

Centor Architectural / E2 Plus™

medium bi-folding door system for panels to 90lb (40kg)

CREATING

www.centorarchitectural.com/e2_plus.htm



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Creating Seamless Transitions

E2 Plus™ is a medium bi-folding door hardware system for panels to 90lb (40kg) – Centor Architectural's original elegant solution to the challenge increasingly being put to the window and door industry – how to create truly seamless transitions between indoor and outdoor spaces. E2 Plus™ is suitable for a range of residential and light commercial applications which do not require the extra capacity of the medium-heavy E3™ or the substantial E4™ heavy-duty door system.



www.centorarchitectural.com/e2_plus.htm

E2 Plus™ Specifications

Max panel weight 90lbs (40kg) each

Max panel width 39" (1000mm)

Max panel height 118" (3000mm)

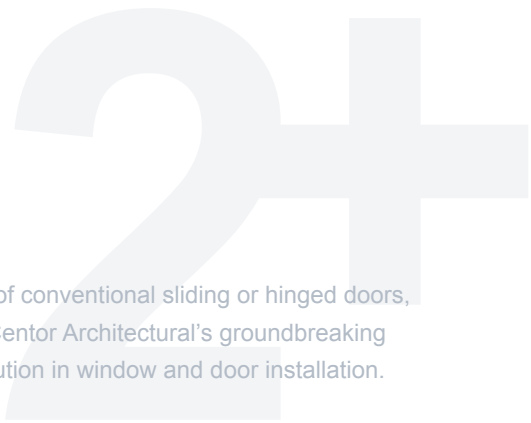
Door Thickness

- a) 1 3/4" (44.45) when using E2 Plus™ sill system
- b) 1 3/8" to 2 1/4" (34.9 to 57.15mm) when using floor channel

Maximum number of doors – 8 each direction (52ft opening)

Note When using maximum door width and height 39" x 118" (1000mm to 3000mm) door may exceed maximum door weight of 90lbs (40 kg).
Calculated weight check should be done.





Imagine The Possibilities

Business or pleasure, E2 Plus™ means entertainment without the interruption of conventional sliding or hinged doors, views which become vistas, breezes when you please! Over the past decade Centor Architectural's groundbreaking Exterior Bi-folding Window and Door technology has caused a worldwide revolution in window and door installation.



Potential applications for E2 Plus™ are limited only by the imaginations of the worlds most progressive architects and designers.

E2 Plus™ adds flair and flexibility to the widest range of applications, from private residences to store front, restaurant and commercial projects. One moment bi-folding doors are acting as an effective, secure barrier from rain, wind and noise. The next they're effortlessly moved aside to reveal wide open space – with no fixed glass panels, mullions or posts and no obtrusive door sill, just a recessed track in the floor. Engineered to withstand the most severe weather E2 Plus™ can be just as suited to indoor use, or where exterior doors are needed between a sun room and the main structure – a major advance in visually and physically connecting spaces. The benefits to the end-user in managing their space to suit lifestyle or business have created an overwhelming demand for Centor's bi-fold systems – literally changing the face of contemporary design.

CREATING SPACE



High Performance System

Environment, operational function, durability; Painstaking attention to detail and unerring commitment to quality mean Centor's bi-folding systems achieve Centor-grade performance – whatever the category. Now an integral part of progressive construction and renovation E2 Plus™ provides a degree of control and comfort for the end-user which matches the easy flexibility of modern design.

Uncompromised Internal Environment

E2 Plus™ is truly a system for all seasons and all locations. E2 Plus™ hardware, teamed with quality door panels, creates a formidable barrier against the elements when closed. The integrity of the required internal environment is never compromised.

Rain and Wind

A door using Centor's bi-fold system was the first tracked bi-folding door system to be successfully certified against Australian Standard AS2047 which specifies the performance required of external windows and sliding doors, in particular for resistance to rain and wind. Subsequently many of Centor's door manufacturing clients in Australia, Canada and the United States have tested doors to relevant local requirements including stringent US sea-coastal hurricane standards. Higher levels of water resistance can naturally be achieved in outward opening doors, but with close attention impressive water performance ratings are achievable from inward opening doors. With E2 Plus™, a development of the proven original design, driving rain and howling gales can be shut out completely.

Air Infiltration

The system achieves its superior rain and wind resistance in part from the way it allows the folding doors to close snugly against weather seals. In the same way doors using the E2 Plus™ system effectively resist air infiltration to a level up to 50 times better than a sliding door.

Effortless Operation

While E2 Plus™'s outstanding performance as part of a secure, weatherproof barrier is crucial, it's not until the doors are opened that the space-transforming benefits of the system truly come into play. For maximum enjoyment and use of the system every effort has been made to ensure that doors glide open and slide shut with the minimum of effort – and that they continue to do so.

Quality Manufacture, Clever Design

E2 Plus™ carriers, guides and pivots use the highest grade stainless steel bearings custom machined to extremely fine tolerances on state-of-the-art Swiss and Japanese machinery – a minimum of four bearings to each carrier. Machined wheels are individually precision ground to an ultra-fine hone. Clever carrier design prevents scraping on the inside of the overhead track. A polypropylene floor channel lining adds to the smooth, almost silent rolling action which brings a smile to the face of the user!

Installation and Adjustment

With a choice of quick-fix surface-mounted fittings or mortise hinged components for more traditional wooden joinery, installation couldn't be easier. Comprehensive instructions are included and drill jigs are available for precise placement of fittings.



Used externally or internally E2 Plus™ adds flair and flexibility whatever the project.

With architectural grade performance guaranteed for ten years E2 Plus™ will operate flawlessly for an indefinite period. Even so the built-in Surelock™ mechanism means the system is tolerant of an imperfect world. If, for example, a newly built structure settles over time the end-user can easily make vertical and lateral adjustments with one hand, simply using a screwdriver!

Collaborative Process

Centor bi-fold system's don't achieve the highest performance in all categories all on their own. They're in their element teamed up with the quality products created by Centor's many manufacturing and custom fabricating clients. The Centor technical department can assist in the design process for doors incorporating the E2 Plus™ system to ensure that the highest criteria for completed and installed doors are met.

Laboratory Proven Durability

As much as Centor Architectural enjoys its reputation for innovation, ensuring products meet and exceed the highest standards for durability is just as much of a passion. This means a significant investment in repeatedly testing systems under the toughest of conditions – then testing them again!



Attention to detail in design,
testing and manufacture creates
Centor-grade performance.



CREATING LONGEVITY

Laboratory Testing

In addition to the extensive weather testing undergone by doors using Centor's bi-fold systems, all individual E2 Plus™ components have undergone extensive laboratory testing, ensuring years of trouble-free enjoyment from hardware which ages with grace.

Cyclic Testing

Centor's minimum requirement of cyclic testing for any released product is a grueling 50,000 cycles without a single failure at maximum configuration, meaning years of trouble free operation from the E2 Plus™ system.

Corrosion Testing

Stainless steel, brass, anodized aluminum, and engineering grade plastics are used throughout E2 Plus™ and are carefully selected to maximize performance in any environment. Centor conducts regular, thorough corrosion testing in a salt spray chamber, fixing hardware to various substrates to ensure that E2 Plus™ performs admirably in challenging conditions such as an exposed coastal application.

Structural Testing

Structural proof load tests up to 3600 Pa (74 psf) have been achieved by doors using the E2 Plus™ system.

Finite Element Analysis

Finite Element Analysis (FEA) is a computerized simulation technique where products are exposed to virtual operating environments and accurate predictions made in terms of load and deflection. Centor undertakes FEA in the design process to ensure the best balance of performance, cost and materials in every system.

E2 Plus™ Up Close

From even a casual glance at the E2 Plus™ system Centor's commitment to quality is obvious, but it's only upon closer examination that the 'pluses' really show through. Stacked with clever standard features, with abundant flexible options to choose from, E2 Plus™ is a system that looks even better up close.

Materials and Finishes

E2 Plus™ carriers, guides, pivots and hinges are available in solid brass or architectural grade stainless steel. Brass is available in a bright polished finish or a US10B Oil Rubbed Bronze finish for a choice of harmonizing or contrasting appearance against the door materials. For the precise, modern impact of industrial metal the brushed stainless steel finish is another alternative.

Support track, guide channels and sill are produced in extruded aluminum and can be supplied anodized in clear or bronze.

Panel Size and Materials

Centor's innovative hinge system (patent pending) enables all door panels to be made the same size regardless of the door configuration (eg 3L2R or 1L4R). The easily installed quick-fix hardware can teamed with ordinary 'book end' door panels in wood, aluminum, PVC or fiberglass.

Wall Pivot

A floating wall pivot is used to control door stile deflection and bowing on tall doors caused by wind loads or climatic conditions. When using tall doors (over 7'4" high), use of four hinges at each junction is recommended, instead of the standard three.

Drop Bolts

The E2 Plus™ system is matched with the clean-lined Symphony™ and Overture™ ranges of dropbolts to anchor the doors firmly in the closed position. They resist wind and together with the weather seals eliminate rattling in strong winds.



E2 Plus™ Specifications

Max panel weight 90lbs (40kg) each

Max panel width 39" (1000mm)

Max panel height 118" (3000mm)

Door Thickness

- a) 1 3/4" (44.45) when using E2 Plus™ sill system
- b) 1 3/8" to 2 1/4" (34.9 to 57.15mm) when using floor channel

Maximum number of doors – 8 each direction (52ft opening)

Notes > Aluminum door system specifications may vary from the specifications on the left. Consult your aluminum door supplier for details. Minimum panel thickness of 1 3/8" (35mm) allows for weather seal seating on panels correctly. Panels which exceed 2 1/4" (57mm) in thickness or which are below 24" (600mm) in width require special consideration in construction.

There are a number of materials such as soft timbers which are not suited to production of large, heavy doors. Panel construction materials should be of sufficient strength that screws cannot pull out. Concerns about material choice should be referred to a joiner experienced with the Centor's bi-fold systems.

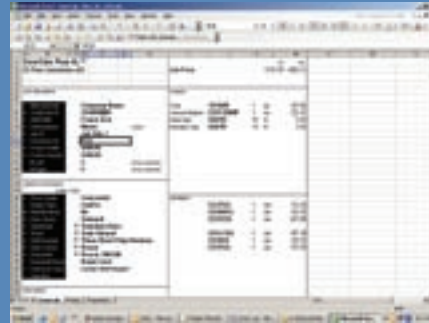
E2 Plus™ Assurance

Modern design is all about allowing the end-user to feel relaxed and comfortable in their surroundings. E2 Plus™'s superior functioning and performance goes much of the way towards meeting this goal and Centor takes care of the rest with a range of measures to ensure the system can be used with complete confidence.



Free Specification And Ordering Software

Centor's free specification and ordering software, E2 Plus Doorcalc™ – can be downloaded from www.centorarchitectural.com. E2 Plus Doorcalc™ runs on Microsoft Excel® software and enables the user to specify all of the Centor hardware required for any door opening as well as calculate door panel sizes and number based upon a manufacturer's proprietary manufacturing details. The program features intuitive drop-down menus to assist the inexperienced Excel® user and allows for identification of each job and automatic generation of an accurate, costed hardware list, including barcodes, ready to forward to Centor!



CREATING CONFIDENCE

Unparalleled Security

The E2 Plus™ system responds to an increasingly security conscious market place with several measures designed to ensure unwanted visitors are excluded, as well as the elements.

Concealed Fittings

When doors utilizing E2 Plus™ are closed there are no externally accessible parts that can be removed or damaged. Screw fixings are concealed and hinge caps are retained by hidden fasteners.

Locking Screw Technology

The E2 Plus™ system incorporates locking screw technology which ensures the hardware can not be removed from the track when the doors are closed.

Warranty

In line with a commitment to the highest possible quality Centor offers a 10-year warranty on all E2 Plus™ hardware.

For full details refer to the current Centor Architectural Catalogue, or view information on line at www.centorarchitectural.com

Hardware Selection

E2 Plus™ is a fully integrated system suitable for applications up to 90lb per panel in wood, aluminum, PVC or fiberglass. Architects and specifiers can feel confident simply specifying "Centor E2 Plus™" and leaving detailed component selection to the builder/joiner/fabricator. For more detailed selection refer to page 16.



Centor's Bi-fold Options

Based on the same functional geometry but featuring distinctive capacity and features, the systems making up Centor's bi-fold range (E Window™, E2 Plus™, E3™ and E4™) offer an alternative for every potential application. From the smallest folding window to thirteen feet high walls of glass which fold away in seconds, Centor has it covered.



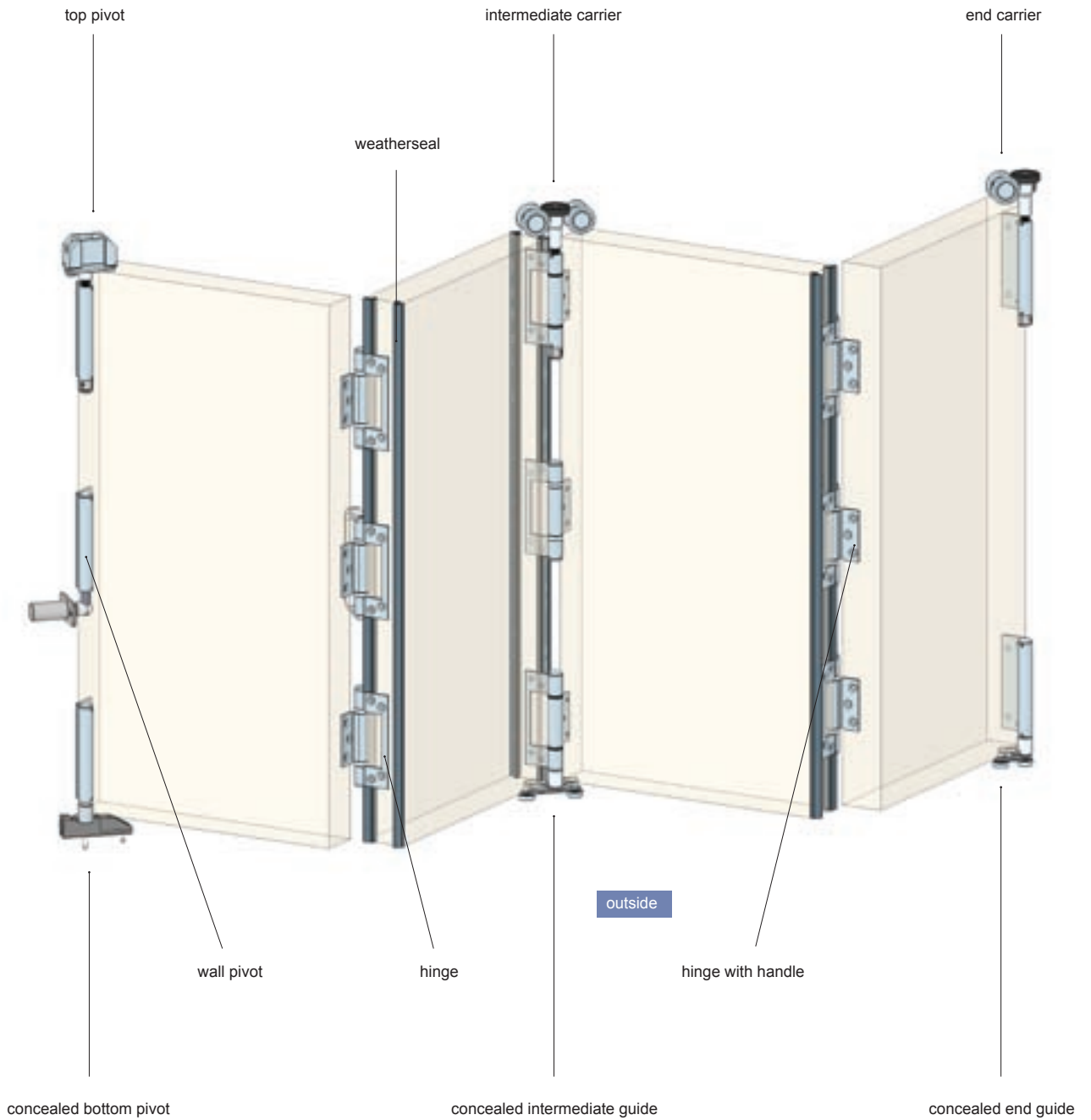
Nothing says 'Welcome' like doors flung wide open.

E Window™ and E2 Plus™ are the mainstays of Centor's flexible bi-fold range. Developed first and constantly upgraded since their inception they boast a considerable range of colors and finishes and remain the perfect choice for the private residence or lighter commercial application. E Window™ is also the first folding window system to offer a fully integrated insect screen.

E3™ and E4™ are Centor's responses to the demands of architects and consumers wishing to extend the potential of Centor's bi-fold innovation into heavier-duty residential and commercial applications. The medium-heavy E3™ doubles the panel weight capacity of the medium E2 Plus™ system, making even sturdier panel materials and double glazing possible. The heavy-duty E4™ system takes it even further with a massive panel weight capacity and substantially increased height, width and overall measurement specifications. Applications are limited only by the imagination.



E2 Plus™ Product Details



US Patents Granted

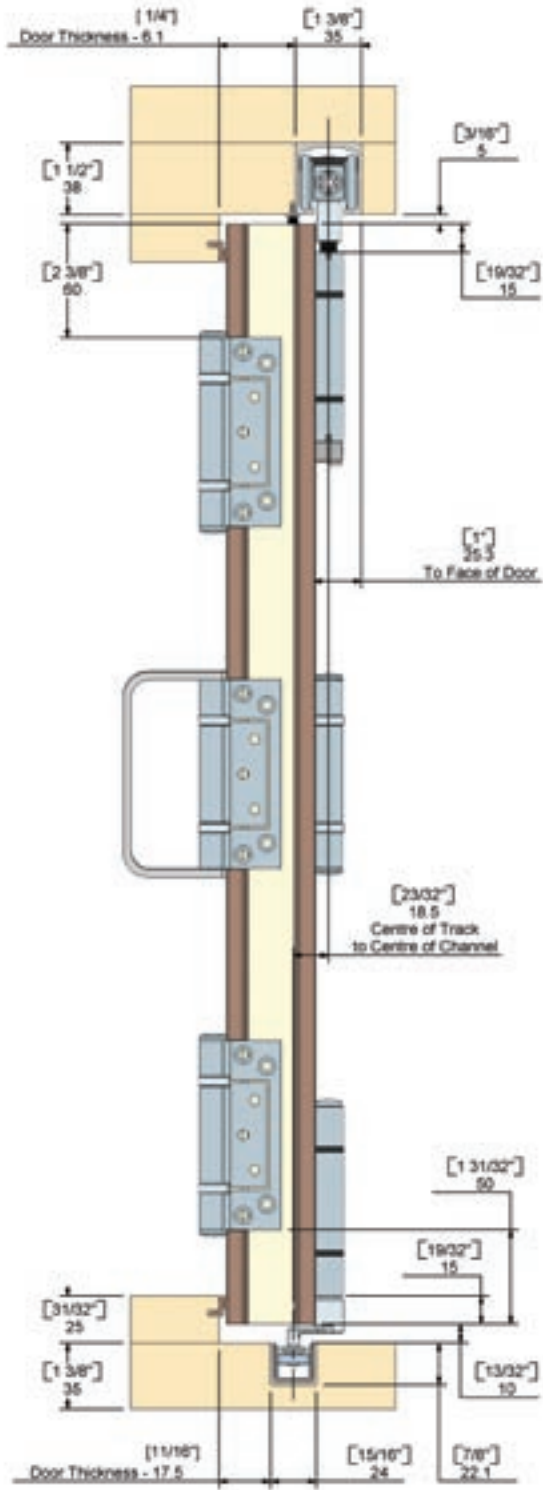
US 6618900 B2

US 6834703 B2

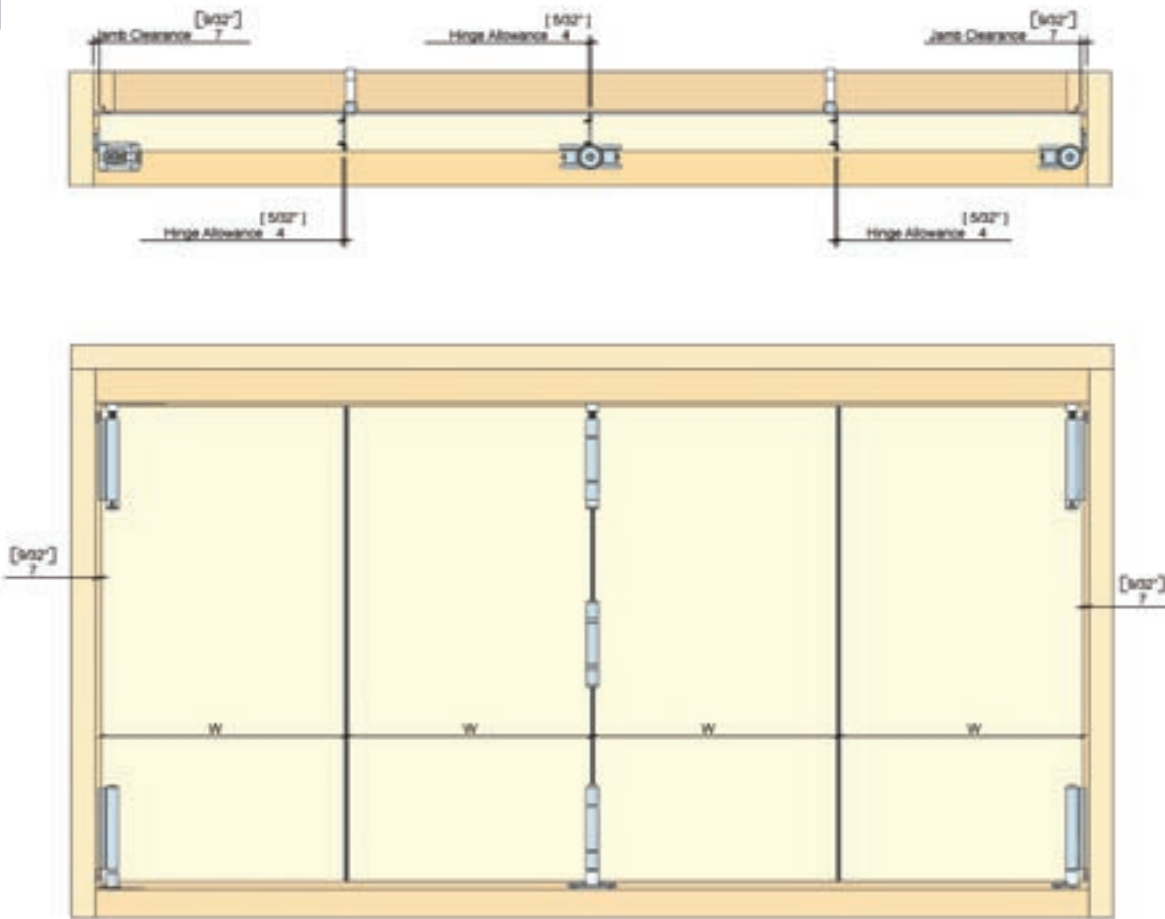
Other US Patents Pending

10/913279

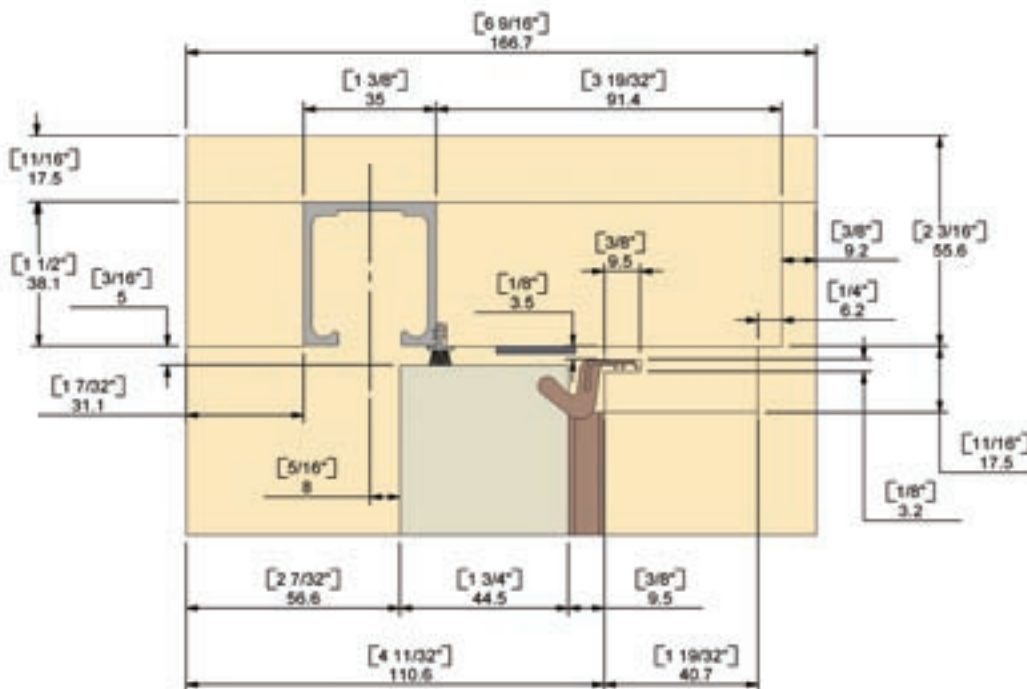
Architectural Detail



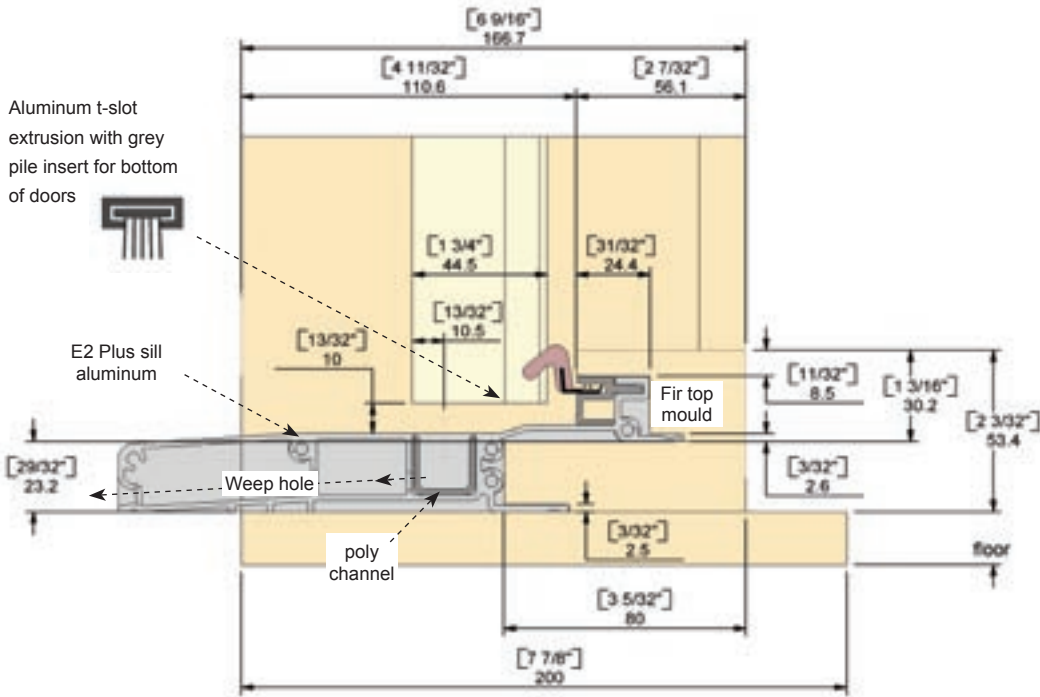
Architectural Detail



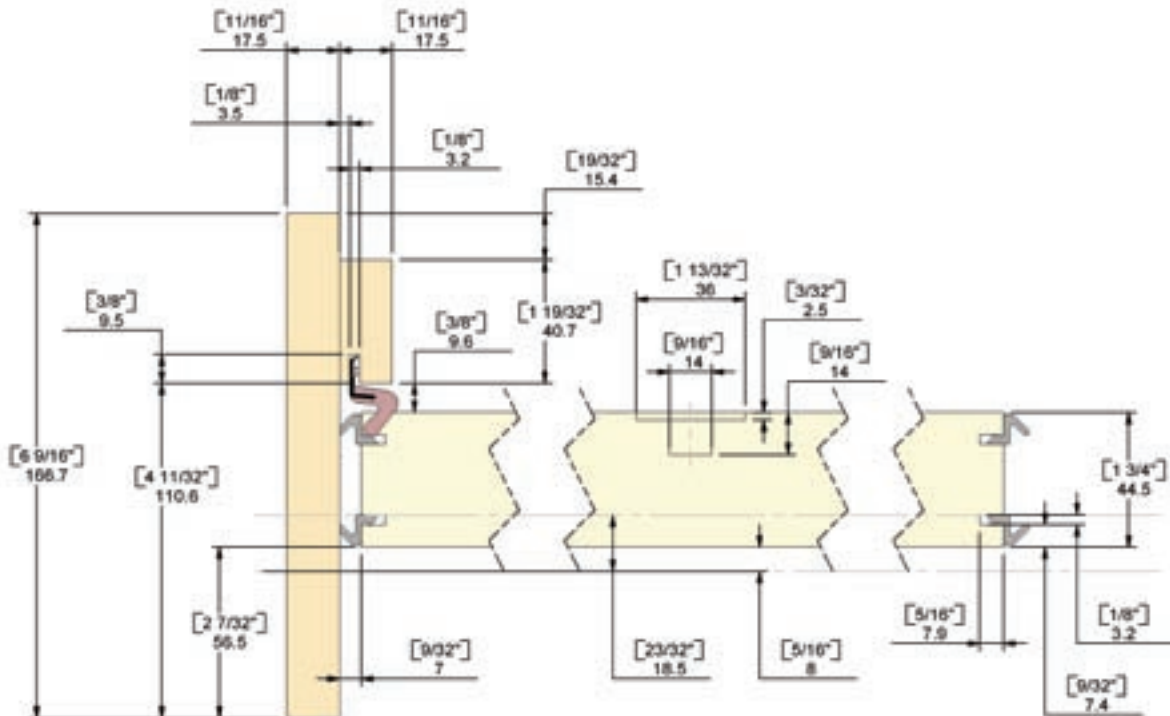
E2 Plus Header for 1-3/4" (44.5mm) door thickness



E2 Plus Sill System for 1-3/4" (44.5mm) door thickness



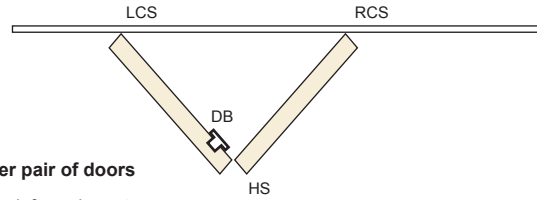
E2 Plus Jamb for 1-3/4" (44.5mm) door thickness



Common Panel Layouts

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)
DB	dropbolt

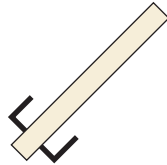
Floating Door Pairs



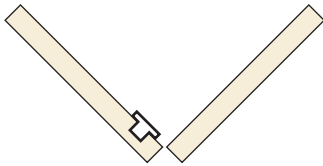
Per pair of doors
 1 x left carrier set
 1 x right carrier set
 1 x hinge set
 2 x dropbolt

Legend

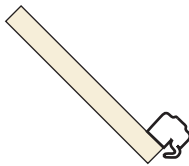
Passage set / Lock by other



Dropbolts top and bottom

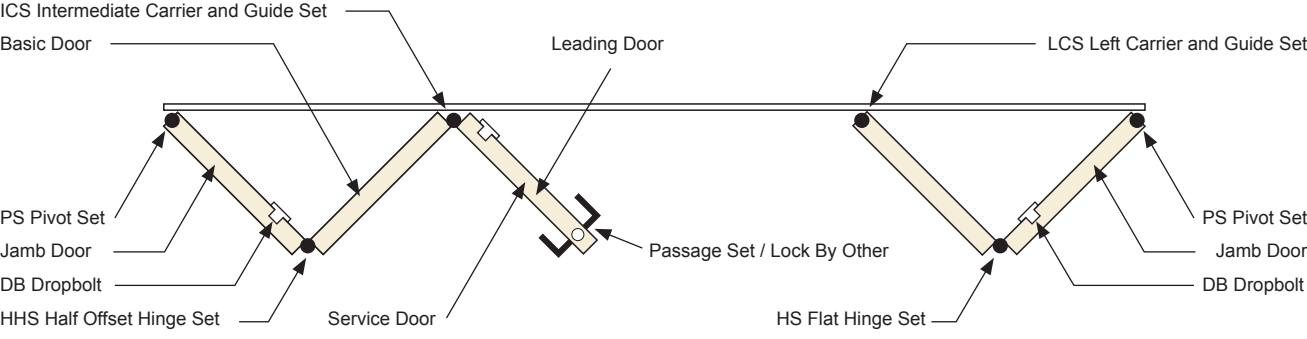


Astragal

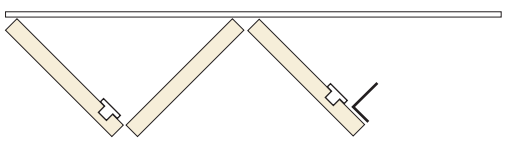


> **Note** Wall Pivot Set recommended for doors over 7'4" (2250mm) in height.

Hardware Application (3L2R)



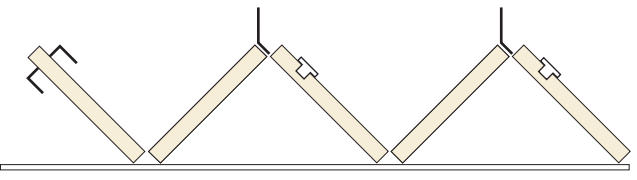
Outswing Application Exterior Handle Option



Use one exterior handle on exit door (outswing system) where passage set / lock not required. Use dropbolts top and bottom to lock door from the inside only.

> **Note** Exit door not accessible from exterior in this application.

Inswing Application Exterior Handle Option



Use one exterior handle on each pair of doors (inswing system) to pull open and close doors

Common Panel Layouts (outswing)

CODE	OPENING CONFIGURATION	HARDWARE
2L	inside WPS, PS not accessible from exterior outside	1 x pivot set 1 x right carrier set 1 x hinge set 2 x dropbolt
2L1R	inside WPS, PS outside	2 x pivot set 1 x right carrier set 1 x hinge set 2 x dropbolt
3L	inside WPS, PS outside	1 x pivot set 1 x intermediate carrier set 1 x half offset hinge set 2 x dropbolt
3L1R	inside WPS, PS outside	2 x pivot set 1 x intermediate carrier set 1 x half offset hinge set 4 x dropbolt
4L	inside WPS, PS outside	1 x pivot set 1 x intermediate carrier set 1 x right carrier set 2 x half offset hinge set 4 x dropbolt
4L1R	inside WPS, PS outside	2 x pivot set 1 x intermediate carrier set 1 x right carrier set 2 x half offset hinge set 4 x dropbolt
3L2R	inside WPS, PS outside	2 x pivot set 1 x intermediate carrier set 1 x left carrier set 1 x hinge set 1 x half offset hinge set 4 x dropbolt
5L	inside WPS, PS outside	1 x pivot set 2 x intermediate carrier set 1 x hinge set 1 x half offset hinge set 4 x dropbolt
3L3R	inside WPS, PS outside	2 x pivot set 2 x intermediate carrier set 2 x half offset hinge set 6 x dropbolt
7L	inside WPS, PS outside	1 x pivot set 3 x intermediate carrier set 2 x hinge set 1 x half offset hinge set 6 x dropbolt
4L3R	inside WPS, PS outside	2 x pivot set 2 x intermediate carrier set 1 x right carrier set 3 x half offset hinge set 6 x dropbolt
5L2R	inside WPS, PS outside	2 x pivot set 2 x intermediate carrier set 1 x left carrier set 2 x hinge set 1 x half offset hinge set 6 x dropbolt
5L3R	inside WPS, PS outside	2 x pivot set 3 x intermediate carrier set 1 x hinge set 2 x half offset hinge set 8 x dropbolt

CODE	OPENING CONFIGURATION	HARDWARE
2R	inside PS, WPS outside LCS HS not accessible from exterior	1 x pivot set 1 x left carrier set 1 x hinge set 2 x dropbolt
1L2R	inside WPS, PS outside LCS HS	2 x pivot set 1 x left carrier set 1 x hinge set 2 x dropbolt
3R	inside ICS outside WPS, PS HHS	1 x pivot set 1 x intermediate carrier set 1 x half offset hinge set 2 x dropbolt
1L3R	inside WPS, PS ICS WPS, PS outside HHS	2 x pivot set 1 x intermediate carrier set 1 x half offset hinge set 4 x dropbolt
2L2R	inside WPS, PS MCS WPS, PS outside HS HS not accessible from exterior	2 x pivot set 1 x meeting carrier set 2 x hinge set 4 x dropbolt
1L4R	inside WPS, PS LCS ICS WPS, PS outside HHS HHS	2 x pivot set 1 x intermediate carrier set 1 x left carrier set 2 x half offset hinge set 4 x dropbolt
4R	inside LCS ICS WPS, PS outside HHS HHS	1 x pivot set 1 x intermediate carrier set 1 x left carrier set 2 x half offset hinge set 4 x dropbolt
2L3R	inside WPS, PS RCS ICS WPS, PS outside HS HHS	1 x pivot set 2 x intermediate carrier set 1 x right carrier set 1 x hinge set 1 x half offset hinge set 4 x dropbolt
5R	inside ICS ICS WPS, PS outside HS HHS	1 x pivot set 2 x intermediate carrier set 1 x hinge set 1 x half offset hinge set 4 x dropbolt
3L4R	inside WPS, PS ICS LCS ICS WPS, PS outside HHS HHS HHS	2 x pivot set 2 x intermediate carrier set 1 x left carrier set 3 x half offset hinge set 6 x dropbolt
7R	inside ICS ICS ICS WPS, PS outside HS HS HHS	2 x pivot set 3 x intermediate carrier set 2 x hinge set 1 x half offset hinge set 6 x dropbolt
2L5R	inside WPS, PS RCS ICS ICS WPS, PS outside HS HHS	2 x pivot set 2 x intermediate carrier set 1 x right carrier set 2 x hinge set 1 x half offset hinge set 6 x dropbolt
8R	inside LCS ICS ICS ICS WPS, PS outside HHS HS HS HHS not accessible from exterior	1 x pivot set 3 x intermediate carrier set 1 x left carrier set 2 x hinge set 8 x dropbolt

Component Selection


E2 Plus™ is specified with 5 separate groups:

- 1 track
- 2 sill with channel
- 3 hardware
- 4 weathersealing
- 5 dropbolts

Components are required from all 5 groups to build an E2 Plus folding door system.



TRACK SELECTION

Track lengths up to 27ft (8.22m). Cut to length on application.

PART	TRACK	PRODUCT CODE	DESCRIPTION
	Aluminium track, machined	14TAM2N	6' 7" (2000mm) aluminium track, machined, natural anodized
		14TAM3N	9' 10" (3000mm) aluminium track, machined, natural anodized
		14TAM4N	13' 1" (4000mm) aluminium track, machined, natural anodized
		14TAM6N	19' 8" (6000mm) aluminium track, machined, natural anodized
		14TAM2R	6' 7" (2000mm) aluminium track, machined, bronze
		14TAM3R	9' 10" (3000mm) aluminium track, machined, bronze
		14TAM4R	13' 1" (4000mm) aluminium track, machined, bronze
		14TAM6R	19' 8" (6000mm) aluminium track, machined, bronze


CHANNEL SELECTION

Channel Lengths up to 27ft (8.22m). Cut to length on application.

PARTS	CHANNEL	PRODUCT CODE	DESCRIPTION
	Concealed channel 13/16" (21mm), poly channel	E22FCP4	13' 1" (4000mm) floor channel, polypropylene
		E22FCP6	19' 8" (6000mm) floor channel, polypropylene
Replacement polypropylene channel fits inside aluminum channel			
	Concealed channel 15/16" (24mm), retainer	E22FCR4N	13' 1" (4000mm) floor channel retainer, natural anodized
		E22FCR6N	19' 8" (6000mm) floor channel retainer, natural anodized
		E22FCR4R	13' 1" (4000mm) floor channel retainer, bronze anodized
		E22FCR6R	19' 8" (6000mm) floor channel retainer, bronze anodized
Aluminum channel			

Channel With Poly Insert

Channel Lengths up to 27ft (8.22m). Cut to length on application.

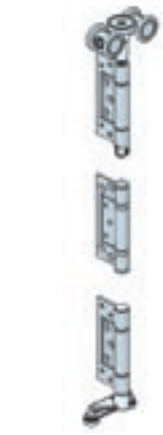

PARTS	CHANNEL	PRODUCT CODE	DESCRIPTION
	Concealed channel 15/16" (24mm), retainer and poly channel	E22FCR4NP	13' 1" (4000mm) floor channel retainer, natural anodized with poly channel
		E22FCR6NP	19' 8" (6000mm) floor channel retainer, natural anodized with poly channel
Aluminum channel with insert			

HARDWARE SELECTION

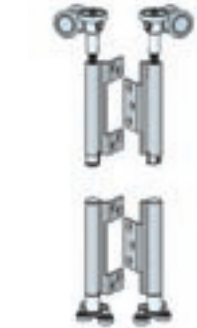

Left / Right Carrier Set

PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
 <p>a)  b) </p>	 <p>a)  b) </p>	<p>E2CLCSS E2CLCSB E2CLCSO</p> <p>E2CRCSS E2CRCSB E2CRCSO</p>	<p>concealed left hand carrier set, stainless steel concealed left hand carrier set, brass concealed left hand carrier set, oil rubbed bronze</p> <p>concealed right hand carrier set, stainless steel concealed right hand carrier set, brass concealed right hand carrier set, oil rubbed bronze</p>
<p>a) left hand carrier set with concealed bottom guide b) right hand carrier set with concealed bottom guide</p>			



Intermediate Carrier Set

PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
		<p>E2CICSS E2CICSB E2CICSO</p>	<p>concealed intermediate carrier set, stainless steel concealed intermediate carrier set, brass concealed intermediate carrier set, oil rubbed bronze</p>





Meeting Carrier Sets

PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
		<p>E2CMCSS E2CMCSB E2CMCSO</p>	<p>concealed meeting carrier set, stainless steel concealed meeting carrier set, brass concealed meeting carrier set, oil rubbed bronze</p>

Pivot Sets



PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
		E2CPSS E2CPSB E2CPSO	concealed pivot set, stainless steel concealed pivot set, brass concealed pivot set, oil rubbed bronze

Half offset hinge sets





PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
a)  b) 	a)  b) 	E22HHSS E22HHSB E22HHSO E22HHNHSS E22HHNH SB E22HHNH SO	half offset hinge set, stainless steel half offset hinge set, brass half offset hinge set, oil rubbed bronze no handle half offset hinge set, stainless steel no handle half offset hinge set, brass no handle half offset hinge set, oil rubbed bronze

a) half offset hinge set **with handle** for outswing doors
 b) half offset hinge set **with no handle** for inswing doors

Wall Pivot Set

PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
		E22WPSS E22WPSB E22WP SO	wall pivot set, stainless steel wall pivot set, brass wall pivot set, oil rubbed bronze

Hinge Sets

PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
<p>a) </p> <p>b) </p>	<p>a) </p> <p>b) </p>	<p>E22HSS</p> <p>E22HSB</p> <p>E22HSO</p> <p>E22HHSS</p> <p>E22HHSB</p> <p>E22HHSO</p>	<p>hinge set, stainless steel</p> <p>hinge set, brass</p> <p>hinge set, oil rubbed bronze</p> <p>no handle hinge set, stainless steel</p> <p>no handle hinge set, brass</p> <p>no handle hinge set, oil rubbed bronze</p>







a) hinge set **with handle** for outswing doors
 b) hinge set **with no handle** for inswing doors

External Handle

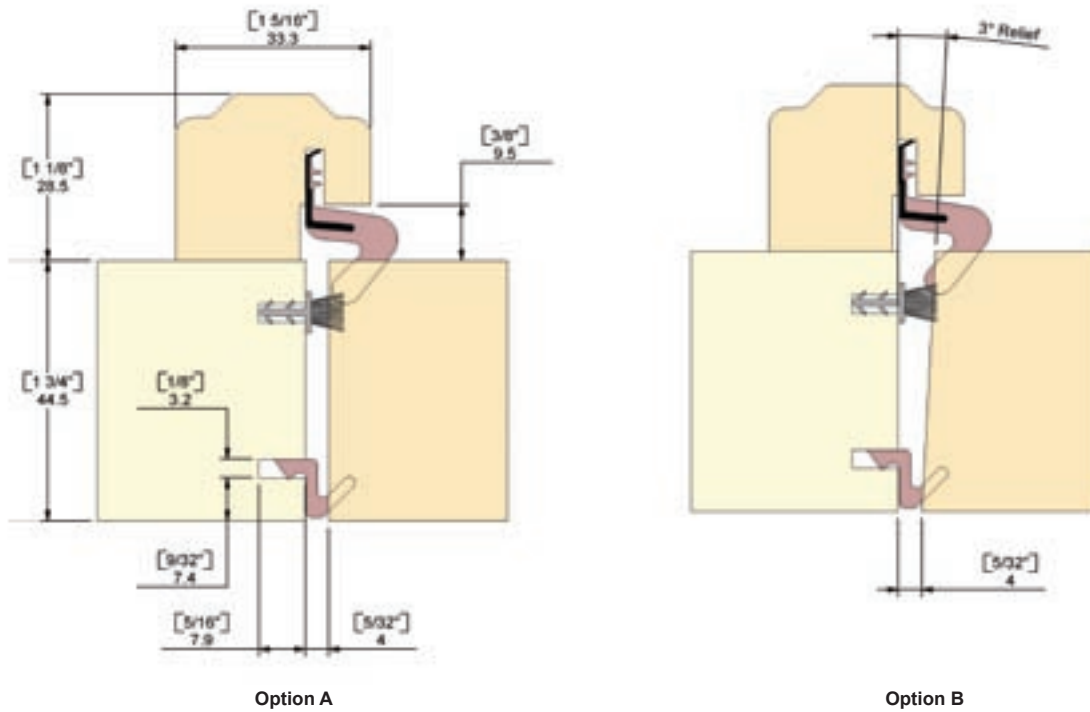
PARTS	PARTS ON PANELS	PRODUCT CODE	DESCRIPTION
		<p>E22EHS</p> <p>E22EHB</p> <p>E22EHO</p>	<p>external handle, stainless</p> <p>external handle, brass</p> <p>external handle, oil rubbed bronze</p>

single hinge **with handle** for outswing and inswing application (please refer to Common Panel Layouts page 12 for more details)



Weatherseals And Astragal Selection

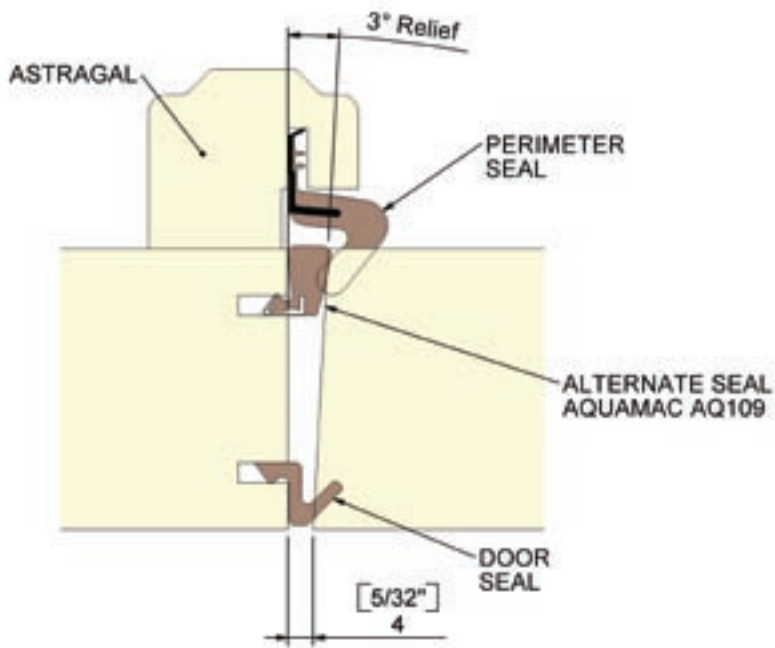
PARTS	PRODUCT CODE	DESCRIPTION
	369	Aluminum t-slot extrusion with grey pile insert for bottom of doors
	426	White or brown weatherseal for between doors
	427	White or brown weatherseal for sill, jamb and header (perimeter)
	428	White or brown adhesive backed weatherseal for between doors. Use on clad doors instead of kerf
	190	Astragal (FIR). May be stained or painted
	P108-35	For door with astragal

Astragal Detail – Triple Seal For Superior Sealing Performance for ‘meeting’ door panels



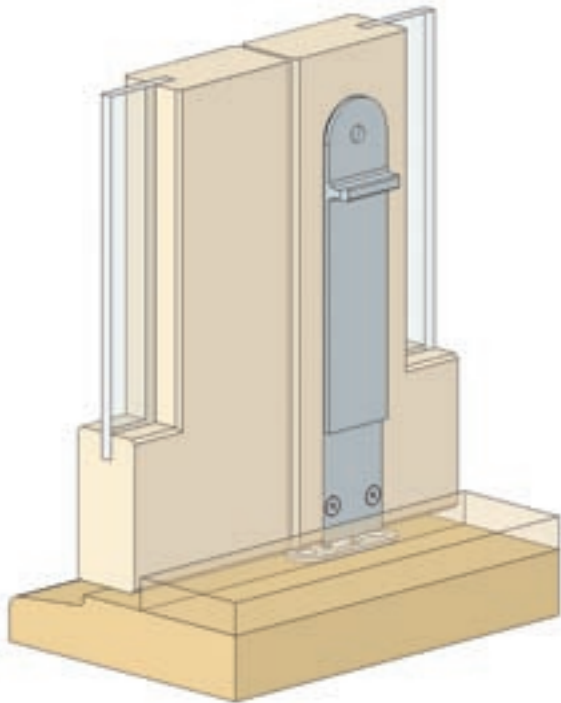
Weatherseal Alternate Selection

PART	PRODUCT CODE	PART DESCRIPTION
	<p>AQ63B AQ63L AQ63W</p>	<p>Aquamac 63 Schlegel Kerf seal, brown for between doors Aquamac 63 Schlegel Kerf seal, black for between doors Aquamac 63 Schlegel Kerf seal, white for between doors</p>
	<p>AQ109B AQ109L AQ109W</p>	<p>Aquamac 109 Schlegel Kerf seal, brown for access panel and astragal Aquamac 109 Schlegel Kerf seal, black for access panel and astragal Aquamac 109 Schlegel Kerf seal, white for access panel and astragal</p>



DROPBOLTS / SYMPHONY™

This flush-mounted dropbolt with 1" (25mm) throw is designed for use with sliding and folding doors. Symphony will resist high winds and is rated to resist a 550lb (250kg) load in Western Red Cedar and 990lb (450kg) in Amora. We can test your actual door section and provide a test certificate stating the rating achieved. The bolts are easily installed with a dedicated router bit and are available in three finishes



Patent granted



Symphony™ Specifications

Maximum wind load 990lb (450kg) force

Minimum door thickness 1 3/4" (44.45mm)

Bolt lengths 8" (200mm), 16" (400mm), 24" (600mm), 39" (1000mm)

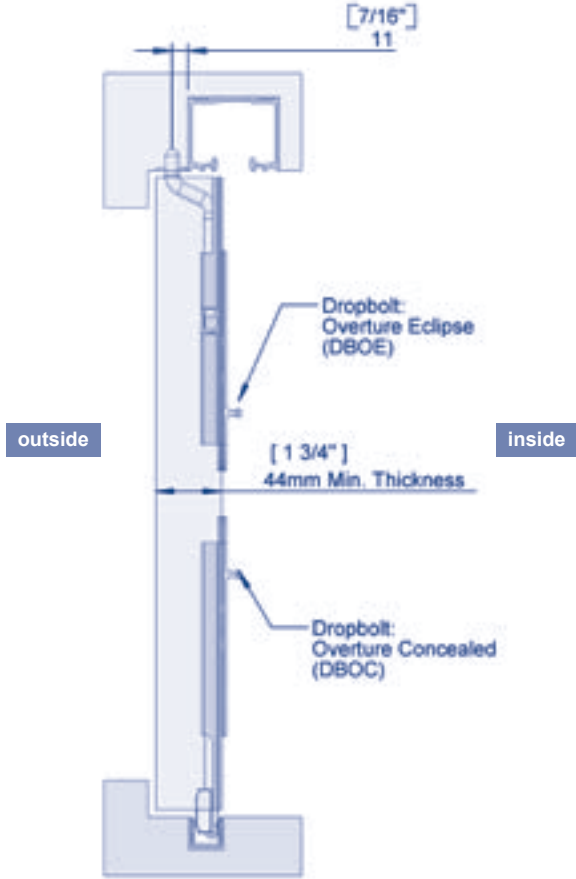
Throw length 1" (25mm)

Finishes Gold anodized to match Polished Brass hardware, Oil Rubbed Bronze on Aluminum to match US10B hardware, Brushed Metallic to match Stainless Steel Hardware

PART	PRODUCT CODE	DESCRIPTION
	KTDBSY200NRG	8" (200mm), gold anodized
	KTDBSY400NRG	16" (400mm), gold anodized
	KTDBSY600NRG	24" (600mm), gold anodized
	KTDBSY200NRO	8" (200mm), oil rubbed bronze
	KTDBSY400NRO	16" (400mm), oil rubbed bronze
	KTDBSY600NRO	24" (600mm), oil rubbed bronze
	KTDBSY1000NRO	39" (1000mm), oil rubbed bronze
	KTDBSY200NRX	8" (200mm), brushed metallic
	KTDBSY400NRX	16" (400mm), brushed metallic
	KTDBSY600NRX	24" (600mm), brushed metallic
	KTDBSY1000NRX	39" (1000mm), brushed metallic
	KTDBSY1000NRY	39" (1000mm), brushed metallic

DROPBOLTS / OVERTURE™ (for inswing doors)

Centor's latest dropbolt, Overture Eclipse is specifically designed to complement Centor's E2 Plus, E3 and E4 bi-folding hardware for inswing opening doors.

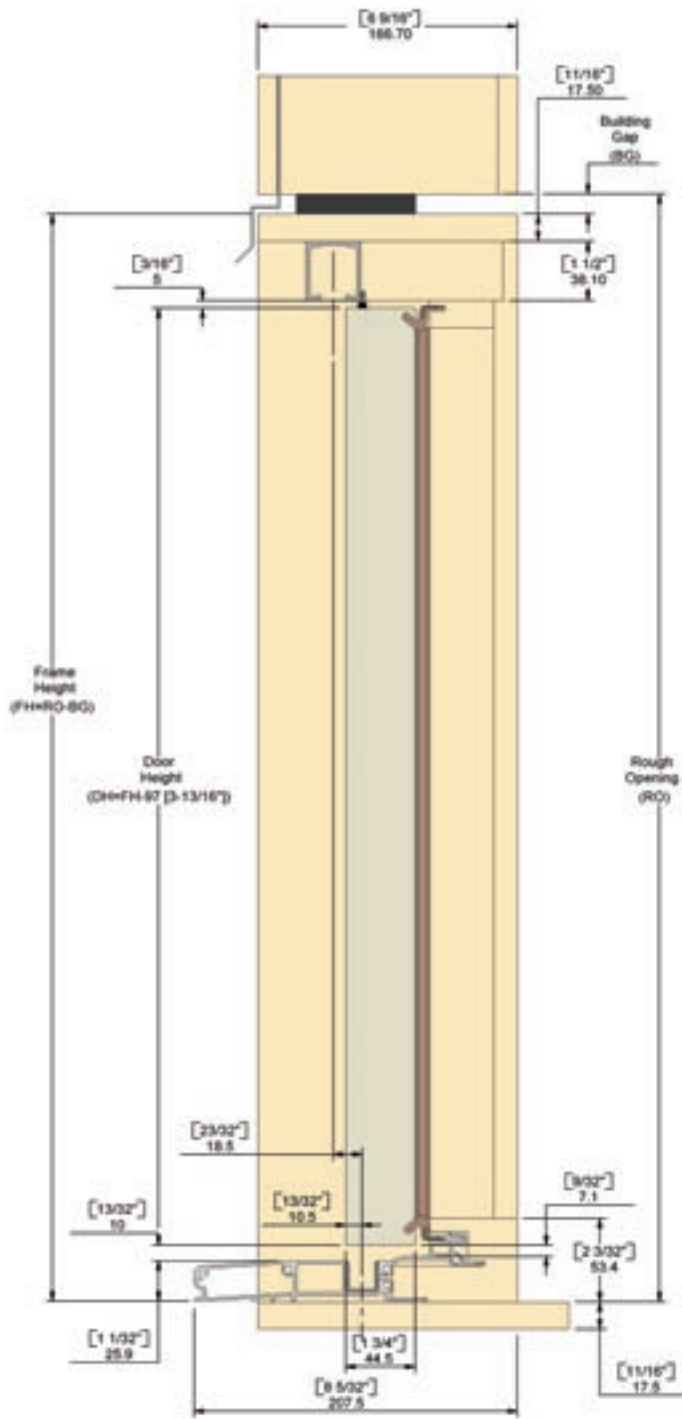


Overture™ Specifications
Minimum door thickness 1 3/4" (44.45mm)
Bolt lengths 8" (200mm), 16" (400mm), 24" (600mm), 39" (1000mm)
Throw length 3/4" (20mm)
Finishes Gold anodized to match Polished Brass hardware, Oil Rubbed Bronze on Aluminum to match US10B hardware, Brushed Metallic to match Stainless Steel Hardware

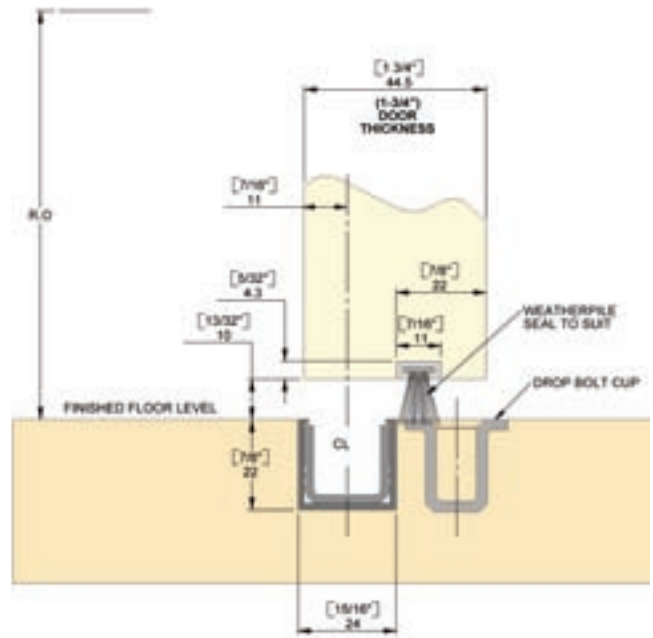
PART	PRODUCT CODE	DESCRIPTION
 <p>DBOC Dropbolt Overture Concealed</p>	DBOC200NRG	8" (200mm) concealed dropbolt, gold anodized
	DBOC200NRX	8" (200mm) concealed dropbolt, brushed metallic
 <p>DBOE Dropbolt Overture Eclipse</p>	DBOC200NRO	8" (200mm) concealed dropbolt, oil rubbed bronze
	DBOE200NRG	8" (200mm) dropbolt, gold anodized
	DBOE200NRX	8" (200mm) dropbolt, brushed metallic
	DBOE200NRO	8" (200mm) dropbolt, oil rubbed bronze
	DBOE400NRG	16" (400mm) dropbolt, gold anodized
	DBOE400NRX	16" (400mm) dropbolt, brushed metallic
	DBOE400NRO	16" (400mm) dropbolt, oil rubbed bronze
	DBOE600NRG	24" (600mm) dropbolt, gold anodized
	DBOE600NRX	24" (600mm) dropbolt, brushed metallic
	DBOE600NRO	24" (600mm) dropbolt, oil rubbed bronze
	DBOE1000NRG	39" (1000mm) dropbolt, gold anodized
	DBOE1000NRX	39" (1000mm) dropbolt, brushed metallic
	DBOE1000NRO	39" (1000mm) dropbolt, oil rubbed bronze

Installation Details

Full opening with self drain sill option

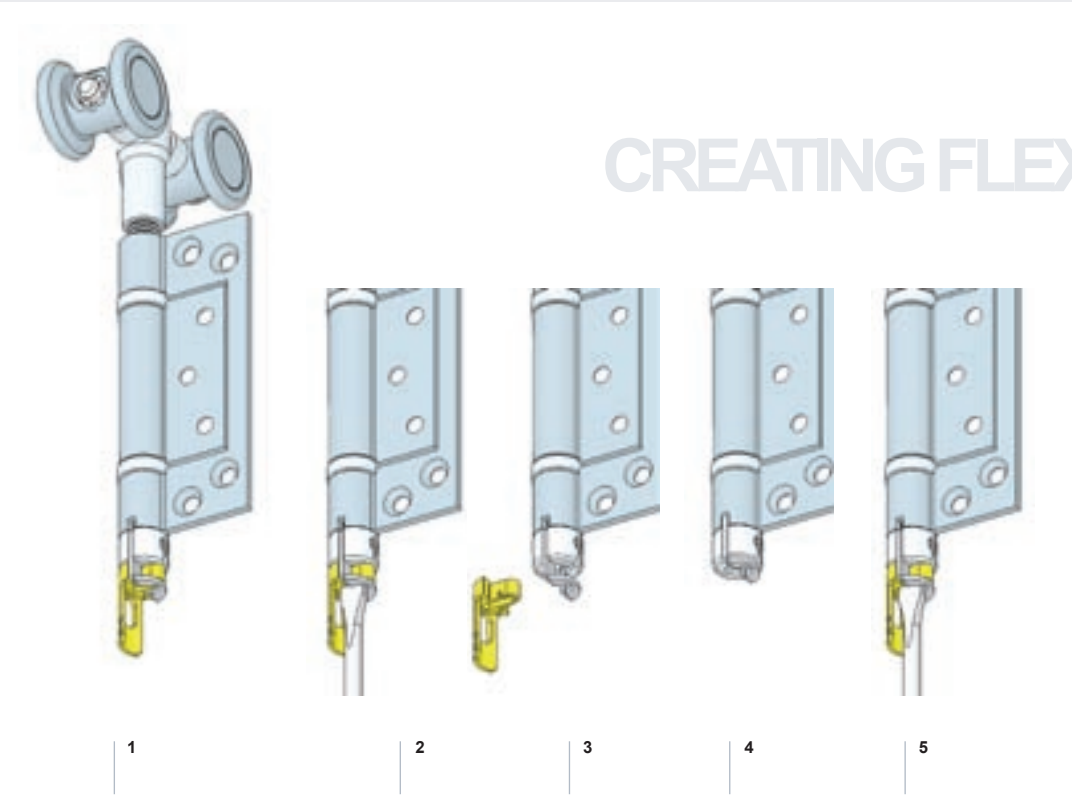


Flush with floor channel sill option



Surelock™ Adjustment

Surelock™ is Centor's patented carrier pin locking system which ensures that once door heights are set at the top pivots, intermediate and end carriers, they stay set!



Using Surelock™ is simple

- 1 Components come supplied with a plastic shipping clip installed.
- 2 Insert a flat-bladed screwdriver into the slot and rotate the pin.
- 3 When correct adjustment is reached remove the shipping clip.
- 4 Surelock™ will snap into place when the blade and slot are aligned.
- 5 To readjust pull the blade down to disengage it from the slot, replace the shipping clip and rotate the pin.
- 6 **Remove shipping clip after final installation adjustment.**

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