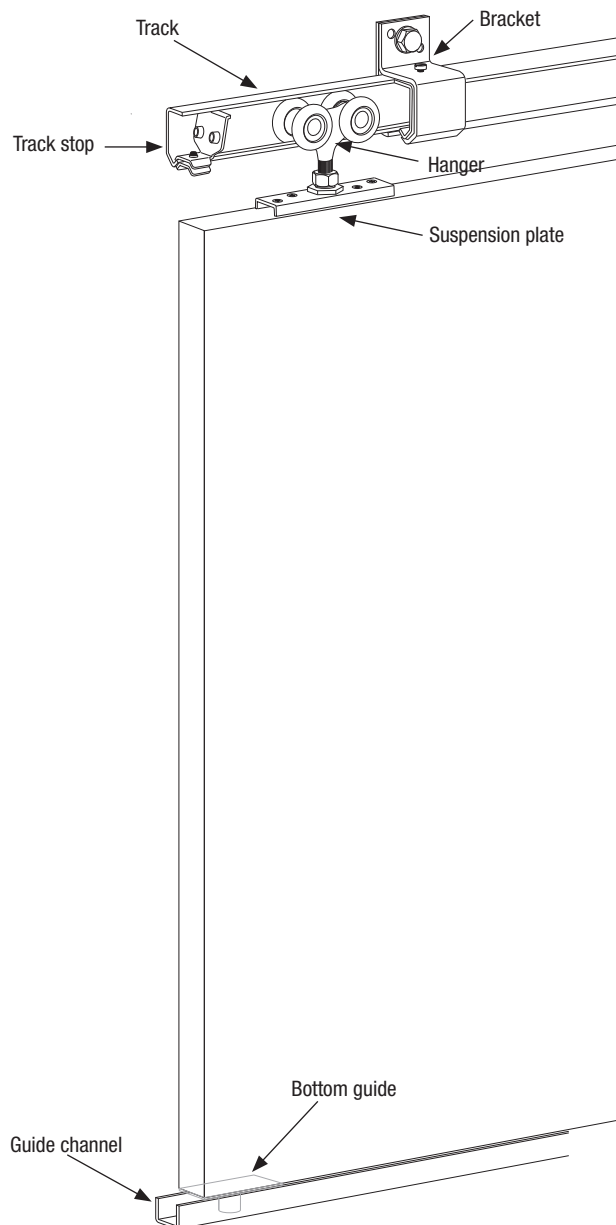
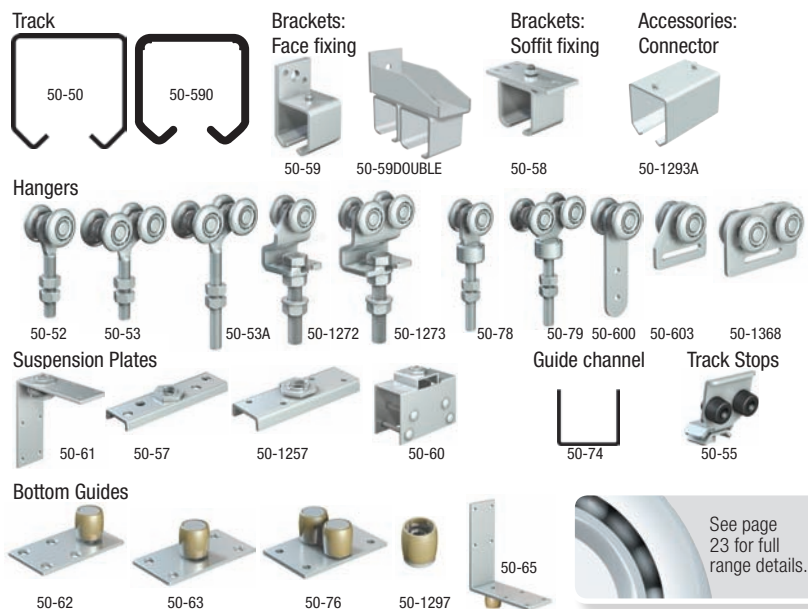
Single track run



Double track run

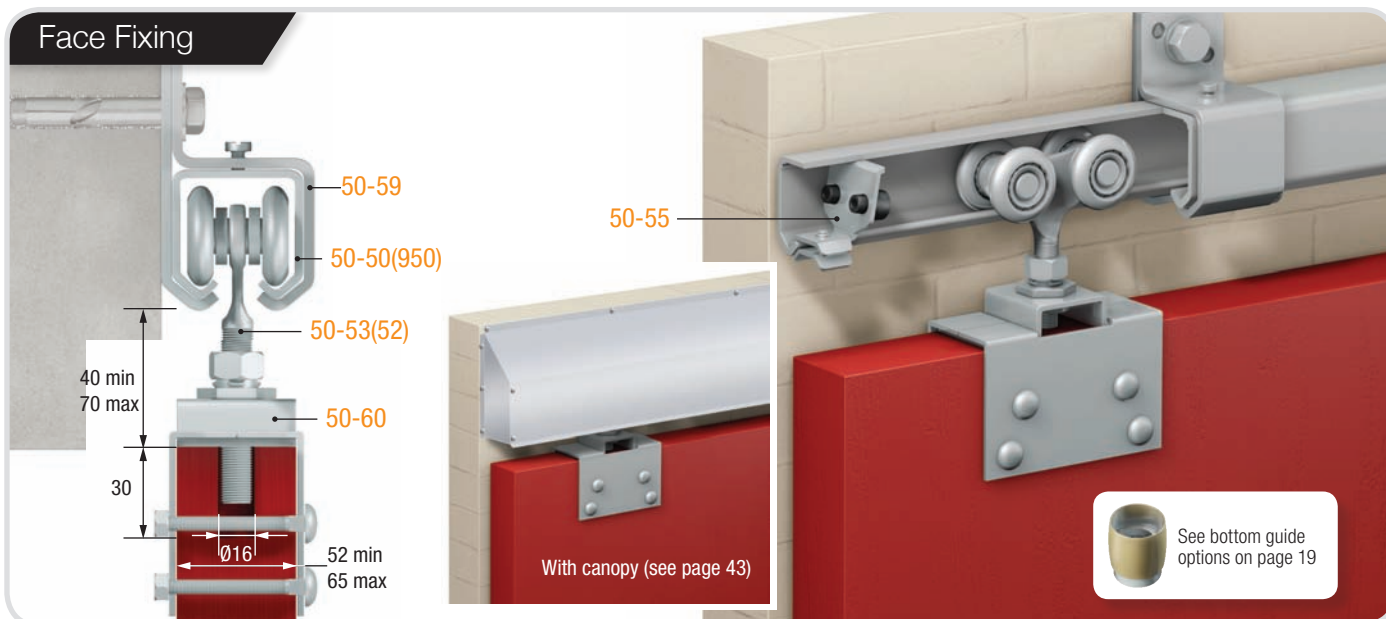


TECHNICAL ADVICE
Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.

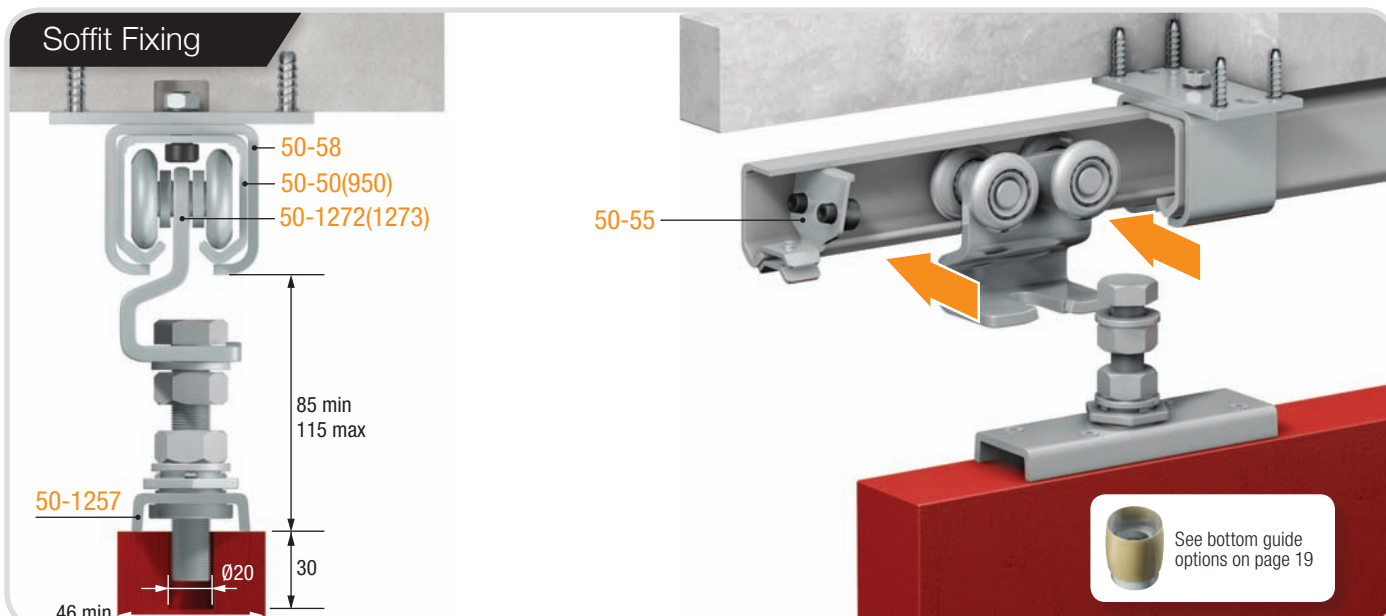

series **50** Straight sliding components


See page 23 for full range details.

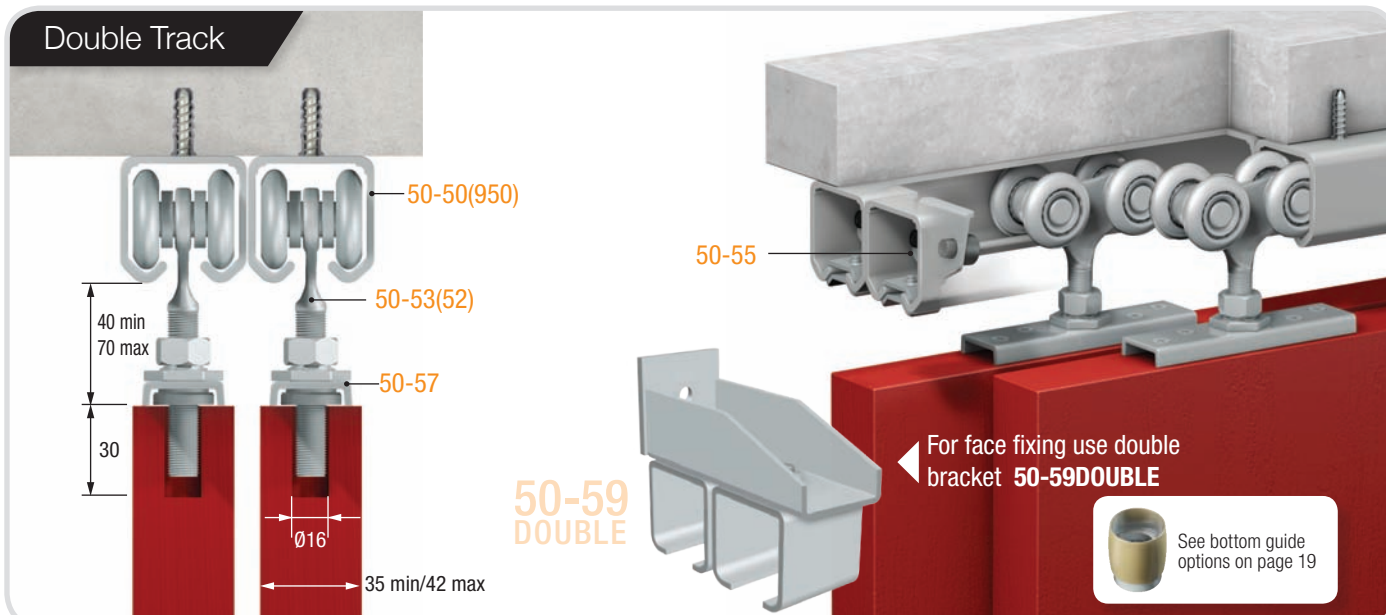
Face Fixing



Soffit Fixing

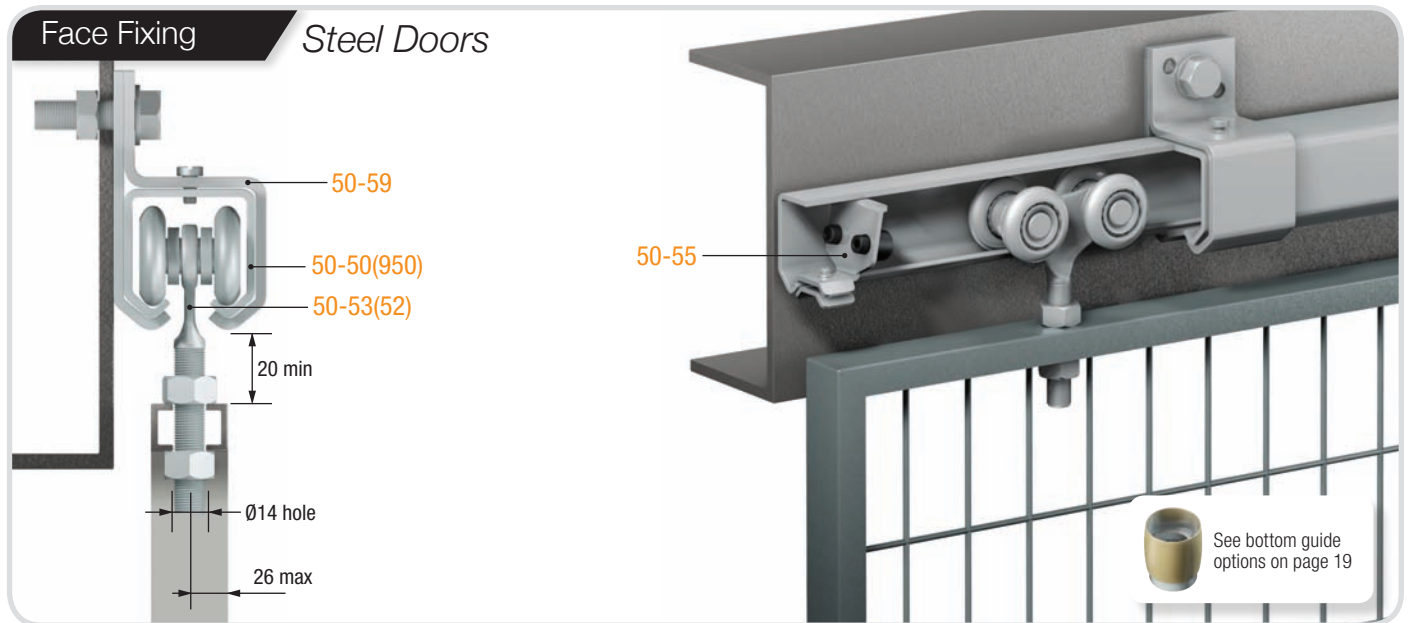


Double Track



Technical

Sliding application examples



Bottom Guide Options

Typical bottom guide configurations for sliding systems (suggestions only).

A. Guide roller fixed to floor with under guide channel recessed into door bottom.

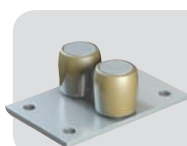
B. Screw mounted guide roller fixed to door with under guide channel recessed into floor.

C. Guide channel fitted to door bottom with guide roller fixed to floor.

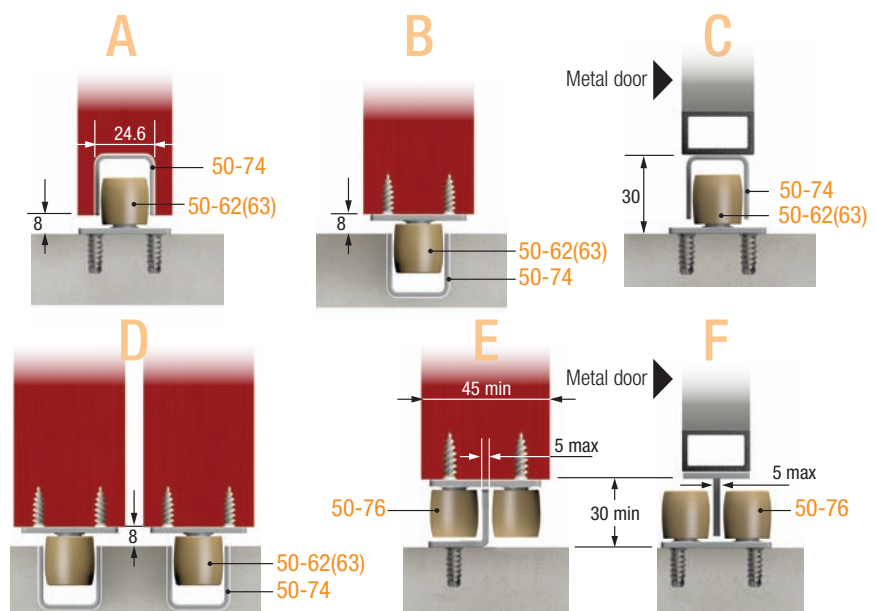
D. Double doors configurations are easily installed using double runs of under guide channel 50-74 and suitable guides.

E. Bottom guide 50-76 used with angle steel, which can also act as a weather strip.

F. T-section metal bar fitted to door underside and used with bottom guide 50-76.

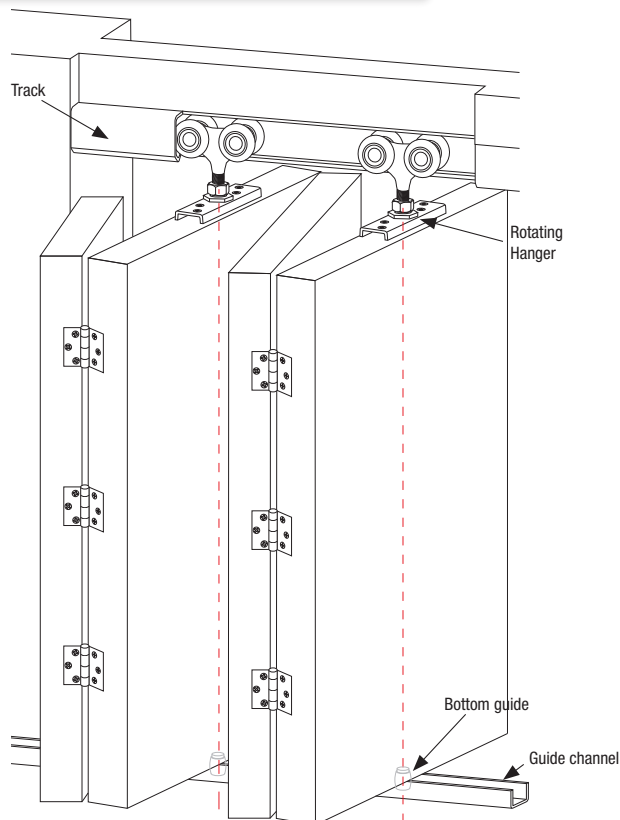


Other bottom guide options available. See GUIDE ROLLER section on page 25



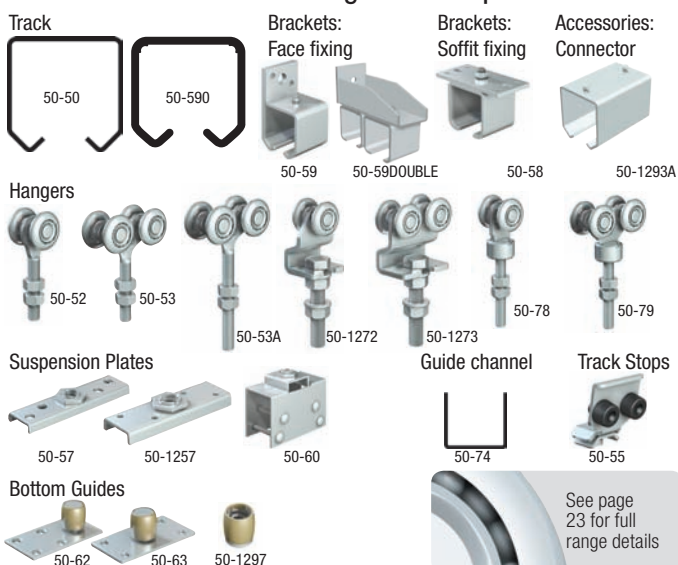
series 50 Centre folding/end folding systems for timber or metal doors

Centre Folding Systems

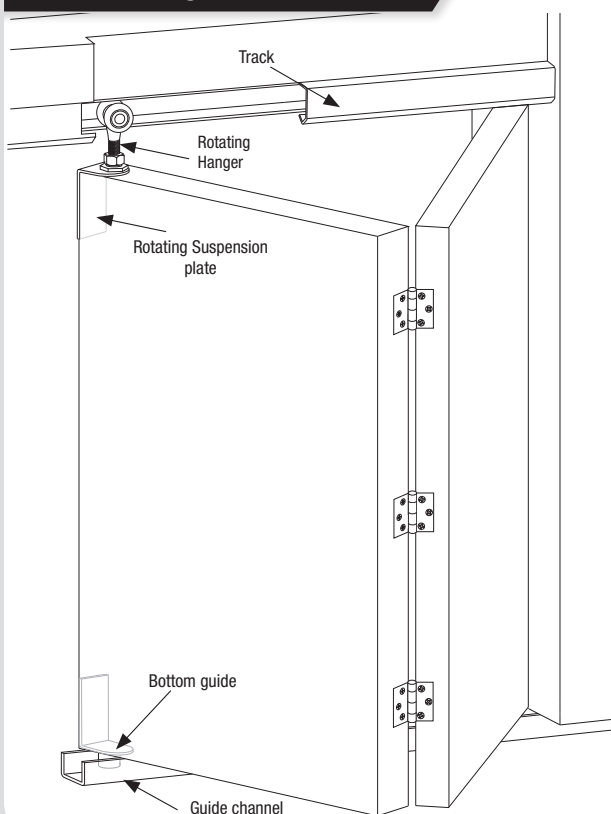


Series 50 centre folding systems are suitable for timber or metal doors with a maximum panel weight up to 440kg when using two 220kg 4 wheel hangers per door. Capacity will be reduced accordingly if using lower capacity hangers from the Series 50 range. Components suitable for use with centre folding systems are detailed below. Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

series 50 Centre Folding door components

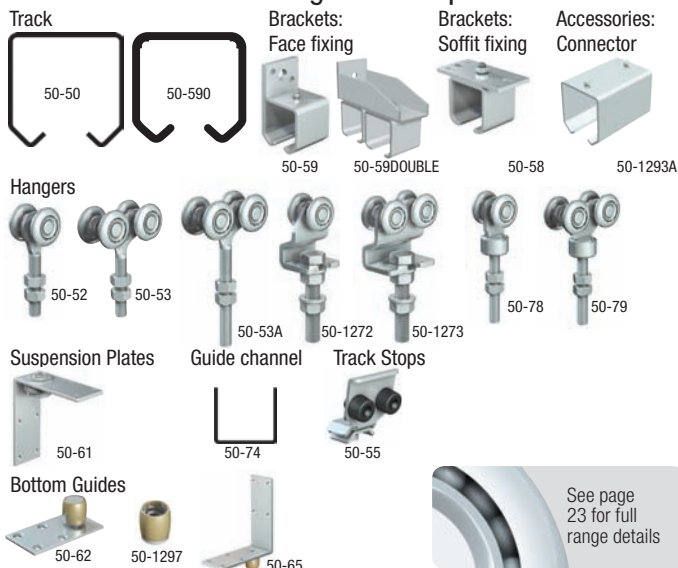


End Folding Systems



Series 50 end folding systems are suitable for timber or metal doors with a maximum panel weight up to 440kg when using two 220kg 4 wheel hangers per door. Capacity will be reduced accordingly if using lower capacity hangers from the Series 50 range. Components suitable for use with end folding systems are detailed below. Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

series 50 End Folding door components



Technical

NOTE: The width of the door panel which is hinged to the frame (jamb) must be reduced by half the thickness of the door plus half the width of the remaining doors, plus the diameter of the hinge knuckle when using butt hinges. The example below is for a hinge with a 14mm knuckle. Dimension will vary depending on hinge choice.

Example using 1000mm wide x 60mm thick door.

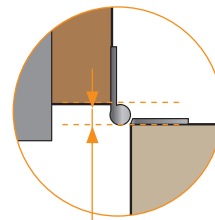
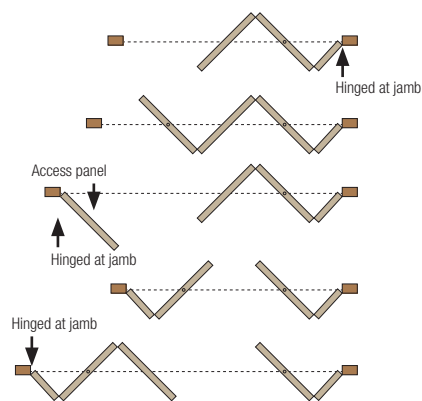
$1000\text{mm} \div 2 = 500\text{mm}$; $60\text{mm} \div 2 = 30\text{mm}$;

$500\text{mm} + 30\text{mm} + 14\text{mm}$

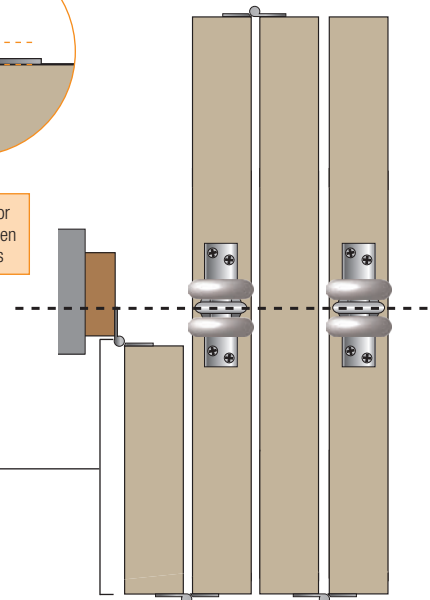
= 544mm reduction in width.

Other typical centre folding panel configurations

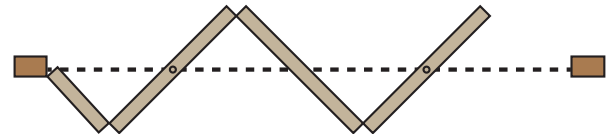
All panels equal width except jamb leaf which must be reduced as shown above.



Allow clearance for hinge knuckles when using butt hinges



Typical plan of 3 1/2 doors



NOTE: The width of the door panel which is hinged to the frame (jamb) must be reduced by half the thickness of the door plus 23mm, plus the diameter of the hinge knuckle when using butt hinges.

The example below is for a hinge with a 14mm knuckle. Dimension will vary depending on hinge choice.

Example using 60mm thick door.

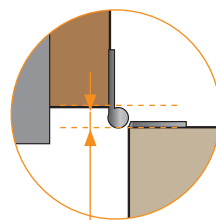
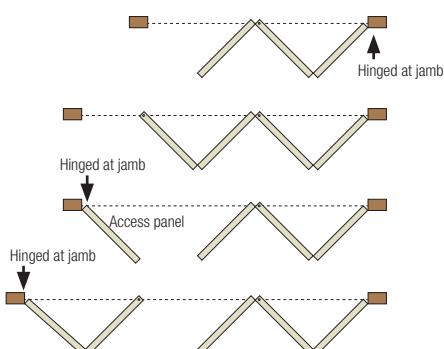
$60\text{mm} \div 2 = 30\text{mm}$

$30\text{mm} + 23\text{mm} + 14\text{mm}$

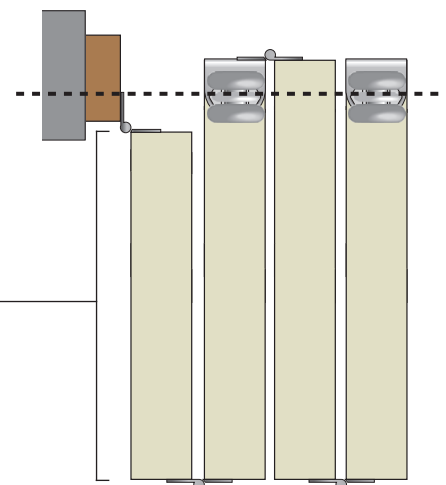
= 67mm reduction in width.

Other typical panel end folding configurations

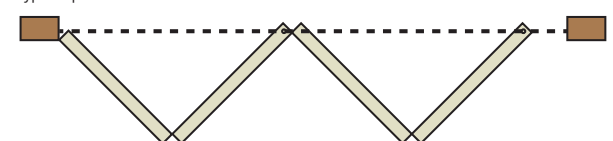
All panels equal width except jamb leaf which must be reduced as shown above.



Allow clearance for hinge knuckles when using butt hinges



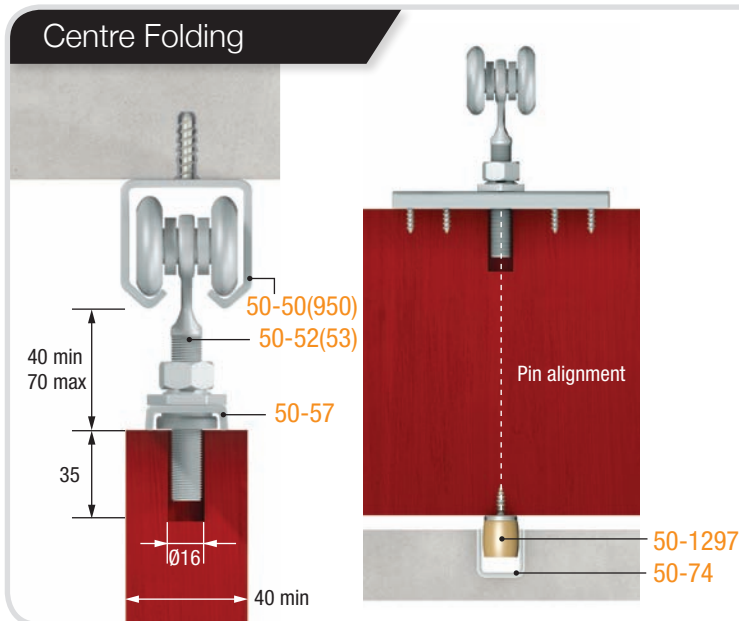
Typical plan of 3 1/2 doors



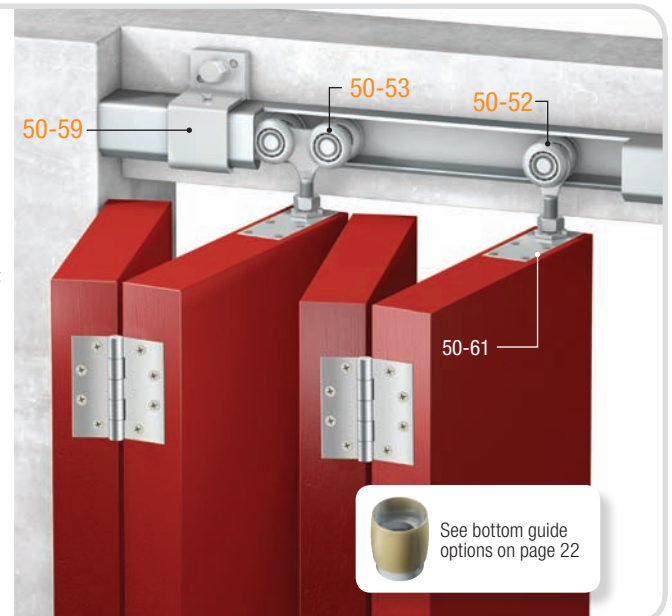
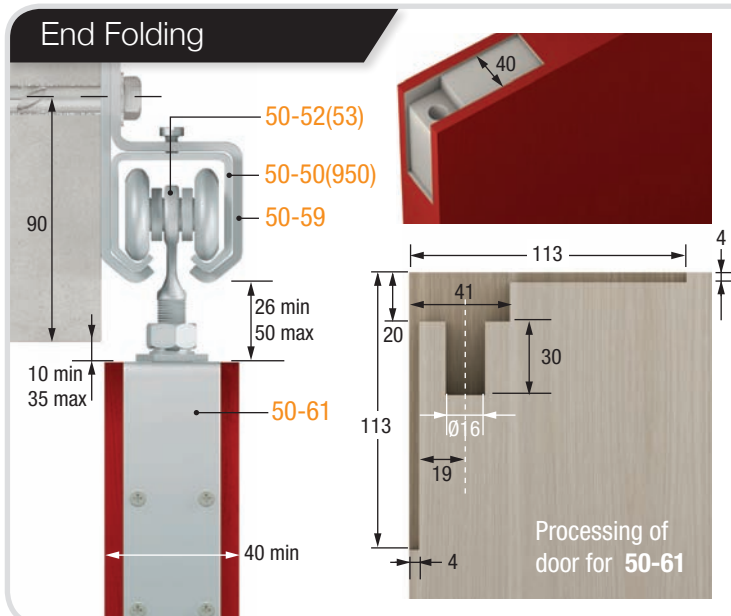
TECHNICAL ADVICE

Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.

Centre Folding



End Folding



Bottom Guide Options

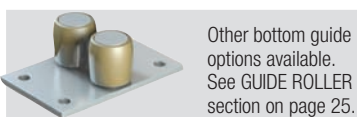
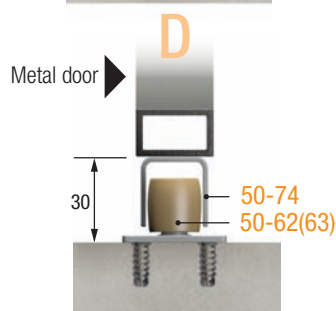
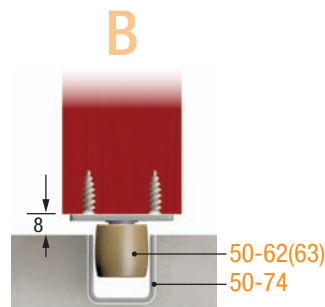
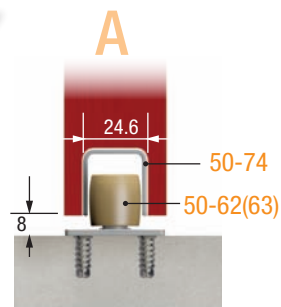
Typical bottom guide configurations for folding systems (suggestions only).

A. Guide roller fixed to floor with under guide channel recessed into door bottom.

B. Guide roller fixed to door with under guide channel recessed into floor.

C. When using suspension plate 50-61 it is recommended to also use bottom guide 50-65

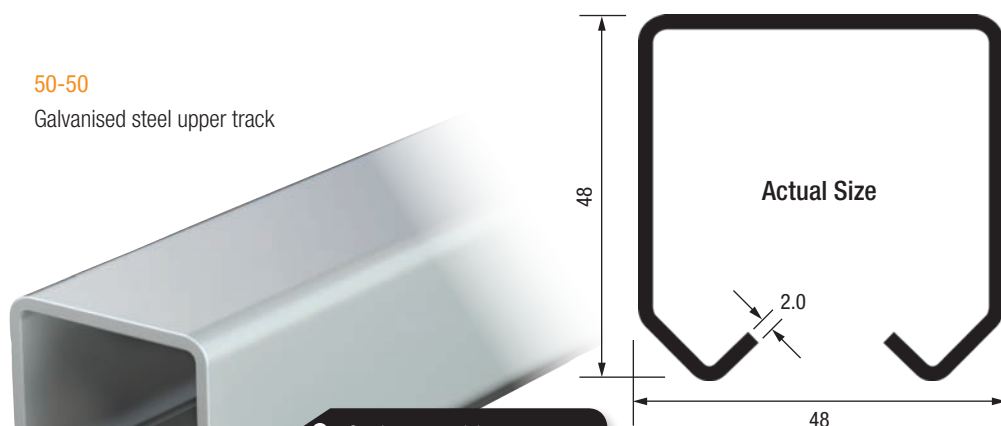
D. Guide roller fixed to floor with under guide channel fitted to door bottom (metal door).



Tracks & Guides

50-50

Galvanised steel upper track

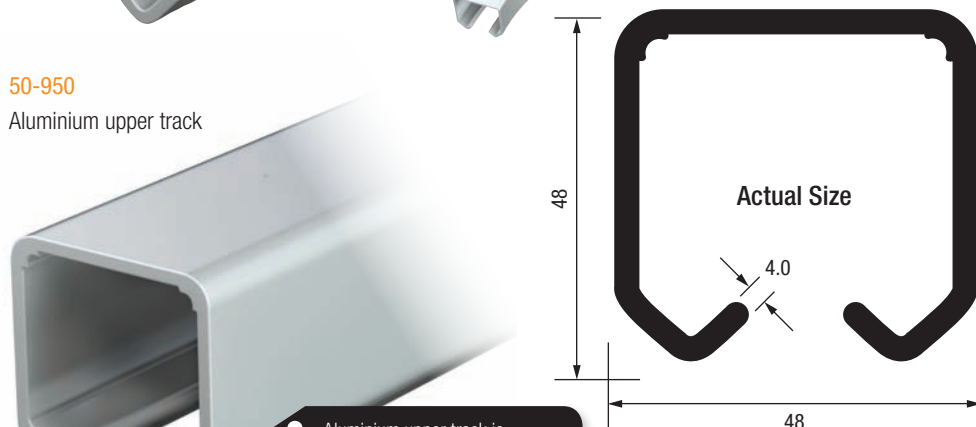


i Steel upper track is available bent by special order to a specific radius.

Length	Part No.
1 metre	50-50-1
2 metre	50-50-2
3 metre	50-50-3
4 metre	50-50-4
5 metre	50-50-5

50-950

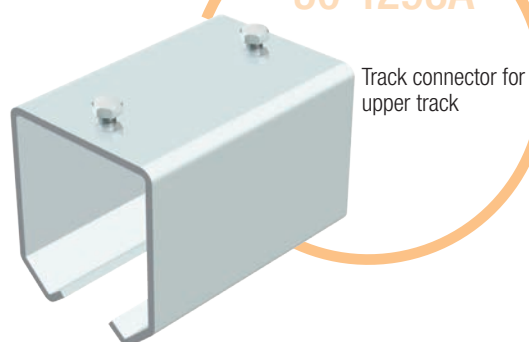
Aluminium upper track



i Aluminium upper track is available bent by special order to a specific radius.

Length	Part No.
1 metre	50-590-1
2 metre	50-590-2
3 metre	50-590-3
4 metre	50-590-4
5 metre	50-590-5

50-1293A



Track connector for upper track

50-74

Under guide galvanised steel channel

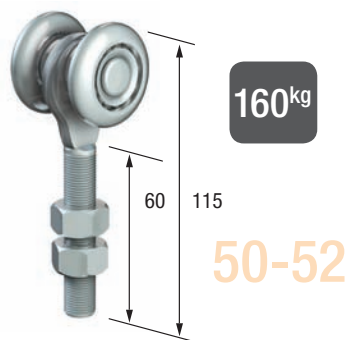


i Under guide channel is available bent by special order to a specific radius.

Length	Part No.
1 metre	50-74-1
2 metre	50-74-2
3 metre	50-74-3
4 metre	50-74-4
5 metre	50-74-5

i All steel track and guide channels are supplied in galvanised finish. Regular greasing is required to prevent premature wear from friction.

Hangers



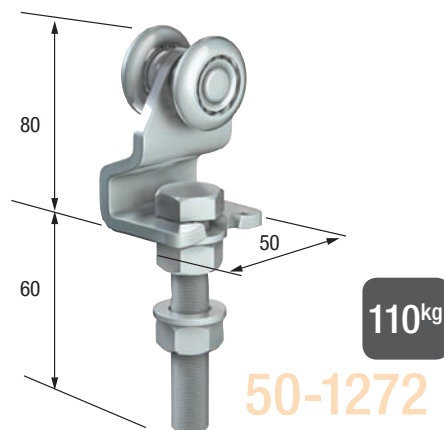
Adjustable steel roller with M12 x 60mm pin and 38mm ball bearing wheels.

50-52 | 160kg capacity
38mm ball bearing steel wheels.



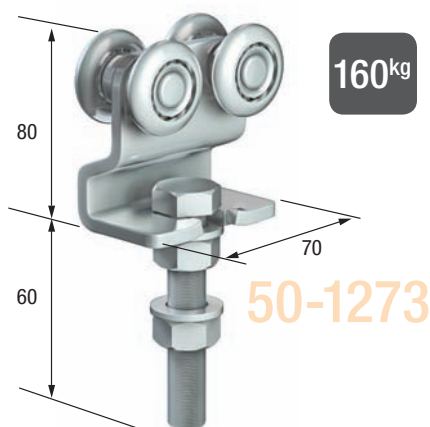
Adjustable steel roller with M12 x 100mm pin and 38mm ball bearing wheels.

50-53A | 220kg capacity
38mm ball bearing steel wheels.



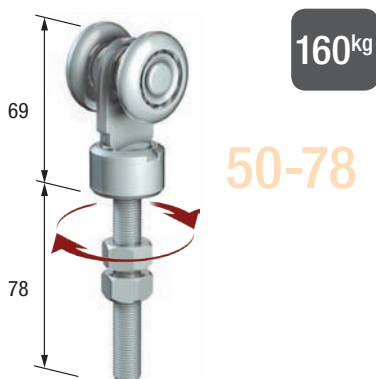
Adjustable steel roller with M16 x 60mm pin and 38mm ball bearing steel wheels.

50-1272 | 110kg capacity
38mm ball bearing steel wheels.



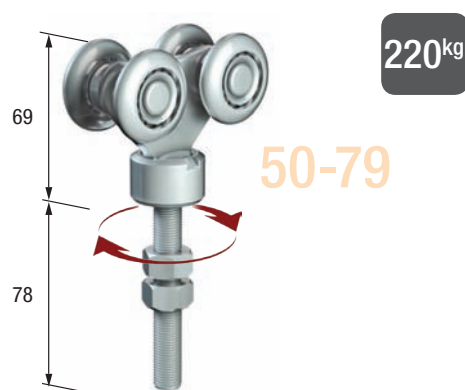
Adjustable steel roller with M16 x 60mm pin and 38mm ball bearing steel wheels.

50-1273 | 160kg capacity
38mm ball bearing steel wheels.



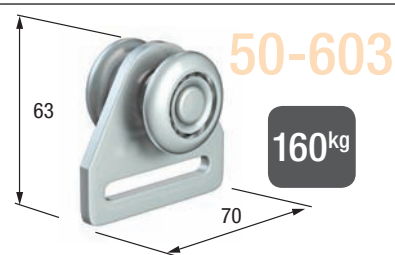
Adjustable steel roller with M12 x 78mm rotating pin and 38mm ball bearing wheels.

50-78 | 160kg capacity
38mm ball bearing steel wheels.



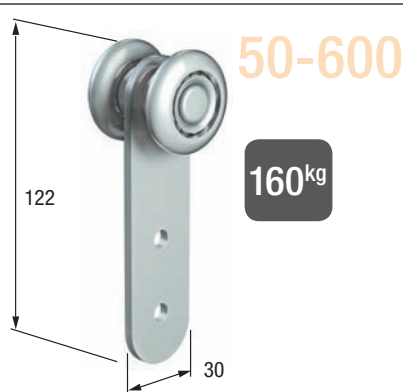
Adjustable steel roller with M12 x 78mm rotating pin and 38mm ball bearing wheels.

50-79 | 220kg capacity
38mm ball bearing steel wheels.



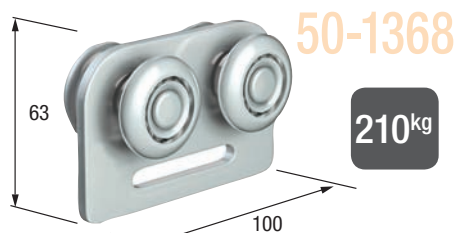
Steel roller with 38mm ball bearing wheels.

50-603 | 160kg capacity
38mm ball bearing steel wheels.



Steel roller with 38mm ball bearing wheels.

50-600 | 160kg capacity
38mm ball bearing steel wheels.



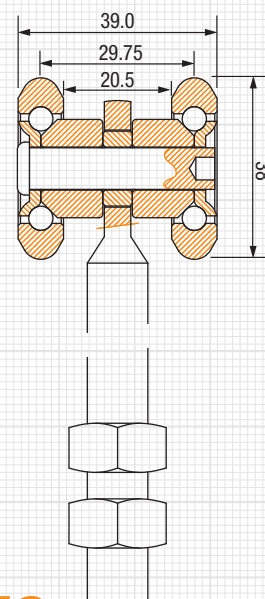
Steel roller with 38mm ball bearing wheels.

50-1368 | 160kg capacity
38mm ball bearing steel wheels.

Wheel Types



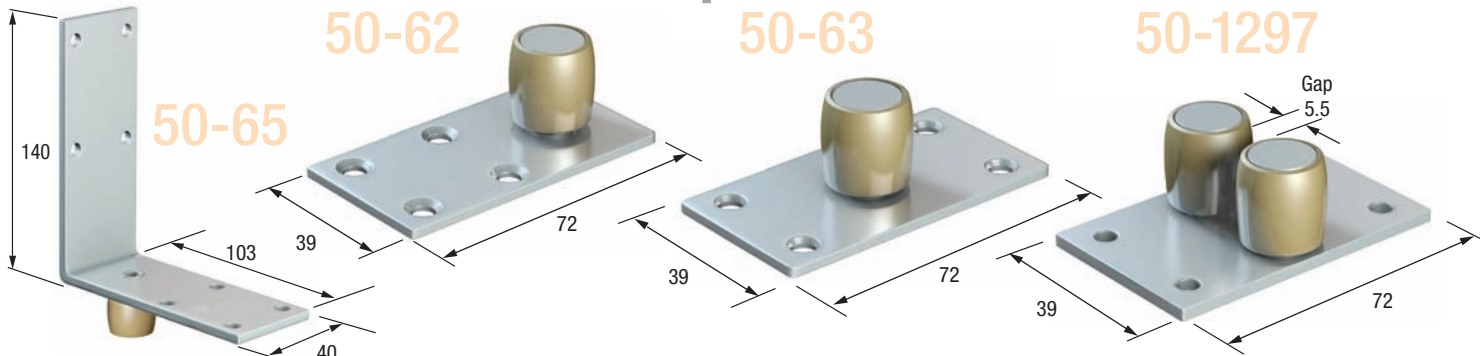
38mm ball bearing wheels
with hardened steel tyre and
stainless steel bearings.



series **50**

Hanger wheel technical information

Guide rollers/brackets/plates



50-65 Steel side guide roller with rotating brass pin 20mm diameter. Minimum door thickness 40 mm.

50-62 Steel guide roller with rotating brass pin 20mm diameter.

50-63 Steel guide roller with rotating brass pin 20mm diameter.

50-1297 Rotating brass pin 20mm diameter.

50-1297



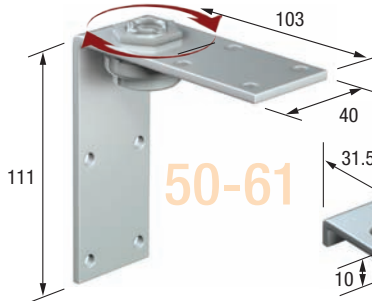
50-1297 Rotating brass pin 20mm diameter.



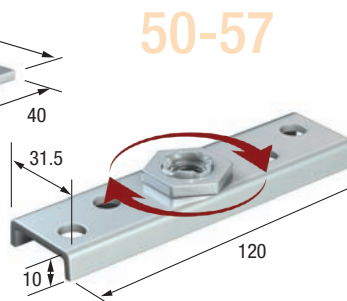
50-55



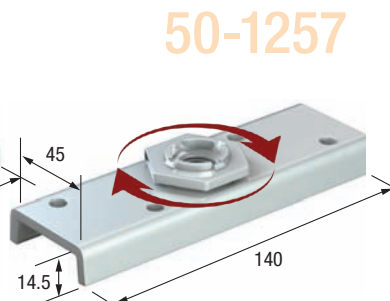
50-55 Door stop for the upper track.



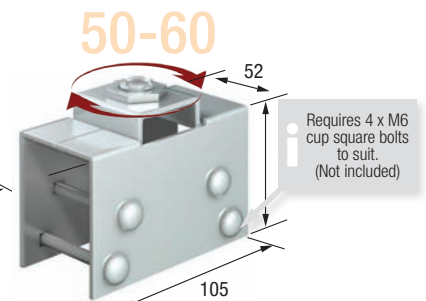
50-61 Steel rotating suspension plate for M12 pin. Min. door thickness 40mm. For use with: 50-52; 50-53; 50-78; 50-79



50-57 Steel rotating suspension plate for M12 pin. Min. door thickness 32mm. For use with: 50-52; 50-53; 50-78; 50-79

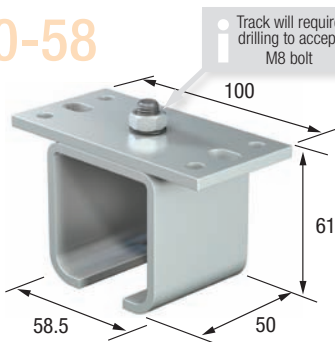


50-1257 Steel rotating suspension plate for M16 pin. Min. door thickness 46mm. For use with: 50-1272; 50-1273

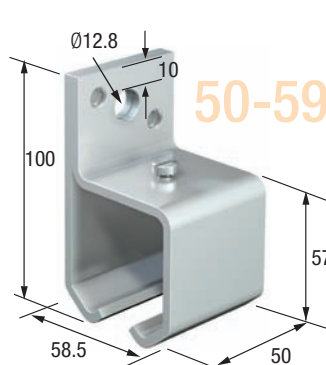


50-60 Steel rotating suspension plate for M12 pin. Min. door thickness 52mm. Max 65mm. For use with: 50-52; 50-53; 50-78; 50-79

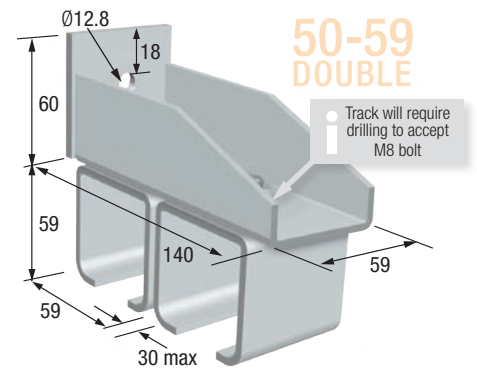
50-58



50-58 Ceiling fixing steel bracket for the upper track.



50-59 Wall fixing steel bracket for the upper track.



50-59 DOUBLE Twin track wall fixing steel bracket for the upper track. Maximum spacing adjustment 30mm

Please note that when using upper track support brackets it is recommended that they should be fixed at 600mm - 1000mm spacing.

series 70

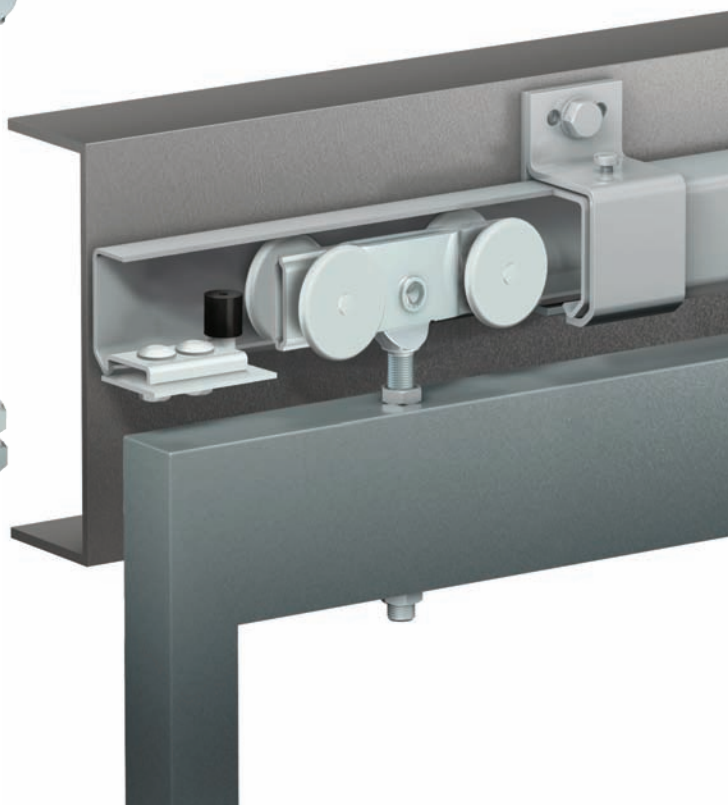
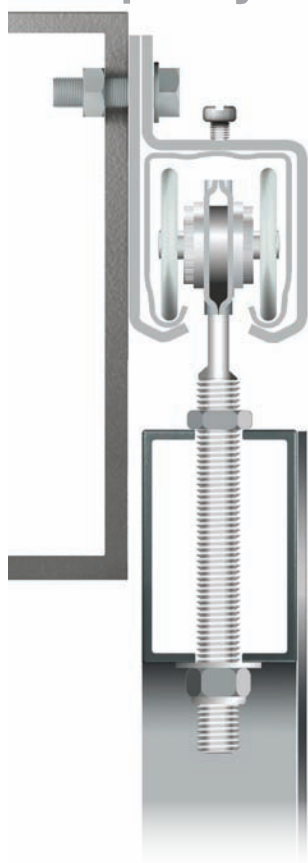
Straight sliding door system for commercial interior & exterior applications up to 600kg

Runners **Series 70** is designed for commercial and agricultural applications such as warehousing, agricultural buildings, stables, etc. The range is designed to be concise and straightforward to assemble. It has the benefit of being compatible with other track profiles in use, making it ideal for extending existing systems.

Series 70 maximum panel weight capacity is 600kg*.

*capacity based on 2 x 300kg hangers per panel.

Simplicity



Wheel Types



56mm needle bearing wheels with hardened steel tyre.

series **70**

Straight sliding systems for timber or metal doors

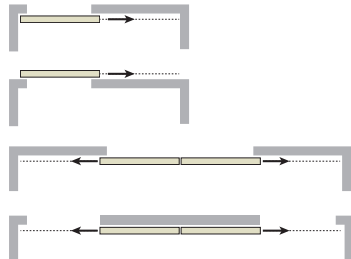
Series 70 straight sliding systems are suitable for timber or metal doors with a maximum panel weight up to 600kg when using two 300kg 4 wheel hangers per door. Components suitable for use with straight sliding systems are detailed below. Generally two hangers are used on each panel.

When using upper track support brackets they should be fixed at a minimum of 600mm and a maximum of 1000mm spacing. Series 70 steel upper track is NOT pre-drilled and will require drilling for soffit fixing whether installing it with or without the use of soffit fixing brackets.

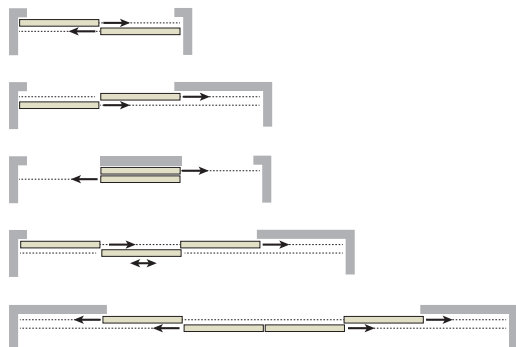
Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

Typical panel configurations

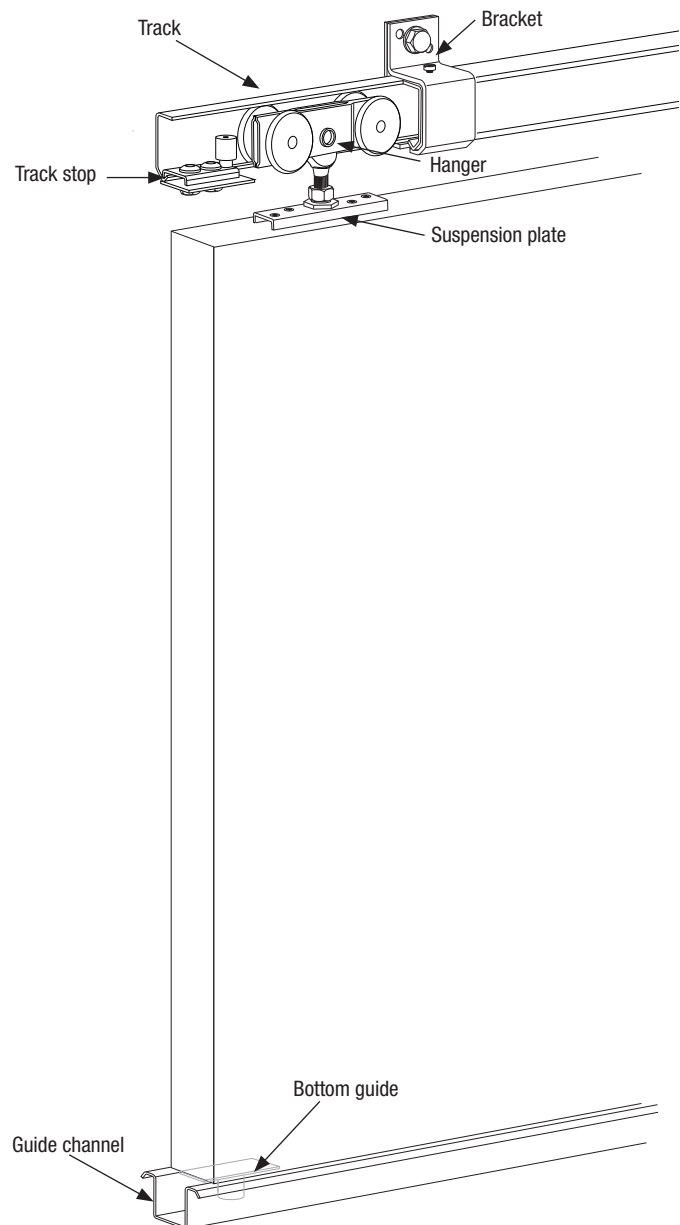
Single track run



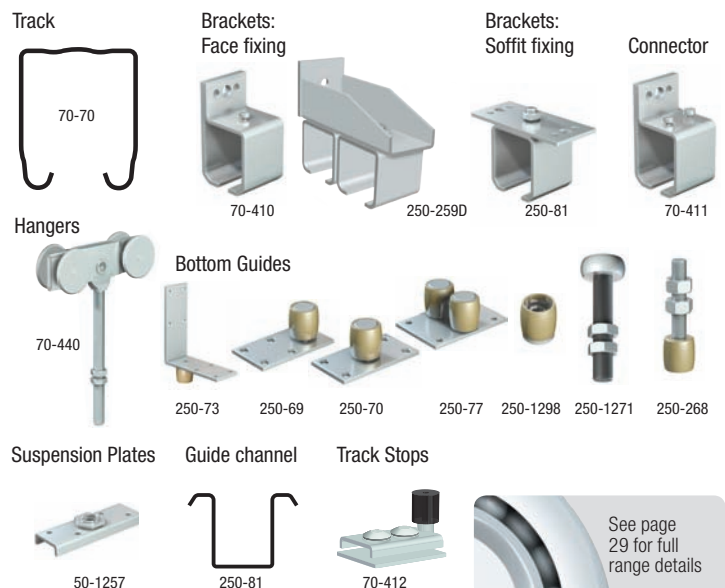
Double track run



TECHNICAL ADVICE
Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.



series **70** Straight sliding components

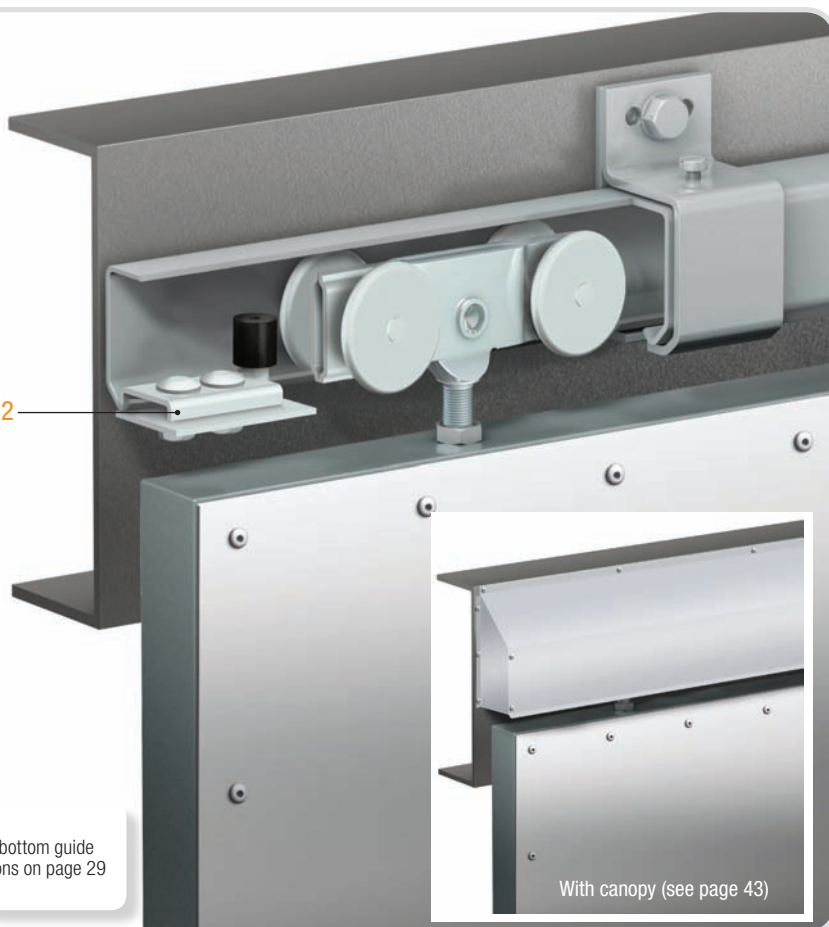


See page 29 for full range details

Face Fixing



See bottom guide
options on page 29



With canopy (see page 43)

Soffit Fixing

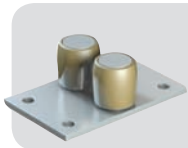


See bottom guide
options on page 29

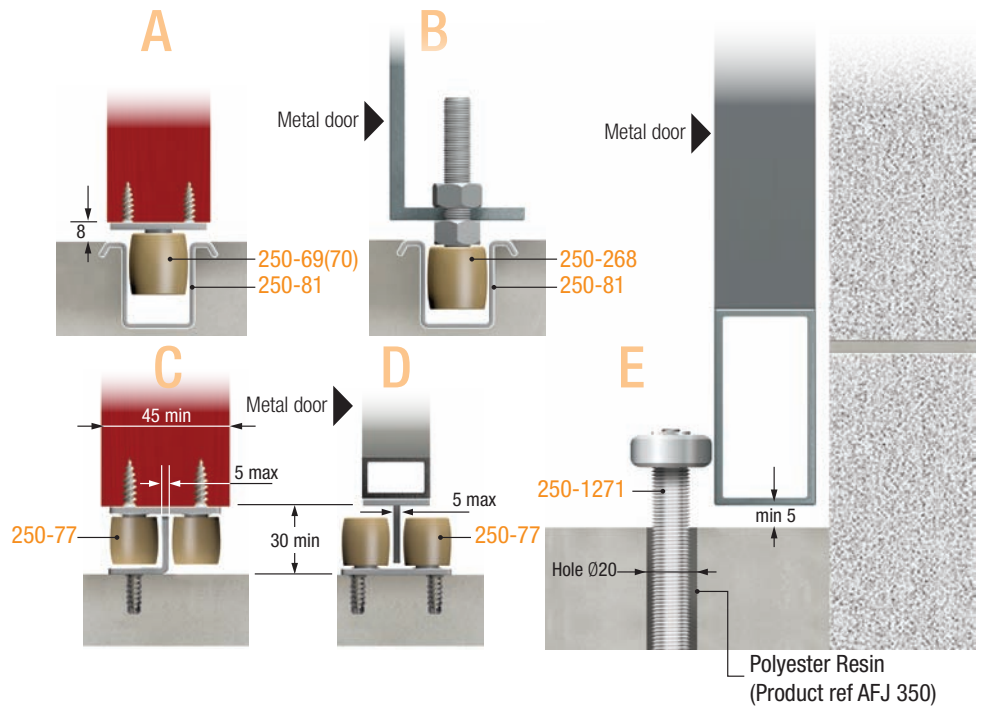
Bottom Guide Options

Typical bottom guide configurations for sliding systems (suggestions only).

- A. Screw mounted guide roller fixed to timber door with under guide channel recessed into floor.
- B. Screw mounted guide roller fixed to metal door with under guide channel recessed into floor.
- C. Bottom guide **250-77** used with angle steel, which can also act as a weather strip.
- D. T-section metal bar fitted to door underside and used with bottom guide **250-77**.
- E. Bottom guide **250-1271** fixed into floor using chemical resin. Door is then guided between wall and roller which allows it to be used with no under guide channel. Where guide channel is prone to fill with debris, this method is recommended.



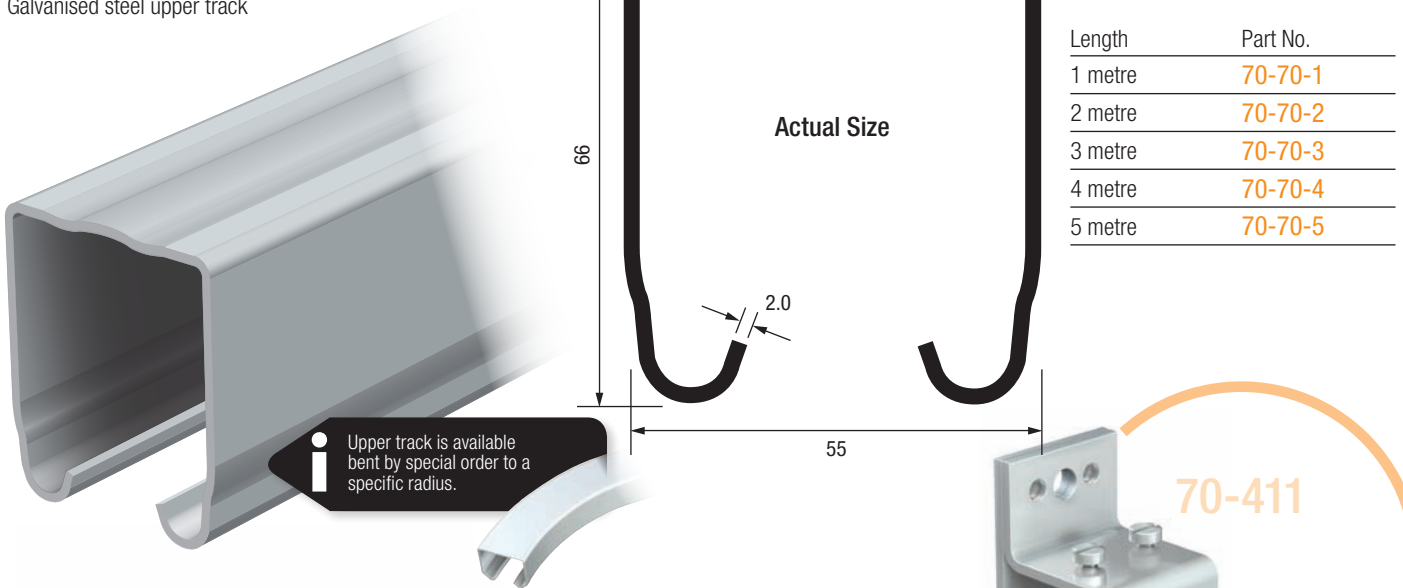
Other bottom guide options available. See GUIDE ROLLER section on page 30



Tracks & Guides

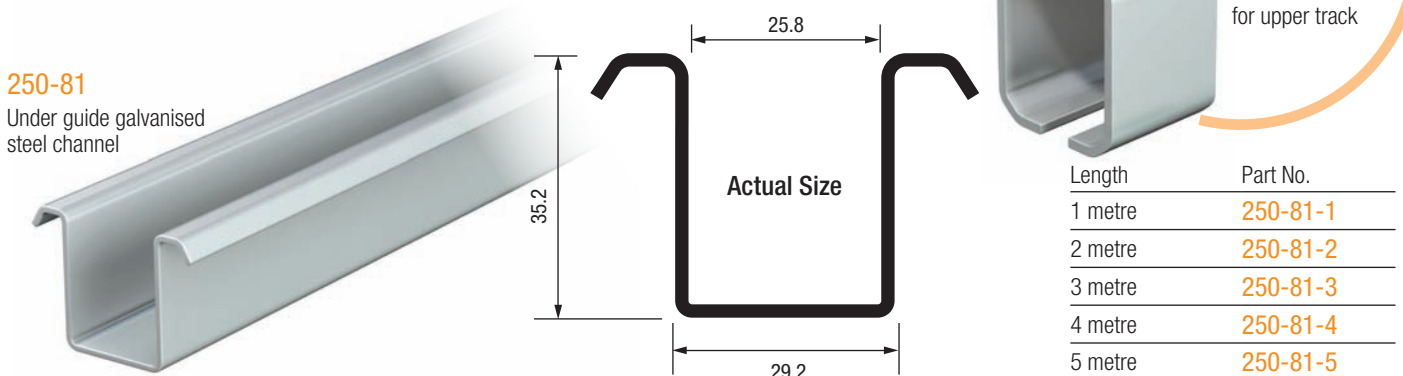
70-70

Galvanised steel upper track



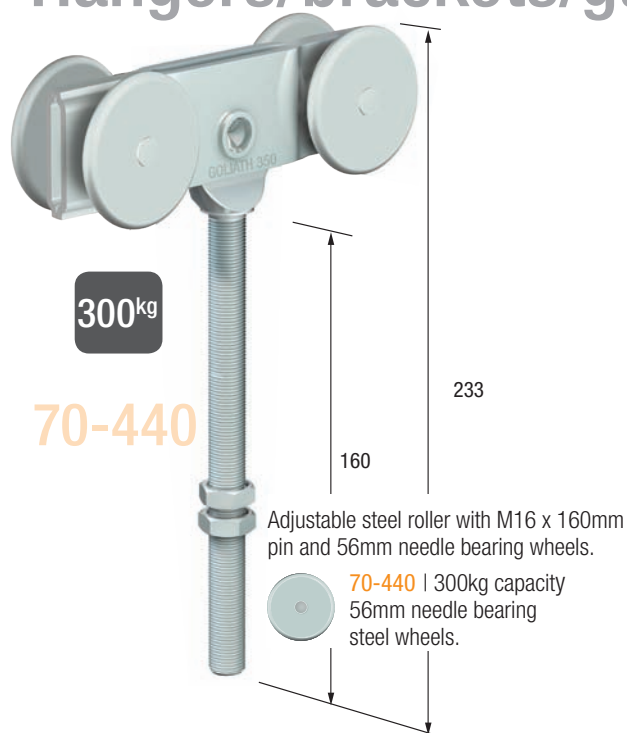
250-81

Under guide galvanised steel channel

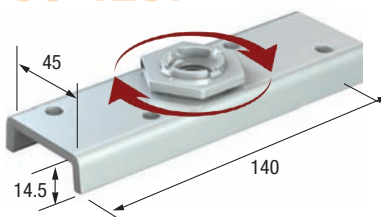


i All steel track and guide channels are supplied in galvanised finish. Regular greasing is required to prevent premature wear from friction.

Hangers/brackets/guide rollers/plates



50-1257

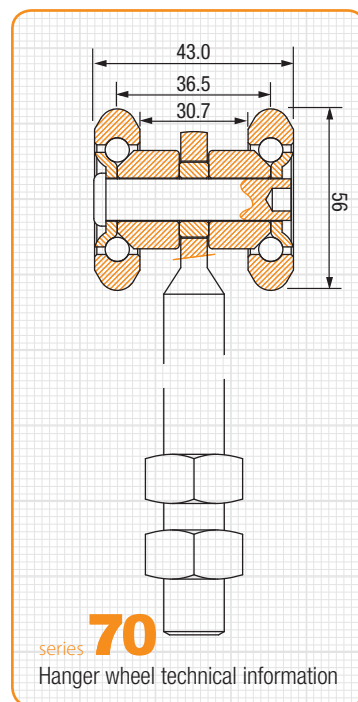


50-1257 Steel rotating suspension plate for M16 pin. Min. door thickness 46mm. For use with: **70-440**

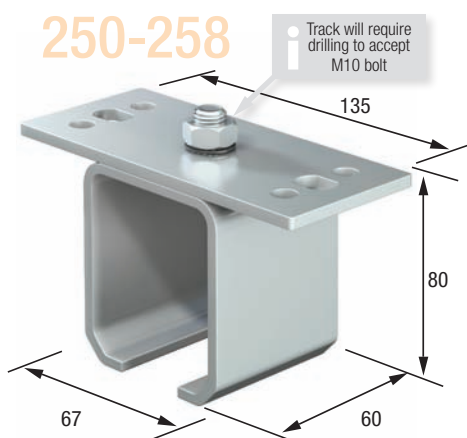
70-412



70-412 Door stop for the upper track.



250-258

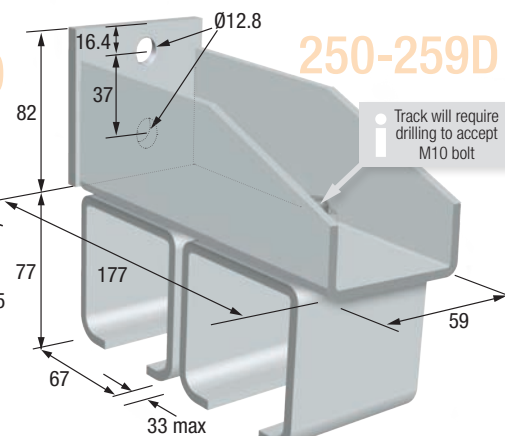


250-258 Ceiling fixing steel bracket for the upper track.



70-410 Wall fixing steel bracket for the upper track.

70-410

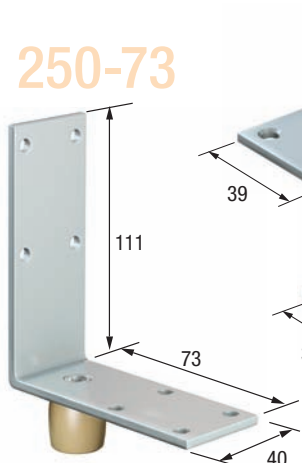


250-259D Twin track wall fixing steel bracket for the upper track. Maximum spacing adjustment 33mm.

250-259D

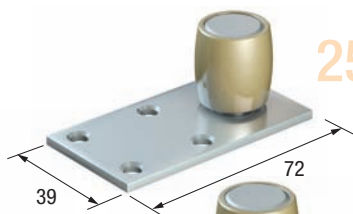
i Please note that when using upper track support brackets it is recommended that they should be fixed at 600mm - 1000mm spacing.

250-73



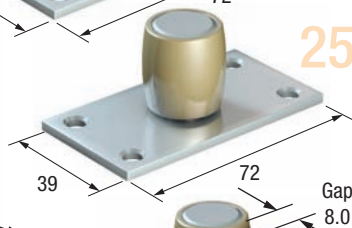
250-73 Steel side guide roller with rotating brass pin 25mm diameter. Minimum door thickness 40mm.

250-69



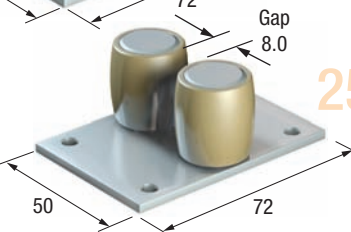
250-69 Steel guide roller with rotating brass pin 25mm diameter.

250-70



250-70 Steel guide roller with rotating brass pin 25mm diameter.

250-77



250-77 Twin steel guide roller with rotating brass pin 25mm diameter.

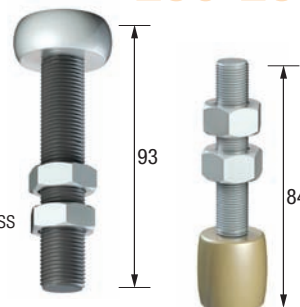
250-1271

50-1297



50-1297 Rotating brass pin 25mm diameter.

250-268



250-1271 Guide roller M16 steel pin with 34mm steel roller.

250-268 Guide roller M12 steel pin with 25mm brass roller.

series **250**

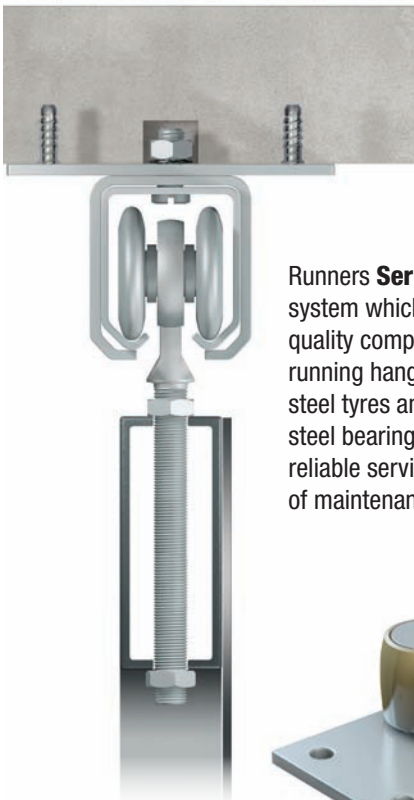
Straight & folding sliding door system
for heavy commercial interior &
exterior applications up to 1000kg

Runners **Series 250** is designed for heavy duty commercial and agricultural applications such as warehousing, agricultural buildings, hangars etc. The comprehensive range of hangers and components offers a smooth gliding system for both straight sliding and folding configurations.

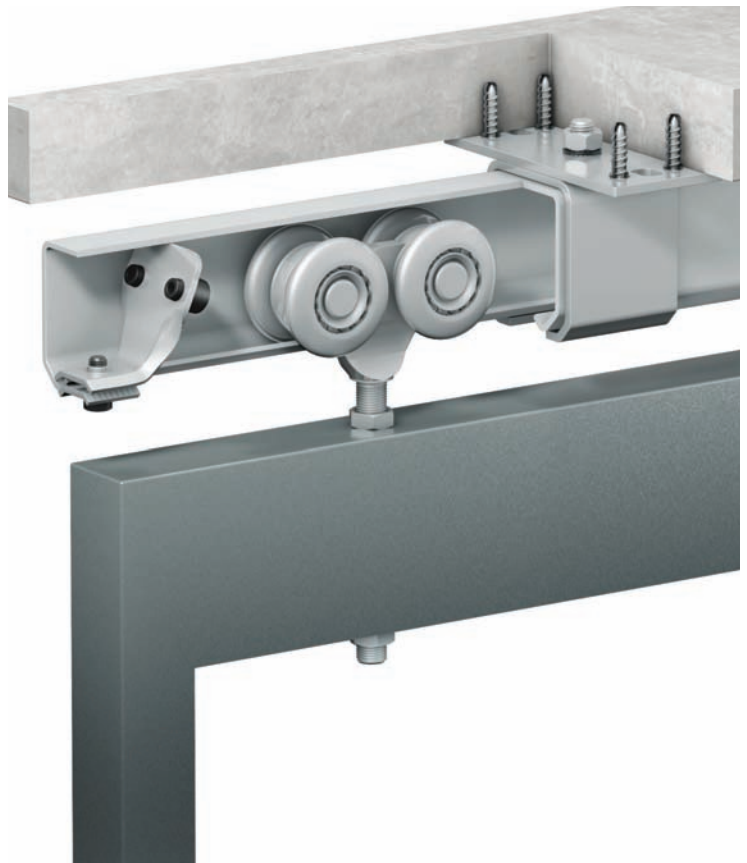
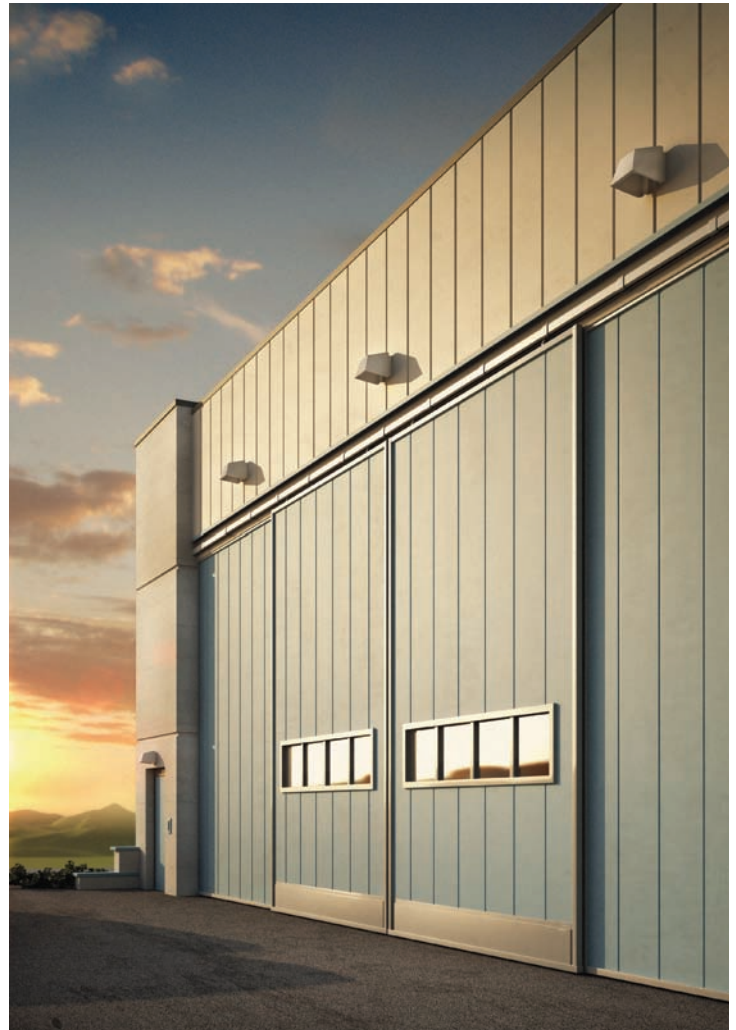
Series 250 maximum panel weight capacity is 1000kg*.

*capacity based on 2 x 500kg hangers per panel.

Strength



Runners **Series 250** is a top hung system which utilises the highest quality components. The smooth running hangers feature hardened steel tyres and precision stainless steel bearings for a lifetime of reliable service with the minimum of maintenance.



Wheel Types



55mm ball bearing wheels with
hardened steel tyre and stainless steel
bearings.

series 250

Straight sliding systems for timber or metal doors

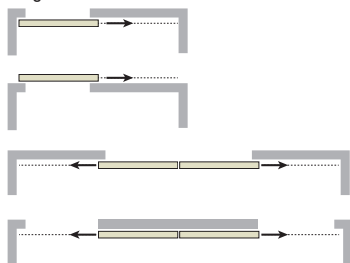
Series 250 straight sliding systems are suitable for timber or metal doors with a maximum panel weight up to 1000kg when using two 500kg 4 wheel hangers per door. Capacity will be reduced accordingly if using lower capacity hangers from the **Series 250** range. Components suitable for use with straight sliding systems are detailed below. Generally two hangers are used on each door panel. A third or fourth hanger can be used to increase door weight capacity. eg. using three **250-253** hangers would allow a door panel weighing up to 1500kg to be used.

When using upper track support brackets they should be fixed at a minimum of 600mm and a maximum of 1000mm spacing. Series 250 upper track is NOT pre-drilled and will require drilling for soffit fixing whether installing it with or without the use of soffit fixing brackets.

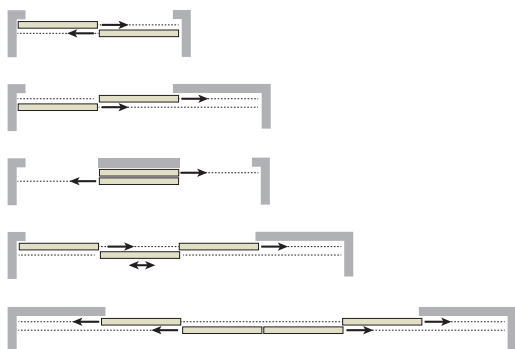
Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

Typical panel configurations

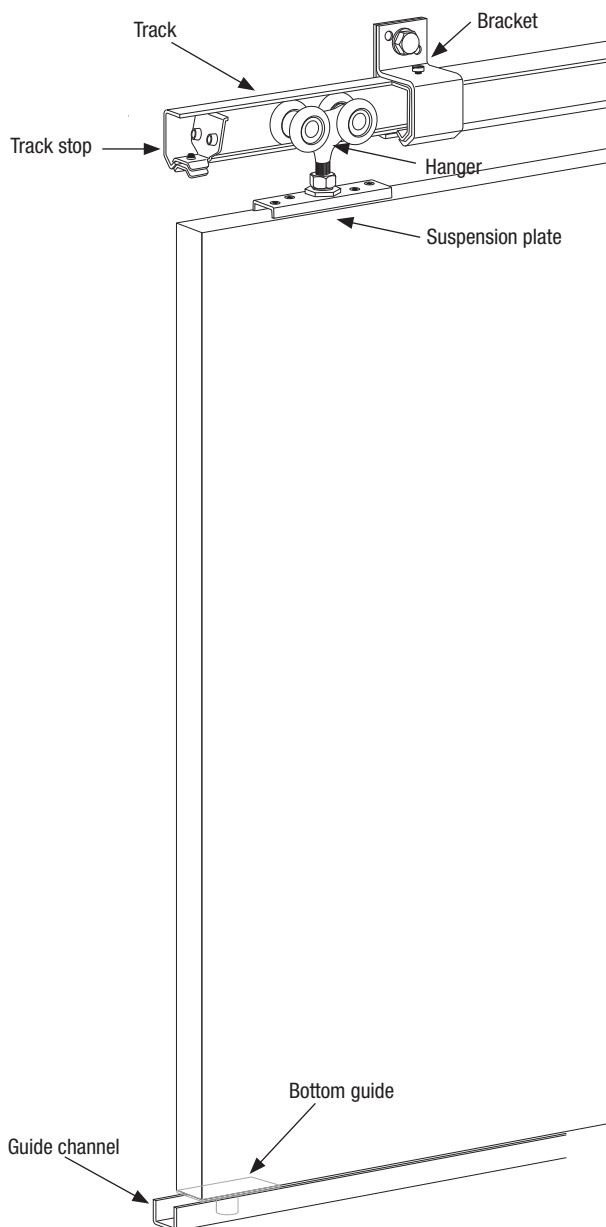
Single track run



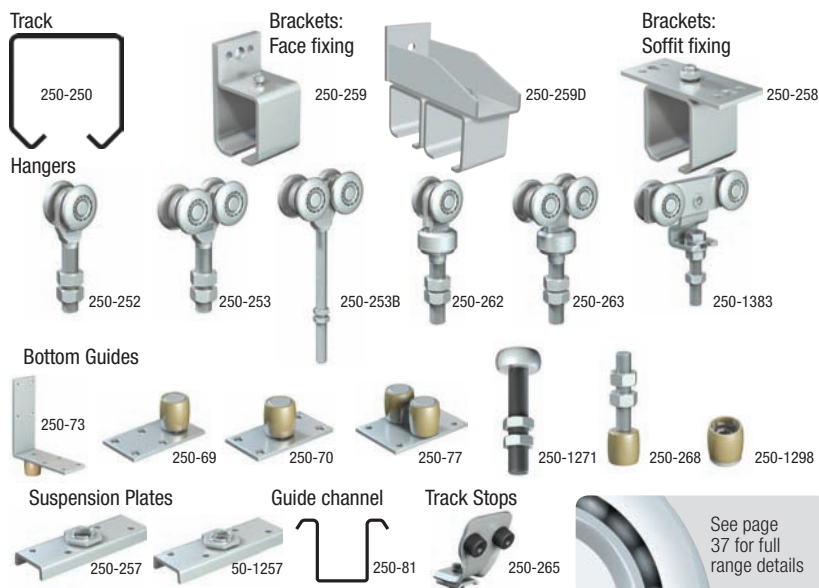
Double track run



TECHNICAL ADVICE
Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.



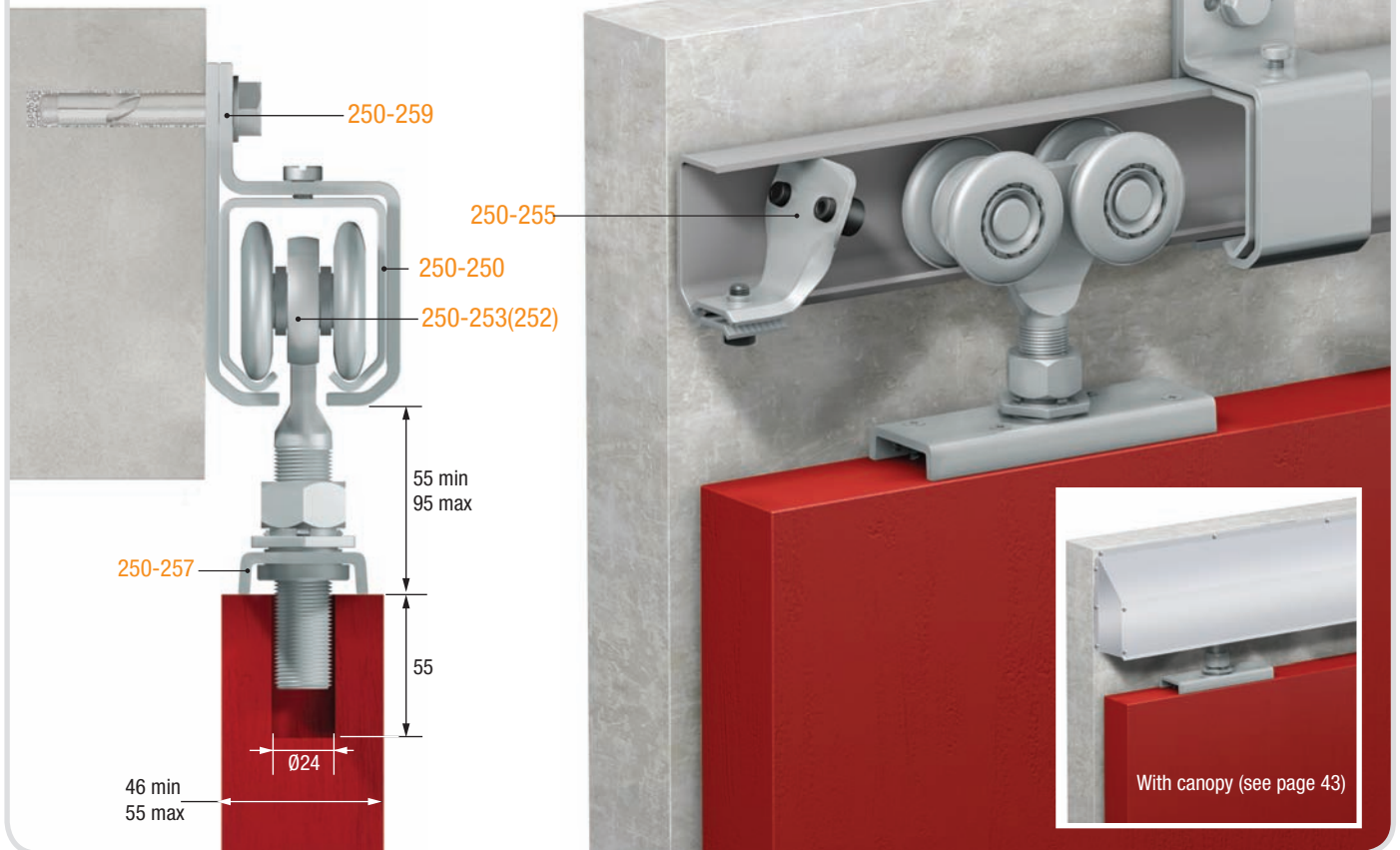
series 250 Straight sliding components



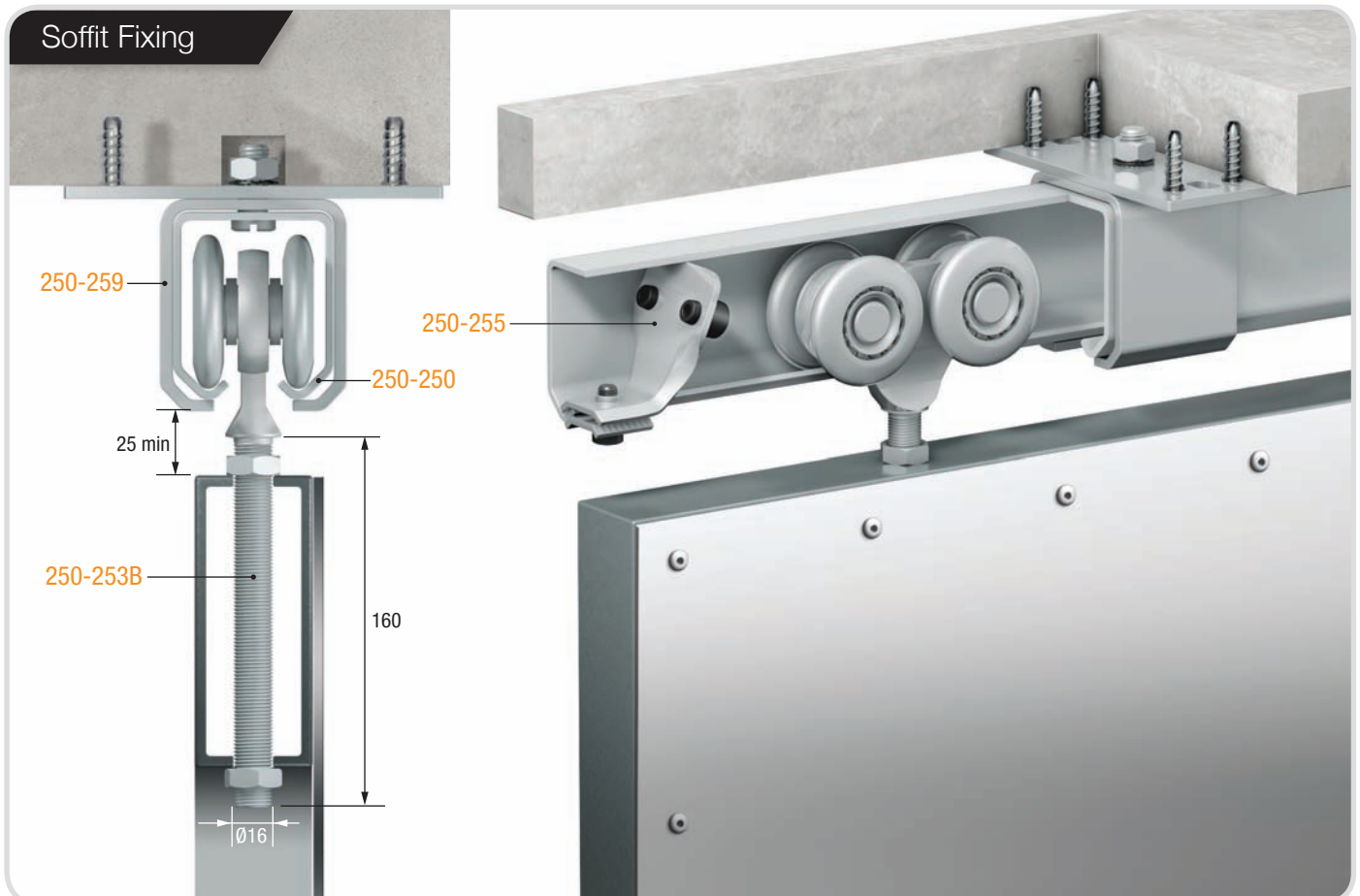
Technical

Straight sliding application examples

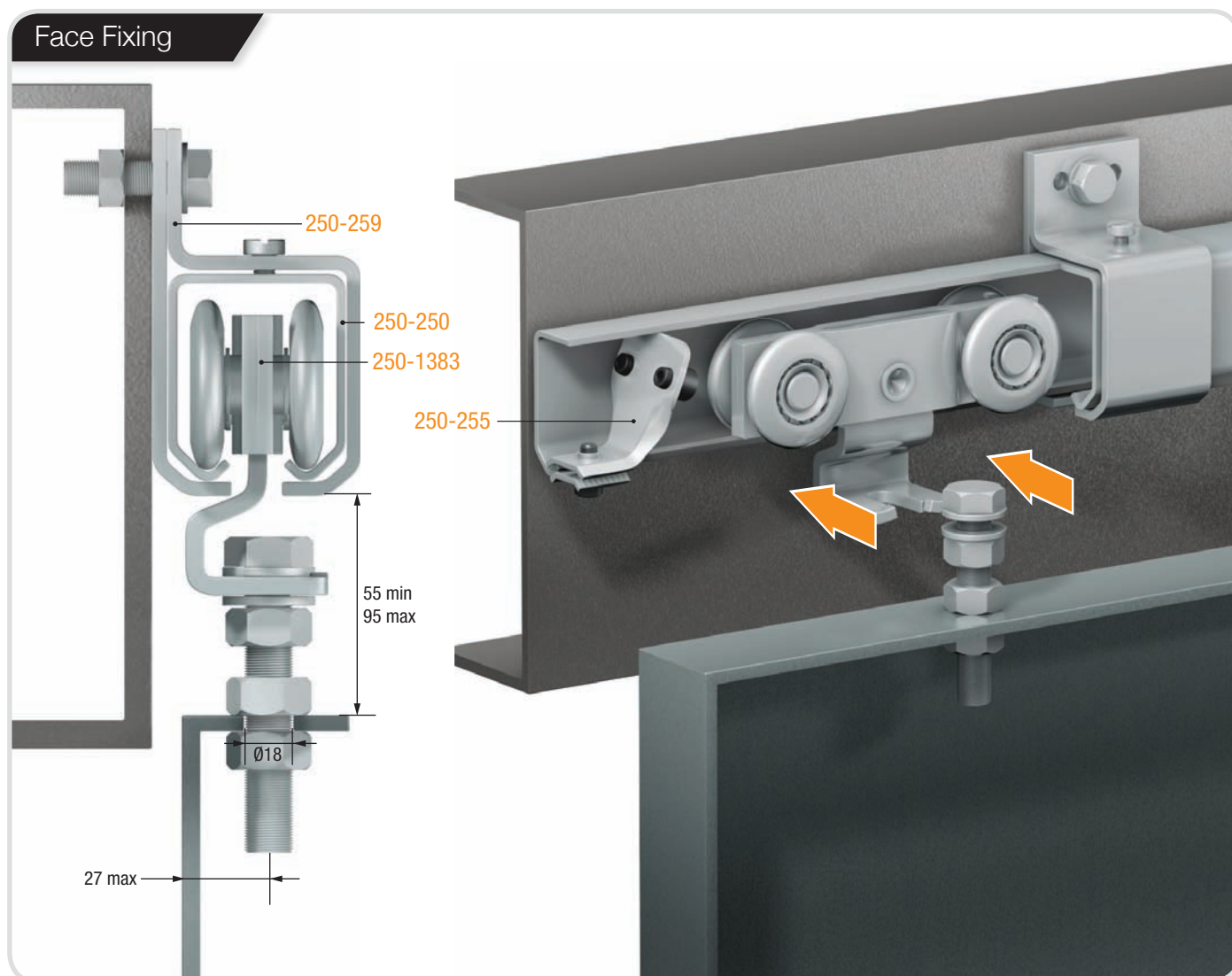
Face Fixing



Soffit Fixing



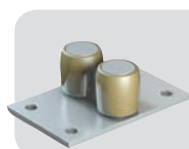
Face Fixing



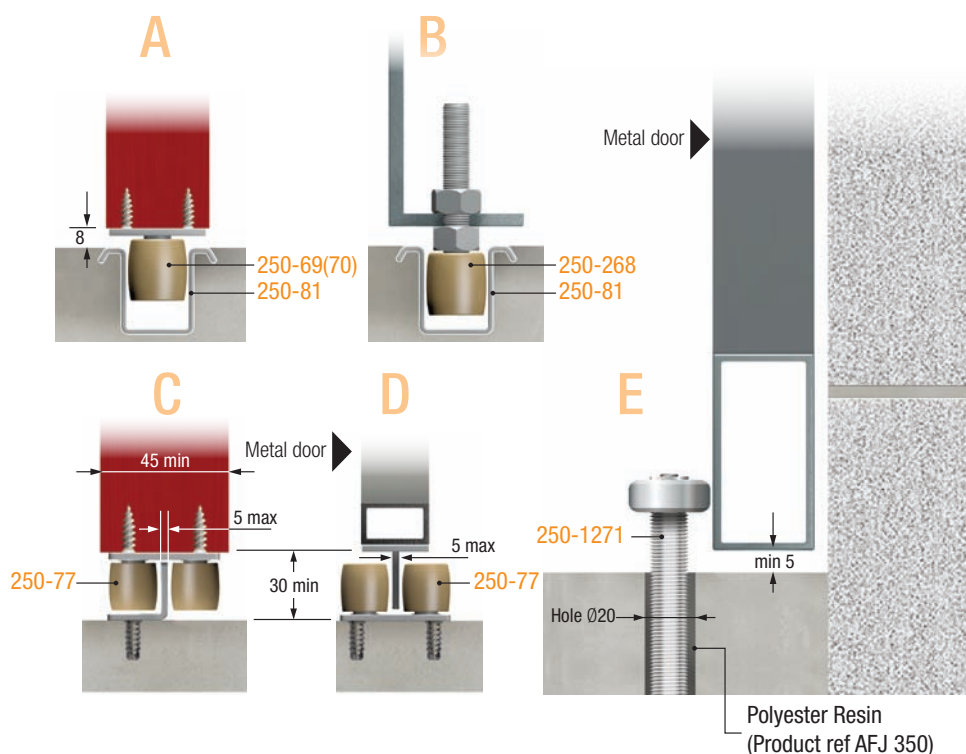
Bottom Guide Options

Typical bottom guide configurations for sliding systems (suggestions only).

- A. Screw mounted guide roller fixed to timber door with under guide channel recessed into floor.
- B. Screw mounted guide roller fixed to metal door with under guide channel recessed into floor.
- C. Bottom guide **250-77** used with angle steel, which can also act as a weather strip.
- D. T-section metal bar fitted to door underside and used with bottom guide **250-77**.
- E. Bottom guide **250-1271** fixed into floor using chemical resin. Door is then guided between wall and roller which allows it to be used with no under guide channel. Where guide channel is prone to fill with debris, this method is recommended.

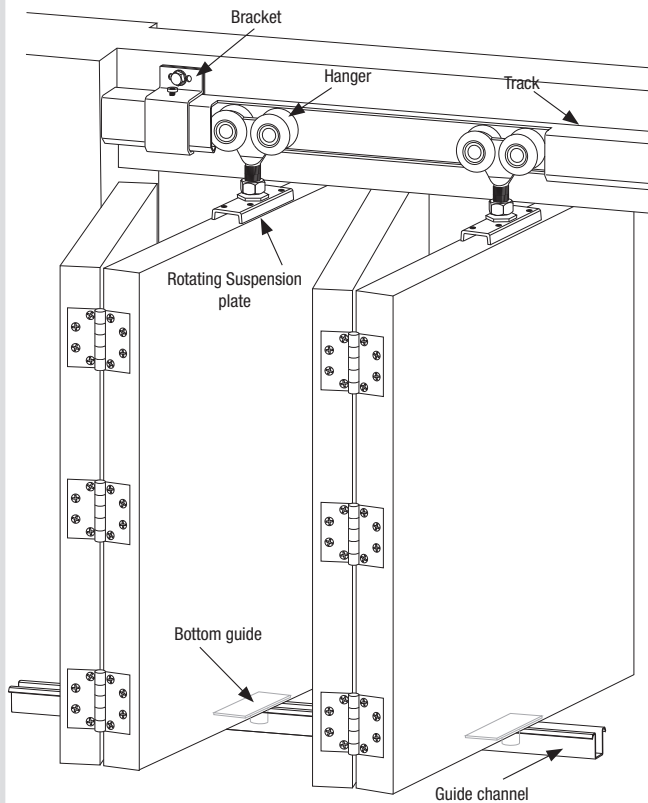


Other bottom guide options available. See GUIDE ROLLER section on page 39



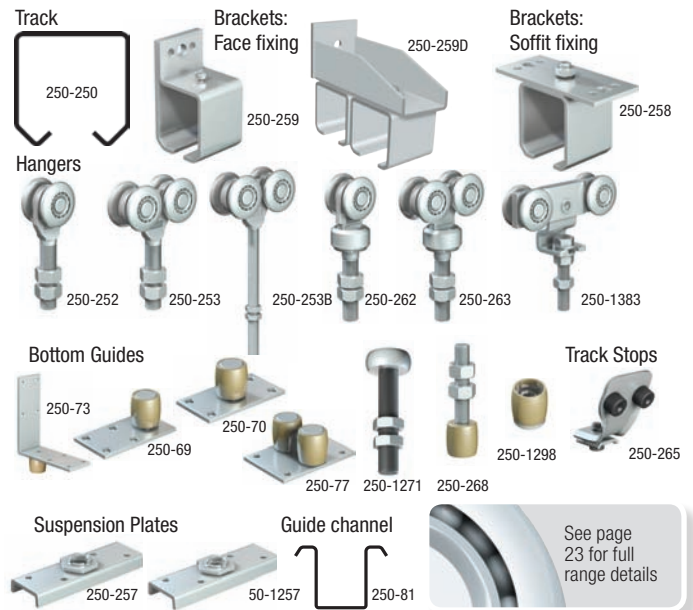
Technical

Centre Folding Systems



Series 250 end folding systems are suitable for timber or metal doors with a maximum panel weight up to 1000kg when using two 500kg 4 wheel hangers per door. Capacity will be reduced accordingly if using lower capacity hangers from the **Series 250** range. Components suitable for use with centre folding systems are detailed below. Our Technical Team are available on 01280 822288 to help you with system configuration and hardware selection if required.

series **250** Centre Folding door components

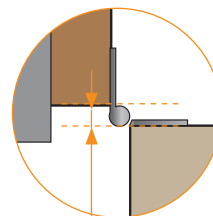
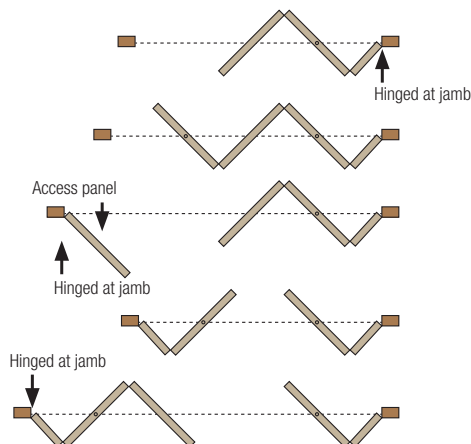


NOTE: The width of the door panel which is hinged to the frame (jamb) must be reduced by half the thickness of the door plus half the width of the remaining doors, plus the diameter of the hinge knuckle when using butt hinges. The example below is for a hinge with a 14mm knuckle. Dimension will vary depending on hinge choice.

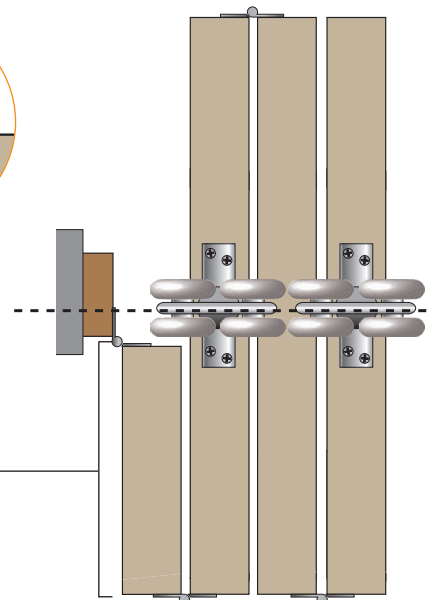
Example using 1200mm wide x 80mm thick door.
 $1200\text{mm} \div 2 = 600\text{mm}$; $80\text{mm} \div 2 = 40\text{mm}$;
 $600\text{mm} + 40\text{mm} + 14\text{mm}$
 $= 654\text{mm}$ reduction in width.

Other typical centre folding panel configurations

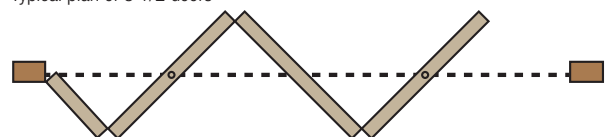
All panels equal width except jamb leaf which must be reduced as shown above.



Allow clearance for hinge knuckles when using butt hinges



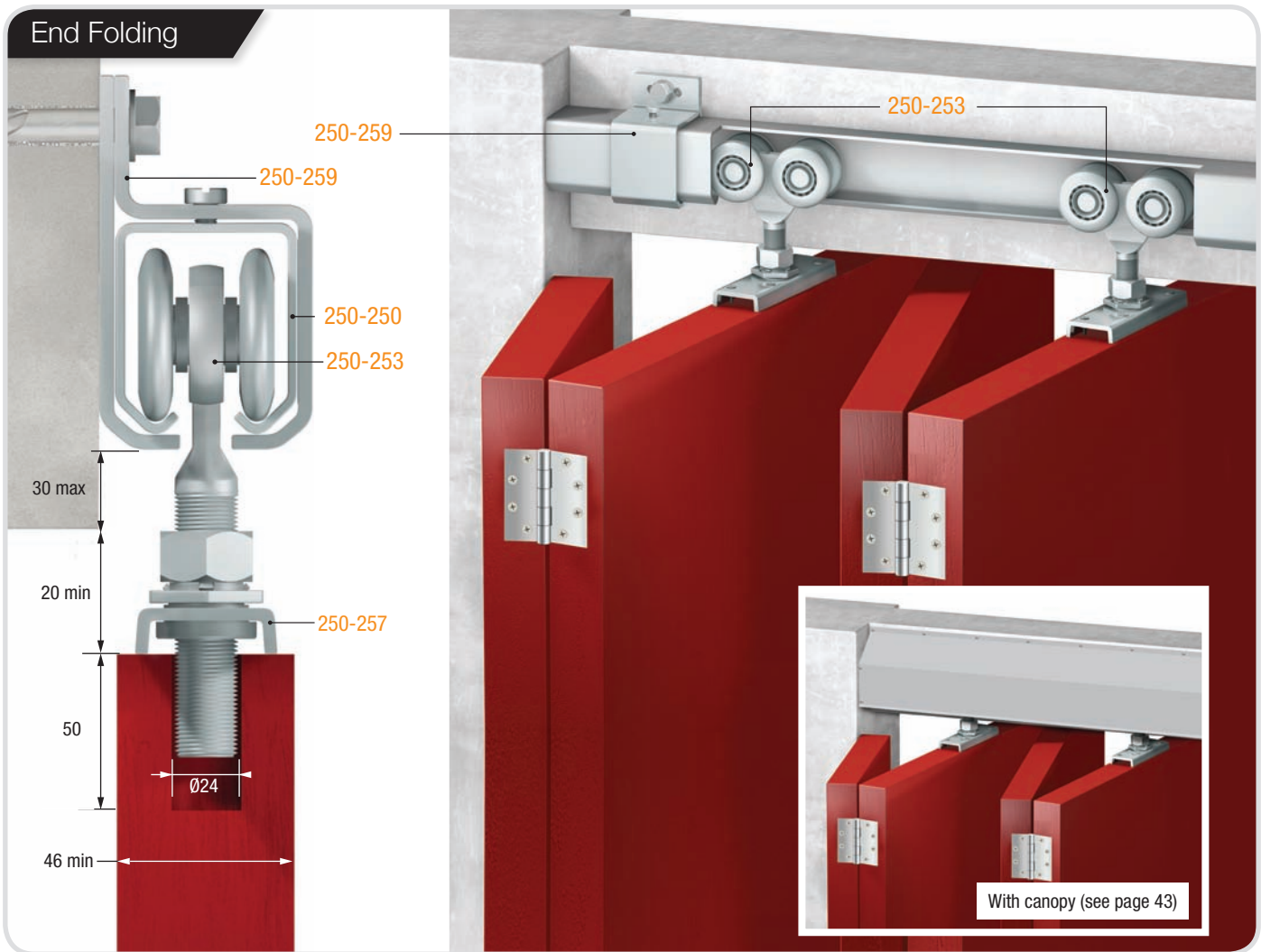
Typical plan of 3 1/2 doors



TECHNICAL ADVICE

Consult our Technical Team on 01280 822288 for help with hardware configuration and quantities.

End Folding

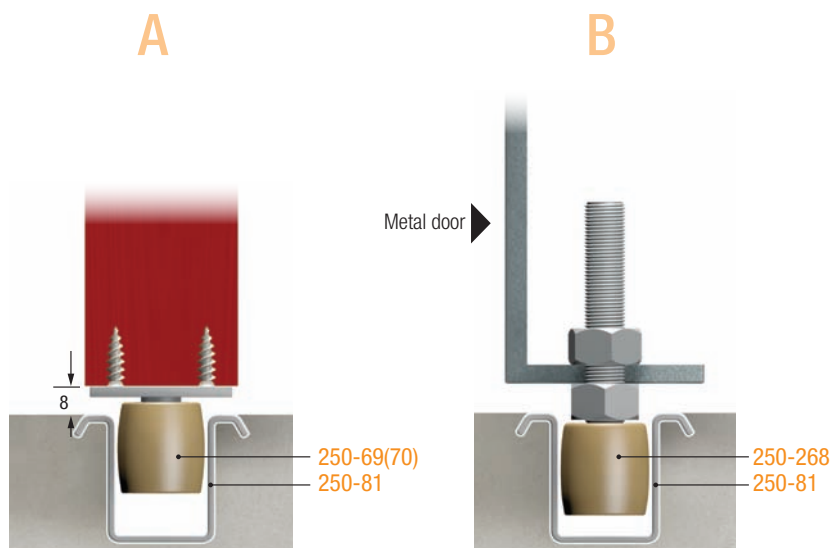
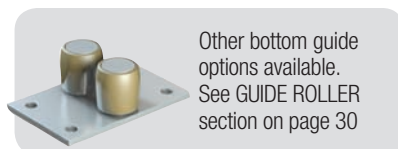


Bottom Guide Options

Typical bottom guide configurations for folding systems (suggestions only).

A. Screw mounted guide roller fixed to timber door with under guide channel recessed into floor. 250-1298 may also be used for door tinner than 40mm

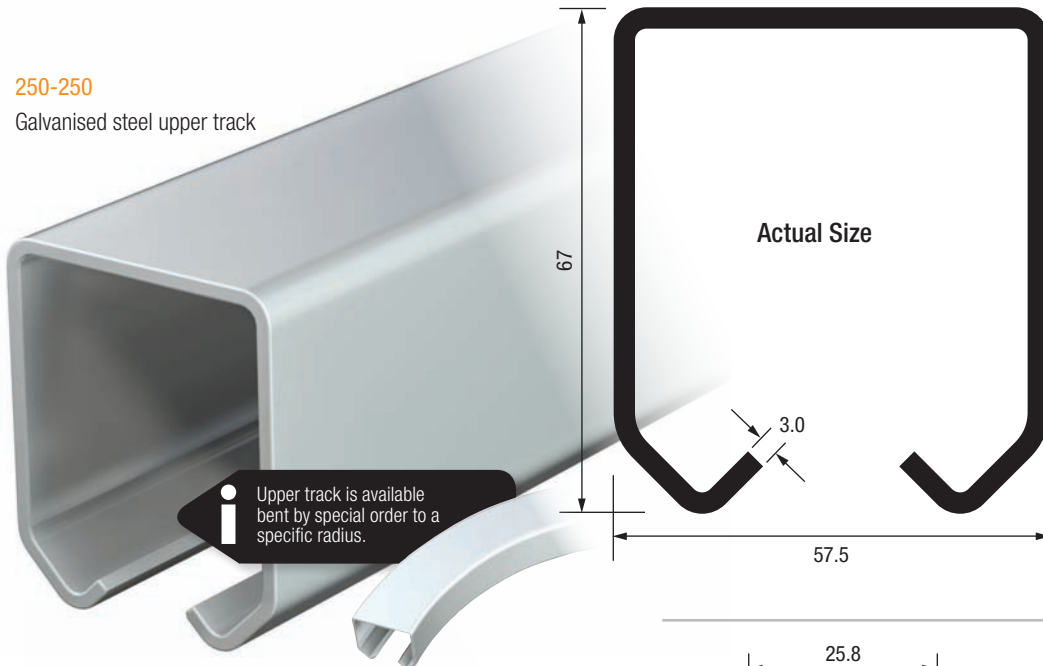
B. Screw mounted guide roller fixed to metal door



Tracks & Guides

250-250

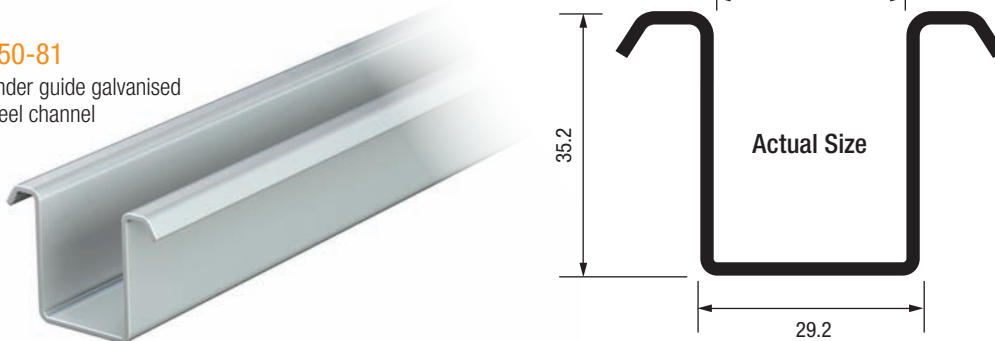
Galvanised steel upper track



Length	Part No.
1 metre	250-250-1
2 metre	250-250-2
3 metre	250-250-3
4 metre	250-250-4
5 metre	250-250-5

250-81

Under guide galvanised steel channel

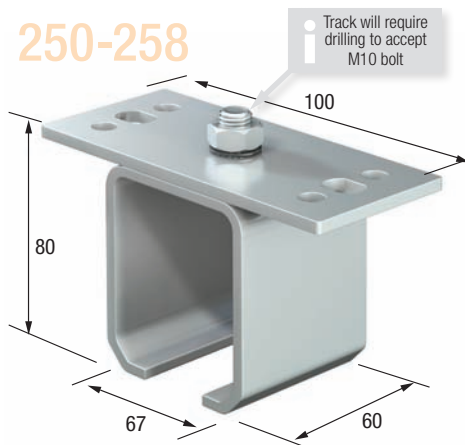


Length	Part No.
1 metre	250-81-1
2 metre	250-81-2
3 metre	250-81-3
4 metre	250-81-4
5 metre	250-81-5

i All steel track and guide channels are supplied in galvanised finish. Regular greasing is required to prevent premature wear from friction.

Brackets

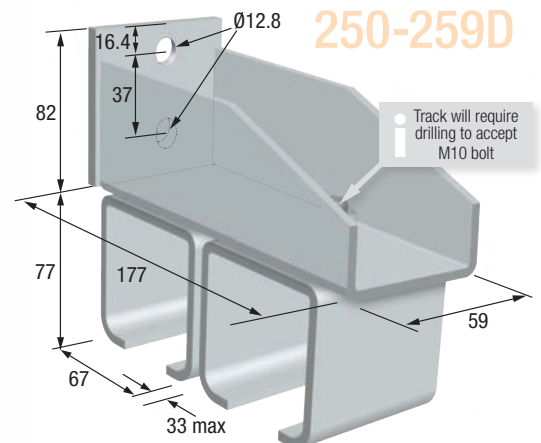
250-258



250-258 Ceiling fixing steel bracket for the upper track.



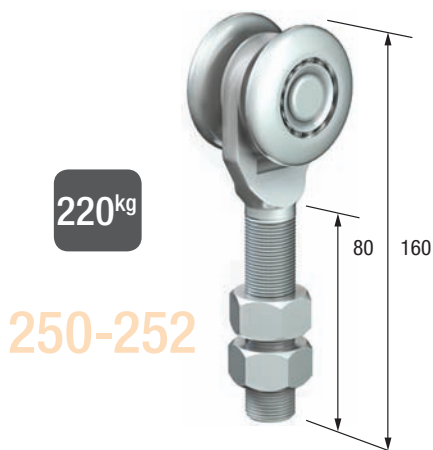
250-259 Wall fixing steel bracket for the upper track.



250-259D Twin track wall fixing steel bracket for the upper track. Maximum spacing adjustment 33mm

i Please note that when using upper track support brackets it is recommended that they should be fixed at 600mm - 1000mm spacing.

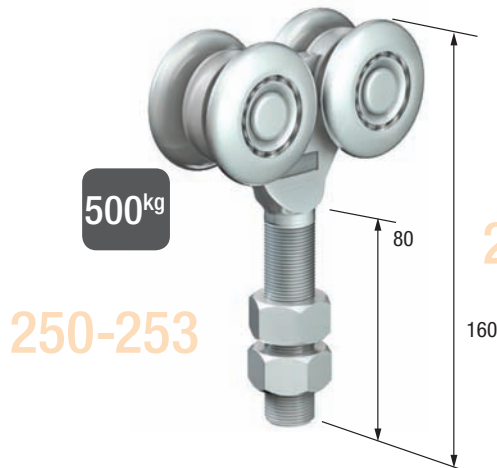
Hangers/plates



250-252

Adjustable steel hanger with M20 x 80mm pin and 55mm ball bearing wheels.

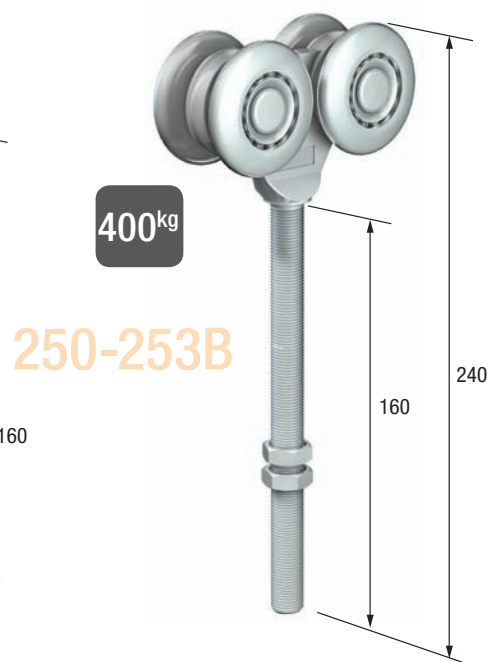
 250-252 | 220kg capacity
55mm ball bearing steel wheels.



250-253

Adjustable steel hanger with M20 x 80mm pin and 55mm ball bearing wheels.

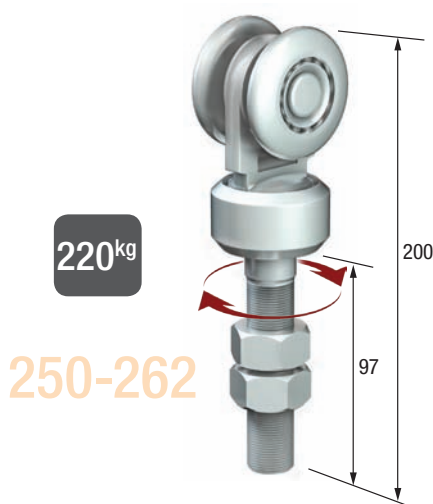
 250-253 | 500kg capacity
55mm ball bearing steel wheels.



250-253B

Adjustable steel hanger with M16 x 160mm pin and 55mm ball bearing wheels.

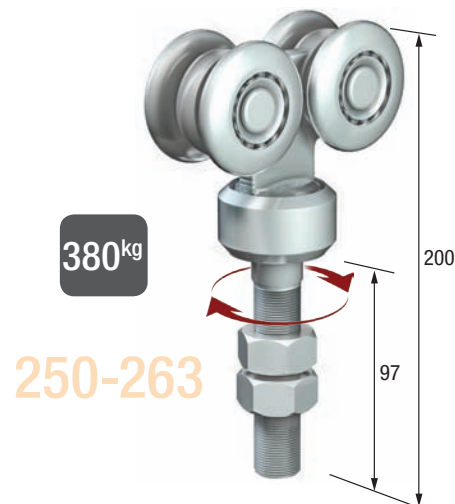
 250-253B | 400kg capacity
55mm ball bearing steel wheels.



250-262

Adjustable steel hanger with M20 x 97mm rotating pin and 55mm ball bearing wheels.

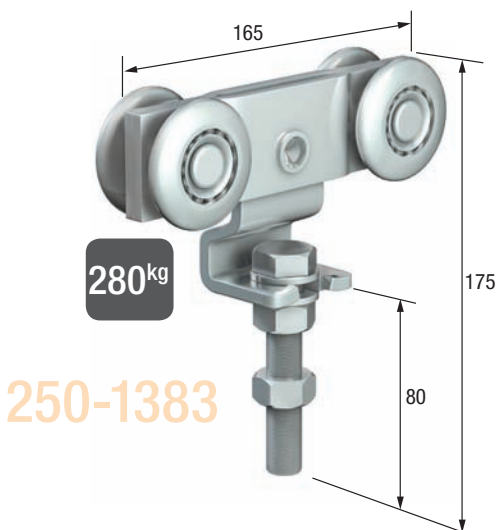
 250-262 | 220kg capacity
55mm ball bearing steel wheels.



250-263


Adjustable steel hanger with M20 x 97mm rotating pin and 55mm ball bearing wheels.

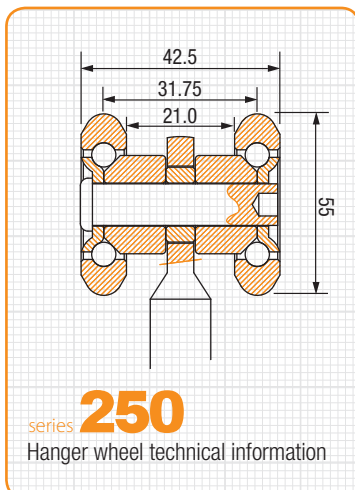
 250-263 | 380kg capacity
55mm ball bearing steel wheels.



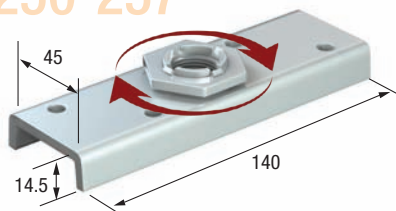
250-1383

Adjustable steel hanger with M16 x 80mm pin and 55mm ball bearing wheels.

 250-1383 | 280kg capacity
55mm ball bearing steel wheels.

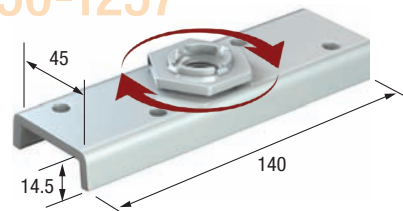


250-257



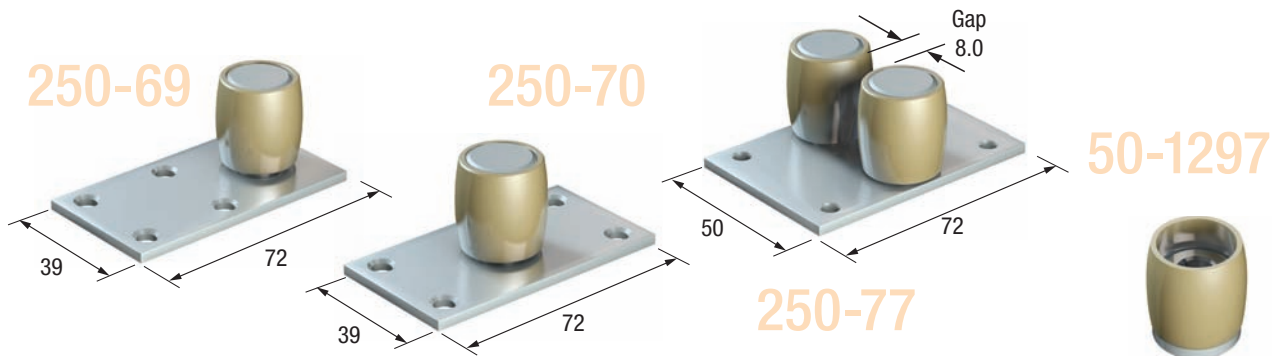
250-257 Steel rotating suspension plate for M20 pin.
Min. door thickness 46mm.
For use with: 250-252; 250-253; 250-262; 250-263

50-1257



50-1257 Steel rotating suspension plate for M16 pin. Min. door thickness 46mm.
For use with: 250-253B; 250-1383

Guide rollers/accessories

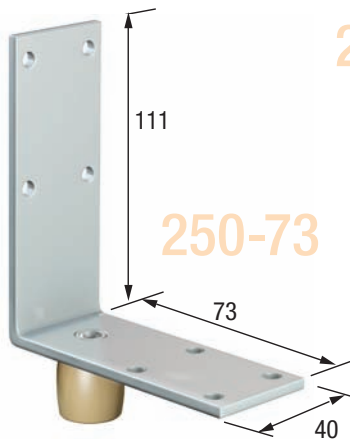


250-69 Steel guide roller with rotating brass pin 25mm diameter.

250-70 Steel guide roller with rotating brass pin 25mm diameter.

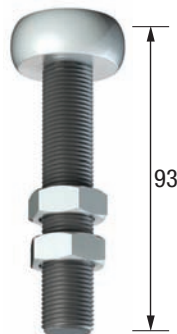
250-77 Twin steel guide roller with rotating brass pin 25mm diameter.

50-1298 Rotating brass pin 25mm diameter.



250-73 Steel side guide roller with rotating brass pin 25mm diameter. Minimum door thickness 40mm.

250-1271 250-268



250-1271 Guide roller M16 steel pin with 34mm steel roller.



250-268 Guide roller M12 steel pin with 25mm brass roller.



250-255 Door stop for the upper track.



AFJ 350 Polyester Resin 300ml Particularly suitable for anchoring studs and bolts into hollow walls and masonry. Fits in a standard sealant gun.

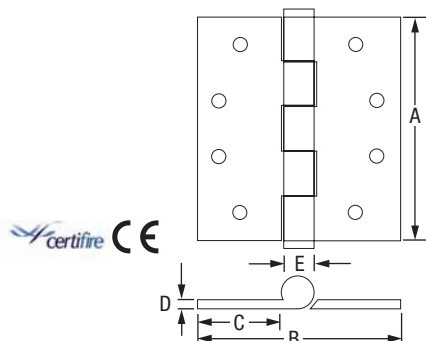
Other products available from Runners Sliding Systems



Ask for a brochure

Hinges

AIL 250



102mm Stainless Steel Ball Bearing Hinge

CE Grade 13

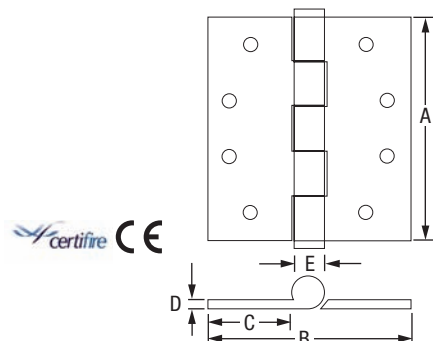
Up to 120kg door weight.

Tested to 200,000 Cycles.

Fixing screws supplied.

A	Height	102mm
B	Width	76mm
C	Leaf	30mm
D	Thickness	3mm
E	Knuckle	14mm

AIL 233



102mm Stainless Steel Ball Bearing Hinge

CE Grade 13

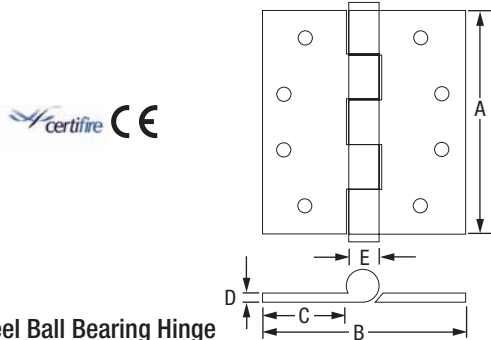
Up to 40kg door weight.

Tested to 200,000 Cycles.

Fixing screws supplied.

A	Height	102mm
B	Width	76mm
C	Leaf	32mm
D	Thickness	2mm
E	Knuckle	11mm

AIL 236



76mm Stainless Steel Ball Bearing Hinge

CE Grade 7

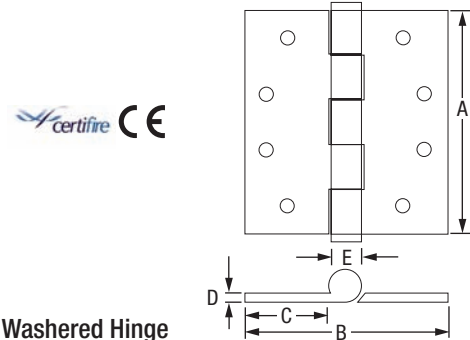
Up to 40kg door weight.

Tested to 200,000 Cycles.

Fixing screws supplied.

A	Height	76mm
B	Width	51mm
C	Leaf	21mm
D	Thickness	2mm
E	Knuckle	11mm

AIL 231



76mm Stainless Steel Washered Hinge

CE Grade 7

Up to 40kg door weight.

Tested to 200,000 Cycles.

Fixing screws supplied.

A	Height	76mm
B	Width	51mm
C	Leaf	21mm
D	Thickness	1.5mm
E	Knuckle	9mm

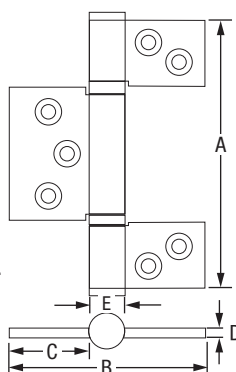
Non-mortice hinge



60-301

Premium quality ball bearing stainless steel hinge.
Finishes: satin stainless, polished stainless, polished brass.
Up to 100kg door weight.
Fixing screws supplied.
Minimum Door Thickness: 35mm.

A	Height	100mm
B	Width	72mm
C	Leaf	28mm
D	Thickness	3mm
E	Knuckle	16mm

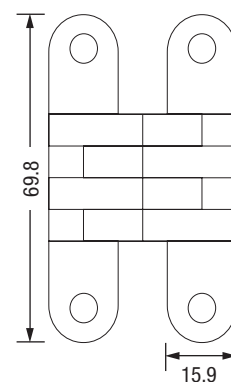


Invisible hinge

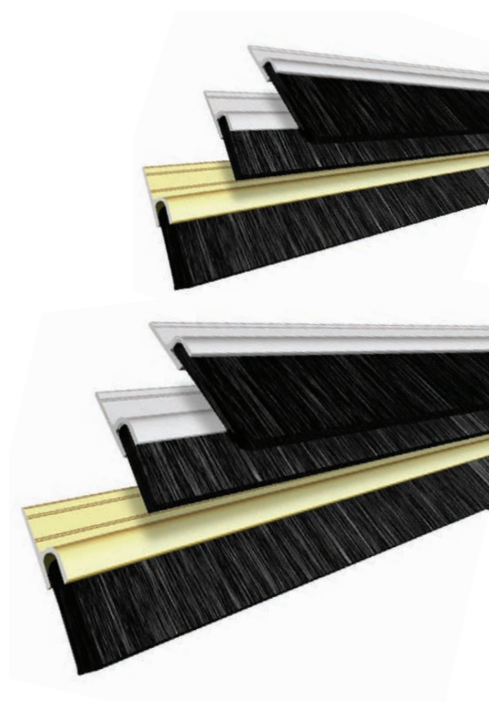


20-4401

Made of steel and zinc alloy.
Finishes: brass or nickel plated.



Brush strip



Standard

Part No.	Finish	Length	Bristle Length
10-100	Aluminium	914mm	22mm
10-101	Aluminium	2134mm	22mm
10-102	Gold	914mm	22mm
10-103	Gold	2134mm	22mm
10-104	Aluminium	2134mm	40mm
10-105	Aluminium	2134mm	50mm

Heavy duty

Part No.	Finish	Length	Bristle Length
10-200	Aluminium	3000mm	80mm
10-201	Black	3000mm	80mm
10-202	White	3000mm	80mm
10-203	Aluminium	3000mm	120mm
10-204	Black	3000mm	120mm
10-205	White	3000mm	120mm

Locks



10-900

Claw deadlocks - 5 lever

Part No.	Finish	Type	Case size	Backset
10-900	Brass	Standard key	76mm	57mm
10-901	Satin Chrome	Standard key	76mm	57mm

Claw deadlocks - Euro cylinder

Part No.	Finish	Type	Case size	Backset
10-902	Brass	Euro cylinder	76mm	57mm
10-903	Satin Chrome	Euro cylinder	76mm	57mm

10-910



10-908

High Security Padlocks

Part No.	Type	Operation	Size	Shackle
10-908	Diskus	6 disc	80mm	11mm
10-901	Diskus	5 pin tumbler	70mm	10mm
10-910	Granit plus	7 disc	78mm	14mm
10-911	Shutter lock	5 pin tumbler	80mm	12mm



10-911

Bolts



Door bolts - straight

Part No.	Finish	Length
10-300	Epoxy black	300mm
10-301	Epoxy black	450mm
10-302	Epoxy black	600mm
10-303	Galvanised	300mm
10-304	Galvanised	450mm
10-305	Galvanised	600mm

Door bolts - monkey tail handle

Part No.	Finish	Length
10-401	Epoxy black	300mm
10-402	Epoxy black	450mm
10-403	Epoxy black	600mm
10-404	Galvanised	300mm
10-405	Galvanised	450mm
10-406	Galvanised	600mm



Padbolts - 13mm shoot

Part No.	Finish	Length
10-501	Galvanised	150mm
10-502	Galvanised	200mm
10-503	Galvanised	300mm

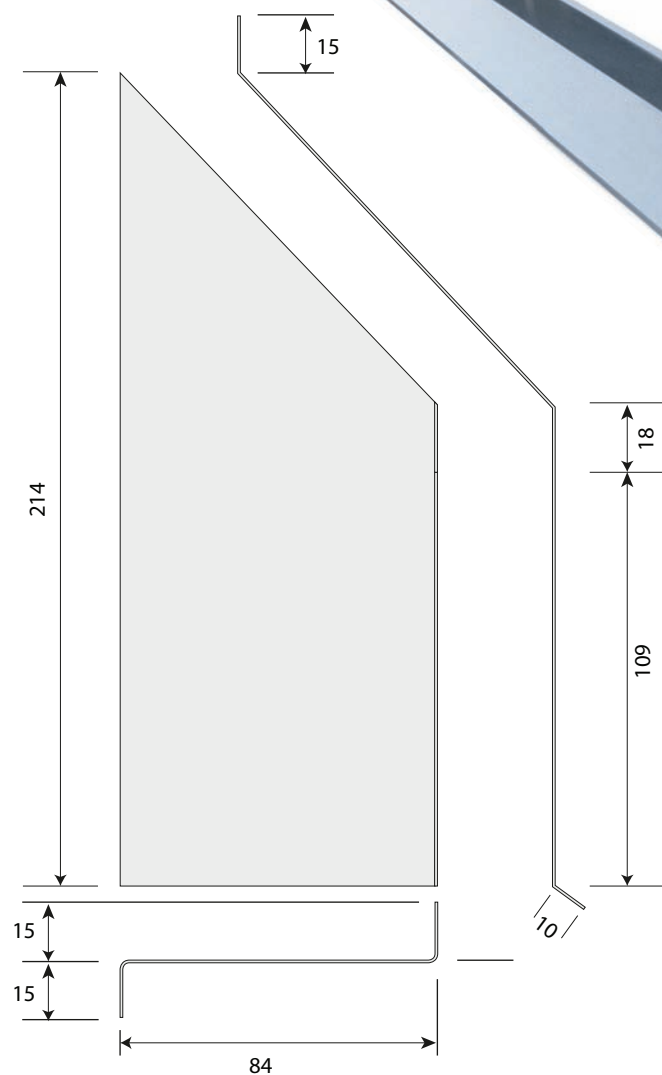


Hasp & staple - heavy duty

Part No.	Finish	Size	Pattern
10-601	Galvanised	200mm	Standard
10-602	Galvanised	250mm	Standard
10-603	Galvanised	150mm	Vertical
10-604	Epoxy black	150mm	Vertical
10-605	Galvanised	200mm	Swivel
10-606	Galvanised	250mm	Swivel
10-607	Epoxy black	200mm	Swivel
10-608	Epoxy black	250mm	Swivel



Canopies



All measurements are in millimetres

Weathershield canopy,
galvanised - 2.4m

10-110

Weathershield canopy
end caps, 1 pair

10-111



Handles

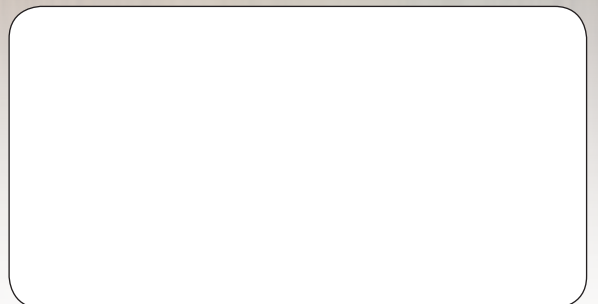


Standard

Part No.	Type	Length	Finish
10-701	Hot Bed	6"	Galvanised
10-702	Hot Bed	6"	Epoxy Black
10-707	Heavy cast	8"	Galvanised
10-703	Pressed Steel	8"	Galvanised
10-704	Pressed Steel	8"	Epoxy Black
10-705	Flush pull	120mm	Satin Stainless Steel
10-706	Flush pull	90mm	Satin Stainless Steel



Available from:



Other products available from Runners Sliding Systems



**multirail
& SMARTSPRAY**
Overhead Runway Systems



trakkit
Sliding Door Kits



tommafold® Architectural Folding Door Systems
for Timber Doors



Signal Hill
Lenborough Road
Gawcott
Buckingham
MK18 4BU

UK & Europe Sales:
Tel: 00 44 (0)1280 822288
Fax: 00 44 (0)1280 813024
Email: sales@runners-sales.com
Web: www.runners-uk.com