

Eclipse Architectural

hardware systems for exterior folding doors and windows

Interior Application



Exterior Windows

Exterior Doors



Doors

Aluminum



Corner Unit



HARDWARE, TRACK, SILL SYSTEM AND WEATHERSEALING

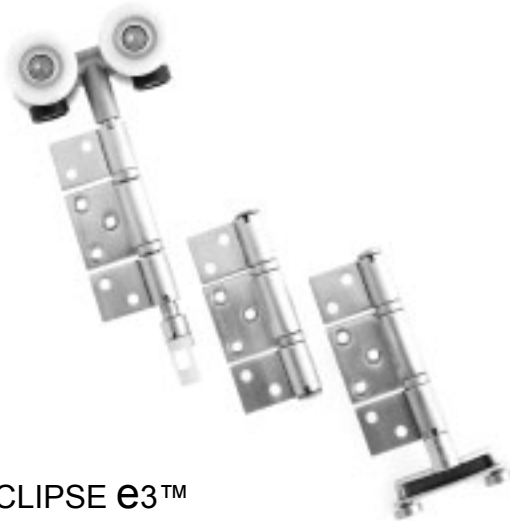
for Exterior Folding Doors

Imagine. An opening in your wall without the sliding doors. Your inside becomes the outside in one continuous space. You can entertain without interruption and your views become vistas. No fixed glass panels and no mullions or posts. Just wide open space. All this is possible today because of the revolutionary breakthrough of the eclipse weathersealed bifolding technology.

The eclipse system is designed for folding doors in exterior residential or light commercial applications. It has been specifically developed to allow the opening to be effectively weathersealed for exposed environments. It enables up to 8 doors in both directions to be folded to the side of an opening and is suitable for Housing, Apartments, Cafes, Restaurants, Hotels & Shop Fronts.

A typical installation of an eclipse system would be glazed doors opening out onto a balcony or patio. It can be used in place of aluminum, wood or uPVC sliding doors.

FACT



ECLIPSE E3™

The Eclipse E3™ is a premier folding door system. It has been designed for strength and is generously proportioned to meet the requirements of specifiers looking for folding solutions in medium to large residential and commercial applications. Stainless steel bearings in the pivots and carriers allow even the largest doors to be moved quietly and with fingertip ease between the open and closed positions.

Panels up to 39" (990mm) wide by 120" (3048mm) high, and 176lbs (80kg) each in weight can be securely installed with your choice of brass or stainless steel hardware. The brass is available as bright polished or US10B oil-rubbed bronze finish for your choice of harmonizing or contrasting appearance against the door materials. Or, for the precise, modern impact of industrial metal the brushed stainless steel option is the perfect alternative. Support track, guide channels and sill are produced in extruded aluminium. They can be supplied anodized in clear and bronze or, for that extra appeal, mill finish sections can be specially powder coated in a wide range of colours.

Stainless steel, brass and engineering plastics are used throughout to minimize the effects of corrosion and environmental discoloration. Careful material choice also means that the hardware will remain as strong as the doors it supports. And, when closed, there is nothing externally accessible that can be removed or damaged to reduce the door's performance as a barrier. Screw fixings are concealed and hinge caps are retained by hidden fasteners. Eclipse E3™ system provides the strength, tough good looks and security that you expect in a premier product.

Panel Sizing The Doorcalc program will automatically do the sums required to determine door opening or panel heights and widths. The software is free to customers and can be downloaded from Eclipse Architectural's website www.EclipseArchitectural.com.

Weather This system is suitable for use in external building applications. It has been designed around the use of kerf inserted seals in the opening and between the doors.

Application Folding doors are most commonly installed opening outwards. Eclipse E3™ provides the functionality of adjustable end pivots mounted in the tracks. These pivots allow adjustment horizontally by means of a stainless steel screw. Vertical levelling of the door panels is achieved at the top pivot and each carrier position with "Sure-Lock II™" adjusting system. Simple, one-handed setting of the height and a self-locking feature that prevents slippage from the adjusted position are the basis of this design.

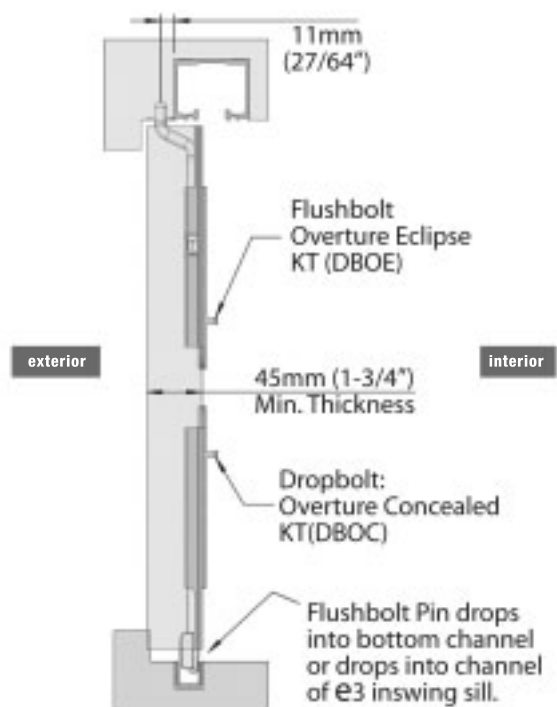
Equal Sized Panels Centor's innovative hinge system (patent pending) enables all door panels to be made the same size regardless of the door configuration (ie 3L2R or 1L4R). This is a major cost benefit to the manufacturer.

Simple Adjustment Improved screwdriver access and grip are now provided in the patented Surelock™ adjustment mechanism which makes the installer's job even easier. Pivot panels now also use Surelock™ to ensure simple, secure vertical adjustment while Centor's patented horizontal screw adjustment of 3/8" (10mm) is maintained. Eclipse E3™ is now the most functional system for larger folding doors.

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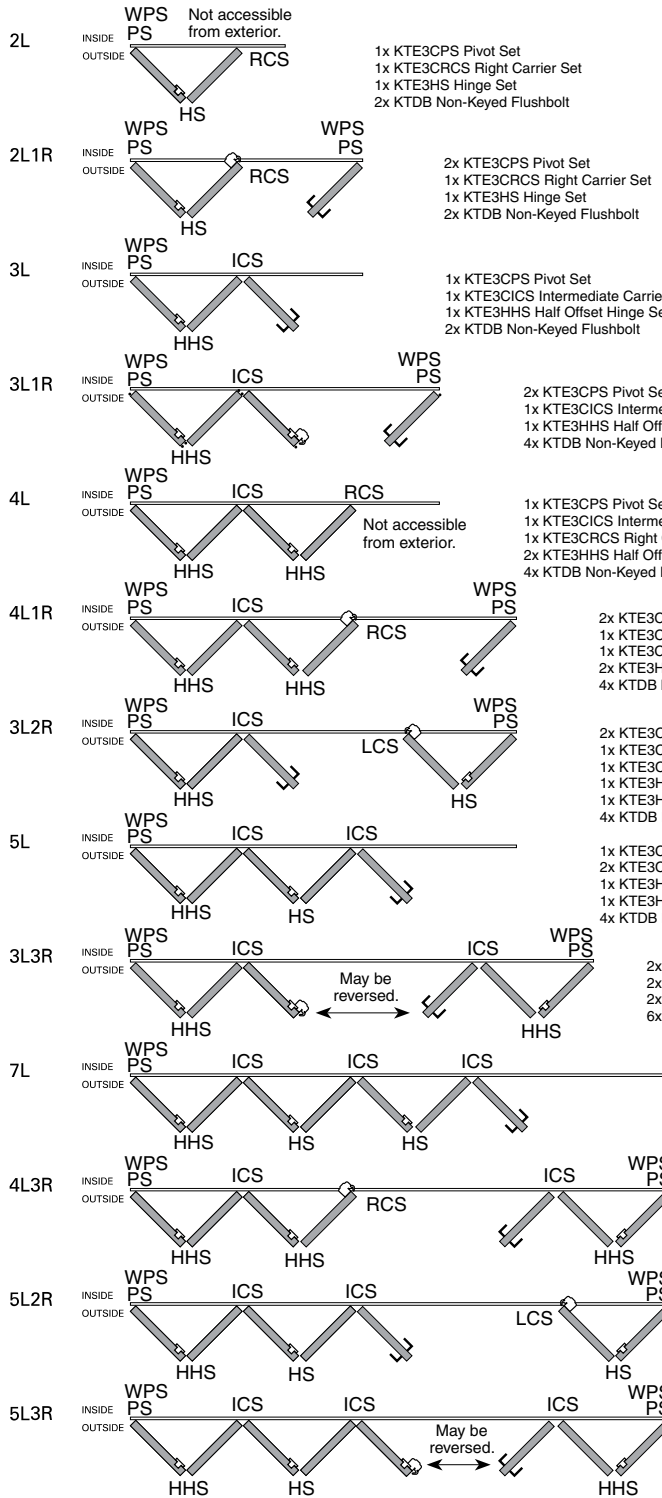
NEW SYSTEMS Refer to Eclipse Inswing Door Catalogue



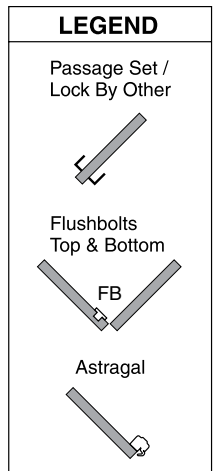
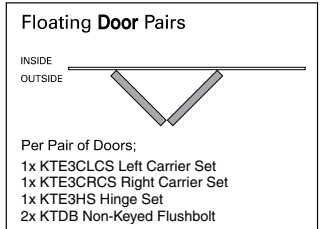
Flushbolts for Inswing Doors

E3™ HARDWARE LIST FOR DOOR CONFIGURATIONS PASSAGE SET/LOCK, FLUSHBOLT, ASTRAGAL & HARDWARE PLACEMENT

From Left to Right

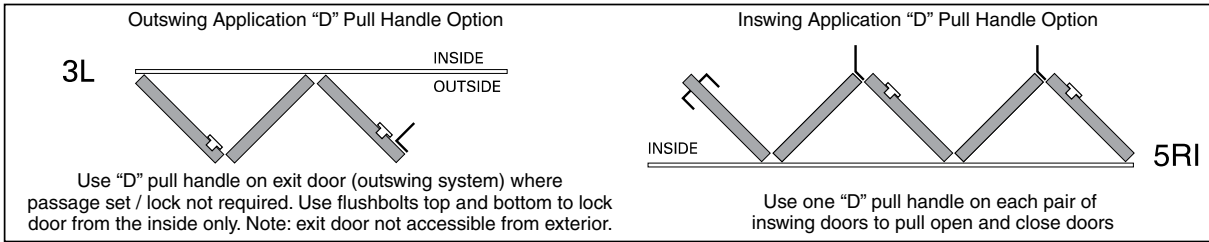
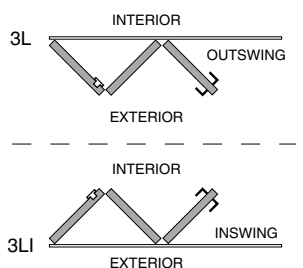


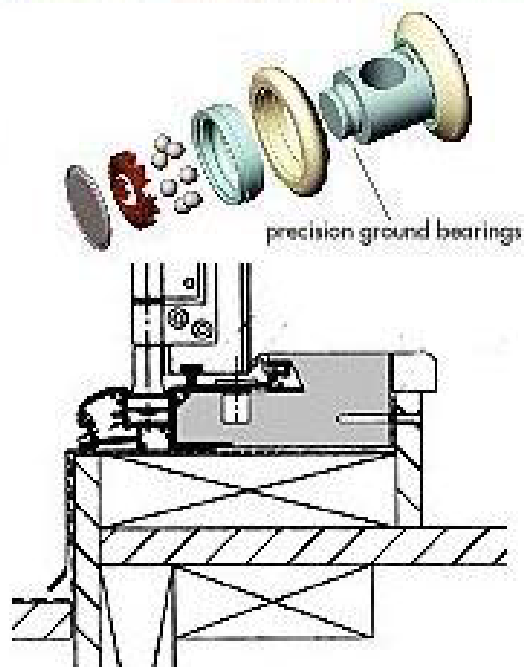
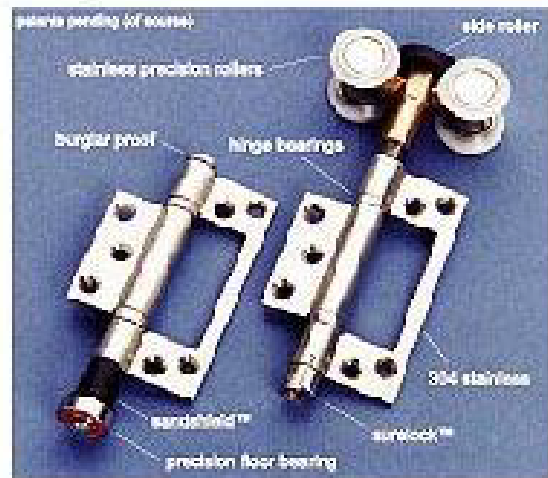
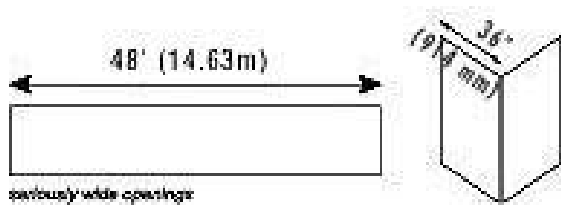
HARDWARE LEGEND	
PS	Pivot Set
WPS	Wall Pivot Set
ICS	Intermediate Carrier Set
LCS	Left Carrier Set
RCS	Right Carrier Set
HHS	Half Offset Hinge Set
HS	Hinge Set (Flat)
FB	Flushbolt



Note:
WPS (Wall Pivot Set) recommended for doors over 7ft (2134mm) in height.

How to Determine Swing of Systems:





wider panels

eclipse e2™ increases both the allowable size of the opening and the maximum width of each panel. Now, up to eight x 90lbs (40kg) panels, each 36" (914mm) wide, can be smoothly folded off to either side of an opening with a total track load of 1440lbs (640 kg). The maximum possible opening is 16 panels spanning 48ft (14.63m) for seriously wide applications.

Why can eclipse e2™ do this? The secret lies in the bottom guide. With doors this wide, the side forces are significant, so instead of a metal roller grinding on an axle, we have built in a precision roller bearing. This bearing takes up the side load as the doors open out and keeps them operating smoothly.

maintenance free

The surelock™ technology is a major enhancement to eclipse e2™. Using a springloaded stainless snaplock, the carriage is guaranteed to retain its vertical adjustment. There are no locknuts to come un-done and no spanners to lose. The doors are adjusted simply with a screwdriver and, for easy installation, the carriage is factoryfitted with a disposable shipping clip. If the building settles, the carriage can be readjusted later again with any flat tip screwdriver.

corrosion free

All of the upper and lower rollers have been upgraded to architectural grade stainless bearings to provide excellent corrosion resistance for coastal applications. Similarly, all the hardware componentry such as clips, springs, pins, bogies, axles and fasteners are also stainless steel.

rugged performance

After many thousands of bifold installations, we know that the real world is very different to a pristine air-conditioned laboratory. We developed the sandshield™ for the floor rollers by filling a floor channel brim-full of genuine Morton Bay sand, mud and sea-shells then added liberal doses of sea water. Then we opened and closed the doors crunching through this mixture for tens of thousands of cycles on a mechanical test rig before we were finally satisfied with the design.

The design is externally secure, completely preventing access from external attack. After all, your safety and peace of mind is our utmost concern (not to mention a requirement for your insurance).

304 stainless and solid brass

In response to customer demand, we have added two architectural hinging ranges; 304 stainless steel and solid brass. The corrosion-resistant brushed stainless steel has a beautiful lustre and the solid brass perfectly matches traditional brass hardware.

super smooth

Eclipse architectural has set a new standard in smoothness with the eclipse e2™ system. The precision bearings are custom manufactured in Europe using Swiss and German machinery to exacting tolerances and glass-smooth surface finishes. The light to operate. No dragging, no binding, no scraping, no noise and you can literally open them with your little finger.

The precision bearing used on the floor guide is matched with a side thrust roller in the upper carriage. Technically, in an ideal world, this side roller would not be needed, but our experience has been that some installations may be less than perfect. This roller takes up any excess side loading and keeps the top carriage from scraping on the inside of the track again ensuring silky smooth, quiet operation.

no water ponding

Instead of leaving water ponding in the channel, or at best drilling a hole through the timber into the channel, a new self draining sill is available. This elegant aluminium sill is designed to vent the water outside preventing long term damage to the wood.

more choice

Eclipse e2™ is available in 72 panel configurations to suit your needs including floating panel systems. It is available in 5 standard finishes with colour matched handles. Check for stocked items.

innovation

There are many other subtle innovations in the eclipse e2™ system to assist the home owner, architect, builder and manufacturer such as the spring-loaded pivots and DoorCalc™ software. There are now a total of 6 patents issued or pending.