ES2 integrated screening system for bifold doors
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NO MORE COMPROMISES

ES2 Specifications

<table>
<thead>
<tr>
<th>max panel weight</th>
<th>40kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>max panel width</td>
<td>1000mm</td>
</tr>
<tr>
<td>max frame size</td>
<td></td>
</tr>
<tr>
<td>double screen</td>
<td>2400mm (H) x 5800mm (W)</td>
</tr>
<tr>
<td></td>
<td>3000mm (H) x 4800mm (W)</td>
</tr>
<tr>
<td>single screen</td>
<td>2400mm (H) x 3000mm (W)</td>
</tr>
<tr>
<td></td>
<td>3000mm (H) x 2400mm (W)</td>
</tr>
<tr>
<td>door thickness</td>
<td>38-40mm</td>
</tr>
</tbody>
</table>

Putting an end to the compromises between uninterrupted views and unrestricted movement and the need to eliminate unpleasant flying pests, Centor ES2 continues the evolution of the E2 bi-fold system.

Including a world-first fully integrated insect screening solution for bi-fold scale openings, ES2-based doors are ready for action as soon as temperatures allow. The rest of the year the screen system can be rolled back out of view, with hardware integrated into the architecture of the door frame itself.

Created for real life use, ES2 allows for child-friendly operation with fingertip ease using a simple magnetic catch which is operable from any height on the stile. Once positioned the screen can be released without fear of slamming shut. The tough mesh used in the screen is hardwearing and resistant to damage from pets.

A single screen up to 2.4m high may be up to 3m wide, while a single screen above 2.4m high up to 3m high may be up to 2.4m wide.

A double screen up to 2.4m high may be up to 5.8m wide, while a double screen above 2.4m high up to 3m high may be up to 4.8m wide.
Once again Centor’s commitment to research and development has produced a product as advanced as it is functional. Integrated into the architecture of the door frame itself ES2 functions simply and smoothly. Features built into ES2’s screen system include:

**Load Balancing Technology™**
Load Balancing Technology (LBT™) (patent pending) allows for the effortless fingertip control synonymous with Centor products. With no crude spring-loading to fight against, the screen’s lead-stile remains firmly in any chosen position until further pressure is applied. Load-balancing also means far greater tension across the screen, eliminating any tendency for sag.

**Tight Technology™**
Tight Technology™ manufacturing techniques ensure control of the horizontal edges of the screen so they remain straight and tight across the widest spans.

**Shock Absorption**
A shock absorption system allows visitors taken in by the screen’s unobtrusiveness and near invisibility to walk away with no more than a surprise – and no system damage.

**Self-Feeding Mechanism**
Should strong winds blow the screen out of the top or bottom channels the screen will self-feed back onto the roll.

**Materials**
ES2 is manufactured entirely in stainless steel, brass and reinforced engineering polymers. Tough PVC-coated polyester mesh used in the screen, is hardwearing and resistant to damage from pets. The mesh is easy to clean and can be replaced.

**Testing**
The screen system has undergone cyclic testing to 50,000 operations in a laboratory and been extensively exposed to dust, mud, sand and corrosive atmosphere. It has stood up to impact testing with a 17kg punching bag 100 times and considerable pushing, poking and prodding to simulate real life usage.
Currenty there is no Australian Standard specifically for external bifold doors, however Australian Standard AS 2047-1999 Windows in Buildings – Selection and Installation specifies materials and performance requirements for external windows and doors. The wind load, weather and operational performance specified for other types of external windows and doors could reasonably be expected to apply to an external folding door system used in the same application. Centor recommends that all users obtain a copy of AS 2047 and AS 4420 from Standards Australia.

Centor has tested an ES2 insect screen folding door system to the applicable requirements of AS 2047-1999 in a NATA certified testing facility (Test No. AZT0100) and obtained the results shown in the table above.

This performance data is an indication of the ratings that can be achieved with appropriate door design and manufacture. Centor does not manufacture complete door systems but supplies both the folding hardware and outer frame incorporating ES2 to door manufacturers for assembly and construction. The Centor technical department can assist manufacturers in the design and testing process for doors incorporating Centor Insect Screen systems to ensure the required performance criteria for a complete assembled folding door system meets similar standards.

**Specifying ES2**

For detailed component selection specifiers can utilise ES2 Screencalc, Centor’s free specification and ordering software. ES2 Screencalc is available from www.centor.com.au

Architects and Designers can feel comfortable simply specifying “Centor ES2” and leaving detailed component selection to the builder, joiner or fabricator.

**Warranty**

Centor Architectural offers a 5 year limited warranty on its ES2 Insect Screen.
ARCHITECTURAL DETAIL

Vertical Profile
ARCHITECTURAL DETAIL
Horizontal Profile

Patent Pending
Single screen shown
Head fixed with special 6mm x 75mm stainless steel tek screws supplied. Refer to E2 specification for spacing.

Fixing plate installed with batten screws before door is fitted.
Flashing

Fix with batten screws at 450mm centers; refer to E2 specifications for spacing. (140g x 75mm shown)

Brad

Resilient packer as necessary

10g x 50mm batten screws; refer to E2 specification for spacing

Head support timber
30 x 180 x width of Head
ARCHITECTURAL DETAIL
Brick Veneer Head – Alternate C

Fix with batten screws at 450mm centers; refer to E2 specifications for spacing. (140g x 75mm shown)
ARCHITECTURAL DETAIL
Brick Veneer Jamb – Option 1

- Flashing
- Bracket fixed to stud by #6 x 25mm countersunk tek screws at 600 centers
- Fixing bracket riveted to jamb
- Brad max length 25mm
- Packer 8mm x 30mm adhere to frame
- Architrave 120 x 18
- Storm mould or sealant
Bracket fixed to stud by #6 x 25mm countersunk tek screws at 600 centers.

Fixing bracket riveted to jamb.

Brad max length 35mm.

Architrave 120 x 18.

Packer 8mm x 30mm adhere to frame.

Trim 80 x 18.

Storm mould or sealant.

Flashing.
ARCHITECTURAL DETAIL
Concrete Beam Fixing

- Dynabolt 8mm x 75mm
  Refer to E2 specifications for spacing
- Impervious coating applied to surface prior to affixing door
- Resilient packer at each fixing point
- Sealant
Impervious coating applied to opening prior to affixing door

Sealant

Packing blocks fitted at anchor points

Brad

Dynabolt 6 x 125, 3 places equally spaced

Sealant

Adhesive

Packer 19x40

Architrave
Dynabolt 8mm x 75mm at 600mm centers
Moulding or Trim as required by builder to conceal flashing and fixing

10g x 50mm batten screws at 450mm centers

Head support timber 30 x 180 x width of head

Fix with batten screws at 450mm centers; refer to E2 specifications for spacing. (140g x 75mm shown)

Brad

Packer

Optional Architrave
Flashing

Moulding or trim as required by builder to conceal flashing and fixing

Head fixed with 6mm x 75mm stainless steel tek screws supplied
Refer to E2 specifications for spacing

Fixing plate ESHFP100 installed with #10 x 50mm batten screws before door is fitted

Packer
ARCHITECTURAL DETAIL
Chamfer Board Jamb

Bracket fixed to stud
#6x25mm countersunk
tek screws at 600 centres

Fixing bracket riveted to jamb

Brad

Architrave
120mm x 12mm

Flashing

Packer 8mm x 30mm by builder adhere to frame

Moulding or trim to be sealed to jamb and cladding
While every effort has been made to ensure the accuracy of the information in this publication, Centor Architectural assume no responsibility for errors or omissions or any consequences of reliance solely on this publication.
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