



**ELTRAK**



**SLIDING DOOR SYSTEMS**

**PRODUCT  
INFORMATION GUIDE**



### *Our Company ~*

Eltrak International & Staff Pty Ltd is the flagship company of Vater Corporation (Aust) Pty Ltd, which had its beginnings in South Australia's mid north in 1960. It was then that Lance Vater founded an engineering company called Electroweld Sales Pty Ltd, which soon expanded its rural engineering focus into rural and industrial construction. By the late 1960's Electroweld was a major force in the South Australian construction industry and had built some of the most well known wineries of the Mid North and South East wine regions.

During this period Lance found that one of the most troublesome facets of Electroweld's industrial building construction was the after sales maintenance of sliding door equipment which had to be sourced from interstate and was frequently of an inferior standard. Lance was determined to rectify this and undertook to design and manufacture his own range of high quality, reliable and cost effective sliding door systems.

After constructing the first rollforming mill, and developing a complementary range of bracketry and carriages, Electroweld began installing the new equipment throughout South Australia. It did not take long for other local and interstate contractors to become aware of the new dependable range of sliding door equipment and approach Electroweld to supply them for their own construction projects. Less than six months from first production it was apparent that the potential for this new product was enormous, and it was quickly decided to redirect the focus of the company from building & construction to sliding door equipment manufacture and distribution, a move that within only a few short years saw Electroweld become the major source of sliding door equipment across Australia.

By the 1970's the company had moved well away from its building & construction beginnings to focus entirely on sliding door manufacture, and the Eltrak International name replaced Electroweld as an identity clarification. The business continued to grow and diversify under the new name, and in the mid 1980's established its Elgate range of fence and gate fittings in response to market requests for more effective products in the rural and industrial sectors. The Elgate fittings proved immediately popular for their quality and value, taking the new range to Australian market leader in less than ten years.

Eltrak International's success has been gained through hard work and determination. Our deserved reputation for innovation and achievement, earned by our unswerving commitment to develop innovative, useful and practical new products to benefit our industry has been evidenced over the years by the presentation of many awards, among those the Telstra Small Business Award, the Australia Day Council Business Award, and an Australian Design Award for Engineering.

Vater Corporation (Aust) Pty Ltd now employs more than 120 staff in four states, in such diverse areas as manufacturing, marketing & distribution, aquaculture, and property development. The **ELTRAK** and **ELGATE** brands have become synonymous with premium quality and value for money, recognised and elevated by their peers to market leadership in very different industries. Now with over 35 years as a manufacturer of sliding door equipment, and more than 20 years in the fencing industry, our experience is built into every product we sell, and that is your guarantee of satisfaction. Or as we like to say ..

*That's the Eltrak Advantage.*

### *The Eltrak International Advantage.*

- Service:** Our 24 hour dispatch policy backed by extensive stock holdings means off-the-shelf availability and fast to your door delivery for most orders.
- Quality:** Your guarantee of quality is our accreditation to International Standard ISO9001 by Standards Australia. Licence No 3846.
- Design:** Our products are renowned for their innovation and aesthetic appeal, designed to be practical, versatile, safe, economical, durable and good looking.
- Innovation:** is our trademark, we constantly strive to stretch the boundaries of contemporary ideas and provide fresh, new practical solutions to everyday problems.
- Range:** Not only the most innovative of new products and designs available today, but the most comprehensive range for almost every need.
- Packaging:** We lead the way in packaging and labelling, with reusable cartons for stock storage, convenient pack quantities and informative bar-coded labelling.
- Price:** We offer individual pricing and delivery arrangements designed to ensure our clients' competitive position in their industry sector.
- Position:** Eltrak are well known and recognised as the market leaders in our industry and gladly share the strength and stability of this position with our customers.
- Reputation:** Our reputation is built on excellence, and our record of price, service, quality, product, range, design, innovation, and customer support is unchallenged.
- Support:** We continue to support our market with firm pricing & distribution policies, comprehensive product specification manuals and expert advice.
- Stability:** We are committed to the long-term advancement of both our company and our industry, demonstrated and strengthened through mutually rewarding & beneficial trading relationships with our suppliers and customers alike.

*Eltrak International & Staff Pty Ltd* holds its market leading position because of its commitment to provide only the very best in service and product excellence, and will continue to support our industry with an unequalled investment in technological advancement, design innovation, product development and customer satisfaction. We are determined that our customers will continue to benefit and grow as they share our successes, and recognise that the true value of our business is the client we serve well.





# ELTRAK

## SLIDING DOOR SYSTEMS

### *The Eltrak Sliding Door Advantage.*

- *Founded in the Building Construction Industry*
- *10 Years of ongoing testing & design development in actual installations*
- *Over 30 years experience in sliding door equipment and construction*
- *Still the only manufacturer to offer:*
  - *tried & tested wheel to track design compatibility*
  - *the world's only side thrust carriage designed for harsh wind load conditions*
  - *proven sealed roller bearings for long life and trouble free operation*
  - *long pins, loose captured centre bolts and hardened thrust caps*
  - *a lightweight on site assembly door framing system with no welding*
  - *a complete and comprehensive range of support brackets and installation options*

**Track:** Our track is designed from experience! It was extensively tested and developed in our own construction company for more than 10 years. Eltrak does not design and manufacture heavy gauge track for a very good reason ~ our experience proves that the track must be able to deflect to encourage proper carriage operation and long track life. Eltrak's door track and carriage wheels have been designed together to provide the optimum wheel to track contact which reduces wear between the metal components.

**Carriages:** Again designed, developed and tested in our own construction projects, and matched perfectly to our track for premium performance. We have proven the advantages of sealed needle bearings and hardened thrust caps for durability and long life. We have designed our long pins and loose captured centre bolts from our construction application experience. We are the only manufacturer who has recognised and solved the problem of wind load on large industrial doors with our patented side thrust technology. Eltrak carriages are the only carriages, tried, tested and proven in the field for over 30 years.

**Brackets:** Eltrak's support brackets offer not only the most comprehensive range of installation options, but also incorporate our years of experience. Our brackets have been designed individually and specifically for every installation option to ensure proper track seating and smooth reliable operation of the sliding door.

**Framing:** We are the only manufacturer to apply our knowledge and experience to the design of a lightweight cost effective door framing system that addresses the needs of the industry. Custom rolled sections easily transported and tek screwed together on site with no welding. Designed to accept standard cladding profiles, infill panels or even windows, and to be completely compatible with other Eltrak products.

***It is absolutely imperative that each sliding door component be designed in conjunction with, and to complement the technical requirements of every other component in the series, to ensure correct operation, compatibility and long life. Copies and 'one-off' designs just won't give long-term reliability in the field.***

***That's why we call it a Sliding Door System!***

### *Why You Should Choose Eltrak Sliding Doors*

- *No Loss of Headroom*
- *Full Door Height Openings*
- *Unlimited Door Opening Width*
- *Unlimited Cladding & Infill Options*
- *Less Damage Prone & Easy On-site Repairs*
- *Add a Window or P.A. Door*
- *Open Only as Wide as You Need*
- *No Centre Mullions ~ Full Door Width*
- *Save on Building & Installation Costs*



### *Some Things You Need to Know*

*Eltrak Sliding Door components have been designed and engineered to give you years of trouble free operation. However, like all things mechanical they will need a little periodic maintenance and your adherence to a few simple basic rules ...*

#### ***Door Tracks***

DO NOT grease tracks- it can cause wheel slippage and excessive component wear

DO NOT weld tracks direct to support beams as it may cause distortion and weakening of the track preventing it from retaining the correct shape for efficient carriage operation and movement, and from bearing the specified door loads.

Tracks should always be hung using the correct Eltrak support brackets.

Tracks should only be joined by butting together inside support brackets or joining brackets.

#### ***Support Brackets***

Support Brackets must be installed at the recommended spacing. Always refer to the bracket spacing charts in the Eltrak Product Specification Guide for correct support bracket spacing.

#### ***Carriages***

Only two carriages should ever be used for each door panel.

#### ***Door Panels***

Never exceed the maximum recommended capacities for door weights.

Two or more doors should be used to reduce the size and weight of panels for large openings.

For best results the width of door panels should ideally be no more than about two thirds of door panel height

When selecting the correct Eltrak system for an installation, both door weight and height should be considered. The system chosen must meet maximum requirements for both weight and height. Wherever the requirements are different for each, the greater of the requirements should apply.

Where doors are installed to the external face of buildings, a weather hood or flashing should be installed to protect Eltrak sliding door components.

#### ***Floor Guides***

All sliding door systems incorporating Eltrak products should include an effective floor guide system. The use of an in ground floor guide channel is recommended for larger doors.

#### ***General***

The use of other manufacturer's and supplier's products in conjunction with Eltrak products is not recommended due to the engineered design matching of Eltrak tracks, carriages and brackets. Such use may void warranty and adversely affect the operation of your sliding door system.

## Which Eltrak Door Series for Me ?

That's Easy ... Just Count, 1, 2, 3.

1

Match your door by size, weight or application to the descriptions below



**LIGHT DUTY AND DOMESTIC FOR DOOR PANELS UP TO:**  
Recommended to 2.4m HIGH & 120 Kg  
*SLIDING DOOR TRACKS AND ACCESSORIES FOR GARDEN SHEDS & GARAGES*

**LIGHT INDUSTRIAL SERIES FOR DOOR PANELS UP TO:**  
Recommended to 3.0m HIGH & 200 Kg  
*SLIDING DOOR TRACKS AND ACCESSORIES FOR GARAGES AND SMALL INDUSTRIAL SHEDS*

**MEDIUM INDUSTRIAL SERIES FOR DOOR PANELS UP TO:**  
Recommended to 4.5m HIGH & 450 Kg  
*SLIDING DOOR TRACKS AND ACCESSORIES FOR MOST LARGER INDUSTRIAL & RURAL SHEDS*

**HEAVY INDUSTRIAL SERIES FOR DOOR PANELS UP TO:**  
Recommended to 6.0m HIGH & 650 Kg  
*SLIDING DOOR TRACKS AND ACCESSORIES IDEAL FOR LARGER OPENINGS & HEAVY DOORS*

**ROUND CORNER PANELS TO:**  
Recommended to 3.0m HIGH & 100 Kg  
**BIFOLD DOOR PANELS 25 TO:**  
Recommended to 2.4m HIGH & 100 Kg

*TRACKS AND ACCESSORIES SUITABLE FOR LIGHT DUTY BIFOLD & CORNER APPLICATIONS*

**ROUND CORNER PANELS TO:**  
Recommended to 4.5m HIGH & 200 Kg  
**BIFOLD DOOR PANELS 25 TO:**  
Recommended to 3.6m HIGH & 200 Kg

*TRACKS AND ACCESSORIES SUITABLE FOR LIGHT DUTY BIFOLD & CORNER APPLICATIONS*

2

Note the Series Name that matches your door



**Graduate 120**

**Director 200**

**Matador 450**

**Hercules 650**

**Light Duty Bifold & Round Corner**  
(Use Director 200 Components)

**Heavy Duty Bifold & Round Corner**  
(Use Matador 450 Components)

3

Find it fast using these colour coded symbols



**SERIES 120**

**SERIES 200**

**SERIES 450**

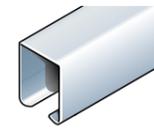
**SERIES 650**

**LIGHT 100**

**HEAVY 200**

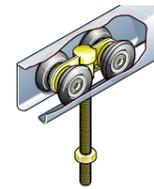
Please refer to the current Eltrak Product Specification Guide for a comprehensive product list including dimensions and specifications.

## What Will I Need for My Sliding Door ?



### Door Track

Custom rolled to your own length requirements from premium pre galvanised steel. Remember to specify both number required and rolled length. Generally the length of track required is approximately twice the width of the door opening.



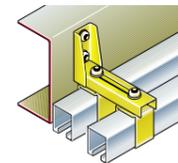
### Carriages

Choose from standard steel wheels with needle bearings for long life, or two and four wheel nylon tyre models for smoother operation and less noise for indoor applications and Eltrak's exclusive Trackmaster Series of sidethrust carriages designed specifically to beat high wind load.



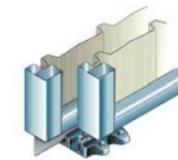
### Track Support Brackets

Standard bolt on or weld on support brackets provide simple installation. Choose your brackets for overhead fix or sidefix, and calculate the number required according to door weight from the spacing chart supplied. Never weld door tracks in position, as welding can distort the metal and does not provide the necessary support for proper door operation.



### Special Purpose Brackets

Many special purpose brackets are available for difficult, unusual, or multiple track installations. Choose brackets to fit within cladding profiles, for multiple track door centre adjustment, cavity wall fixing, attaching flashings, or many other special applications.



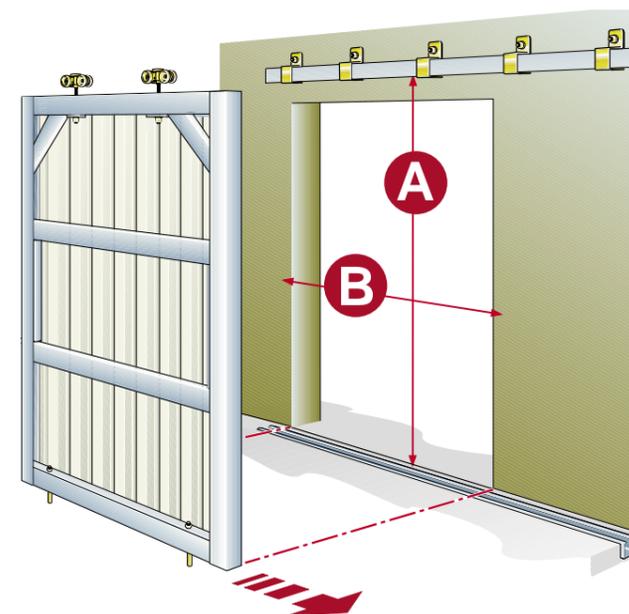
### Floor Guides

An effective floor guide system is a necessary part of any sliding door system. Choose inground guides that can be installed during building construction, or above ground guides for existing installations. Use guide pins as an economical solution, or guide angles for a more robust guide that will also help seal the opening when the door is closed.



### Door Framing

Custom rolled to your own length requirements from premium pre galvanised steel. Make your own doors quickly, on-site and without welding. Just tek screw together. Use EF4 Custom Rolled Door Framing for the perimeter frame including uprights and top & bottom members of your door panels. Use EB2 Custom Rolled Backing Rail for cross bracing and strengthening inserts. Remember to specify both number required and rolled length.



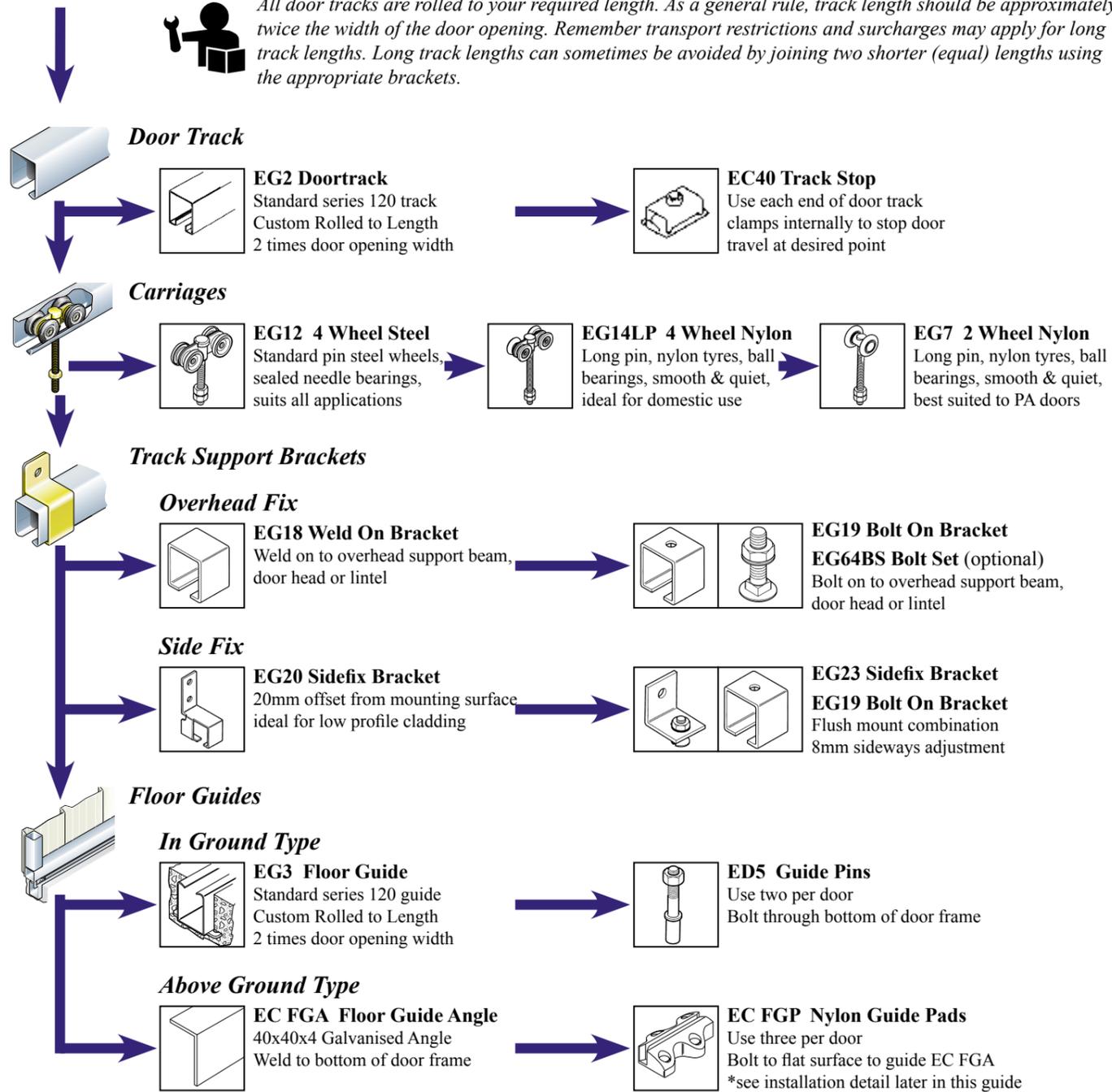
For more detailed information on topics such as;

- Special Purpose Brackets
- How to Beat High Wind Loads
- How to make your own Sliding Doors, or
- How to use Nylon Floor Guide Pads

..... see the special information pages later in this guide or refer to the current Eltrak Product Specification Guide.

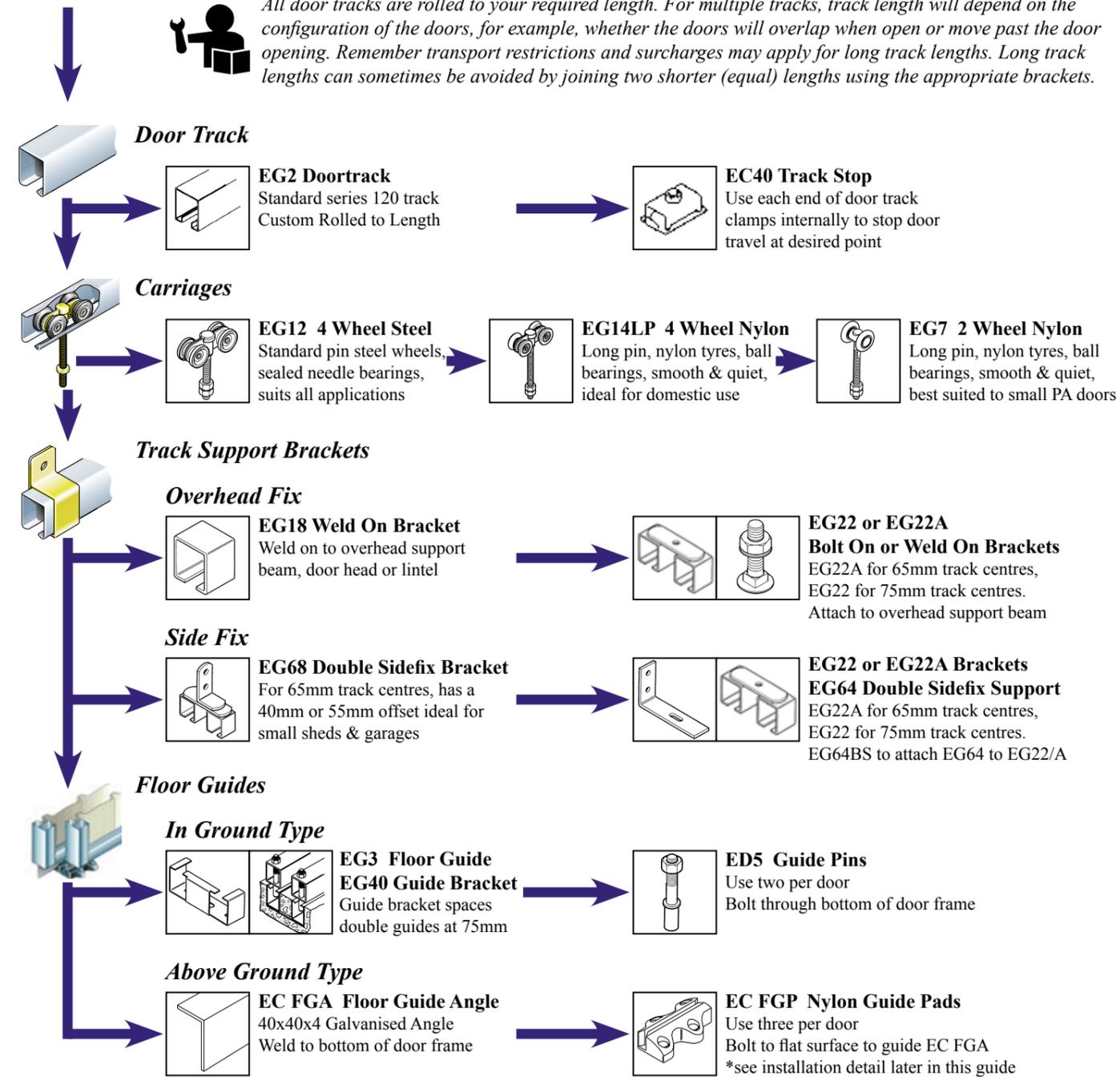
**SERIES 120 Component Selection: Single Track**  
Single or Multiple Doors to 120kg each panel

All door tracks are rolled to your required length. As a general rule, track length should be approximately twice the width of the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.

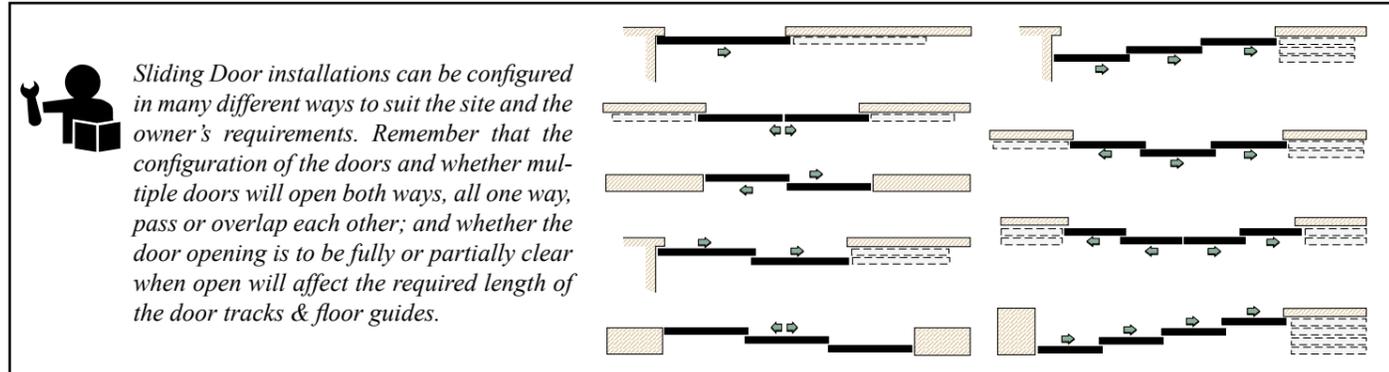


**SERIES 120 Component Selection: Double Track**  
Single or Multiple Doors to 120kg each panel

All door tracks are rolled to your required length. For multiple tracks, track length will depend on the configuration of the doors, for example, whether the doors will overlap when open or move past the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.

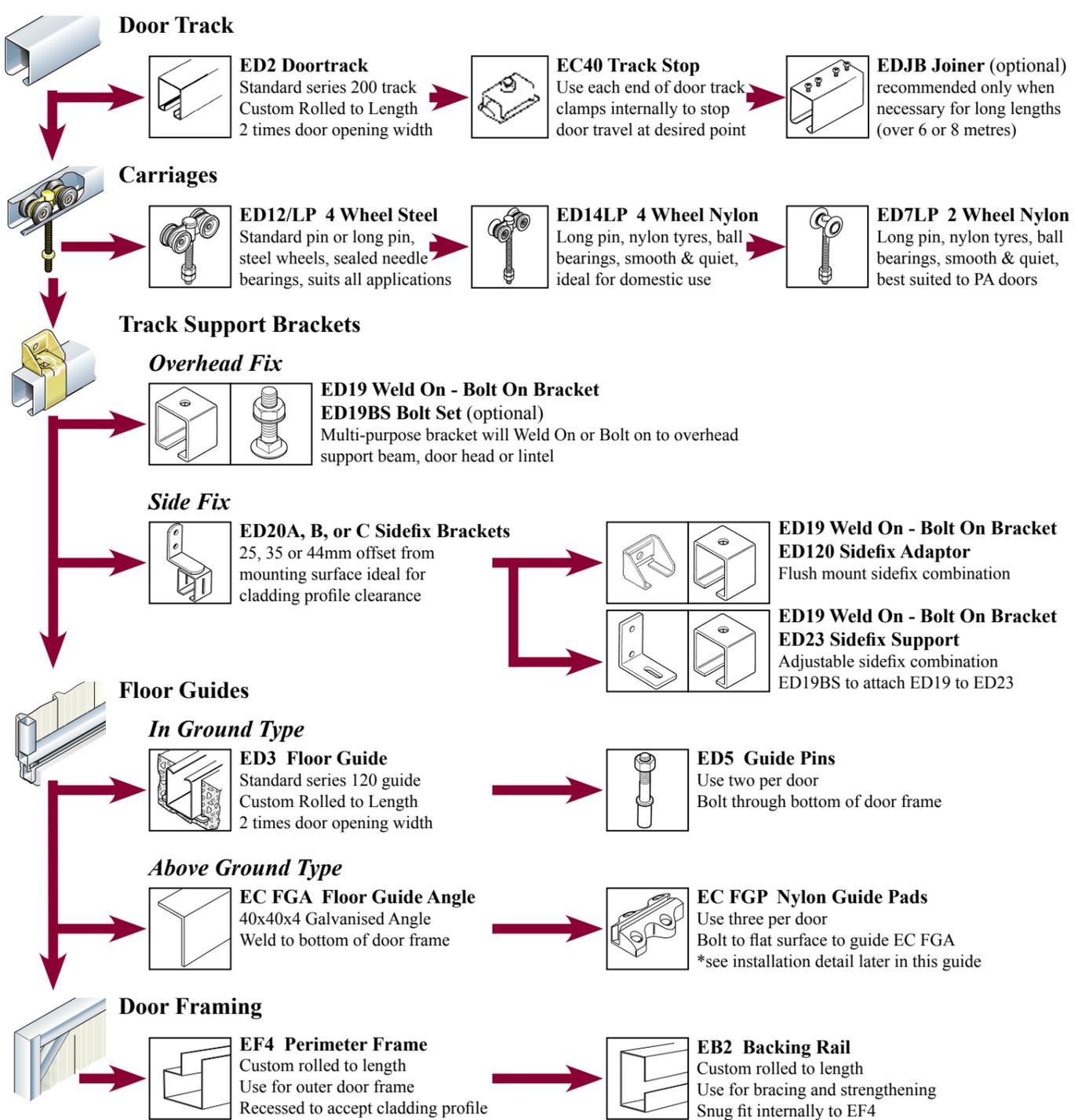


Eltrak Door Framing is not suited to Graduate 120 Series components and should not be used in conjunction with this light duty sliding door system. Eltrak EF4 Door Frame and EB2 Backing Rail profiles are designed primarily for the Matador 450 and Hercules 650 Series and are too wide for use with Graduate hardware. The Door Framing can be used with Director 200 Series provided care is taken to specify the correct components suited to the width of the door frames. We recommend light square tube construction be used for Graduate 120 door frames.



**SERIES 200 Component Selection: Single Track**  
Single or Multiple Doors to 200kg each panel

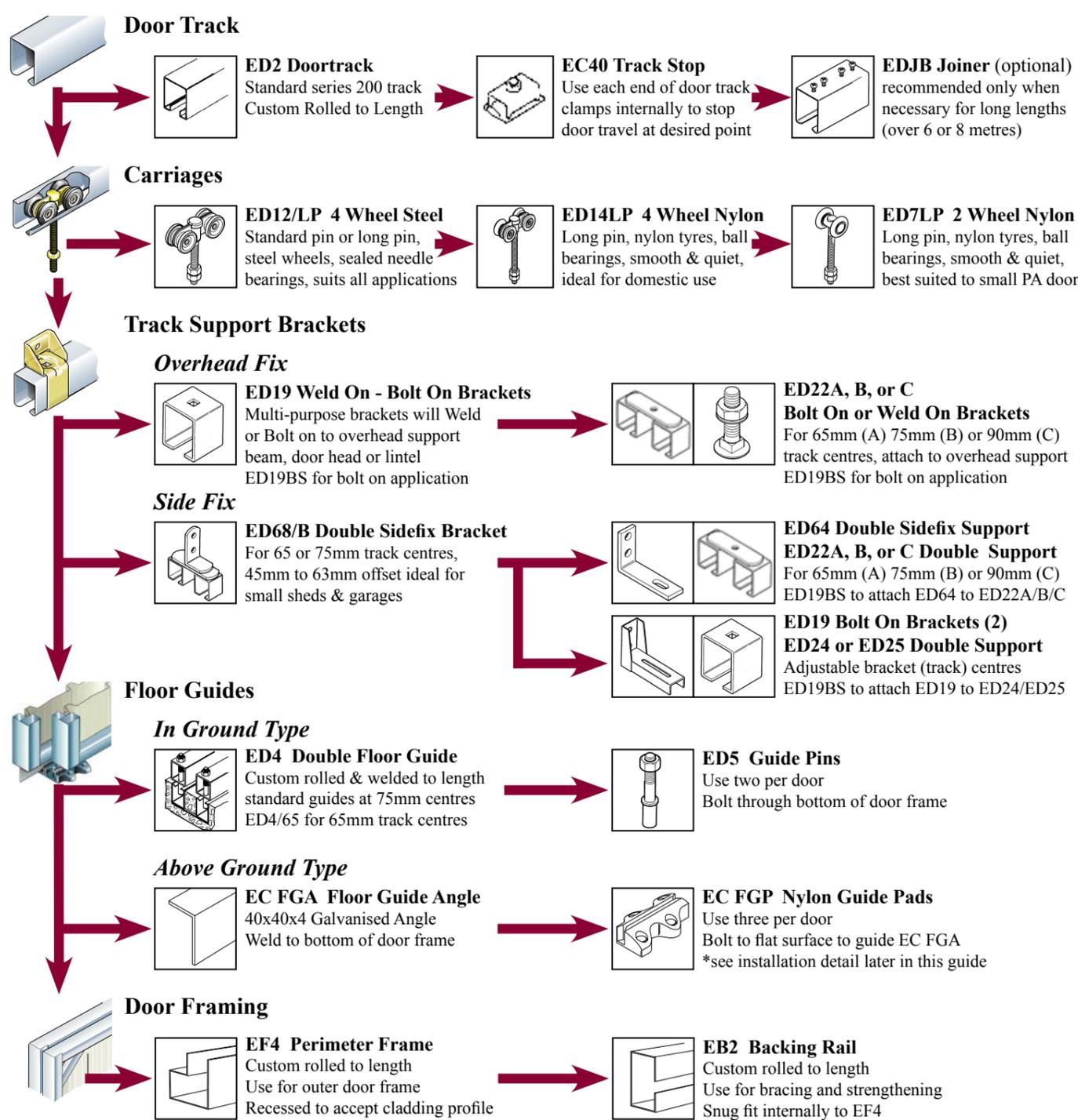
All door tracks are rolled to your required length. As a general rule, track length should be approximately twice the width of the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.



Care should be taken with door clearances when using Eltrak Door Framing with Director 200 Series hardware. Track positioning and Support Bracket selection must take into account an extra 16mm is required each side of the support bracket to allow for the width of the EF4 Framing profile. This is additional to normal door clearances that may have already been calculated.

**SERIES 200 Component Selection: Double Track**  
Single or Multiple Doors to 200kg each panel

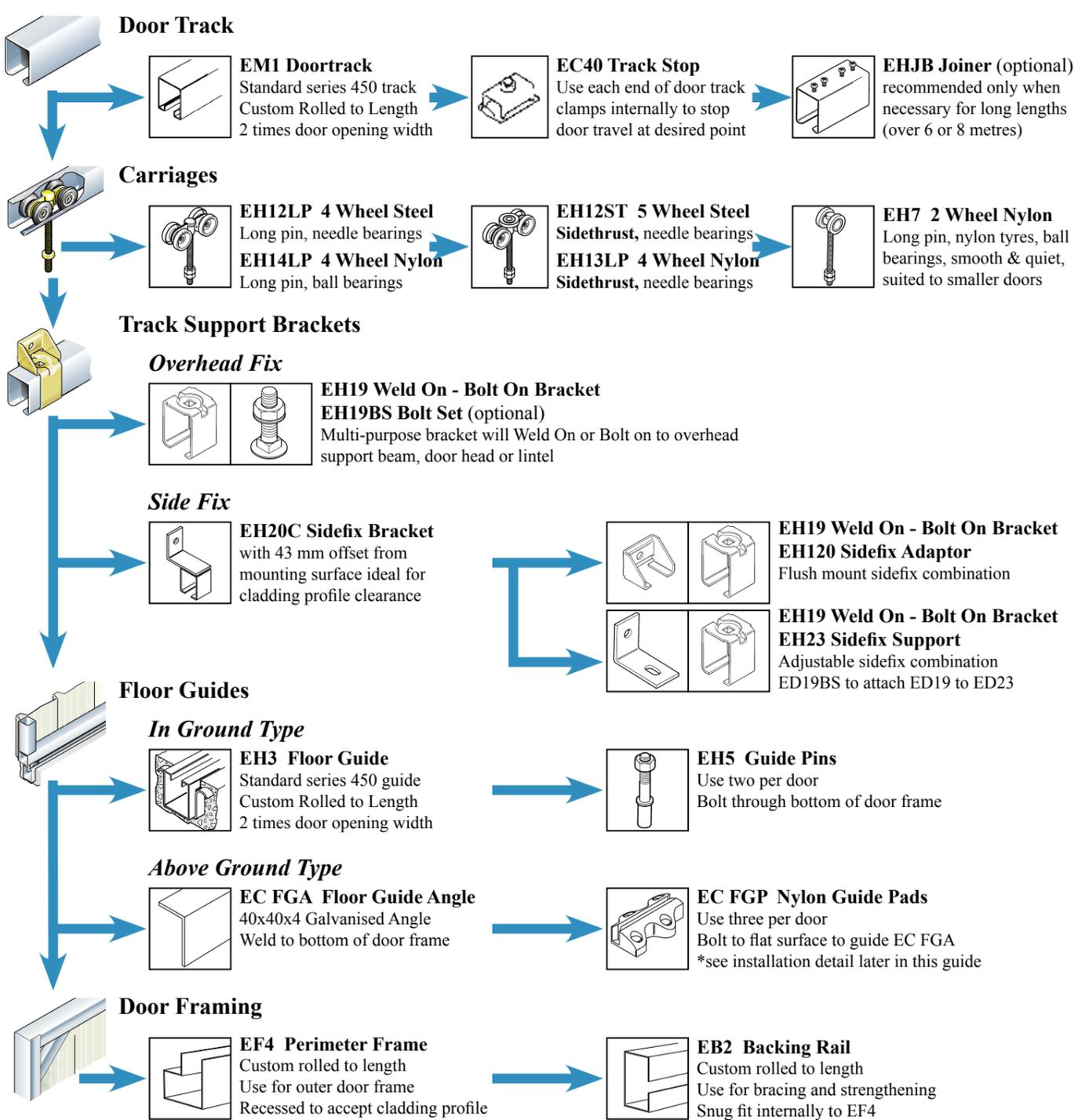
All door tracks are rolled to your required length. For multiple tracks, track length will depend on the configuration of the doors, for example, whether the doors will overlap when open or move past the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.



Care should be taken with door clearances when using Eltrak Door Framing with Director 200 Series hardware. Track positioning and Support Bracket selection must take into account an extra 16mm is required each side of the support bracket to allow for the width of the EF4 Framing profile. This is additional to normal door clearances that may have already been calculated.

**SERIES 450 Component Selection: Single Track**  
Single or Multiple Doors to 450kg each panel

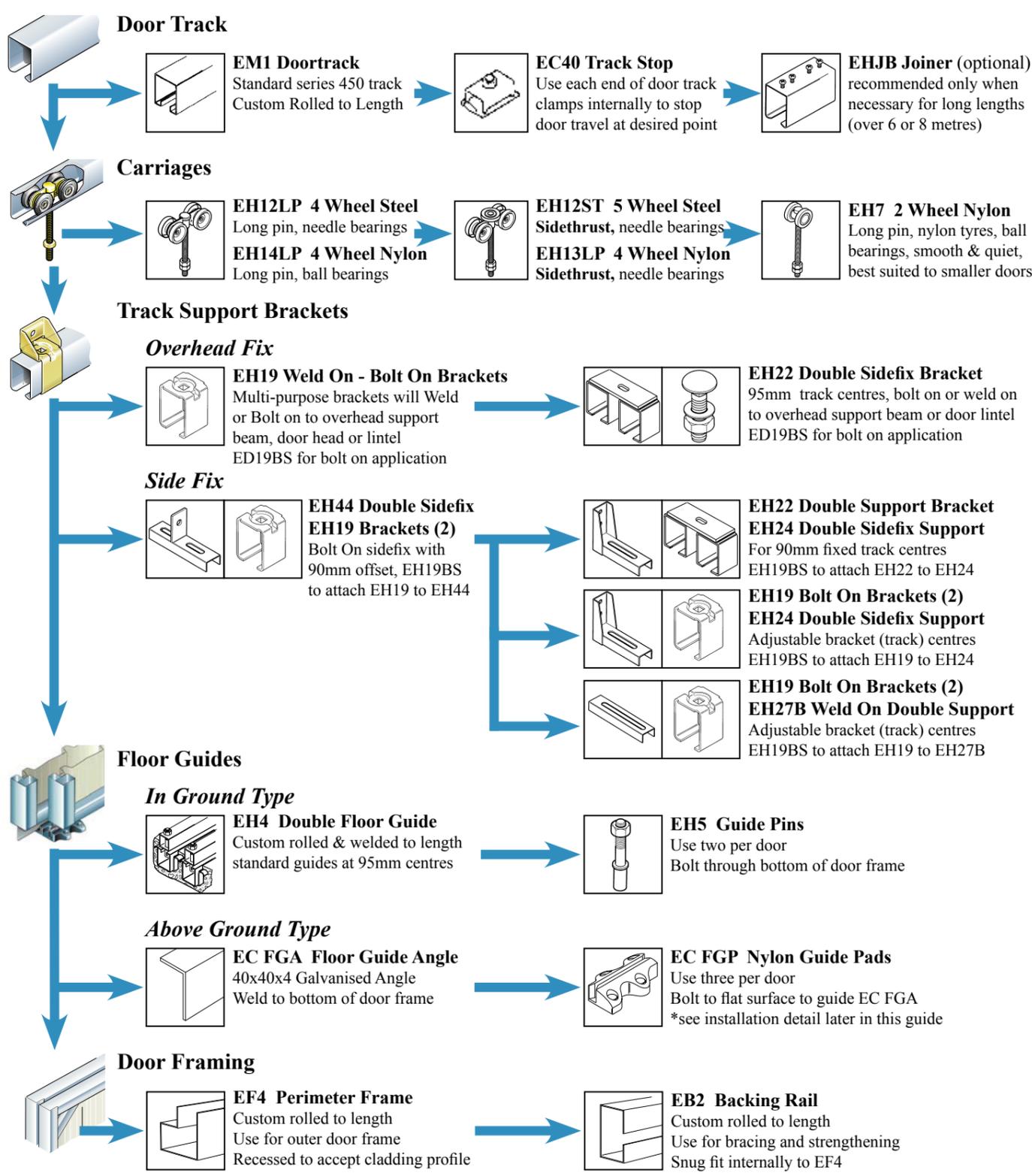
All door tracks are rolled to your required length. As a general rule, track length should be approximately twice the width of the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.



Care should be taken with door clearances when using Eltrak Door Framing with Matador 450 Series hardware. Single Track positioning and Support Bracket selection must take into account an extra 9mm is required each side of the support bracket to allow for the width of the EF4 Framing profile. This is additional to normal door clearances that may have already been calculated.

**SERIES 450 Component Selection: Double Track**  
Single or Multiple Doors to 450kg each panel

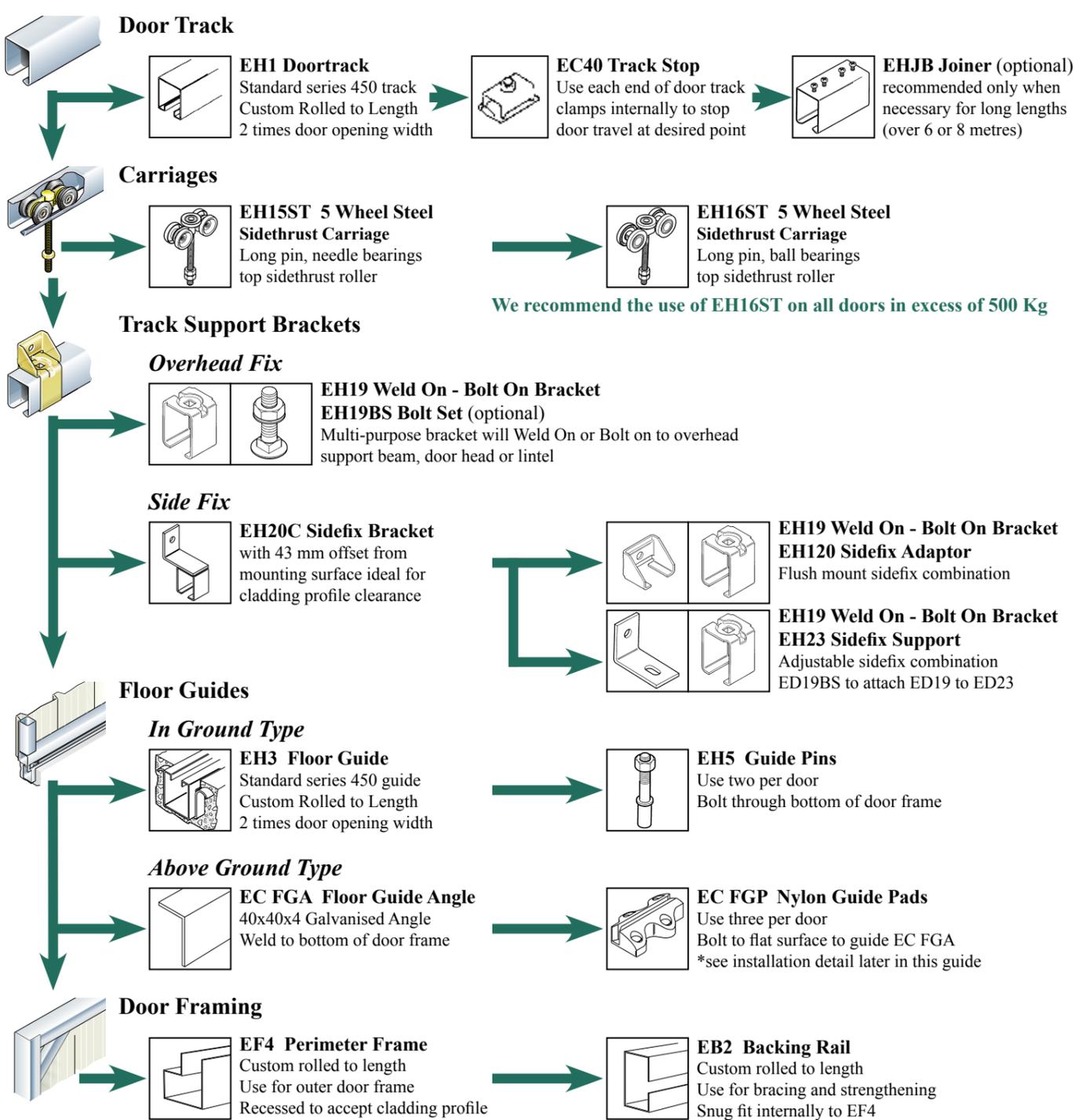
All door tracks are rolled to your required length. For multiple tracks, track length will depend on the configuration of the doors, for example, whether the doors will overlap when open or move past the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.



## SERIES 650 Component Selection: Single Track

Single or Multiple Doors to 650kg each panel

All door tracks are rolled to your required length. As a general rule, track length should be approximately twice the width of the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.

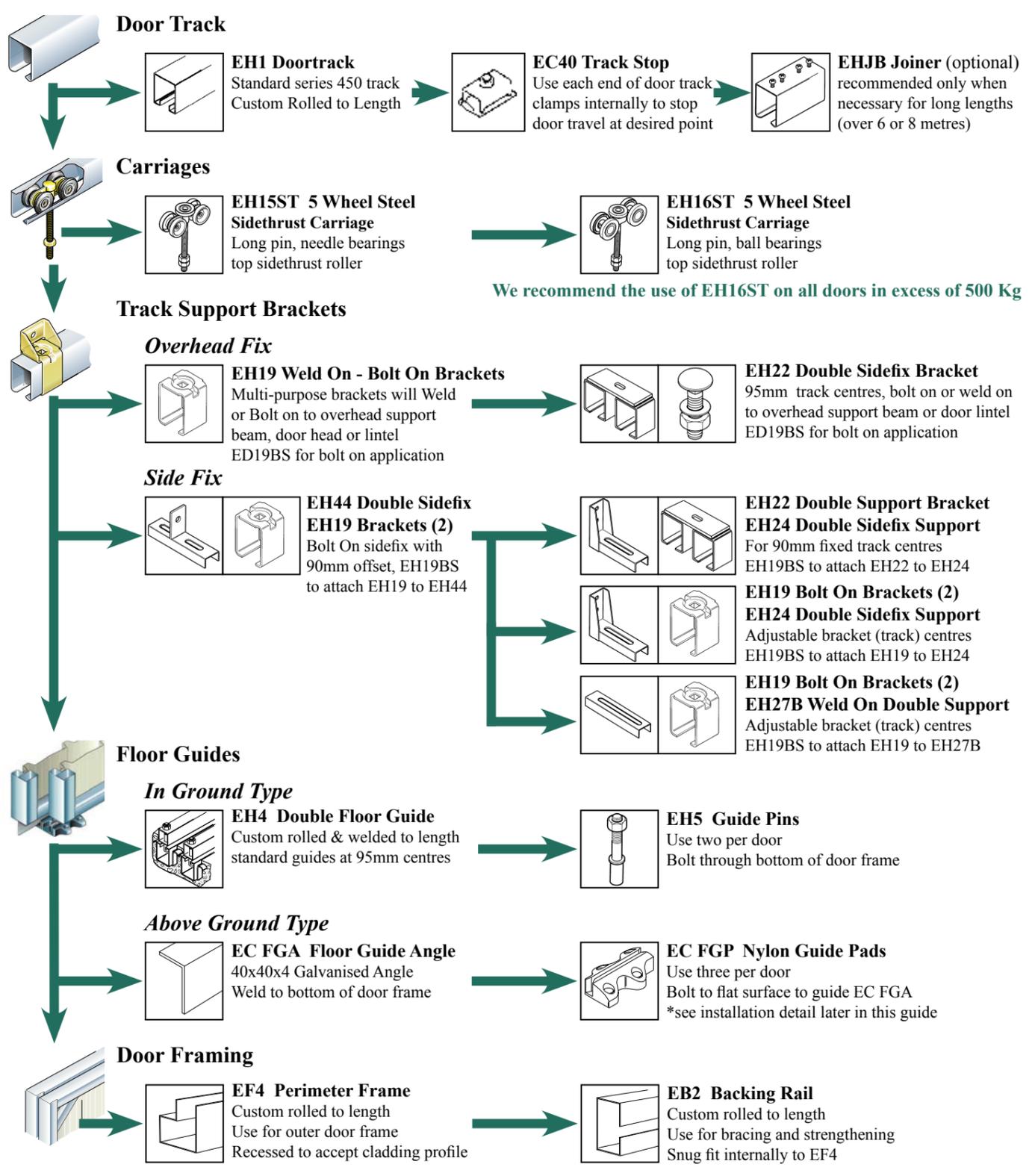


Care should be taken with door clearances when using Eltrak Door Framing with Hercules 650 Series hardware. Single Track positioning and Support Bracket selection must take into account an extra 9mm is required each side of the support bracket to allow for the width of the EF4 Framing profile. This is additional to normal door clearances that may have already been calculated.

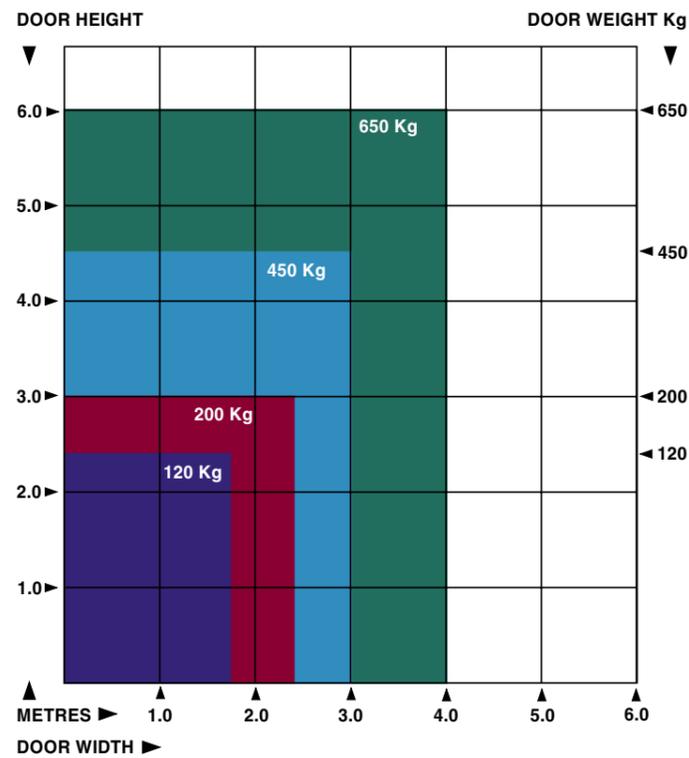
## SERIES 650 Component Selection: Double Track

Single or Multiple Doors to 650kg each panel

All door tracks are rolled to your required length. For multiple tracks, track length will depend on the configuration of the doors, for example, whether the doors will overlap when open or move past the door opening. Remember transport restrictions and surcharges may apply for long track lengths. Long track lengths can sometimes be avoided by joining two shorter (equal) lengths using the appropriate brackets.



## Recommended Door Panel Sizes:



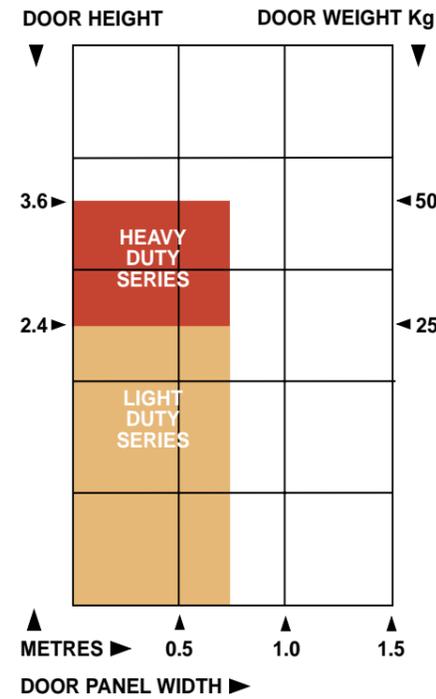
### Door Panel Sizes:

Use the colour code for the required door series. The bottom of the graph shows the average single door panel width for each series in metres, while the side measurements show the recommended panel height.

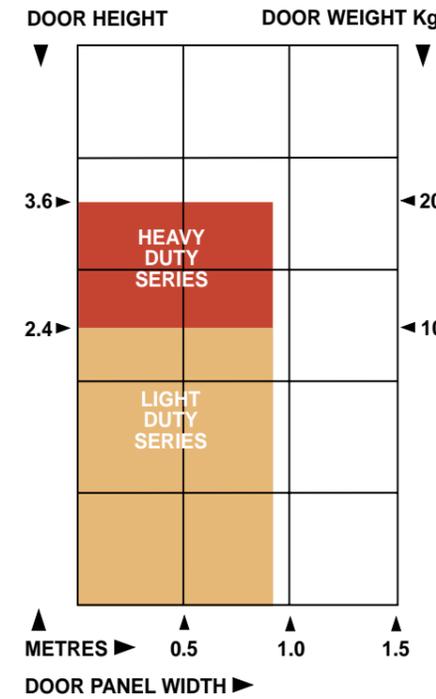
Recommended sizes may be safely exceeded in some circumstances, however you should seek technical advice from the manufacturer before deviating from any specification.

## Recommended Panel Sizes - Bifold & Corner

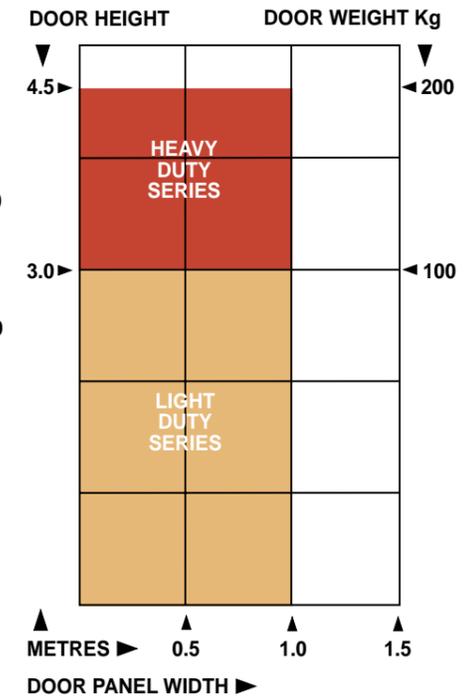
### BIFOLD END FIX & HINGE FIX



### BIFOLD CENTRE FIX ONLY

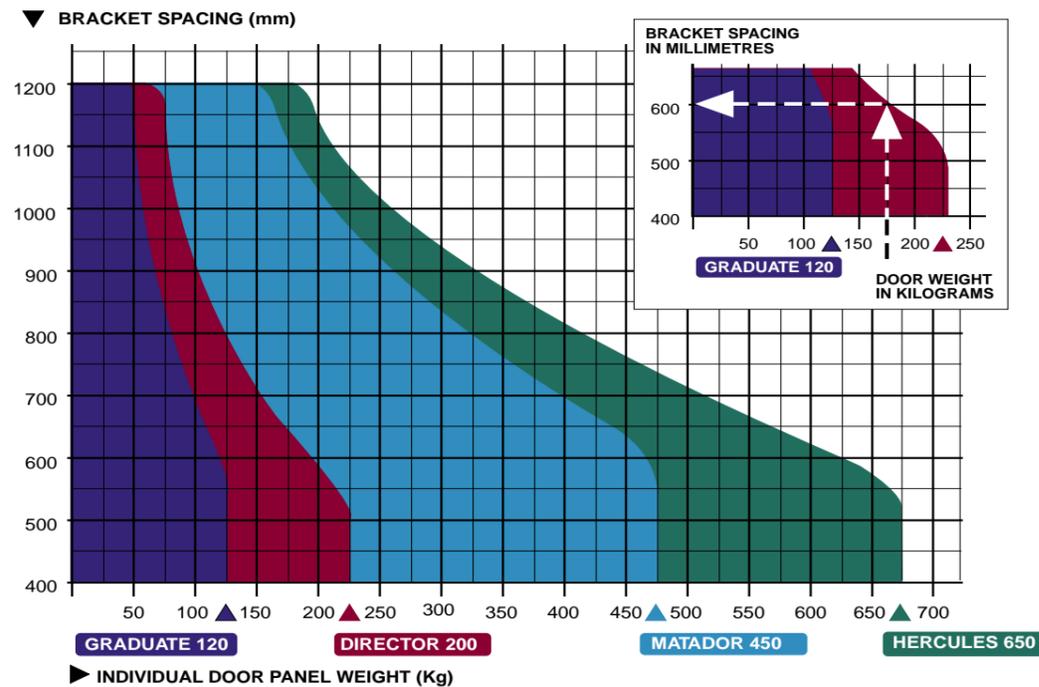


### ROUND CORNER SYSTEMS



## Support Bracket Spacing Guide:

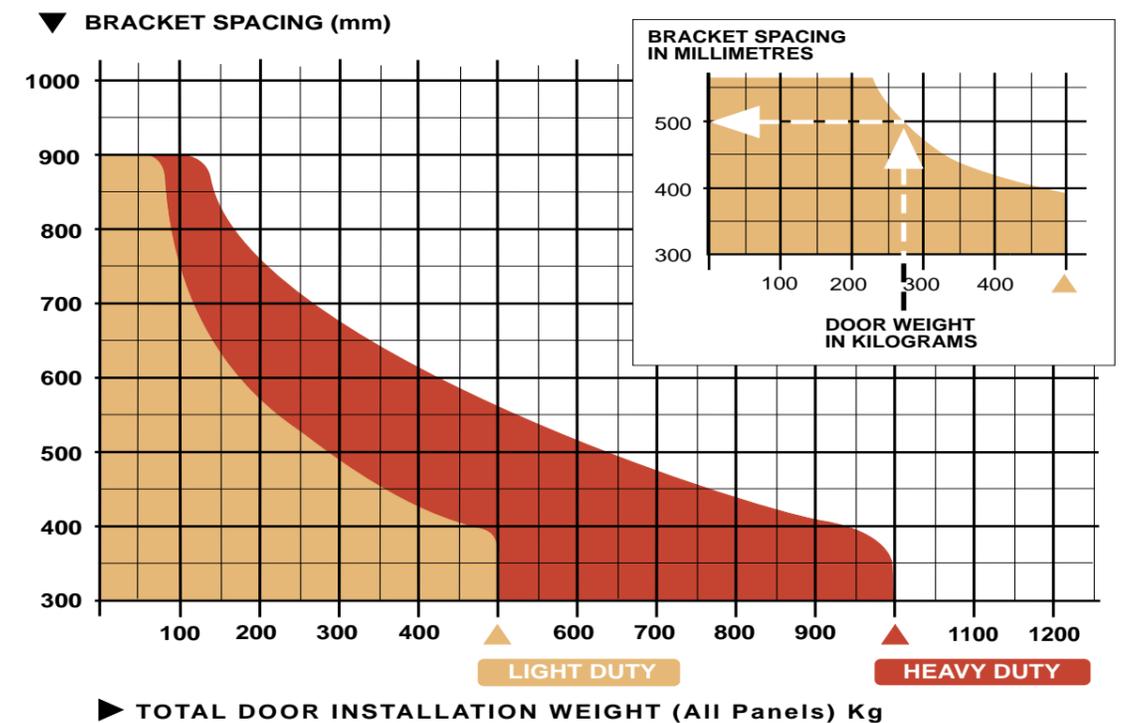
1. Use the colour code for the required door series, then find your door weight (individual panel) across the bottom of the graph.
2. Follow upwards in a straight line to the edge of the selected colour section.
3. Make a straight line to the left edge of the graph. The number shown indicates the correct spacing apart of support brackets in millimetres.



Calculate the correct support bracket spacings according to door weight on the chart above.  
**WARNING:** Incorrect bracket spacing or insufficient number of support brackets may cause premature component wear and poor operation of your sliding door system.

## Support Bracket Spacing Guide - Bifold & Corner

1. Use the colour code for the required door series, then find your door weight (individual panel) across the bottom of the graph.
2. Follow upwards in a straight line to the edge of the selected colour section.
3. Make a straight line to the left edge of the graph. The number shown indicates the correct spacing apart of support brackets in millimetres.



► **TOTAL DOOR INSTALLATION WEIGHT (All Panels) Kg**

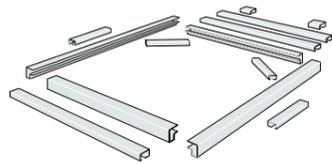
Calculate the correct support bracket spacings according to door weight on the chart above.  
**WARNING:** Incorrect bracket spacing or insufficient number of support brackets may cause premature component wear and poor operation of your sliding door system.

## How to Make Sliding Doors .. Quick & Easy

With Eltrak's exclusive Door Framing System. The simple, economical way to make sliding doors to your exact size requirements, on-site with no welding!

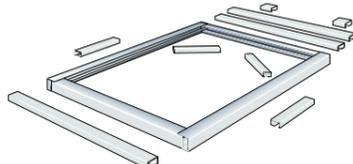
### With Six Easy Steps to Success ..

#### 1 Layout Components



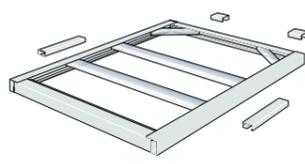
Layout the lengths of perimeter door framing & backing rail supports ready for assembly as shown above.

#### 2 Assemble Perimeter Frame



Position the perimeter frame sections, check height & width, and fasten with one tek screw in each corner. Square diagonals & fix with second tek screw.

#### 3 Fit Support Braces



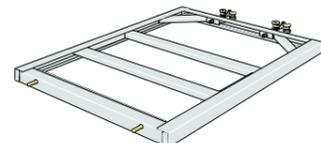
Position vertical push rails if required. Fit carriage mounting blocks & door guide blocks or full length bottom rail with one tek screw only.

#### 4 Square Up & Fix Push Rails



Position top corner angle braces, then horizontal backing rail supports at approx 1800mm spacings. Fix with one tek screw only each end.

#### 5 Fit Carriages & Guides



Fit door carriages and door guides. Square all sides and diagonals, then fix with tek screws as required, frame corners first, then horizontal rails.

#### 6 Turn Over & Fix Cladding



Turn over and check diagonals for square, tek screw each corner only. Fit cladding within the frame recess, tek screw to frame & horizontal braces.

### Use Our Simple D.I.Y. Size Calculations ..

#### A DOOR HEIGHT

Underside of door track to floor level less 50mm

#### B DOOR WIDTH

Opening width plus 30mm (min) for overlap each end

#### EF4 PERIMETER FRAMING

Vertical Members (door sides) =

A

Horizontal Members (top & bottom) =

B - 65mm

#### EB2 BACKING RAIL

Horizontal Cladding Braces =

B - 10mm

Fix at 1800mm (max) spacings when used with 0.49 trimdek or similar profile claddings

Carriage Mounting Blocks

- min. 100mm

Fix carriages 500mm (min) to 750mm (max) from door ends

Angle Braces - as required

- approx 600mm

Door Push Rails - optional

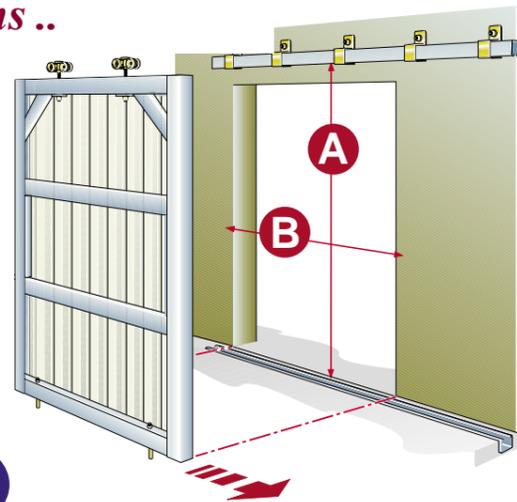
- approx 1000mm

CLADDING LENGTH

A - 70mm

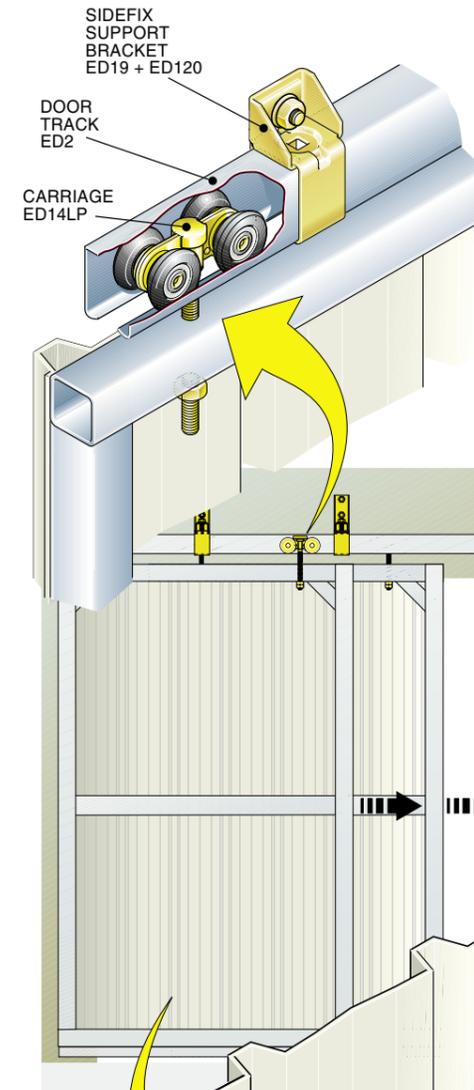


- Fitting of the Angle Braces at approx 45 degrees will give the correct positioning for the Carriage Mounting Blocks.
- We recommend fitting a full length EB2 Horizontal Brace inserted to the bottom EF4 horizontal member to strengthen the bottom of the door frame.
- Intermediate EB2 Horizontal Braces should be fitted at even spacings between top & bottom frame. Doors up to 2.6m high one only; 2.6 to 4.8m two braces; doors over 4.8m high minimum three braces.

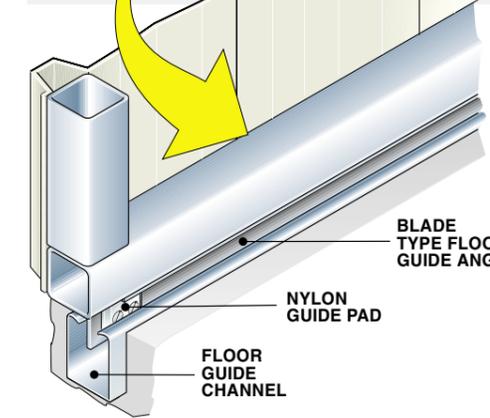
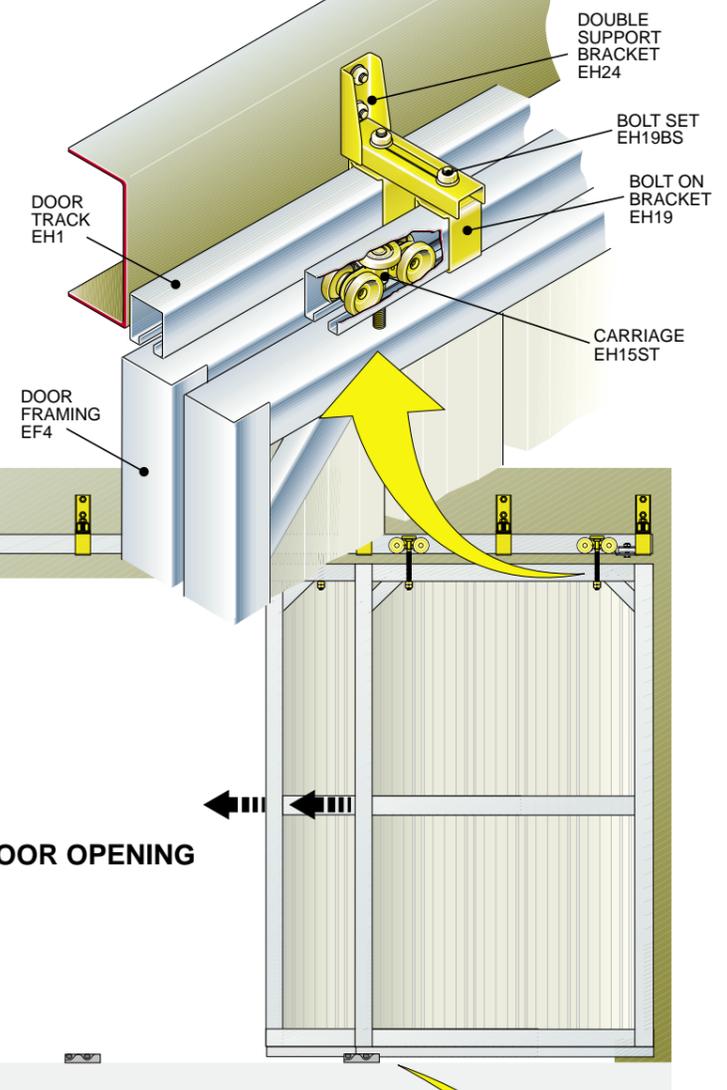


## Typical Sliding Door Installation Options

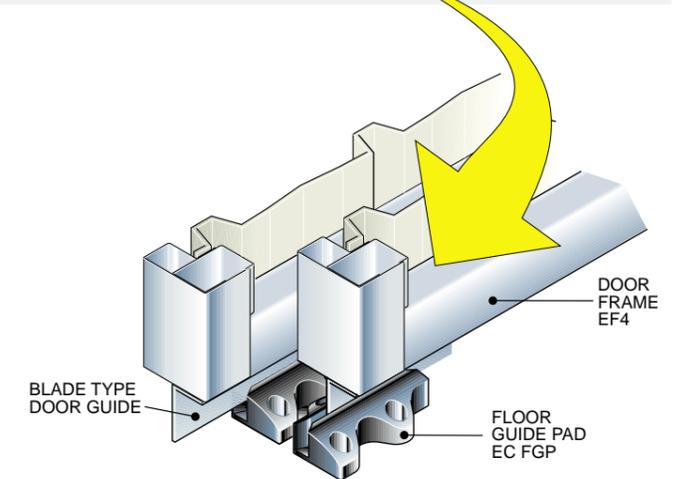
### Single Door Side Fixed



### Double Door Adjustable Side Fixed



Single Door In Ground Floor Guide



Double Door Surface Mount Floor Guide

## How to beat High Wind Loads ..

With Eltrak's exclusive range of patented Trackmaster sliding door carriages. The only carriages in the world designed to beat wind load - ideal for Australia's wide open spaces and strong wind conditions.

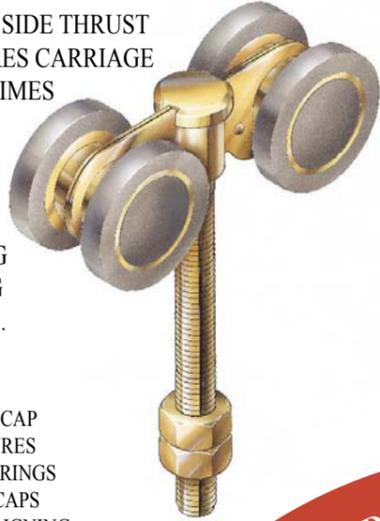
*"The only carriages in the world designed to beat wind load"*

### TRACKMASTER EH13LP

PATENTED DOMED SIDE THRUST WHEEL CAP CENTRES CARRIAGE IN TRACK AT ALL TIMES

COMBINED WITH NYLON TYRES REDUCES WEAR & DOOR HANDLING EFFORT IN STRONG WIND CONDITIONS.

- SIDE THRUST WHEEL CAP
- MOULDED NYLON TYRES
- SEALED NEEDLE BEARINGS
- HARDENED THRUST CAPS
- EXTRA LONG SELF ALIGNING CENTRE BOLT

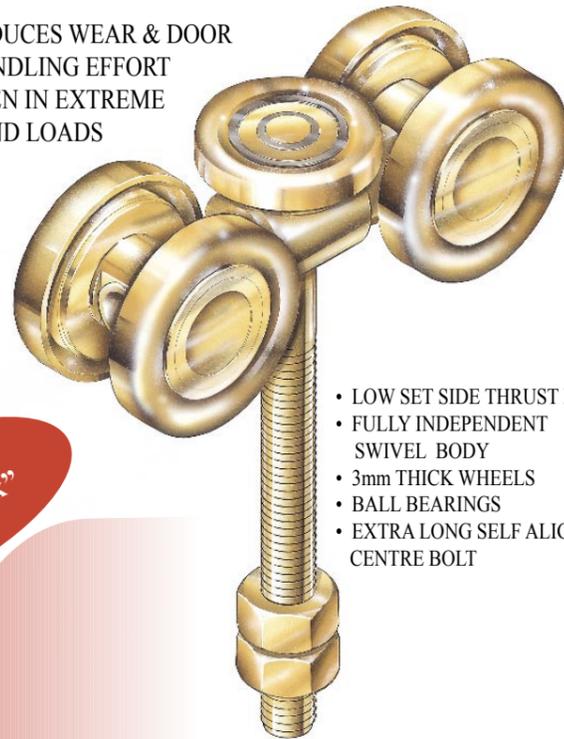


*"Patented Designs Exclusive to Eltrak"*

### TRACKMASTER II EH16ST

WORLD WIDE PATENTED SIDE THRUST TOP ROLLER CENTRES CARRIAGE IN THE TRACK AT ALL TIMES

REDUCES WEAR & DOOR HANDLING EFFORT EVEN IN EXTREME WIND LOADS



- LOW SET SIDE THRUST ROLLER
- FULLY INDEPENDENT SWIVEL BODY
- 3mm THICK WHEELS
- BALL BEARINGS
- EXTRA LONG SELF ALIGNING CENTRE BOLT

### Big Doors + High Wind = Increased Effort



Eltrak's range of Trackmaster carriages are designed for larger doors in the 200 to 650 kg class and also includes the EH12ST and EH15ST sidethrust models. For small doors Eltrak's nylon floor guide system will assist door operation in strong winds.

### Some Wind Load Facts ...

The following table illustrates just how much inward pressure is applied against a door surface area according to standard wind rating categories:

Wind Category	Wind Speed Metres/Sec	Dynamic Pressure Kg/Square Metre
Cat 1	46 mt/sec	113 kg/m <sup>2</sup>
Cat 2	41 mt/sec	91 kg/m <sup>2</sup>
Cat 2.5	38 mt/sec	79 kg/m <sup>2</sup>
Cat 3	24 mt/sec	62 kg/m <sup>2</sup>

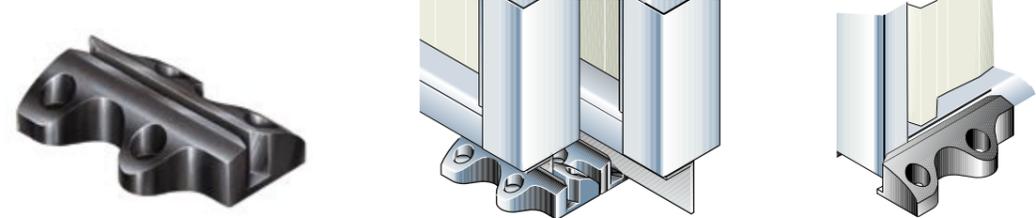
So in a typical category 2 wind rating area the wind load force applied to a reasonably common 4.0 m x 3.0 m shed door can be as much as 1 tonne! And that's why Eltrak sliding doors fitted with our exclusive Trackmaster carriages and nylon floor guide systems are the only doors that beat wind load.



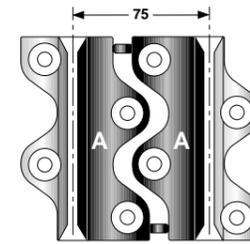
Eltrak's EH12ST and EH15ST carriages are also designed to beat wind load. Both feature steel wheels and sealed needle bearings, hardened thrust caps, long self aligning centre bolts and top sidethrust roller.

## Installation of EC FGP Nylon Floor Guide Pads

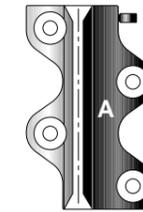
EC FGP BOLT ON U.V. STABILISED NYLON FLOOR GUIDE PAD FOR BUTT FITTING DOOR FRAME OR FULL LENGTH BLADE TYPE DOOR GUIDES.



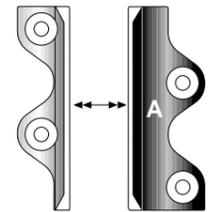
The Eltrak EC FGP nylon floor guide pad is manufactured from durable UV stabilised glass filled nylon to give extra long life in even the toughest traffic situations. The unique design provides complete flexibility for single or multiple door systems using full length blade type guides or can be butt fitted to the bottom door edge. Typically bolted to concrete floors in either new or existing installations, the guide pad is easily arranged to give standard predetermined 45, 55, 65 or 75 mm centres, or can be installed individually to any desired centre for any number of doors. The pads are supplied as individual units with one moulded spacer lug attached to provide a standard 75 mm centre configuration, and single units can be easily bolted in line or offset to suit your particular application. For use as butt fitting guides the single units may be cut along the conveniently slotted central guide channel and installed to one or both sides of the bottom door frame.



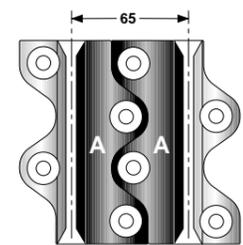
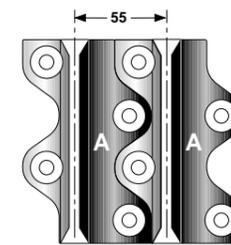
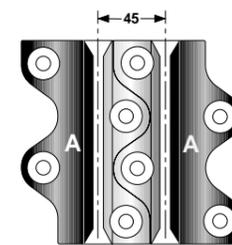
Floor guide pads are supplied with one spacer lug attached for 75 mm centres.



Use as single pads for individual doors, and remove the spacer lug if not required.



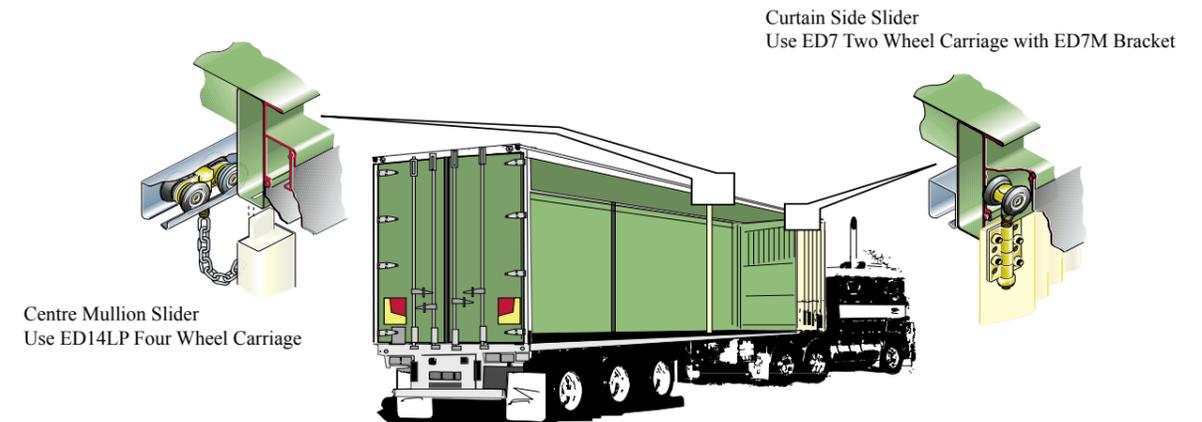
The pads can be cut through the centre to provide two separate guides that butt to door edges.



Arrange the separated pads as shown above to achieve either 45 mm, 55 mm, 65 mm or 75 mm centres.

HINT: For other door centres or installations of three or more doors, additional pads can be fitted together in line or offset to achieve multiple variations to suit your individual requirement.

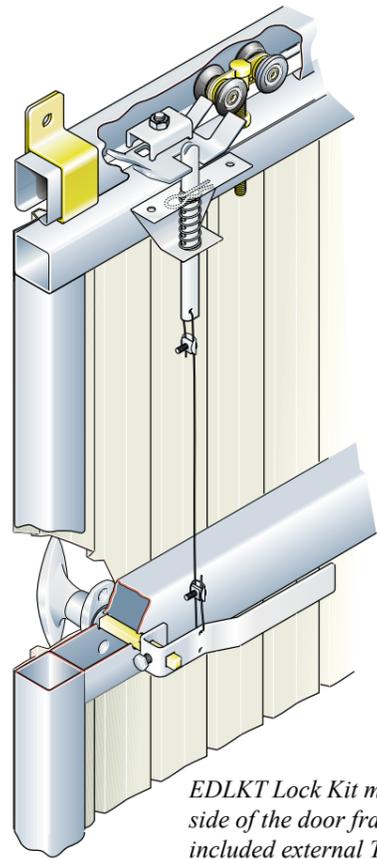
## Typical Installation of Tautliner Sides



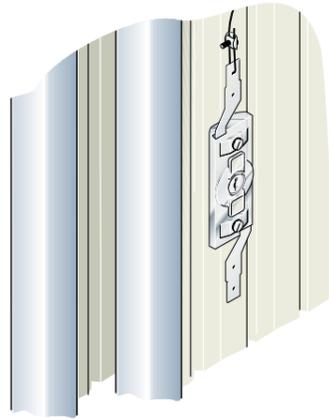
Centre Mullion Slider  
Use ED14LP Four Wheel Carriage

Curtain Side Slider  
Use ED7 Two Wheel Carriage with ED7M Bracket

## Eltrak Sliding Door Lock Kits

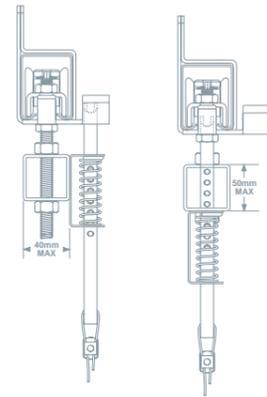


Suits Graduate 120 or Director 200 series



The EDLK Lock Kit is also suitable for use with the EGL flush mount grille lock, ideal for 'slide past' installations.

EDLKT Lock Kit mounted on the side of the door frame & using included external Tee Handle

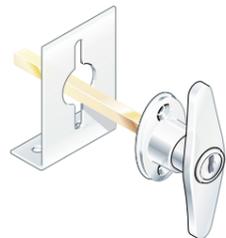


The Lock Kit can be mounted on the side of the door frame (left) or directly under and through the frame as shown at right.

All lock kits include spring loaded lock mechanism, track mounted locking plate, internal latch handle, tek screws, and 2.5 metre operating cable with clamps. EDLKT includes Tee Handle with 8mm square shaft.

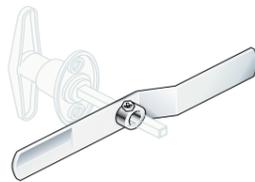
## Handles & Accessories

### Tee Handle Kit



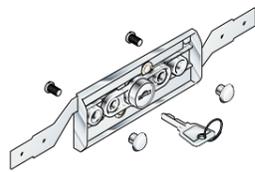
Front Fix Locking Tee Handle with mounting plate & screws. Keyed alike. Code: ETHK

### Inside Latch



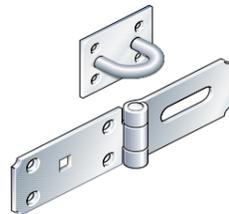
Internal Latch Handle suits std 8mm square shaft. Code: ELH

### Grille Lock



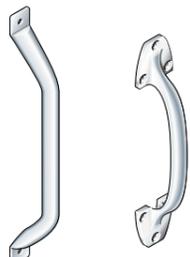
Grille Lock - Flush Mount ideal when double doors pass. Code: EGL

### Hasp & Staple



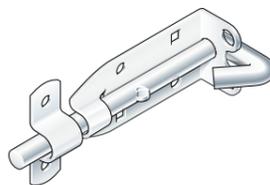
Standard Hasp & Staple Lock for hinged or sliding doors. Code: EHS

### D Type Handles



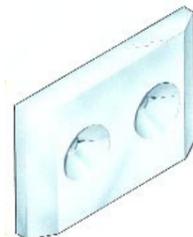
Metal Door Handles for hinged or sliding doors. Code: EHD & ELD

### Pad Bolts



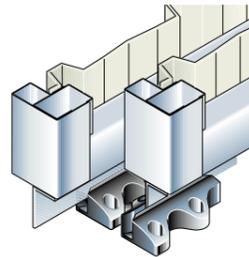
Sliding Pad Bolts. Zinc plated 100 or 150mm. Code: EPB100 or EPB150

### Guide Pads



Nylon Guide Pads reduces friction in guides. Code: EC6 (pair)

### Guide Angles



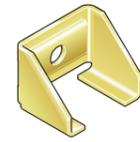
Galvanised Angle Blade. 6.0m length for door guides. Code: EC FGA

## Bolt On - Weld On - Sidefix Combination Brackets

ED19  
EH19

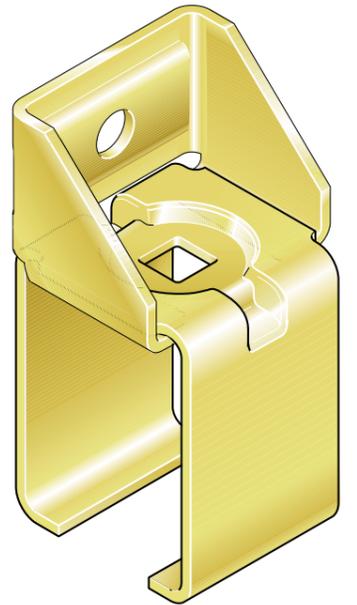


ED120  
EH120



+

=



### Bolt On - Weld On - Sidefix Combination Brackets

- ★ ED19 and EH19 Bracket can now be used for both Bolt On or Weld On Support applications ...
- ★ and the ED120 and EH120 Slide On Sidefix Adaptors now slip quickly and easily onto the ED19 / EH19 to convert instantly to a Bolt On Sidefix Support ...
- ★ As well, the ED19 / EH19 & ED120 / EH120 brackets are not only more versatile, but tested to be significantly stronger in a two-piece combination Sidefix application.

Pat App. Des App.

## Special Purpose Brackets & Fittings



**ED21 / EH21 Two Piece Bracket**  
For tight spaces and blind pelmets. Fix one half of bracket, place track, then bolt on retaining half of bracket.



**ED26 / EH26 Cavity Bracket**  
For overhead cavity wall installation. Screw, weld or bolt direct to overhead support beam.



**EC50 Flashing Bracket**  
Bolt to most standard support brackets to provide a support for external weather flashings



**EM36 / EH36 Door Apron Set**  
To attach large timber doors or convert hinged timber Barn doors for sliding door carriages.



**ED37 / EM37 / EH37 Top Plate**  
For attaching sliding door carriages to timber doors. Captured nut allows door height adjustment.



**ED7M Curtain Hangar Bracket**  
Attach carriages to Tautliner (curtain) sides. Use as single or double leaf, always use nyloc lock nut.

## Eltrak Round Corner Systems

LIGHT  
**100**

### Light Duty Round Corner

PANELS TO: 3.0m HIGH & 100 Kg  
Use Director 200 Series Track and Support Brackets  
Use only ED14S Nylon Wheel Swivel Pin carriages in Curved Track sections

HEAVY  
**200**

### Heavy Duty Round Corner

PANELS TO: 4.5m HIGH & 200 Kg  
Use Matador 450 Series Track and Support Brackets  
Use only EH14M Nylon Wheel Short Wheelbase carriages in Curved Track sections

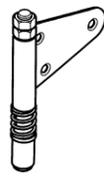
## Specialised Round Corner Componentry



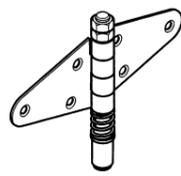
ED7SH or EH7SH \*  
Single Hinge Carriage  
use for end panels only



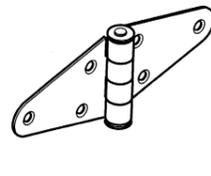
ED14DH or EH14DH  
Double Hinge Carriage  
use for all other panels



ED6RBSH / EH6RBSH  
Single Hinge Roller Guide  
use for end panels only



ED6RBDH / EH6RBDH  
Double Hinge Roller Guide  
use for all other panels

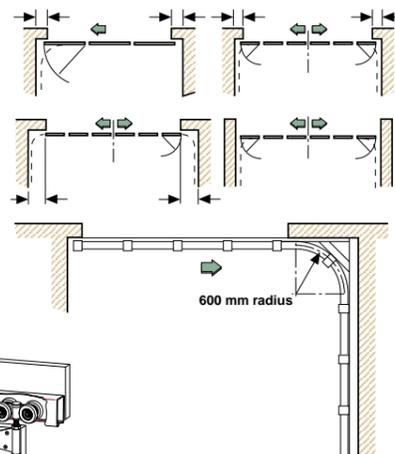
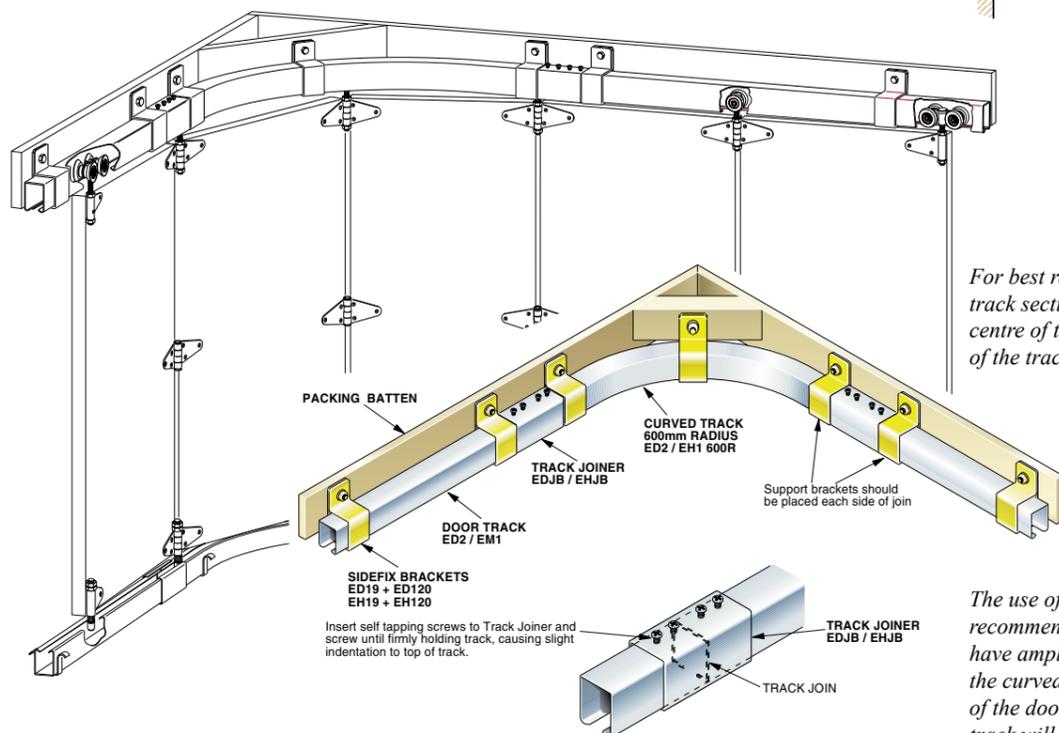


ED62 or EH62  
Double Hinge Only  
use for centre hinges

The use of ED7SH or EH7SH Single Hinge Carriages for End Panels is only recommended where the use of a 4 wheel carriage is unsuitable due to overlap beyond the leading edge of the panel.

Hint: One end panel can be installed without carriage and guide roller if desired and can then be used as a hinged access door.

The ED2 / EH1 600R Curved Track section provides a simple installation method for sliding doors and other overhead tracking and support systems.



For best results the 600 Radius curved track section should be supported at the centre of the curve, as well as each side of the track joining bracket.

The use of a packing batten is recommended to ensure that doors have ample clearance when negotiating the curved section, as some protrusion of the doors from the centreline of the track will normally occur.

## Eltrak Bifold Door Systems

LIGHT  
**100**

### Light Duty Bifold Doors

PANELS TO: 2.4m HIGH & 100 Kg  
Use Director 200 Series Track and Support Brackets

HEAVY  
**200**

### Heavy Duty Bifold Doors

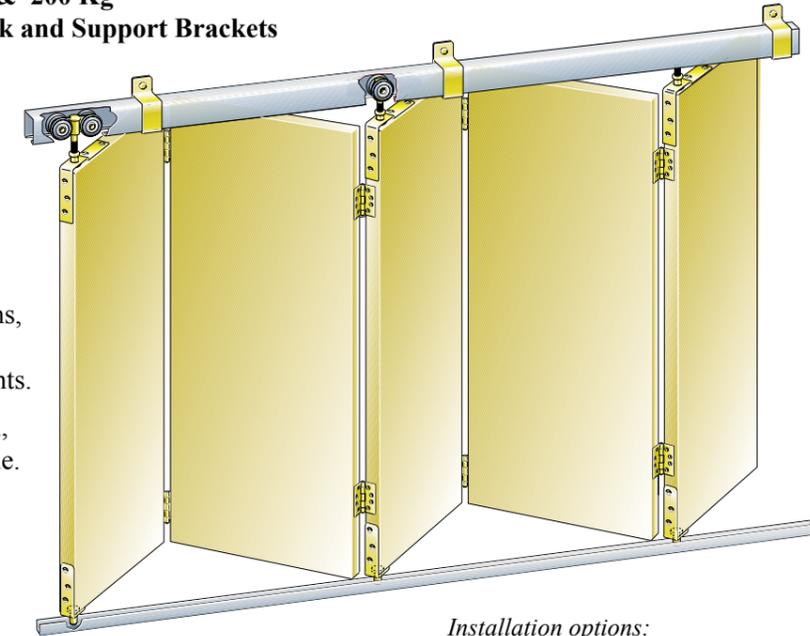
PANELS TO: 3.6m HIGH & 200 Kg  
Use Matador 450 Series Track and Support Brackets

- LOW COST
- ADAPTABLE
- STACKABLE
- EXTRA QUIET
- SUPER SMOOTH
- EASY INSTALLATION

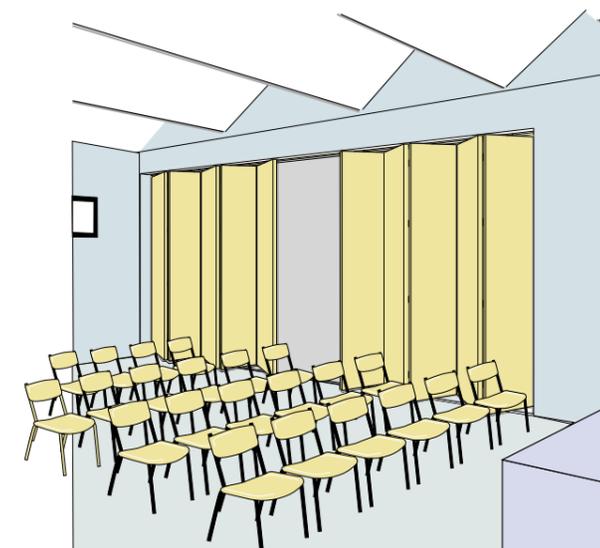
The perfect solution for room dividers, partitions, space saving wide openings for factories, halls, commercial buildings, shopfronts, and restaurants.

P.A. doors are easily incorporated, with internal, external, or cavity installations are also available.

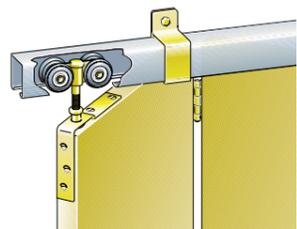
Strong, secure, long life, low maintenance installations for new or existing openings and doorways save you time, money & space.



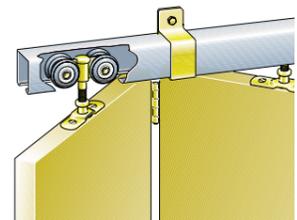
Installation options:



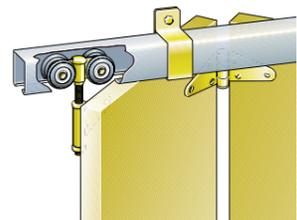
Space saving and versatile in schools, auditoriums or offices.



End Fix



Centre Fix



Hinge Fix



Eltrak Bifold doors are designed primarily for industrial commercial applications and offer three distinct installation options with End Fix, Centre Fix and Hinge Fix (refers to carriage position) solutions to suit your individual requirements. Doors can be stacked centrally or to one side of the opening. Swinging personal access doors are easily obtained by using an odd number of door leaves in an end unit, or by hanging a separate independent hinged door leaf.

*Eltrak Sliding Door Applications ..*



**9 Metre Span Aircraft Hangar**

3 Doors 3.3m high x 3.3m wide on Double Track Outriggers  
2 doors slide to left, <<> one to right (or vice versa)  
Full Width Opening to 9 metre Clear Span



**20 Metre Span Aircraft Hangar**

6 Doors 5.0m high x 3.2m wide on Double Track Outriggers  
2 doors each way one track, 1 or 2 either way on other track  
Full Width Opening to 20 metre Clear Span



**18 Metre Opening Rural Shed**

4 Doors 4.5m high x 4.5m wide on Double Track Outriggers  
2 doors each way, EH1 Track with EH16ST carriages  
Full Width Opening to 18 metre Clear Span



**8 Metre Opening Grain Shed**

2 Doors 5.6m high x 4.0m wide on Single Track Outriggers  
1 door each way, EM1 Track with EH12ST carriages  
Full Width Opening to 8 metre Clear Span



**14 Metre Wide Shed with 12 Metre Opening**

2 Doors 4.2m high consisting of 11 Panels, each 1.1m wide  
1 door each way, Round Corner System  
Constructed from Eltrak Door Framing



**14 Metre Wide Shed with 12 Metre Opening**

2 Doors 4.2m high consisting of 11 Panels, each 1.1m wide  
1 door of 6 panels, 1 door of 5 Panels  
Constructed from Eltrak Door Framing



**Large Grain Storage Shed**

2 Doors 5.0m high x 3.0m wide on Single Track  
1 door each way, external Single Sidefix application  
EM1 Track with EH12ST (wind load) carriages



**Large Grain Storage Shed**

2 Doors 5.0m high x 3.0m wide on Single Track  
External Single Sidefix application with weather flashing  
EM1 Track with EH12ST (wind load) carriages



**Front & Side Opening Garage Shed**

2 Doors 2.5m high x 3.0m wide on Double Tracks to front  
1 door 2.6m high x 3.0m wide single sidefix to side  
ED2 Track with ED14LP carriages & ED3/ED4 floorguides



**Front & Side Opening Rural Shed**

2 Doors 4.8m high x 4.0m wide on Single Sidefix to side  
1 door 4.2m high x 4.2m wide single sidefix to front  
EM1 Track with EH14LP carriages.



**20 Metre Opening Industrial Building**

6 Doors 6.0m high x 3.2m wide on Double Track  
Up to 10 metre Opening in various combinations  
EH4 in ground floorguide and Eltrak Door Framing



**Large Industrial Building**

2 Doors 5.0m high x 4.0m wide on Single Track  
1 door each way, external Single Sidefix application  
EM1 Track with EH12LP carriages

## Eltrak Alternate Sliding Door Applications ..



### Commercial Glass House

1 Door 3.0m high x 4.0m wide on Single Track  
External Single Sidefix application with weather flashing  
ED2 Track with ED14LP Carriage



### Portable Horse Stable

1 Door 1.5m high x 1.5m wide on Single Track  
External EM1 Single Track welded to tube frame  
Welded bottom door guides and EH12LP Carriage



### Paint Spray Booth

Versatile adaptation of Round Corner System using ED2 Door Track and ED2 600R Curved Sections with a combination of ED7LP and ED14LP Nylon Wheel carriages



### Carpet / Rug / Curtain Hangers

Square tube hanging bracket fixed to ED7 Nylon carriages with ED2 Door Track allows Rugs etc to slide out individually for customer inspection

## Eltrak Product Warranty

ELTRAK International & Staff Pty Ltd provides a two year performance warranty on all Eltrak® carriages, effective from the date of purchase, subject to the products being used within the guidelines of their specifications.

The warranty covers only the product purchased at the invoice value and does not include claims on any labour, damages, freight or other costs involved in the replacement of the product.

All recommendations, warnings and terms and conditions of sale, which are clearly printed in the Eltrak Sliding Door Systems Specification Guide, and Eltrak Installation Guide will be considered and will apply to all Eltrak® product which is purchased and installed for use in any sliding door system.

Any claim for warranty, which must be accompanied by the original invoice of purchase, must be lodged with the Eltrak Distributor from whom the goods were purchased for submission to Eltrak International & Staff Pty Ltd and will not be considered valid until approved in writing.



Quality Endorsed Company

ISO 9001 Lic 3846  
Standards Australia

## What you Need to Ask ...

*How High and How Wide is your Door Opening ?*

*What Material are you using for the Door Frame ?*

*What is the Cladding ? Do You Know the Weight of Your Door ?*



## Rules of Thumb

### How Do I Know What Components to Use ?

Use the Colour Coding to identify the correct Door Series by Weight category, and then choose the matching brackets, carriages and tracks from the same colour coded components.

**Note:** Only use EG component codes with Graduate EG track, ED codes with Director ED track.

Matador EM track and Hercules EH track are the same dimensions, therefore most components are common.

### How Do I Determine Door Weight ?

Calculate the door weight using the weight of the frame and add approx 5 kg per square metre for cladding. If the door weight is unknown use the Door Size Chart as a rough guide to the correct Series of components.

### How Do I Work Out the Door Size ?

Start with the size of the opening, always allow for some overlap of the opening each end (say 50mm) and overlap doors where more than one track is used. Allow for ground clearance and floor guides, and overlap the top of the opening if the door is fixed to the side of the building. Where the door is fixed overhead allow a minimum 25mm top of frame to the bottom of track. Check against the Door Size Chart and use smaller doors for wide openings

**Use Eltrak's Framing Worksheet to help you determine size and weight of doors to suit the specified opening!**

### What is the Standard Track Length ?

All door tracks are custom rolled to length for each order, up to about 12 metres. Average is about 6.1m (20') Remember transport restrictions and some additional charges may apply for long lengths

### How Long Do I Need My Track ?

Rule of Thumb is generally twice the door width to allow the door to slide past the opening

### How Many Carriages per Door ?

Only ever use two carriages per door. Extra carriages will jam and adversely affect correct weight distribution and carriage operation. Use two or more smaller doors for wide openings to ensure correct operation.

### Where Does the Carriage Go - How Far from the End ?

Generally the carriages should be mounted between 300 - 700mm from each end of the door.

The use of Angle Braces set at 45deg with Eltrak Door Framing will give the correct carriage position.

### How Many Brackets Do I Need ?

Support Brackets should be spaced in accordance with Door Weight and the Bracket Spacing Chart As a guide about a metre apart or less: so one bracket for each metre of track plus one for the end.

### What is the Difference Between Steel and Nylon Wheel Carriages ?

#### Nylon Wheel Carriages

smooth running with less noise

ideal for clean environments

nylon tyres and ball bearing carriages are an excellent choice in more corrosive environments

#### Steel Wheel Carriages

stronger, more robust carriage

ideal for industrial situations

excellent choice for rural areas where dirt, dust and heat is a problem

steel wheels are generally longer wearing and more reliable than nylon tyres

needle bearings are generally longer wearing under heavy loads than ball bearings