

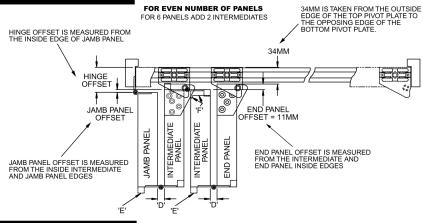
Section A: Diagrams to calculate Timbafold door sizes

Capacity Summary:

- · Maximum leaf weight:40kg.
- · Minimum leaf width: 450mm.
- Maximum leaf width: 810mm.
- Maximum leaf height: 2700mm.Minimum door thickness: 40mm.
- For a unit with swinging access door:
 - · Maximum leaf weight: 33kg.

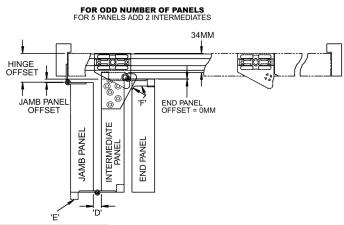
Even number of panels (All folding to one side of opening)

For 6 panels add 2 intermediates.



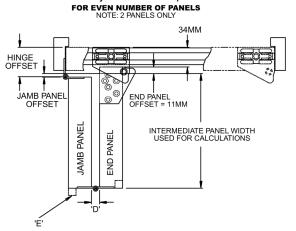
Odd number of panels (All folding to one side of opening)

For 5 panels add 2 intermediates.



Even number of panels (All folding to one side of opening)

2 panels only. Note: Intermediate panel width is still used to calculate jamb and end panel widths.



Note: Intermediate panel width is still used to calculate jamb and end panel widths.



Section B: Calculations for Timbafold Door Sizes

Offset Calculation Steps:

1A. If the hinge offset is greater than 45mm,

Jamb Panel Offset = Hinge Offset - 45

1B. If the hinge offset is less than 45mm,

Jamb Panel Offset = 45 - Hinge Offset

1C. For an even number of panels,

End Panel Offset = 11mm

For an odd number of panels,

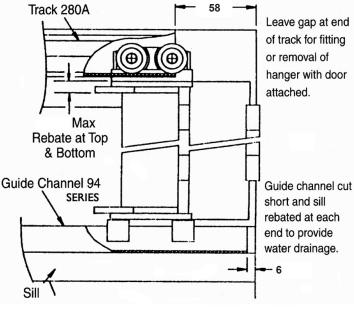
End Panel Offset = 0mm

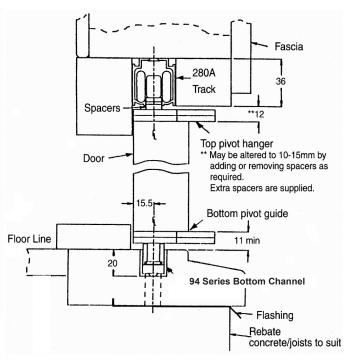
If the hinge offset is greater than 45mm,

Total Offset = End Panel Offset - Jamb Panel Offset

If the hinge offset is less than 45mm,

Total Offset = End Panel Offset + Jamb Panel Offset







Clearance Calculations

2. Total Clearance = (Hinge Clearance x Number of Panels) + Jamb Clearance.

Intermediate Panel Width Calculations

3. Intermediate Panel Width = <u>Distance between Jambs - Total Offset - Total Clearance</u>
Number of Panels

Jamb End Panel Width Calculations

4. If the hinge offset is greater than 45mm,

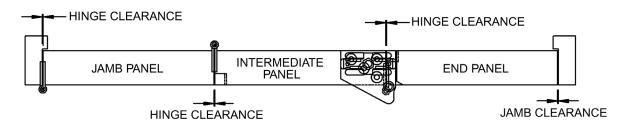
Jamb Panel Width = Intermediate Panel - Jamb Panel Offset

If the hinge offset is less than 45mm,

Jamb Panel Width = Intermediate Panel + Jamb Panel Offset

End Panel Width = Intermediate Panel + End Panel Offset

HINGE CLEARANCE MEASURED FROM INSIDE OF PANEL EDGES TYPICAL VALUE = 1.5MM





Section C: Specific examples of Workings

2 Panel Bi-fold Example

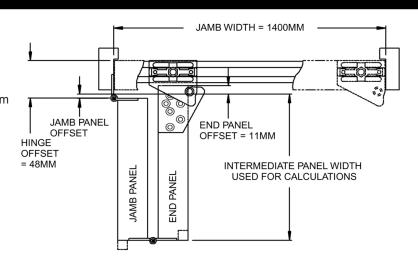
Workings:

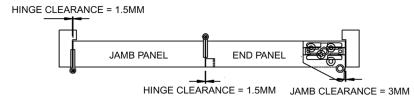
Jamb Panel Offset = 48 - 45 = 3mm End Panel Offset = 11mm Total Offset = 11 - 3 = 8mm Total Clearance = $(1.5 \times 2) + 3 = 6$ mm

Intermediate Panel Width = 1400 - 8 - 6 = 693mm

Jamb Panel Width = 693 - 3 = 690mm End Panel Width = 693 + 11 = 704mm

Note: Extra allowance for rebates to be added last.





2 Panel Bi-fold with Acess Door Example

Workings:

Jamb Panel Offset = 48 - 45 = 3mm End Panel Offset = 11mm

Total Offset = 11 - 3 = 8mm

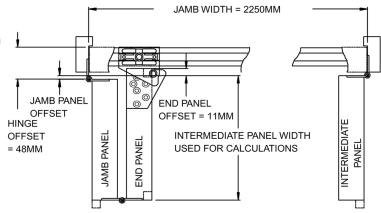
Total Clearance = $(1.5 \times 3) + 3 = 7.5 \text{mm}$

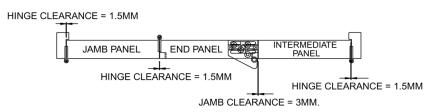
Intermediate Panel Width = 2250 - 8 - 7.5 = 745mm

Jamb Panel Width = 745 - 3 = 742mm

End Panel Width = 745 + 11 = 756mm

Note: Extra allowance for rebates to be added last.







Double 2 Panel Bi-fold Example

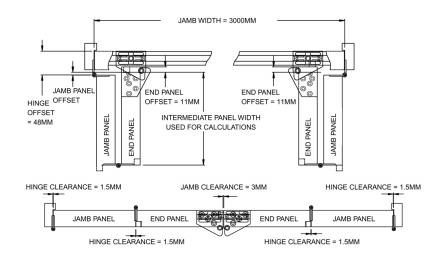
Workings:

Double Jamb Panel Offset = (48 - 45) x 2 = 6mm Double End Panel Offset = 11 x 2 = 22mm Total Offset = 22 - 6 = 16mm Total Clearance = $(1.5 \times 4) + 3 = 9 \text{mm}$ Intermediate Panel Width = 3000 - 16 - 9 = 744mm

Jamb Panel Width = 744 - 3 = 741mm End Panel Width = 744 + 11 = 755mm Note: To prevent the closed bi-fold from over - toggling when opened, allow 5mm to 10mm extra for end panel offset.

Double end Panel Offset becomes (11 + 5) x 2 = 32mm Total Offset becomes 32 - 6 = 26mm Intermediate Panel Width = 3000 - 26 - 9 = 741mm

Jamb Panel Width becomes = 741 - 3 = 738mm End Panel Width = 741 + 11+ 5 = 757mm



Note: Extra allowance for rebates to be added last.

3 Panel Bi-fold Example

Workings:

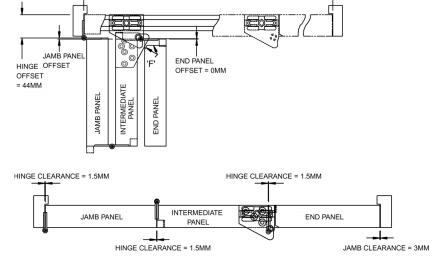
Jamb Panel Offset = 45 - 44 = 1mm End Panel Offset = 0mm Total Offset = 0 + 1 = 1mm

Total Clearance = $(1.5 \times 3) + 3 = 7.5$ mm

Intermediate Panel Width = $\underline{2100 - 1 - 7.5}$ = 697mm

Jamb Panel Width = 697 + 1 = 698mm Fnd Panel Width = 697 + 0 = 697mm

Note: Extra allowance for rebates to be added last.



JAMB WIDTH = 2100MM



3 Panel Bi-fold with Access Door Example:

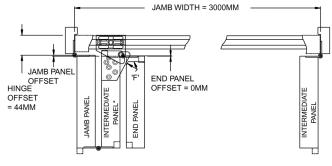
Workings:

Jamb Panel Offset = 45 - 44 = 1mm End Panel Offset = 0mm Total Offset = 0 + 1 = 1mm Total Clearance = $(1.5 \times 4) + 3 = 9$ mm Intermediate Panel Width = 3000 - 1 - 9 = 748mm

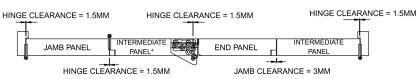
Jamb Panel Width = 748 + 1 = 749mm End Panel Width = 748 + 0 = 748mm Note: To prevent the closed bi-fold from over – toggling when opened, allow 5mm to 10mm extra for end panel offset.

Jamb Panel Offset becomes 0 + 5 = 5mm Total Offset becomes 5 + 1 = 6mm Intermediate Panel Width = 3000 - 6 - 9 = 746mm

Jamb Panel Width becomes = 746 + 1 = 747mm End Panel Width = 746 + 0 = 746mm Intermediate Panel Width Marked * = 746 + 5 = 751mm



Note: Extra allowance for rebates to be added last.

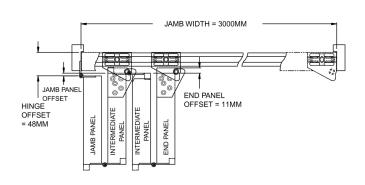


4 Panel Bi-fold Example:

Workings:

Jamb Panel Offset = 48 - 45 = 3mm End Panel Offset = 11mm Total Offset = 11 - 3 = 8mm Total Clearance = $(1.5 \times 4) + 3 = 9$ mm Intermediate Panel Width = 3000 - 8 - 9 = 746mm

Jamb Panel Width = 746 - 3 = 743mm End Panel Width = 746 + 11 = 757mm



Note: Extra allowance for rebates to be added last.

