

# 4

Section 4

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## **Intumescent Seals**



## Intumescent Seals:

**NOTE:** This section deals with the edge sealing of doors & frames only. Intumescent provisions for glazing and hardware are dealt with separately under 'Glazing' and 'Hardware'.

The use of intumescent seals is essential to achieve the potential fire performance of wood and wood based doorsets.

Strebord<sup>®</sup> core doors have been tested with PVC encapsulated sodium silicate and Graphite based intumescent seals. Positive pressure seals of the types used for determining performances under test conditions are available from numerous sources. (See below).

**WARNING:** Intumescent seal materials must be of the types and sizes described in this manual and must be located as illustrated in this Section.

Intumescent seals should be carefully fitted in accordance with the seal manufacturer's recommendations.

It is particularly important that the seal at the head should extend to the full width of the door (and preferably, the frame head) to ensure suitable sealing at the top joints of the frame that is a particular area of weakness under fire test conditions.

**NOTE:** Excepting for use with some steel frames, concealed intumescent systems are not approved for 'Q' mark applications.

### Sources:

Proprietary Intumescent sealing systems, suitable for use with doors using Strebord<sup>®</sup> cores can be obtained from a number of sources including:

Norseal Ltd.  
Intumescent Seals Ltd.  
Lorient Polyproducts Ltd.  
Mann McGowan Ltd.  
Pyroplex Ltd.  
Sealmaster Ltd.

**NOTE:** Further information with regard to intumescent sealing systems can be obtained from I.F.S.A. (Intumescent Fire Seals Association).

## Extended Application:

**NOTE 1:** It may be possible to extend the dimensional applications envelope given by reference to Section 2 - Fire Door Applications Data by adjustment of the intumescent sealing. Requirements of this nature should be referred to Falcon Panel Products Ltd. in the first instance together with details of the particular application requirement. Where necessary, additional base test data may be requested together with authority for use of such data for the purpose of assessment.

**Note 2:** Alternatively, it may be possible to consider the use of FD60 constructions for FD30 applications where the dimensional limits applicable to the FD30 constructions are not suitable for a particular project.

The extent to which it is possible to extend dimensional envelopes cannot be determined without the benefit of detailed knowledge of the intended application.

Where design requirements describe products that fall outside of the scope of the assessed dimensional applications envelopes described in Section 2 of this manual for any particular performance, full details of the requirement should be forwarded to:

### Falcon Panel Products Ltd.,

Clock House,  
Station Approach,  
Shepperton,  
Middlesex TW178AN

**Tel: 01932 256580**

**Fax: 01932 230268**

**WARNING:** Various formulae are used in the manufacture of intumescent seals that may provide for different performance characteristics under fire conditions. The mixing of intumescent seal types for use in the same doorset is not approved.

## Intumescent Seals

# FD30

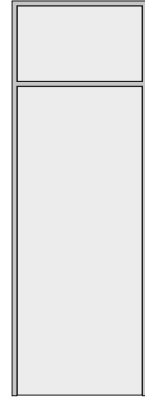
## 10x4mm PALUSOL P100

**Q** Single Leaf FD30 applications using 10x4mm Palusol Intumescent Seals.

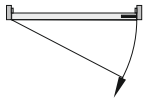
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

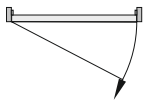


### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 1067mm  
To: 2460 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*

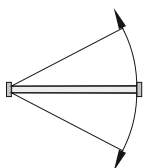


### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 1042mm  
To: 2410 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

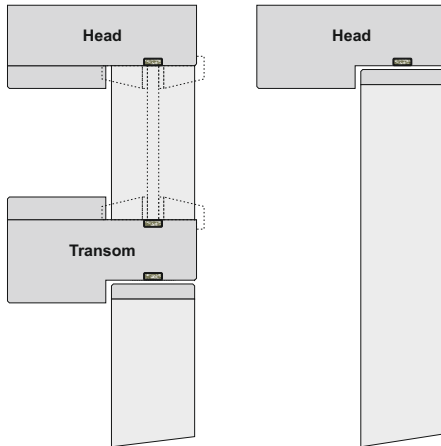
**Jams & Head** = 10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 1042mm  
To: 2410 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*

# FD30 Intumescent Seals

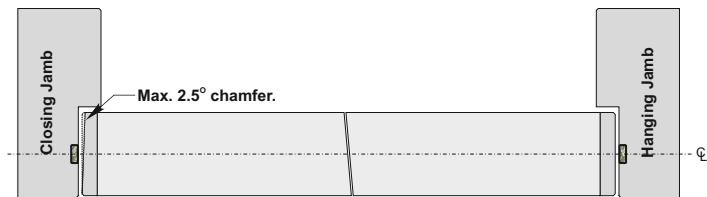
## 10x4mm PALUSOL P100



### Single Action Single leaf

Fig. 4.1

- Door Height Assemblies
- Storey Height Assemblies with Transom.

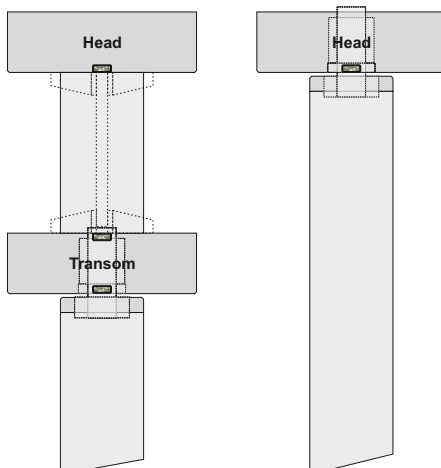


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

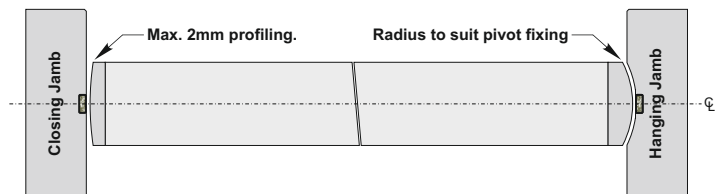
NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



### Double Action Single leaf

Fig. 4.2

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



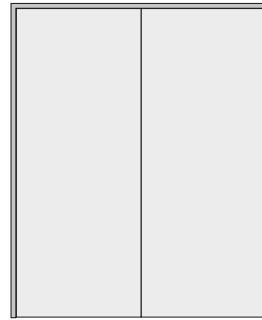
## Intumescent Seals

# FD30

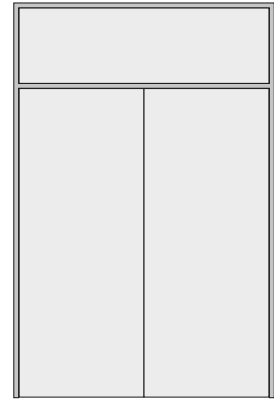
## 10x4mm PALUSOL P100

**Q** Double Leaf FD30 applications using 10x4mm Palusol Intumescent Seals.

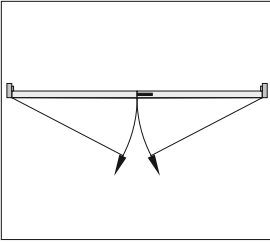
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



### Latched Double leaf Single Action Doorsets (Pairs):

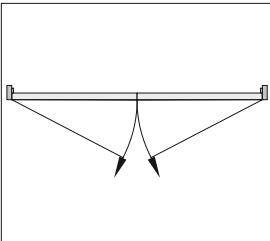
**Jambs & Head** = 10x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 2x1017mm  
To: 2360 x 2x902mm

*NOTE 1: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Unlatched Double leaf Single Action Doorsets (Pairs):

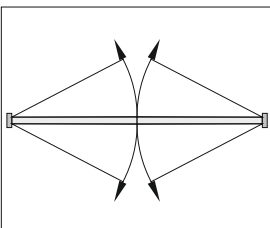
**Jambs & Head** = 10x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 2x992mm  
To: 2310 x 2x902mm

*NOTE 1: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Double Action Double leaf Doorsets (Pairs):

**Jambs & Head** = 10x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

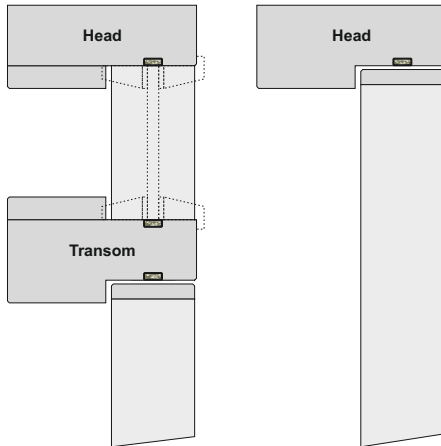
**Door Leaf sizes:** From: 2100 x 2x992mm  
To: 2310 x 2x902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Palusol P100 to all sides of the overpanel.*

# FD30 Intumescent Seals

4.5

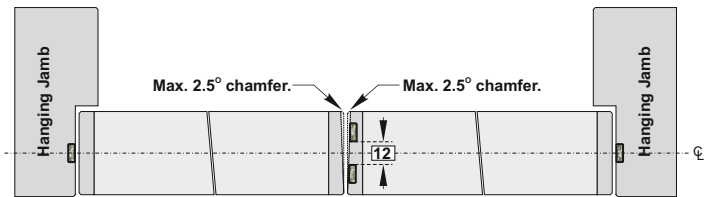
## 10x4mm PALUSOL P100



### Single Action Double leaf

Fig. 4.3

- Door Height Assemblies
- Storey Height Assemblies with Transom.

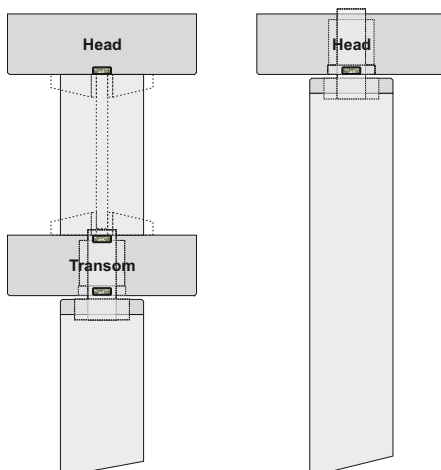


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals should be applied to all sides of the overpanel.

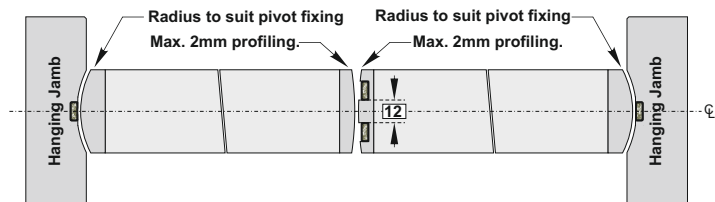
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



### Double Action Double leaf

Fig. 4.4

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



## 15x4mm PALUSOL P100

**Q** Single Leaf FD30 applications using 15x4mm Palusol Intumescent Seals.

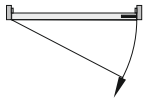
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

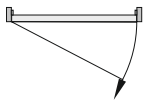


### Latched Single leaf Single Action Doorsets:

**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2700 x 1161mm  
To: 2925 x 1072mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*

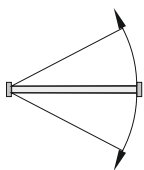


### Unlatched Single leaf Single Action Doorsets:

**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 1140mm  
To: 2620 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

**Jambs & Head** = 15x4mm PVC encased Palusol P100.

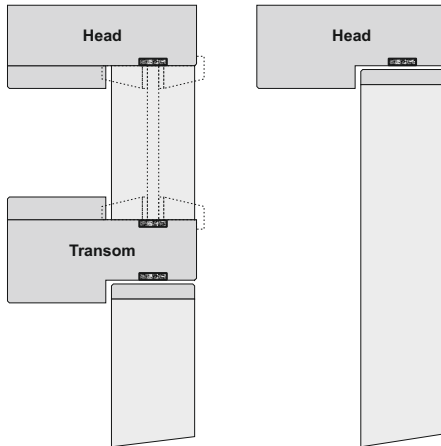
**Door Leaf sizes:** From: 2100 x 1140mm  
To: 2620 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*



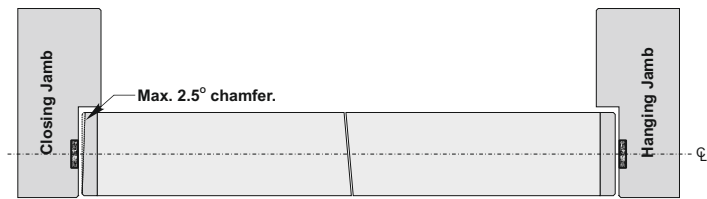
# FD30 Intumescent Seals

## 15x4mm PALUSOL P100



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

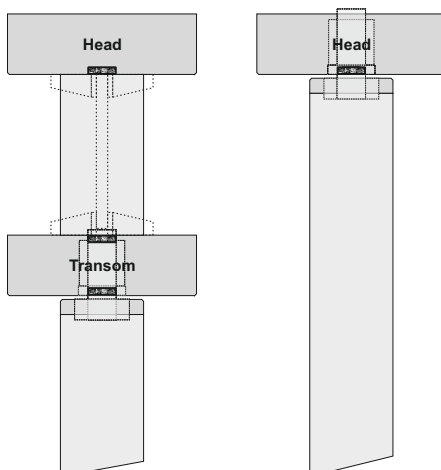
Fig. 4.5



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

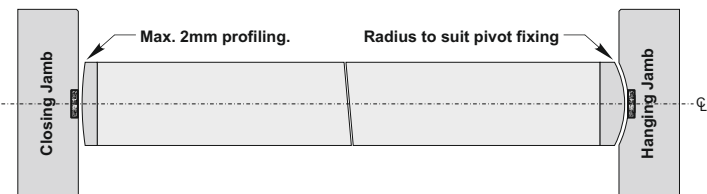
- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.6



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



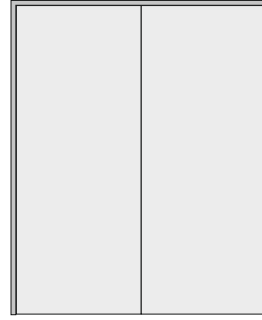
## Intumescent Seals

# FD30

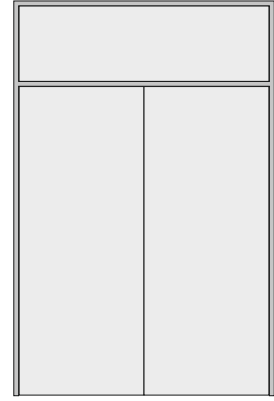
## 15x4mm PALUSOL P100

**Q** Double Leaf FD30 applications using 15x4mm Palusol Intumescent Seals.

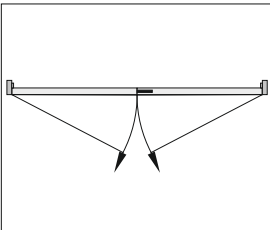
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



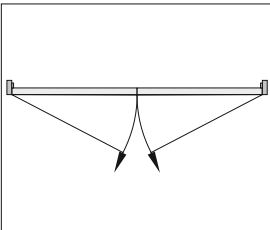
### Latched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 15x4mm PVC encased Palusol P100:

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100:

**Door Leaf sizes:** From: 2100 x 2x1065mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*



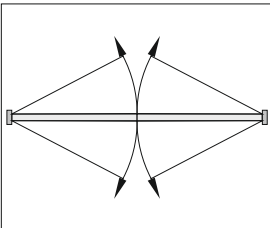
### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 2x1040mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### Double Action Double leaf Doorsets (Pairs):

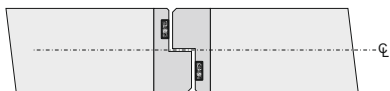
**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2100 x 2x1040mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Palusol P100 to all sides of the overpanel.*

**Q**



### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Palusol P100 with one strip located centrally in each rebate.

# FD30 Intumescent Seals

## 15x4mm PALUSOL P100

**Q**

**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

*Fig. 4.7*

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.

**Q**

**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

*Fig. 4.8*

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



## Intumescent Seals

# FD30

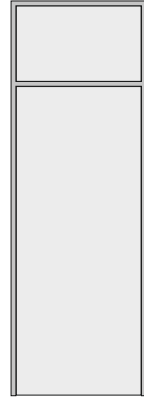
## **20x4mm PALUSOL P100**

**Q** Single Leaf FD30 applications using 20x4mm Palusol Intumescent Seals.

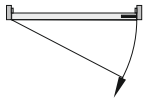
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

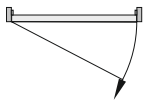


### **Latched Single leaf Single Action Doorsets:**

**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2800 x 965mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*

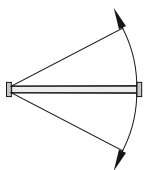


### **Unlatched Single leaf Single Action Doorsets:**

**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2800 x 940mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### **Double Action Single leaf Doorsets:**

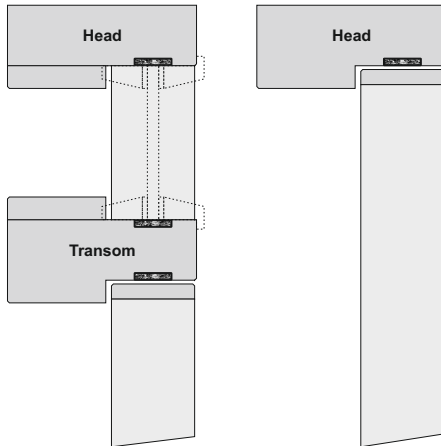
**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2800 x 940mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*

# FD30 Intumescent Seals

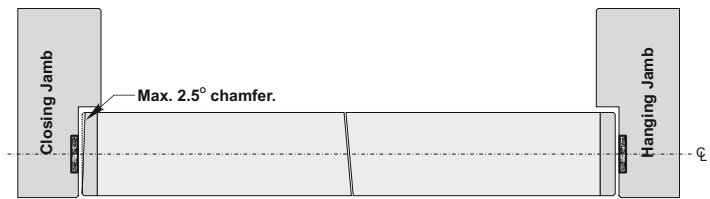
## 20x4mm PALUSOL P100



### Single Action Single leaf

Fig. 4.9

- Door Height Assemblies
- Storey Height Assemblies with Transom.

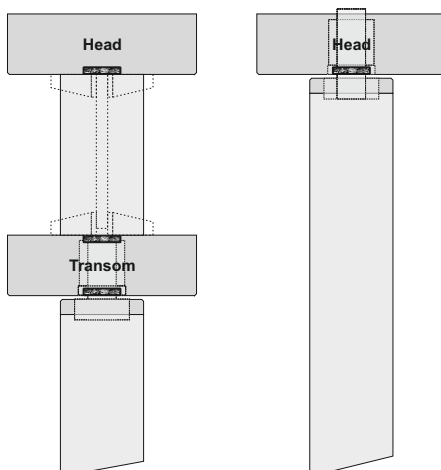


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

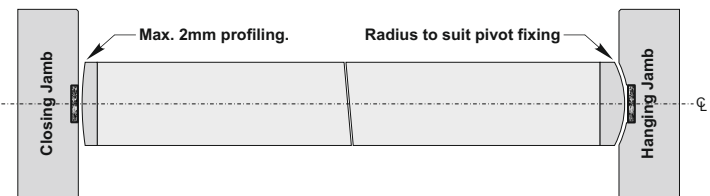
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



### Double Action Single leaf

Fig. 4.10

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



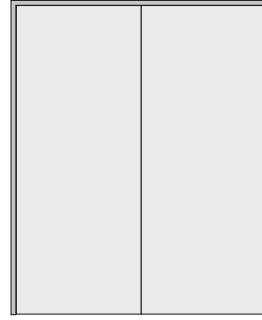
## Intumescent Seals

# FD30

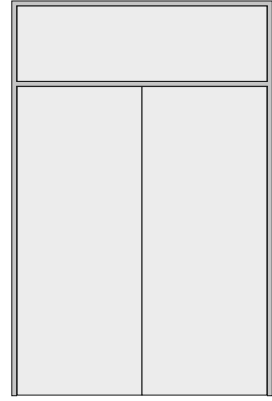
## 20x4mm PALUSOL P100

**Q** Double Leaf FD30 applications using 20x4mm Palusol Intumescent Seals.

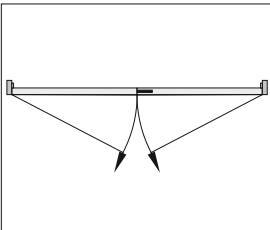
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



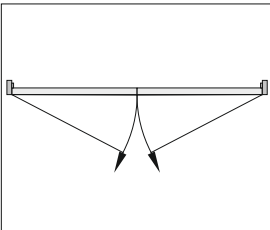
### Latched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1065mm  
To: 2470 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*



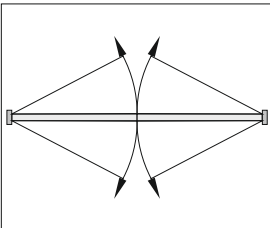
### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### Double Action Double leaf Doorsets (Pairs):

**Jambs & Head** = 20x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Palusol P100 to all sides of the overpanel.*

**Q**

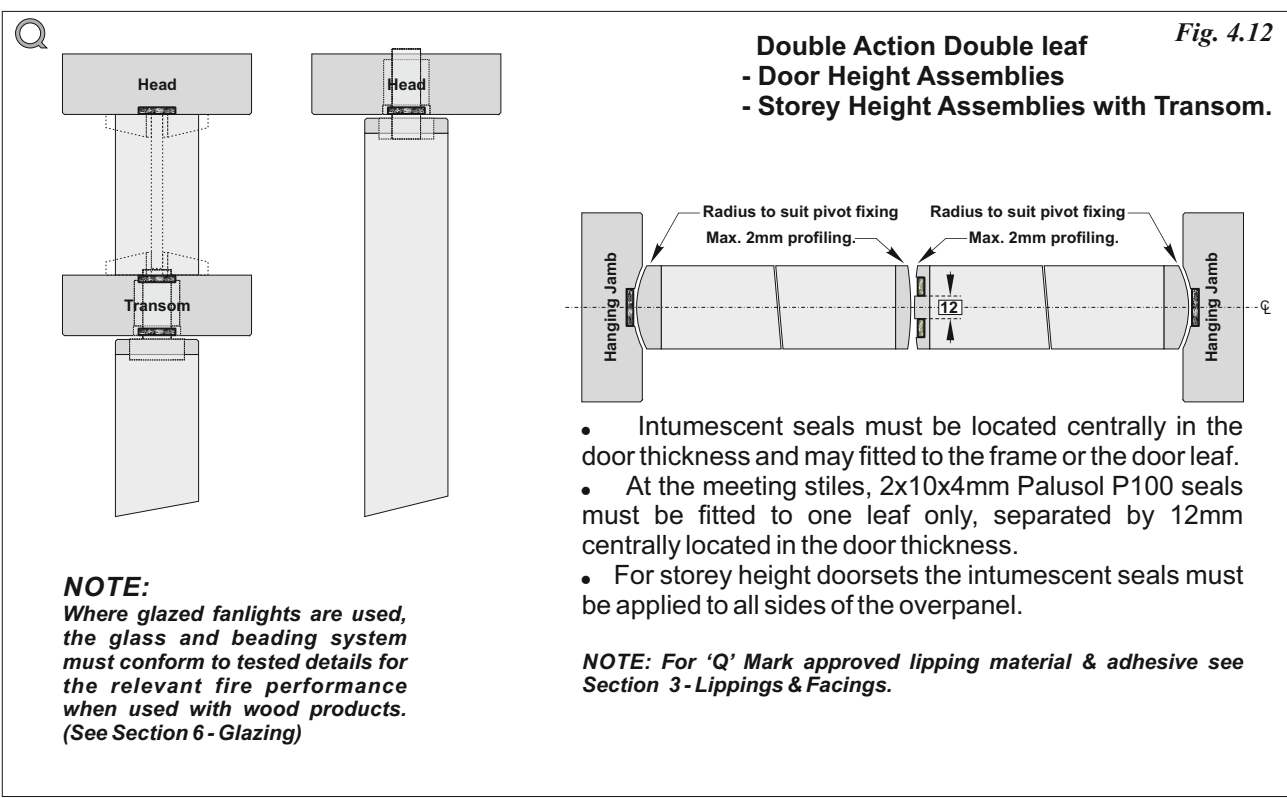
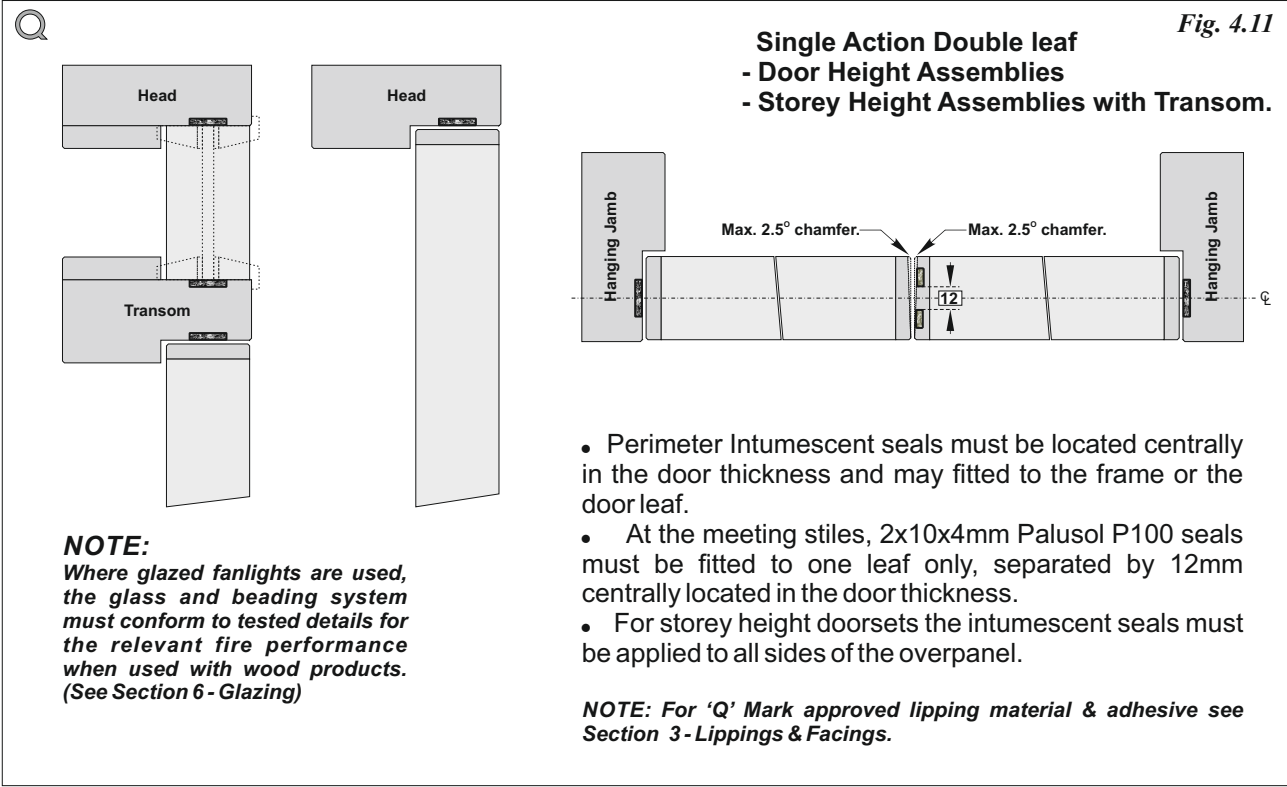


### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Palusol P100 with one strip located centrally in each rebate.

# FD30 Intumescent Seals

## 20x4mm PALUSOL P100



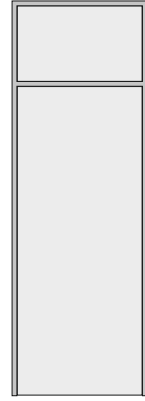
Intumescent Seals **FD30**
**25x4mm PALUSOL P100**

**Q** Single Leaf FD30 applications using 25x4mm Palusol Intumescent Seals.

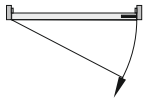
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



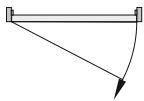
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 25x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 3000 x 965mm  
To: 3223 x 915mm

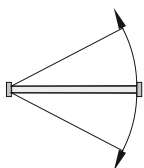
*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 25x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 3000 x 940mm  
To: 3173 x 915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*


**Double Action Single leaf Doorsets:**

**Jams & Head** = 25x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 3000 x 940mm  
To: 3173 x 915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*



# FD30 Intumescent Seals

## 25x4mm PALUSOL P100

**Fig. 4.13**

**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Fig. 4.14**

**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For must height doorsets the intumescent seals should be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



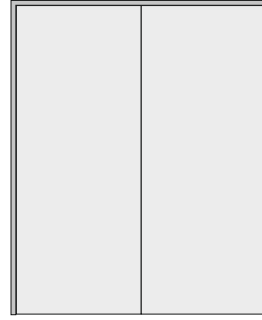
## Intumescent Seals

# FD30

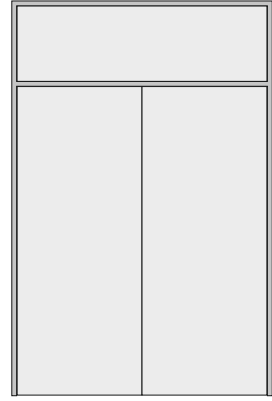
## 25x4mm PALUSOL P100

**Q** Double Leaf FD30 applications using 25x4mm Palusol Intumescent Seals.

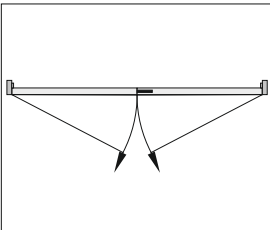
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



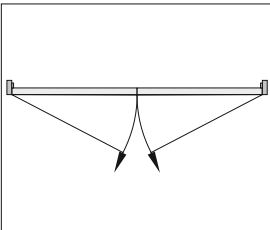
### Latched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 25x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1065mm  
To: 2470 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*



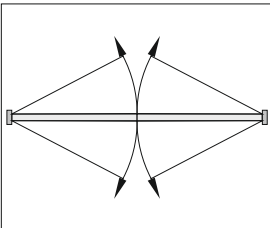
### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambs & Head** = 25x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*



### Double Action Double leaf Doorsets (Pairs):

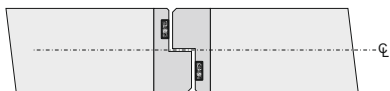
**Jambs & Head** = 25x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Palusol P100 to all sides of the overpanel.*

**Q**

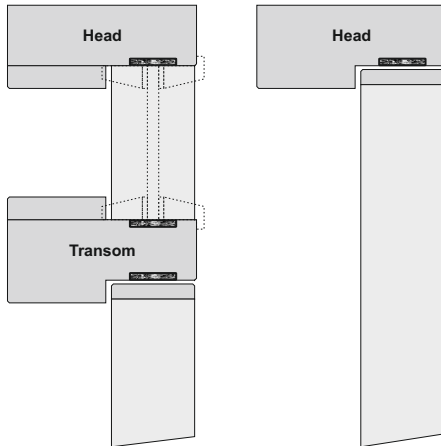


### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Palusol P100 with one strip located centrally in each rebate.

# FD30 Intumescent Seals

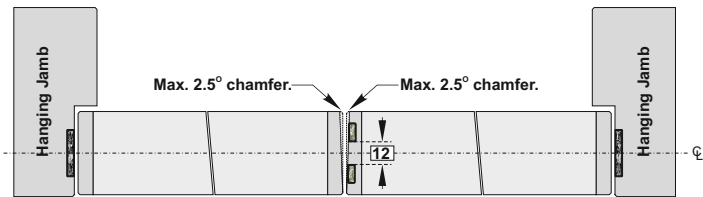
## 25x4mm PALUSOL P100



Single Action Double leaf

Fig. 4.15

- Door Height Assemblies
- Storey Height Assemblies with Transom.

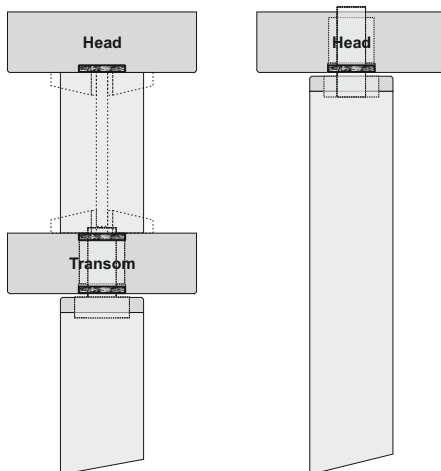


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

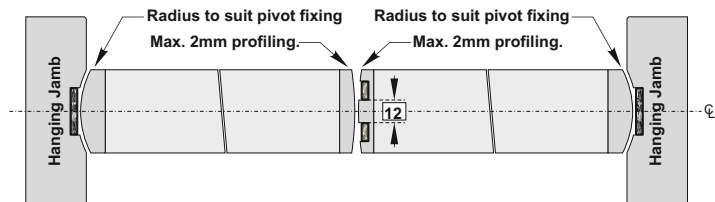
NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



Double Action Double leaf

Fig. 4.16

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



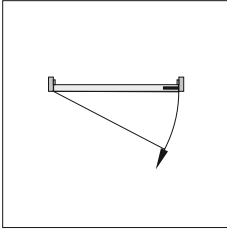
## 15x4mm PALUSOL P100

**Q** Single Leaf FD30 applications using 15x4mm Palusol Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Storey Height Doorsets  
with Flush Overpanel



### Latched Single leaf Single Action Storey Height Doorsets:

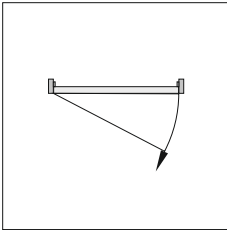
**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Palusol P100 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 1115mm  
To: 2570 x 915mm

*NOTE: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*



### Unlatched Single leaf Single Action Storey Height Doorsets:

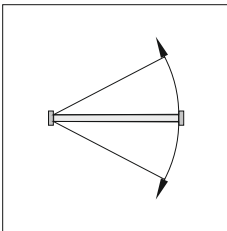
**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Palusol P100 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 1090mm  
To: 2520 x 915mm

*NOTE: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*



### Double Action Single leaf Storey Height Doorsets:

**Jambs & Head** = 15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Palusol P100 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

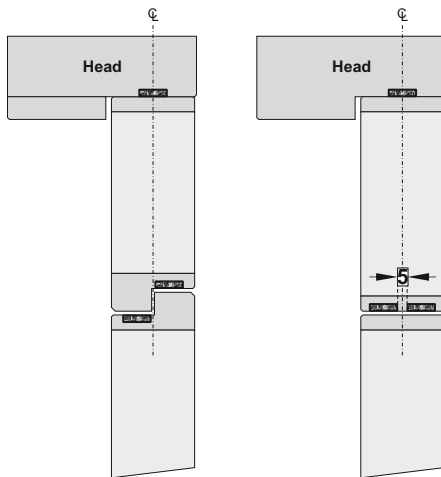
**Door Leaf sizes:** From: 2100 x 1090mm  
To: 2520 x 915mm

*NOTE: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*

# FD30 Intumescent Seals

## 15x4mm PALUSOL P100

Q



Single Action Single leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.17



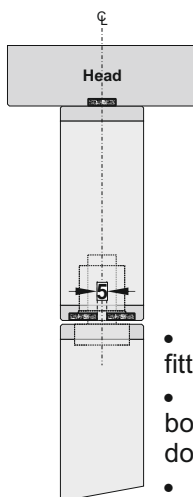
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the use of square edges are recommended for single leaf doorsets with 2x15x4 seals

located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.

- The door may be rebated to the overpanel with a 12mm rebate located centrally in the door thickness. Where a rebated junction is used 1x15x4 seal must be fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

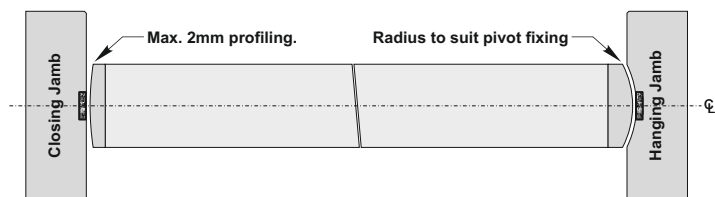
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q



Double Action Single leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.18



- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



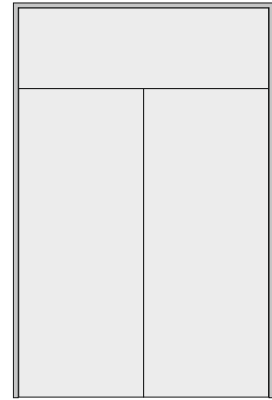
## Intumescent Seals

# FD30

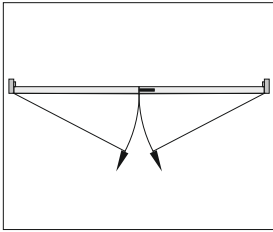
## 15x4mm PALUSOL P100

**Q** Double Leaf FD30 applications using 15x4mm Palusol Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Storey Height Doorsets  
with Flush Overpanel



### Latched Double leaf Single Action Doorsets (Pairs):

**Jambes & Head** = 15x4mm PVC encased Palusol P100.

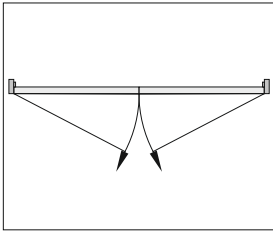
**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 2x1015mm  
To: 2370 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambes & Head** = 15x4mm PVC encased Palusol P100.

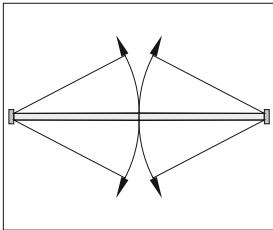
**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 2x990mm  
To: 2320 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Double Action Double leaf Doorsets (Pairs):

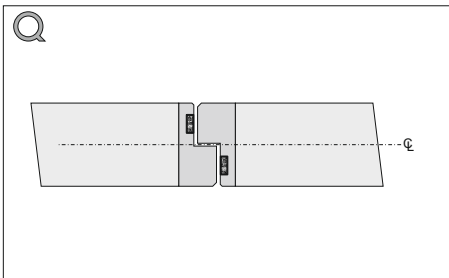
**Jambes & Head** = 15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x10x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Palusol P100 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2100 x 2x990mm  
To: 2320 x 2x915mm

*NOTE: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*



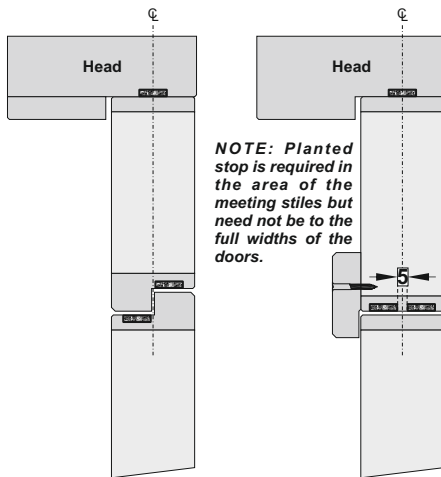
### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Palusol P100 with one strip located centrally in each rebate.

*NOTE: Rebated meeting stiles may be used with storey height double leaf doorsets with flush overpanels. However the junction between the door and overpanel should be square with 2No. 15x4 Palusol seals separated by 5mm and located centrally in the overpanel thickness. An astragal added to the closing face of the overpanel is required to prevent swing through of the door leaves.*

# FD30 Intumescent Seals

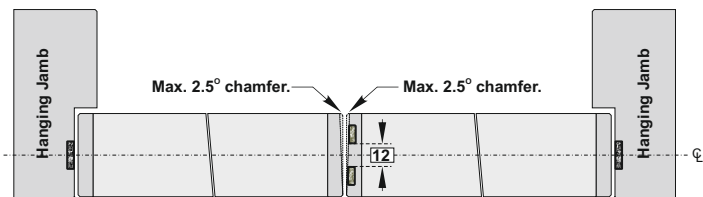
## 15x4mm PALUSOL P100



**NOTE:** Planted stop is required in the area of the meeting stiles but need not be to the full widths of the doors.

**Single Action Double leaf Storey Height Assemblies with Flush Overpanel.**

Fig. 4.19



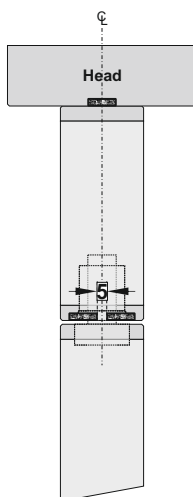
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the door is rebated to the overpanel to prevent swing through of the door. The 12mm rebate is located centrally in the door thickness with 1x15x4 seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.

rebate is located centrally in the door thickness with 1x15x4 seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.

- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

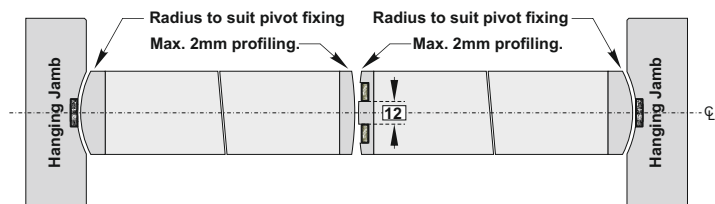
**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE 2:** An astragal can be fitted to the closing face of the overpanel to prevent swing through of pairs of doors as an alternative to rebating with intumescent seals located by reference to Fig. 4.17.



**Double Action Double leaf Storey Height Assemblies with Flush Overpanel.**

Fig. 4.20



- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- At the meeting stiles, 2x10x4mm Palusol P100 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.

- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:** Pivot devices used for this application must have BEEN tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



## Intumescent Seals

# FD30

## 10x4mm Pyroplex

**Q** Single Leaf FD30 applications using 10x4mm Pyroplex Intumescent Seals.

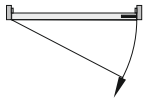
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

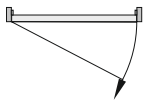


### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 951mm  
To: 2090 x 926mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyroplex to all sides of the overpanel.*



### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 926mm  
To: 2040 x 926mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyroplex to all sides of the overpanel.*



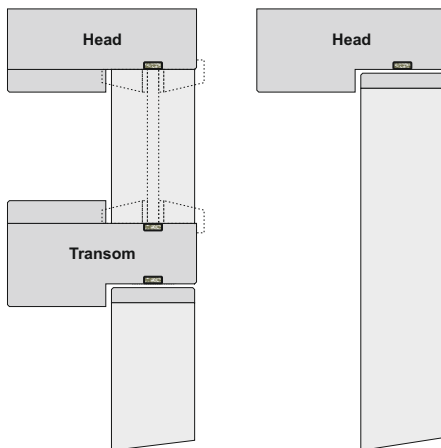
# FD30 Intumescent Seals

4.23

**10x4mm Pyroplex**

FD30 Fire Door Applications  
Intumescent Seals

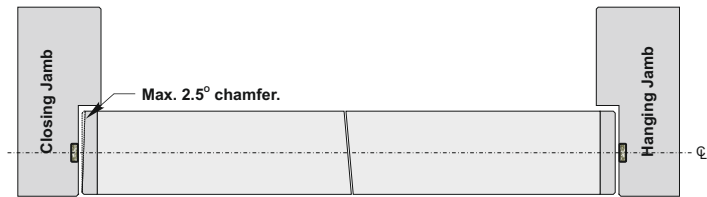
Q



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.21



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q

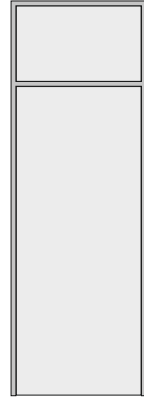
## 15x4mm Pyroplex

**Q** Single Leaf FD30 applications using 15x4mm Pyroplex Intumescent Seals.

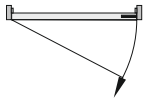
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

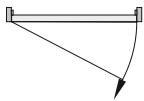


### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 1100mm  
To: 2800 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*

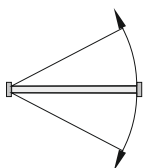


### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 1075mm  
To: 2750 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

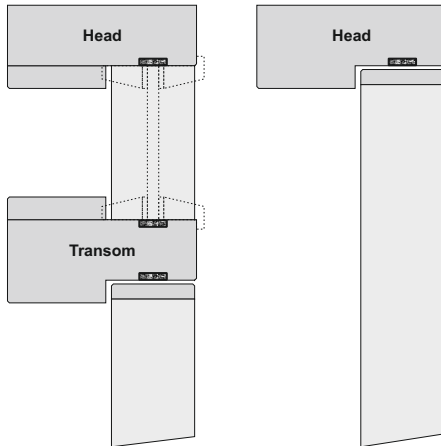
**Jams & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 1075mm  
To: 2750 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*

# FD30 Intumescent Seals

## 15x4mm Pyroplex

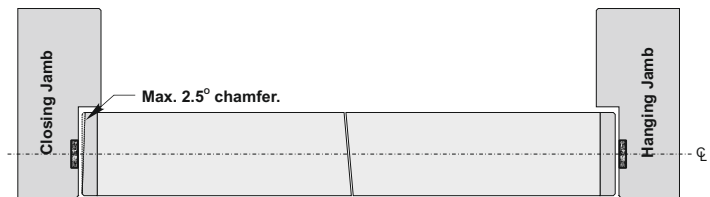


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.22

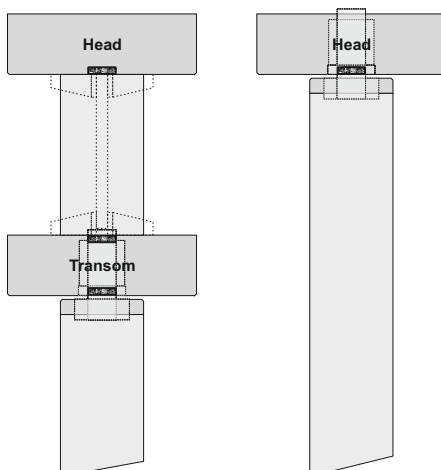
### Single Action Single leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

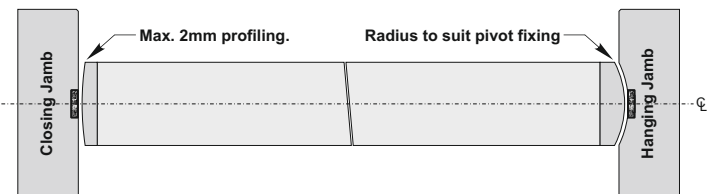


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.23

### Double Action Single leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



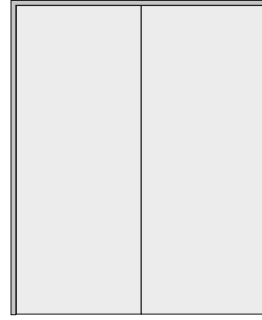
## Intumescent Seals

# FD30

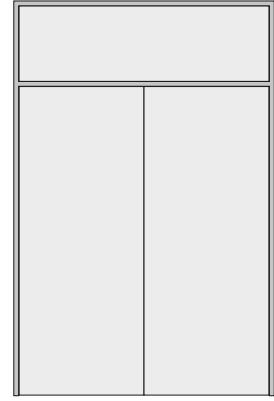
## 15x4mm Pyroplex

**Q** Double Leaf FD30 applications using 15x4mm Pyroplex Intumescent Seals.

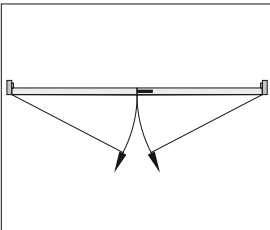
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



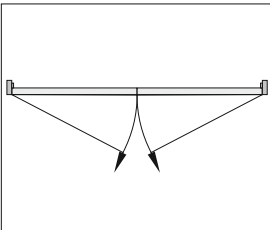
### Latched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 2x1100mm  
To: 2800 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*



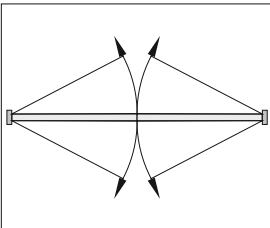
### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 2x1075mm  
To: 2750 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*



### Double Action Double leaf Doorsets (Pairs):

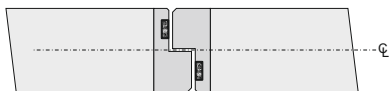
**Jamb & Head** = 15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2440 x 2x1075mm  
To: 2750 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Pyroplex to all sides of the overpanel.*

**Q**



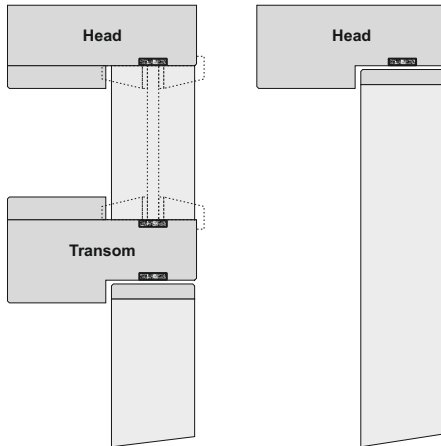
### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Pyroplex with one strip located centrally in each rebate.

*NOTE: Maximum 'Q' Mark approved door leaf height when used with rebated meeting stiles = 2134mm x 915mm maximum width.*

# FD30 Intumescent Seals

## 15x4mm Pyroplex

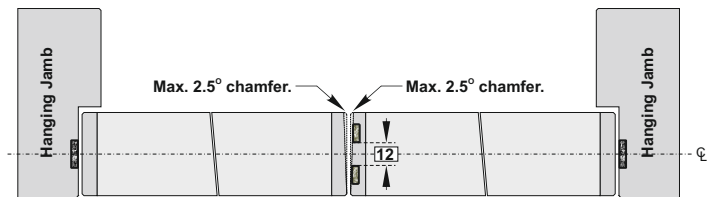


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.24

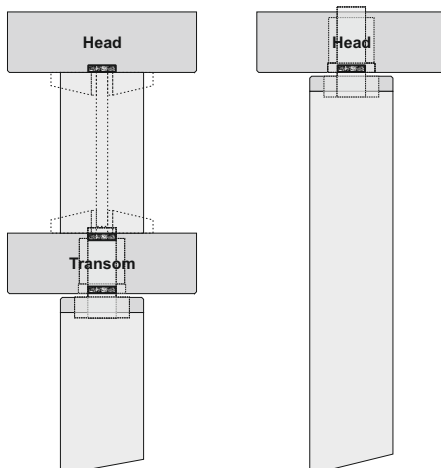
### Single Action Double leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyroplex seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

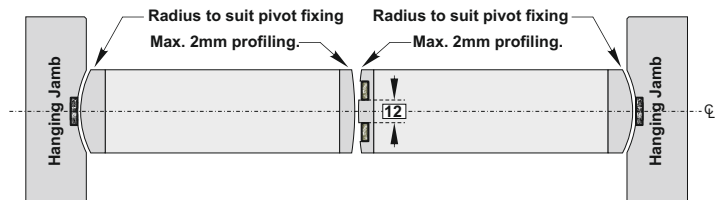


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.25

### Double Action Double leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyroplex seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



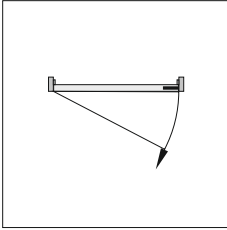
## 15x4mm Pyroplex

### Q Single Leaf FD30 applications using 15x4mm Pyroplex Intumescent Seals.

**NOTE:** See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.



Single leaf  
Storey Height Doorsets  
with Flush Overpanel



#### Latched Single leaf Single Action Storey Height Doorsets:

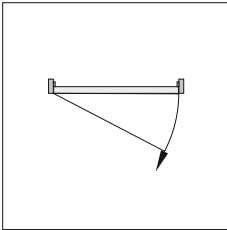
**Jambs & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Pyroplex fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Pyroplex fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

**NOTE:** Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.



#### Unlatched Single leaf Single Action Storey Height Doorsets:

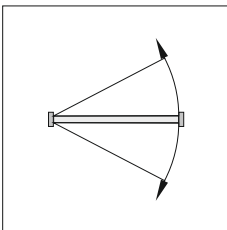
**Jambs & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Pyroplex fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Pyroplex fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

**NOTE:** Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.



#### Double Action Single leaf Storey Height Doorsets:

**Jambs & Head** = 15x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Pyroplex fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

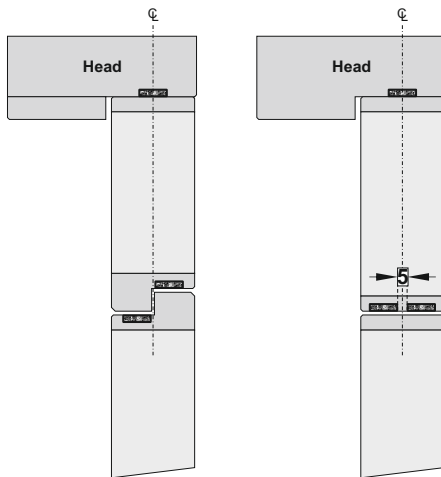
**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

**NOTE:** Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.

# FD30 Intumescent Seals

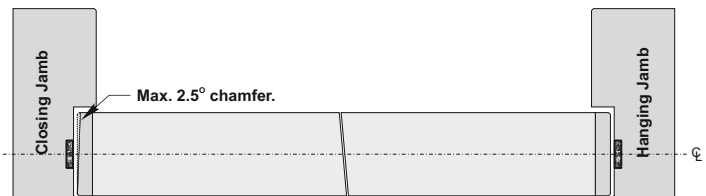
4.29

## 15x4mm Pyroplex



Single Action Single leaf  
Storey Height Assemblies  
with Flush Overpanel.

Fig. 4.26

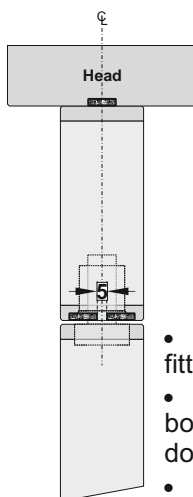


- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the use of square edges are recommended for single leaf doorsets with 2x15x4 seals

located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.

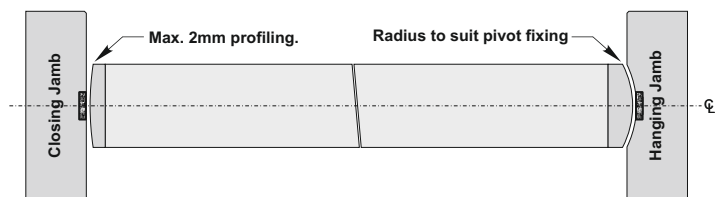
- The door may be rebated to the overpanel with a 12mm rebate located centrally in the door thickness. Where a rebated junction is used 1x15x4 seal should be fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



Double Action Single leaf  
Storey Height Assemblies  
with Flush Overpanel.

Fig. 4.27



- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

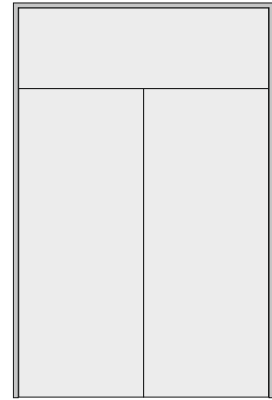
**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



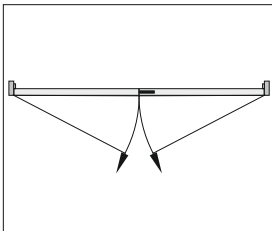
## 15x4mm Pyroplex

**Q** Double Leaf FD30 applications using 15x4mm Pyroplex Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Storey Height Doorsets  
with Flush Overpanel



### Latched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 15x4mm PVC encased Pyroplex.

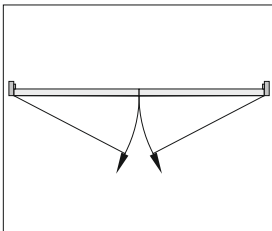
**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Pyroplex fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 15x4mm PVC encased Pyroplex.

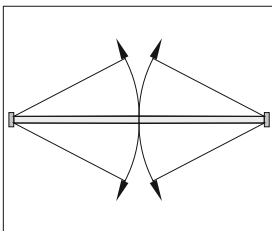
**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Pyroplex fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Double Action Double leaf Doorsets (Pairs):

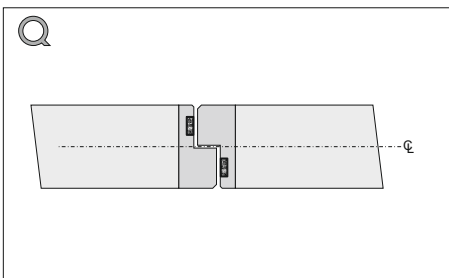
**Jamb & Head** = 15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Pyroplex fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE: Use 15x4mm PVC encased Pyroplex to top and sides of the overpanel - See details.*



### Rebated Meeting Stiles:

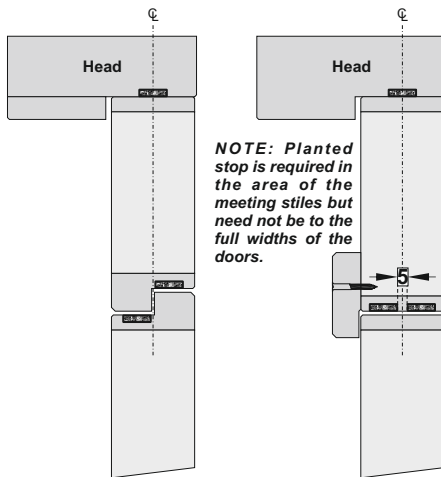
**Rebated Meeting Stiles** = 2x10x4mm PVC encased Pyroplex with one strip located centrally in each rebate.

*NOTE: Rebated meeting stiles may be used with storey height double leaf doorsets with flush overpanels. However the junction between the door and overpanel must be square with 2No. 15x4 Pyroplex seals separated by 5mm and located centrally in the overpanel thickness. An astragal added to the closing face of the overpanel is required to prevent swing through of the door leaves.*



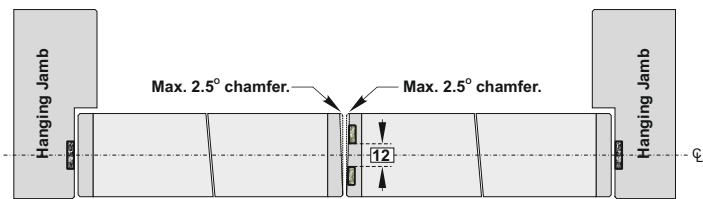
# FD30 Intumescent Seals

## 15x4mm Pyroplex



Single Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.28



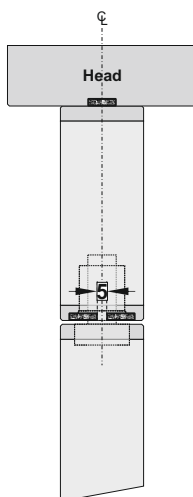
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the door is rebated to the overpanel to prevent swing through of the door. The 12mm rebate is located centrally in the door thickness with 1x15x4

seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.

- At the meeting stiles, 2x10x4mm Pyroplex seals should be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

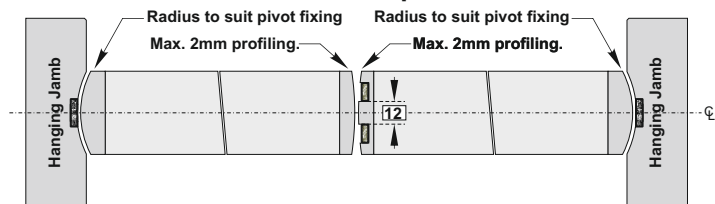
**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE 2:** An astragal can be fitted to the closing face of the overpanel to prevent swing through of pairs of doors as an alternative to rebating with intumescent seals located by reference to Fig. 4.26.



Double Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.29



- Perimeter intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- At the meeting stiles, 2x10x4mm Pyroplex seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.

- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**

Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



## Intumescent Seals

# FD30

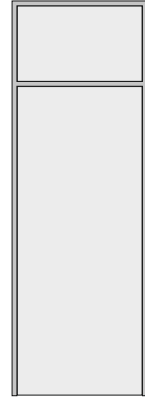
## 20x4mm Pyroplex

**Q** Single Leaf FD30 applications using 20x4mm Pyroplex Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*

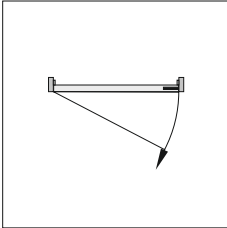


Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

**NOTE:** Extended width with reduced height approved for single leaf doorsets



**Latched Single leaf Single Action Doorsets:**

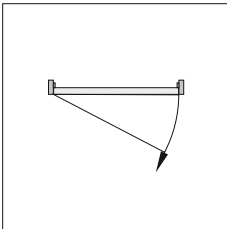
Jams & Head = 20x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2800 x 1203mm  
To: 3159 x 1100mm

**OR**

Door Leaf sizes: From: 2135 x 1310mm  
To: 2135 x 1310mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*



**Unlatched Single leaf Single Action Doorsets:**

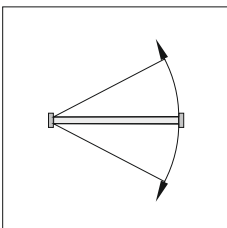
Jams & Head = 20x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2800 x 1178mm  
To: 3109 x 1100mm

**OR**

Door Leaf sizes: From: 2135 x 1285mm  
To: 2135 x 1285mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*



**Double Action Single leaf Doorsets:**

Jams & Head = 20x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2800 x 1178mm  
To: 3109 x 1100mm

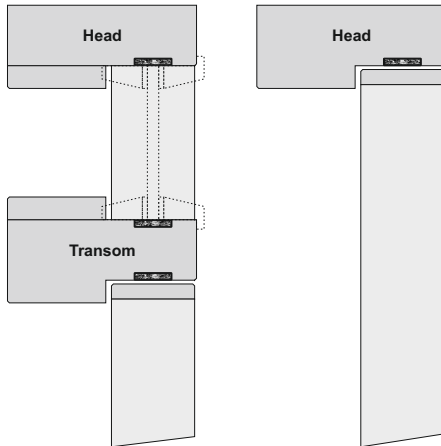
**OR**

Door Leaf sizes: From: 2135 x 1285mm  
To: 2135 x 1285mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*

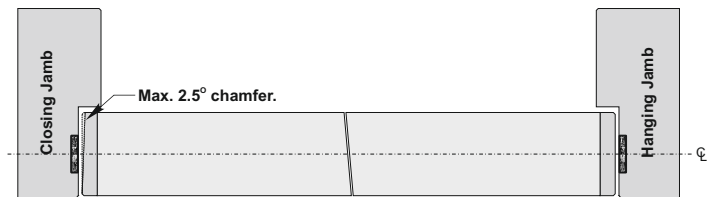
# FD30 Intumescent Seals

## 20x4mm Pyroplex



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

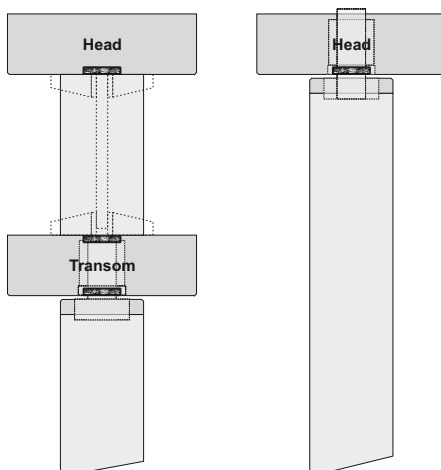
Fig. 4.30



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

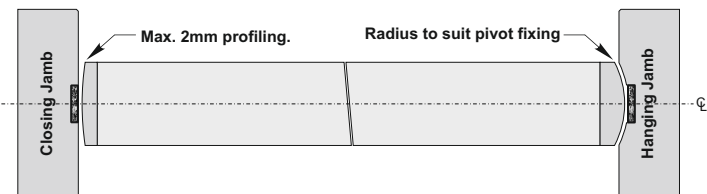
- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.31



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



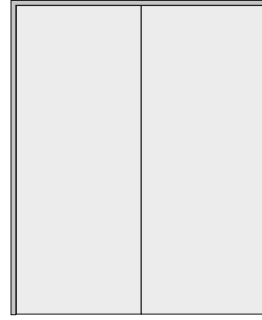
## Intumescent Seals

# FD30

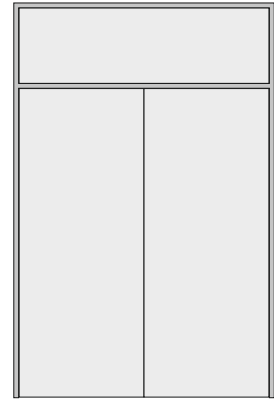
## 20x4mm Pyroplex

**Q** Double Leaf FD30 applications using 20x4mm Pyroplex Intumescent Seals.

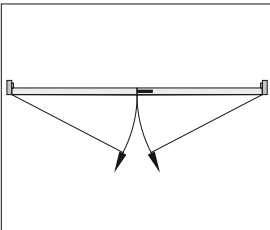
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



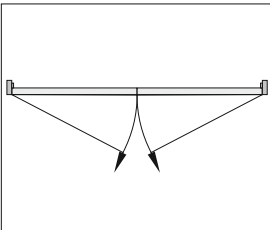
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 20x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2800 x 2x1153mm  
To: 3059 x 2x1100mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*



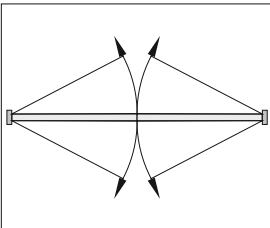
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 20x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2800 x 2x1128mm  
To: 3009 x 2x1100mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*



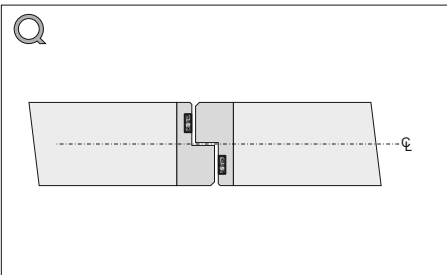
**Double Action Double leaf Doorsets (Pairs):**

**Jamb & Head** = 20x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x10x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2800 x 2x1128mm  
To: 3009 x 2x1100mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Pyroplex to all sides of the overpanel.*



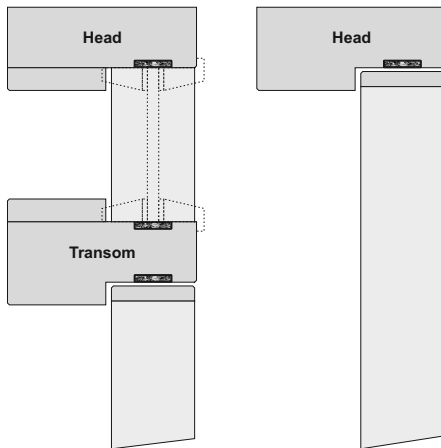
**Rebated Meeting Stiles:**

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Pyroplex with one strip located centrally in each rebate.

*NOTE: Maximum approved door leaf height for rebated meeting stiles = 2134mm*

# FD30 Intumescent Seals

## 20x4mm Pyroplex

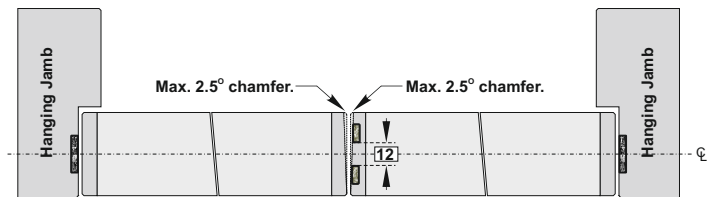


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Single Action Double leaf

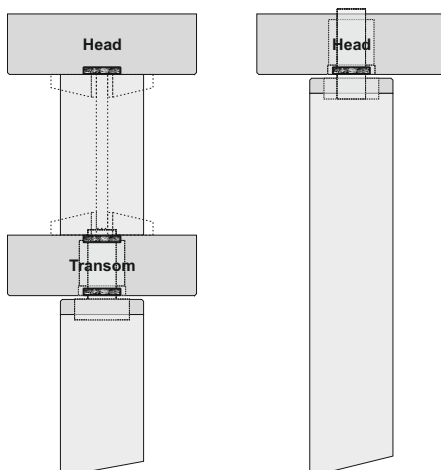
Fig. 4.32

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyroplex seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

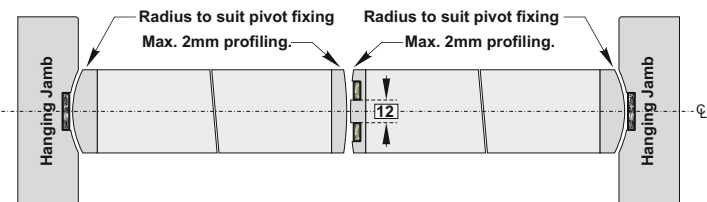


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Double Action Double leaf

Fig. 4.33

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyroplex seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



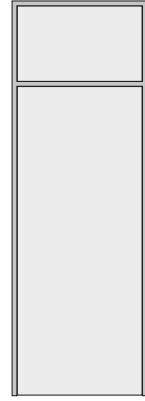
Intumescent Seals **FD30**
**15x4mm Therm-A-Seal**

**Q** Single Leaf FD30 applications using 15x4mm Therm-A-Seal Intumescent Seals.

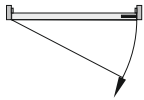
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



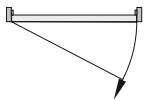
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

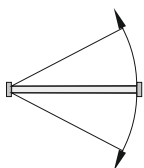
*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*


**Double Action Single leaf Doorsets:**

**Jams & Head** = 15x4mm PVC encased Therm-A-Seal.

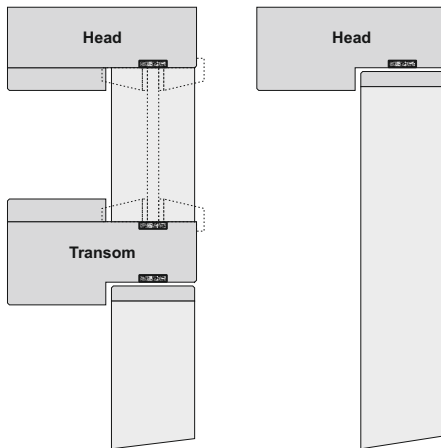
**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*

# FD30 Intumescent Seals

## 15x4mm Therm-A-Seal

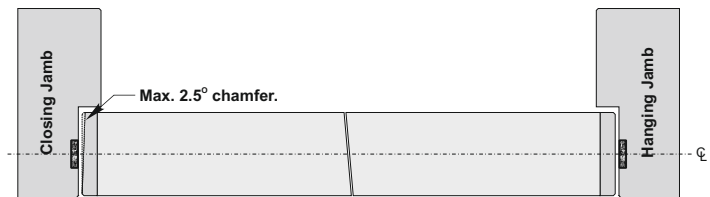
Q



### Single Action Single leaf

Fig. 4.34

- Door Height Assemblies
- Storey Height Assemblies with Transom.



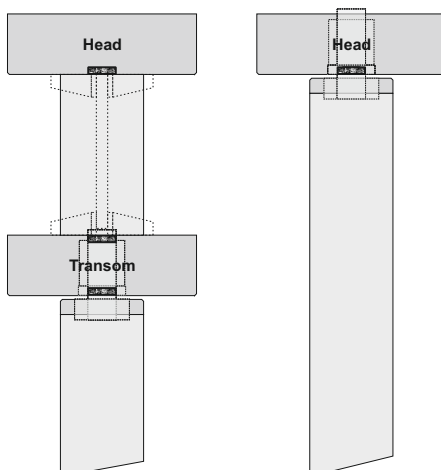
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

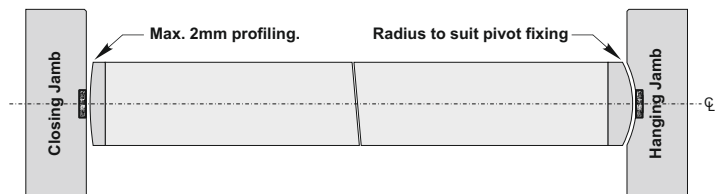
Q



### Double Action Single leaf

Fig. 4.35

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



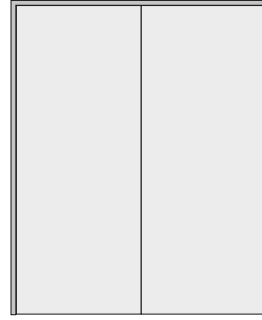
## Intumescent Seals

# FD30

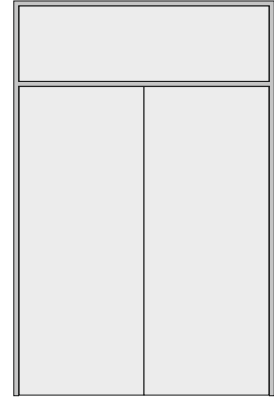
## 15x4mm Therm-A-Seal

**Q** Double Leaf FD30 applications using 15x4mm Therm-A-Seal Intumescent Seals.

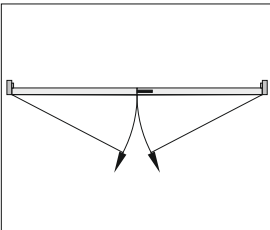
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



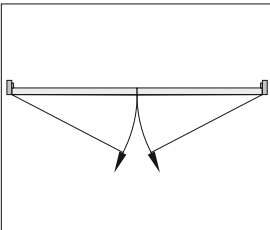
### Latched Double leaf Single Action Doorsets (Pairs):

**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*



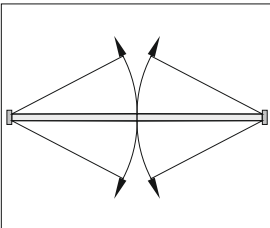
### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*



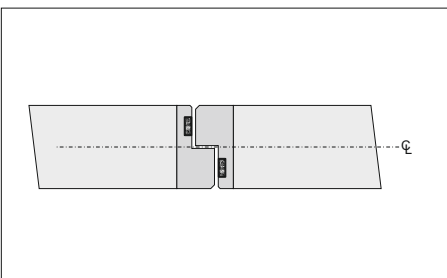
### Double Action Double leaf Doorsets (Pairs):

**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*



### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal with one strip located centrally in each rebate.

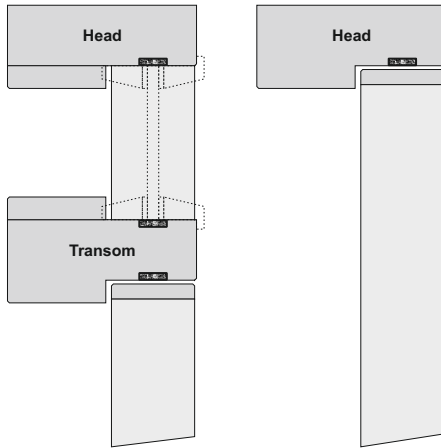




# FD30 Intumescent Seals

## 15x4mm Therm-A-Seal

Q

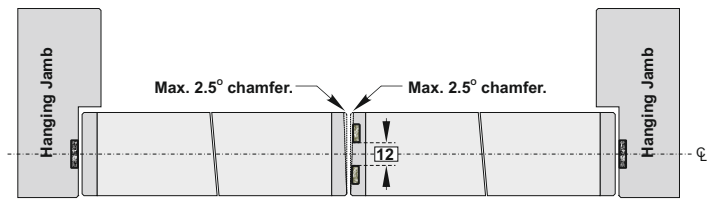


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Single Action Double leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.

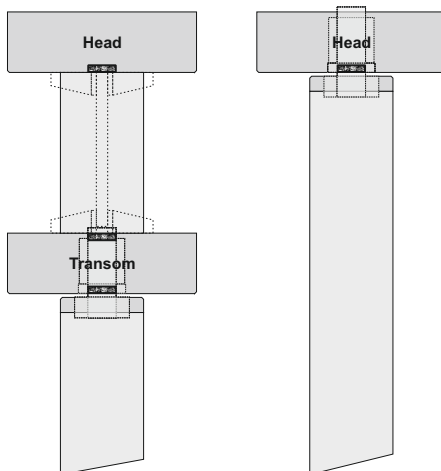
Fig. 4.36



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q

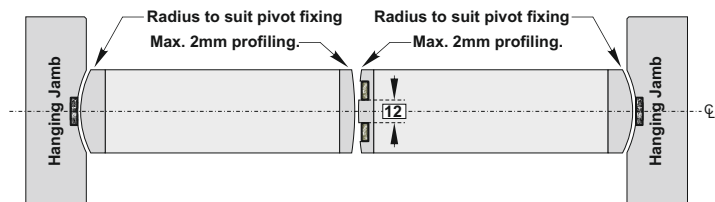


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Double Action Double leaf

- Door Height Assemblies
- Storey Height Assemblies with Transom.

Fig. 4.37



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



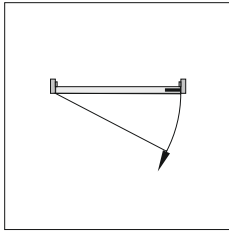
## 15x4mm Therm-A-Seal

**Q** Single Leaf FD30 applications using 15x4mm Therm-A-Seal Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Storey Height Doorsets  
with Flush Overpanel



### Latched Single leaf Single Action Storey Height Doorsets:

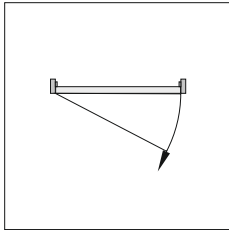
**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Therm-A-Seal fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Therm-A-Seal fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

*NOTE: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*



### Unlatched Single leaf Single Action Storey Height Doorsets:

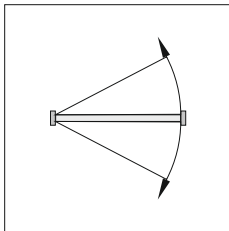
**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Therm-A-Seal fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Therm-A-Seal fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

*NOTE: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*



### Double Action Single leaf Storey Height Doorsets:

**Jambes & Head** = 15x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Therm-A-Seal fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2134 x 915mm  
To: 2134 x 915mm

*NOTE: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*

# FD30 Intumescent Seals

## 15x4mm Therm-A-Seal

**Q**

**Single Action Single leaf Storey Height Assemblies with Flush Overpanel.** Fig. 4.38

- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the use of square edges are recommended for single leaf doorsets with 2x15x4 seals

located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.

- The door may be rebated to the overpanel with a 12mm rebate located centrally in the door thickness. Where a rebated junction is used 1x15x4 seal must be fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Q**

**Double Action Single leaf Storey Height Assemblies with Flush Overpanel.** Fig. 4.39

- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



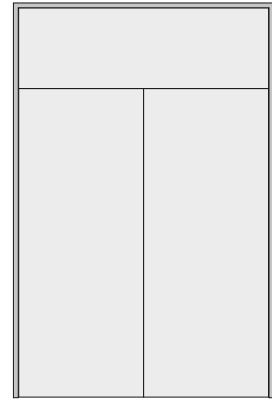
## Intumescent Seals

# FD30

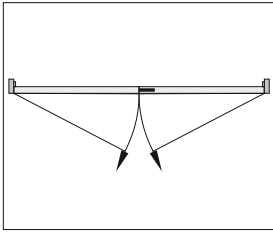
## 15x4mm Therm-A-Seal

**Q** Double Leaf FD30 applications using 15x4mm Therm-A-Seal Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Storey Height Doorsets  
with Flush Overpanel



**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Therm-A-Seal.

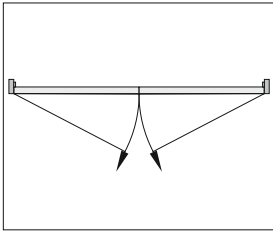
**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Therm-A-Seal fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Therm-A-Seal.

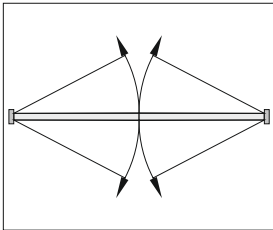
**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Therm-A-Seal fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Double Action Double leaf Doorsets (Pairs):**

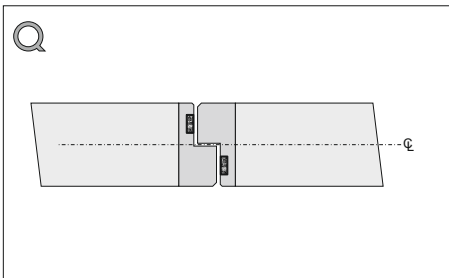
**Jamb & Head** = 15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Therm-A-Seal fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2134 x 2x915mm  
To: 2134 x 2x915mm

*NOTE: Use 15x4mm PVC encased Therm-A-Seal to top and sides of the overpanel - See details.*



**Rebated Meeting Stiles:**

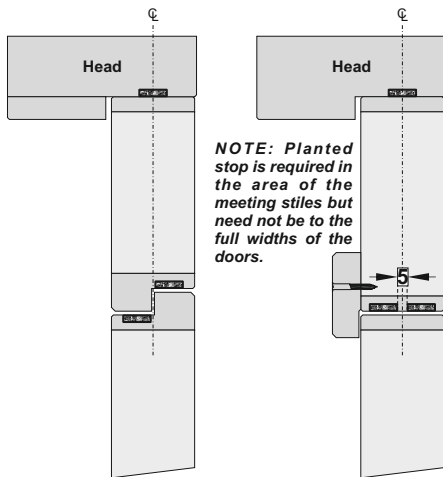
**Rebated Meeting Stiles** = 2x10x4mm PVC encased Therm-A-Seal with one strip located centrally in each rebate.

*NOTE: Rebated meeting stiles may be used with storey height double leaf doorsets with flush overpanels. However the junction between the door and overpanel should be square with 2No. 15x4 Therm-A-Seal seals separated by 5mm and located centrally in the overpanel thickness. An astragal added to the closing face of the overpanel is required to prevent swing through of the door leaves.*

# FD30 Intumescent Seals

## 15x4mm Therm-A-Seal

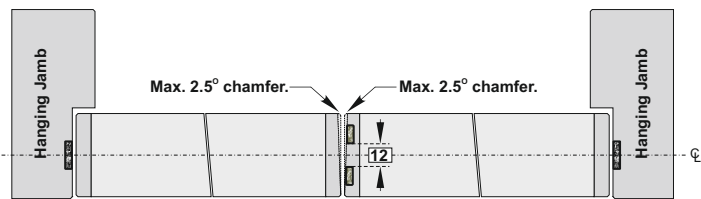
Q



**NOTE:** Planted stop is required in the area of the meeting stiles but need not be to the full widths of the doors.

Single Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.40



- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the door is rebated to the overpanel to prevent swing through of the door. The 12mm

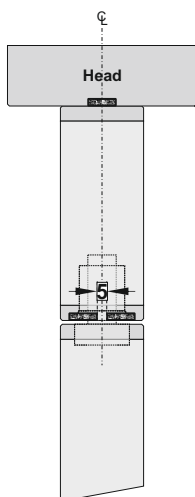
rebate is located centrally in the door thickness with 1x15x4 seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.

- At the meeting stiles, 2x10x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE 2:** An astragal can be fitted to the closing face of the overpanel to prevent swing through of pairs of doors as an alternative to rebating with intumescent seals located by reference to Fig. 4.38.

Q



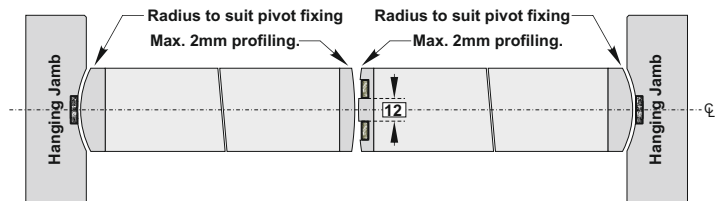
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- At the meeting stiles, 2x10x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:** Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.

Double Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.41



## Intumescent Seals

# FD30

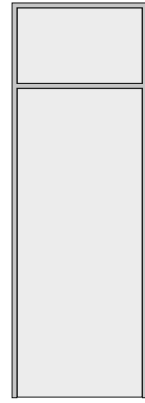
## 10x4mm Lorient 617

**Q** Single Leaf FD30 applications using 10x4mm Lorient 617 Intumescent Seals.

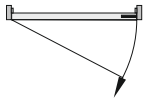
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

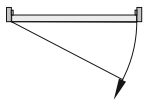


### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1067mm  
To: 2460 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*

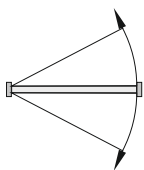


### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1042mm  
To: 2410 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

**Jams & Head** = 10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1042mm  
To: 2410 x 902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD30 Intumescent Seals

## 10x4mm Lorient 617

**Single Action Single leaf** Fig. 4.42  
 - Door Height Assemblies  
 - Storey Height Assemblies with Transom.

**NOTE:**  
 Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Double Action Single leaf** Fig. 4.43  
 - Door Height Assemblies  
 - Storey Height Assemblies with Transom.

**NOTE:**  
 Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



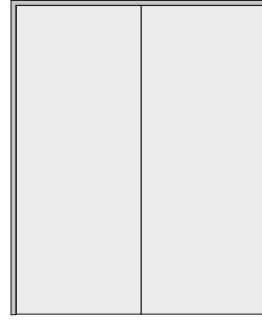
## Intumescent Seals

# FD30

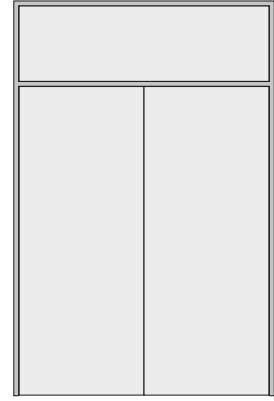
## 10x4mm Lorient 617

**Q** Double Leaf FD30 applications using 10x4mm Lorient 617 Intumescent Seals.

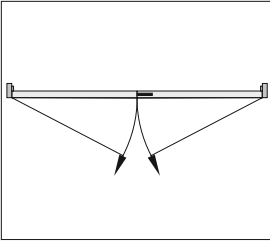
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



### Latched Double leaf Single Action Doorsets (Pairs):

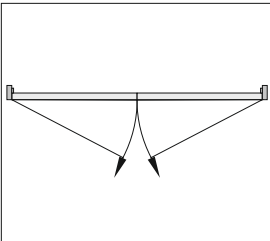
**Jamb & Head** = 10x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 2x1017mm  
To: 2360 x 2x902mm

*NOTE 1: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Unlatched Double leaf Single Action Doorsets (Pairs):

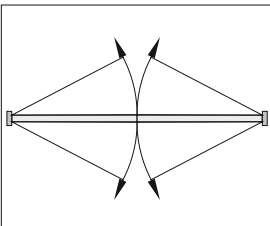
**Jamb & Head** = 10x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 2x992mm  
To: 2310 x 2x902mm

*NOTE 1: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



### Double Action Double leaf Doorsets (Pairs):

**Jamb & Head** = 10x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

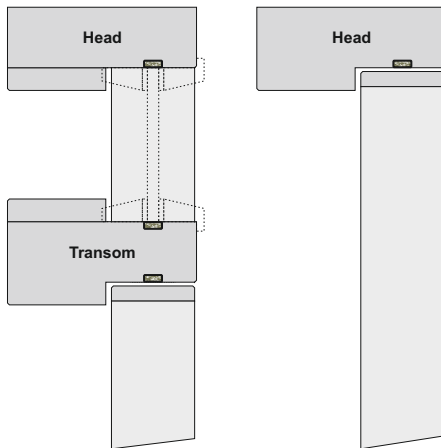
**Door Leaf sizes:** From: 2100 x 2x992mm  
To: 2310 x 2x902mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Lorient 617 to all sides of the overpanel.*



# FD30 Intumescent Seals

## 10x4mm Lorient 617



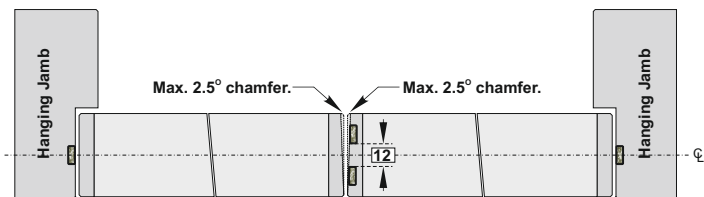
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Double leaf**

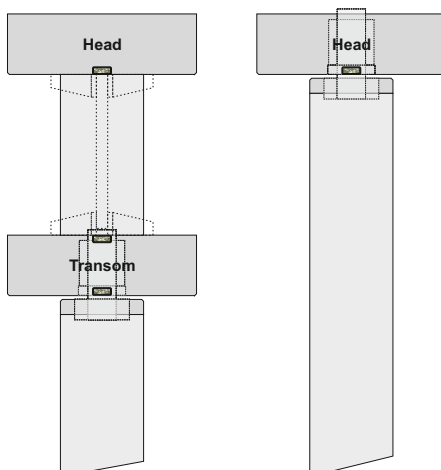
Fig. 4.44

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals should be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



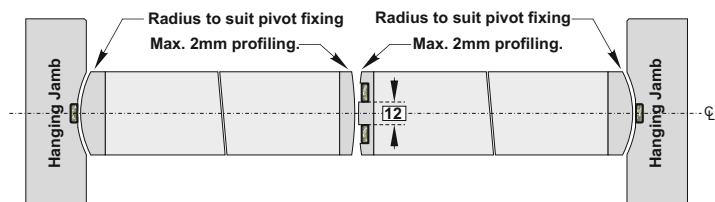
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**

Fig. 4.45

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



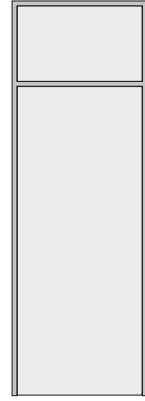
Intumescent Seals **FD30**
**15x4mm Lorient 617**

**Q** Single Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

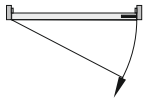
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



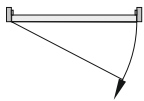
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2400 x 1026mm  
To: 2600 x 926mm

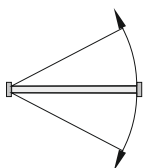
*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2400 x 1026mm  
To: 2600 x 926mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Double Action Single leaf Doorsets:**

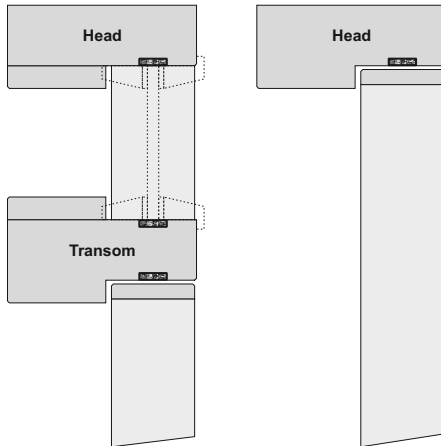
**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2400 x 1026mm  
To: 2600 x 926mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD30 Intumescent Seals

## 15x4mm Lorient 617

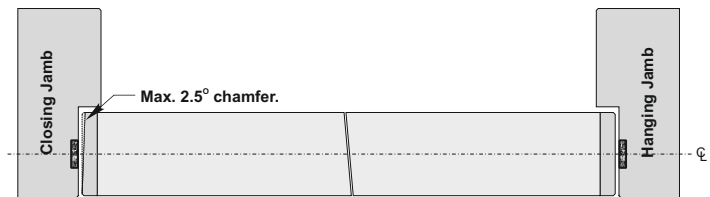


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Single Action Single leaf

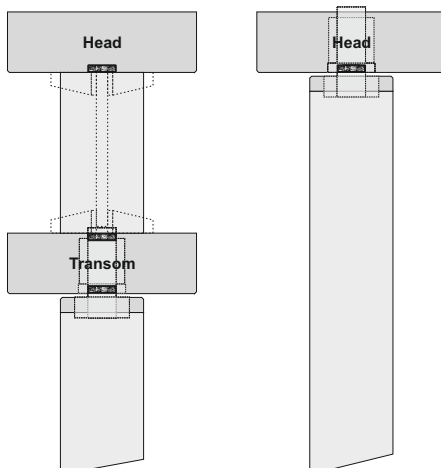
Fig. 4.46

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

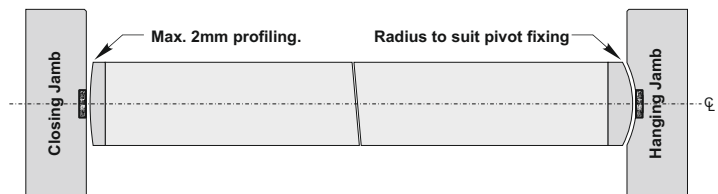


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Double Action Single leaf

Fig. 4.47

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



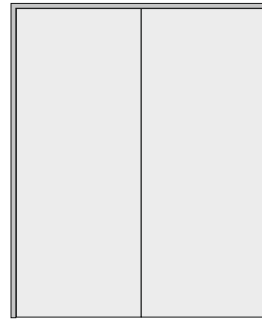
## Intumescent Seals

# FD30

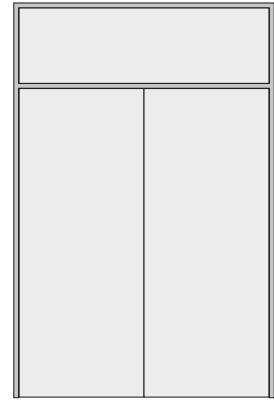
## 15x4mm Lorient 617

**Q** Double Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

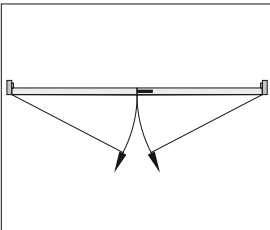
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



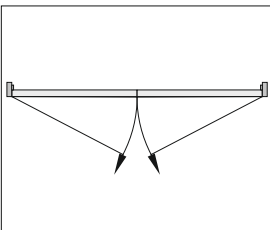
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 2x1065mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*



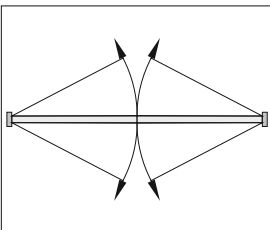
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 2x1040mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*



**Double Action Double leaf Doorsets (Pairs):**

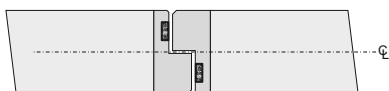
**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 2x1040mm  
To: 2350 x 2x915mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

**Q**

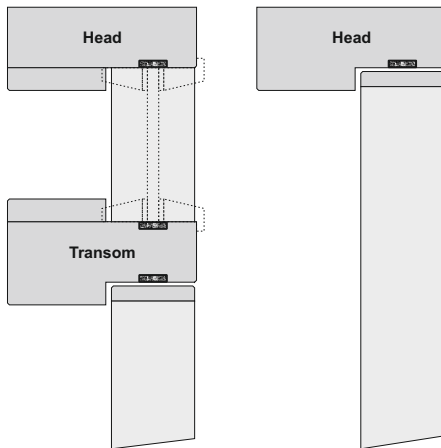


**Rebated Meeting Stiles:**

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Lorient 617 with one strip located centrally in each rebate.

# FD30 Intumescent Seals

## 15x4mm Lorient 617



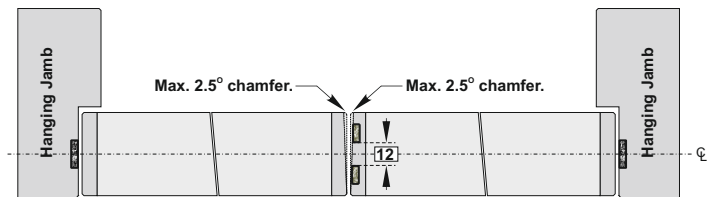
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.48

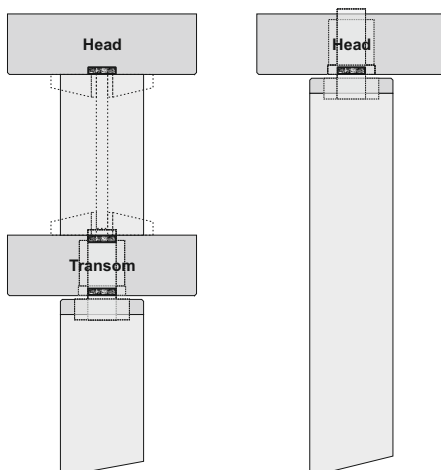
**Single Action Double leaf**

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



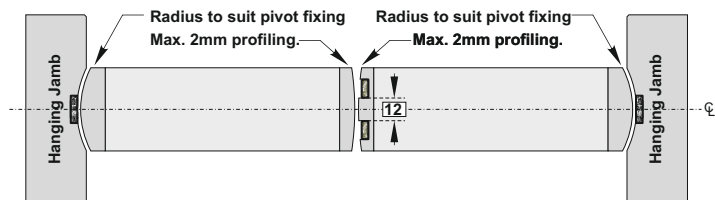
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.49

**Double Action Double leaf**

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



## Intumescent Seals

# FD30

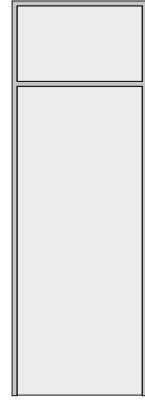
## 20x4mm Lorient 617

**Q** Single Leaf FD30 applications using 20x4mm Lorient 617 Intumescent Seals.

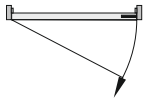
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

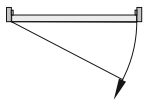


### Latched Single leaf Single Action Doorsets:

Jambs & Head = 20x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 2800 x 965mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*

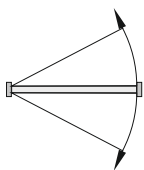


### Unlatched Single leaf Single Action Doorsets:

Jambs & Head = 20x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 2800 x 940mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

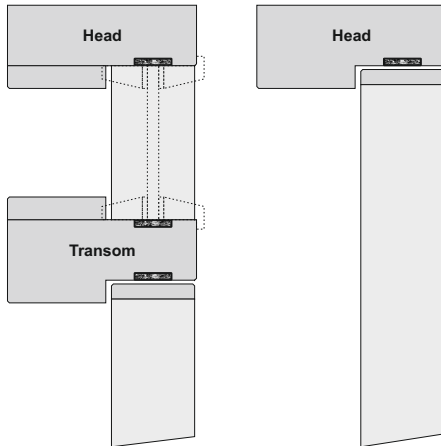
Jambs & Head = 20x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 2800 x 940mm  
To: 3000 x 915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD30 Intumescent Seals

## 20x4mm Lorient 617

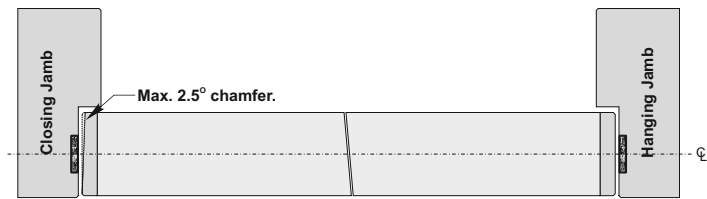


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Single Action Single leaf

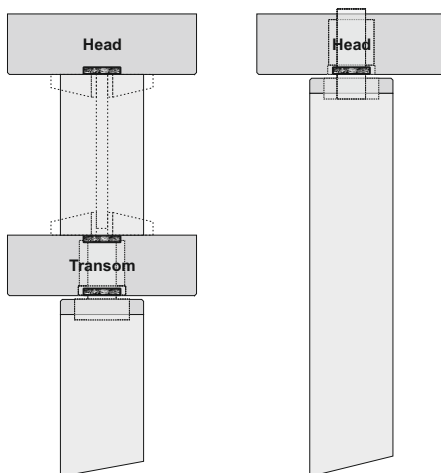
Fig. 4.50

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

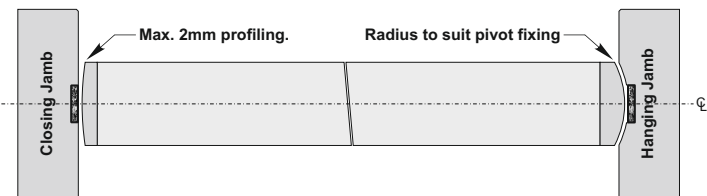


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Double Action Single leaf

Fig. 4.51

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



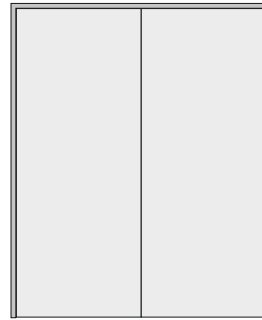
## Intumescent Seals

# FD30

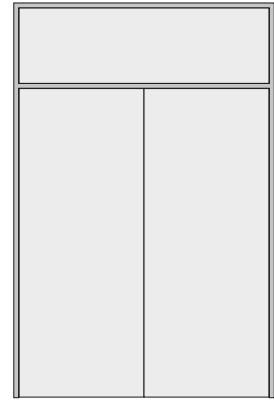
## 20x4mm Lorient 617

**Q** Double Leaf FD30 applications using 20x4mm Lorient 617 Intumescent Seals.

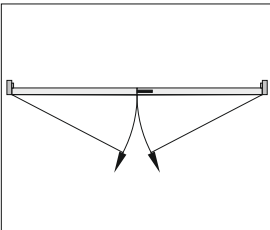
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



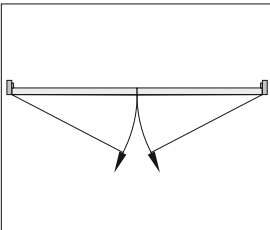
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 20x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1065mm  
To: 2470 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*



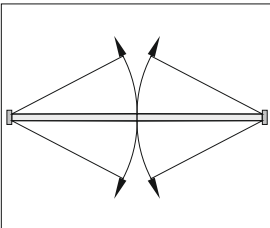
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 20x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*



**Double Action Double leaf Doorsets (Pairs):**

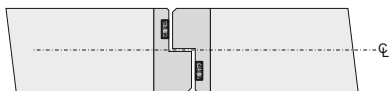
**Jamb & Head** = 20x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 20x4mm PVC encased Lorient 617 to all sides of the overpanel.*

**Q**



**Rebated Meeting Stiles:**

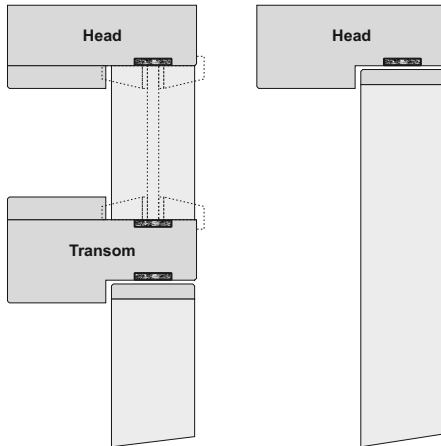
**Rebated Meeting Stiles** = 2x10x4mm PVC encased Lorient 617 with one strip located centrally in each rebate.



# FD30 Intumescent Seals

4.55

## 20x4mm Lorient 617

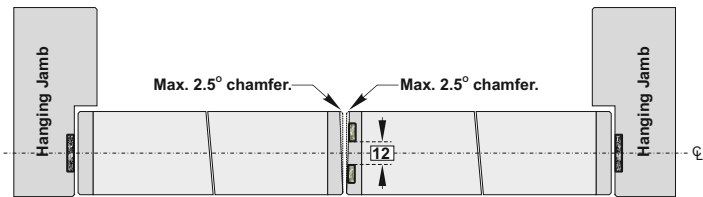


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Single Action Double leaf

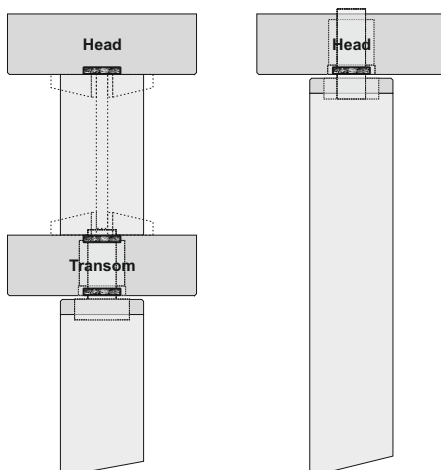
Fig. 4.52

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.

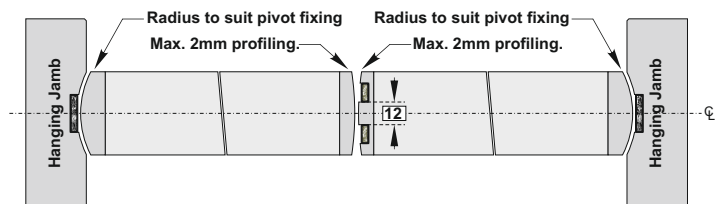


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

### Double Action Double leaf

Fig. 4.53

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



## Intumescent Seals

# FD30

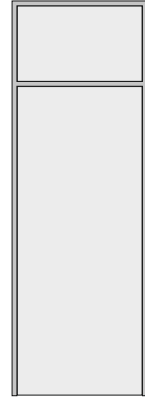
## 25x4mm Lorient 617

**Q** Single Leaf FD30 applications using 25x4mm Lorient 617 Intumescent Seals.

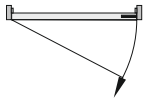
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

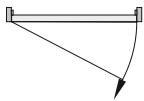


### Latched Single leaf Single Action Doorsets:

Jambs & Head = 25x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 3000 x 965mm  
To: 3223 x 915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*

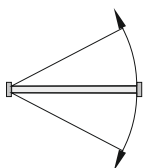


### Unlatched Single leaf Single Action Doorsets:

Jambs & Head = 25x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 3000 x 940mm  
To: 3173 x 915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*



### Double Action Single leaf Doorsets:

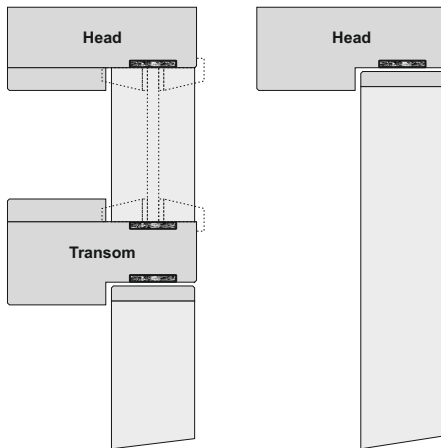
Jambs & Head = 25x4mm PVC encased Lorient 617.

Door Leaf sizes: From: 3000 x 940mm  
To: 3173 x 915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD30 Intumescent Seals

## 25x4mm Lorient 617



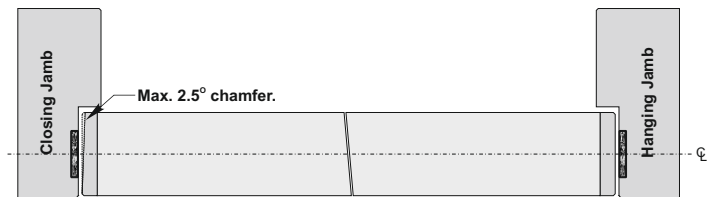
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.54

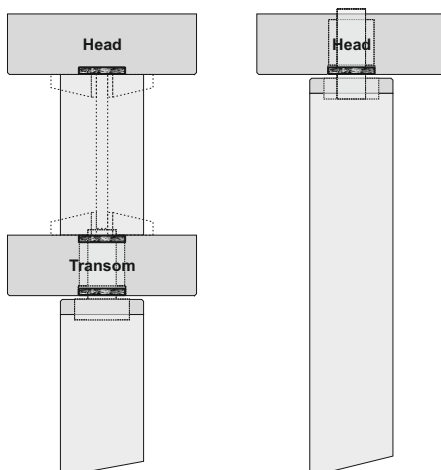
**Single Action Single leaf**

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



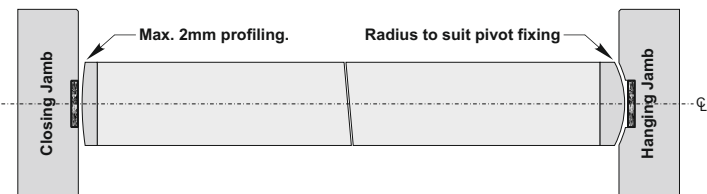
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Fig. 4.55

**Double Action Single leaf**

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For most height doorsets the intumescent seals should be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



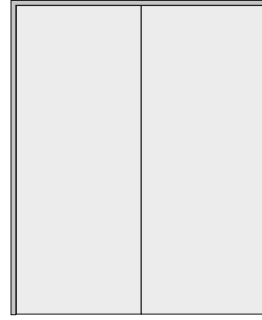
## Intumescent Seals

# FD30

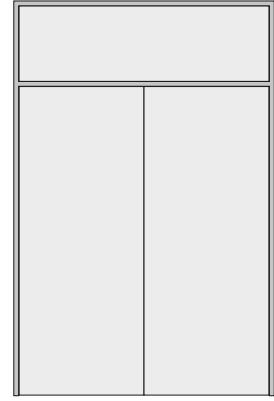
## 25x4mm Lorient 617

**Q** Double Leaf FD30 applications using 25x4mm Lorient 617 Intumescent Seals.

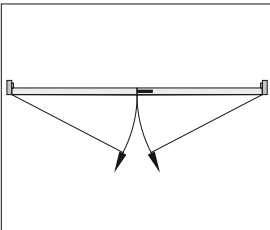
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



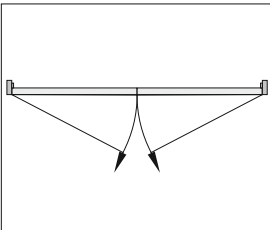
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 25x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1065mm  
To: 2470 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*



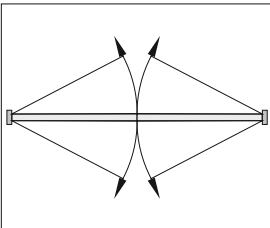
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 25x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*



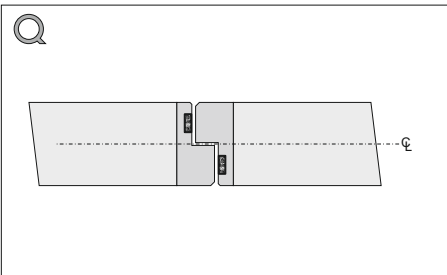
**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 25x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2350 x 2x1040mm  
To: 2420 x 2x915mm

*NOTE: For storey height doorsets use 25x4mm PVC encased Lorient 617 to all sides of the overpanel.*

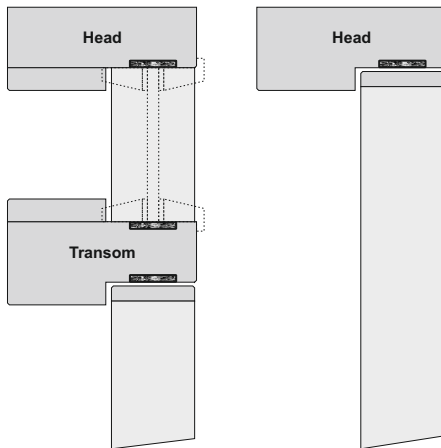


**Rebated Meeting Stiles:**

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Lorient 617 with one strip located centrally in each rebate.

# FD30 Intumescent Seals

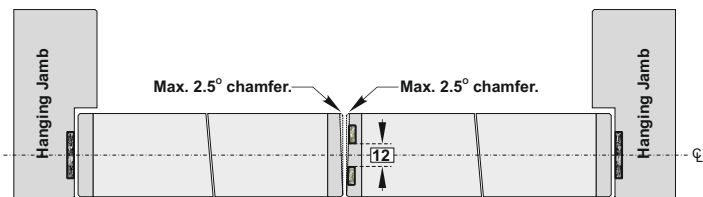
## 25x4mm Lorient 617



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

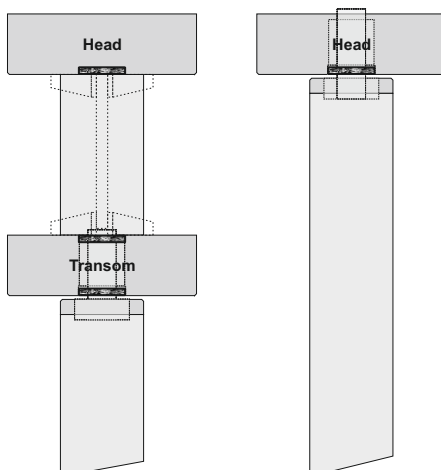
**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.56



- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

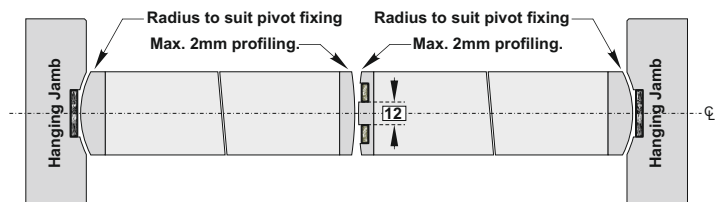
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.57



- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.



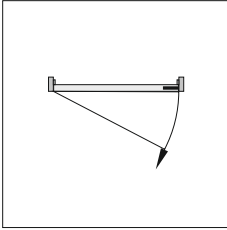
## 15x4mm Lorient 617

**Q** Single Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Storey Height Doorsets  
with Flush Overpanel



### Latched Single leaf Single Action Storey Height Doorsets:

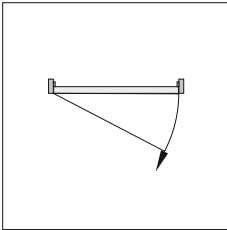
**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Lorient 617 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Lorient 617 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 1115mm  
To: 2570 x 915mm

*NOTE: Use 15x4mm PVC encased Lorient 617 to top and sides of the overpanel - See details.*



### Unlatched Single leaf Single Action Storey Height Doorsets:

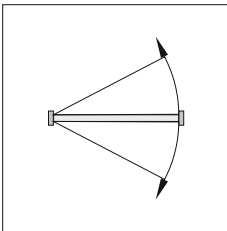
**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Lorient 617 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Lorient 617 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 1090mm  
To: 2520 x 915mm

*NOTE: Use 15x4mm PVC encased Lorient 617 to top and sides of the overpanel - See details.*



### Double Action Single leaf Storey Height Doorsets:

**Jams & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Lorient 617 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2100 x 1090mm  
To: 2520 x 915mm

*NOTE: Use 15x4mm PVC encased Lorient 617 to top and sides of the overpanel - See details.*

# FD30 Intumescent Seals

4.61

## 15x4mm Lorient 617

**Q**

**Single Action Single leaf Storey Height Assemblies with Flush Overpanel.** Fig. 4.58

- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- For the door / overpanel junction the use of square edges are recommended for single leaf doorsets with 2x15x4 seals

located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.

- The door may be rebated to the overpanel with a 12mm rebate located centrally in the door thickness. Where a rebated junction is used 1x15x4 seal must be fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Q**

**Double Action Single leaf Storey Height Assemblies with Flush Overpanel.** Fig. 4.59

- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.

FD30 Fire Door Applications  
Intumescent Seals



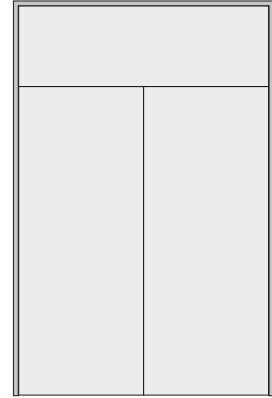
## Intumescent Seals

# FD30

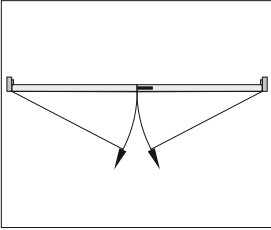
## 15x4mm Lorient 617

**Q** Double Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Storey Height Doorsets  
with Flush Overpanel



**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Lorient 617.

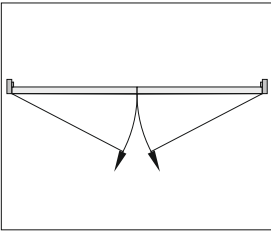
**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Lorient 617 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 2x1015mm  
To: 2370 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Lorient 617 to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Lorient 617.

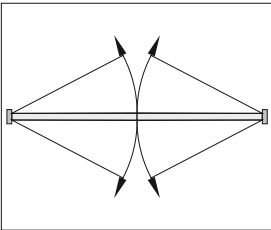
**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm PVC encased Lorient 617 fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: 2100 x 2x990mm  
To: 2320 x 2x915mm

*NOTE 1: Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Double Action Double leaf Doorsets (Pairs):**

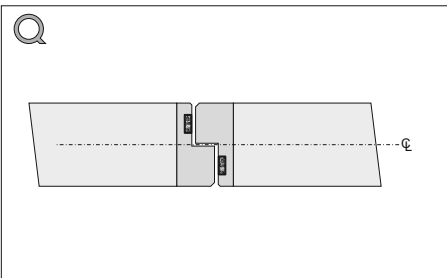
**Jamb & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x10x4mm PVC encased Lorient 617.

**Door Leaf / Overpanel - Square** = 2x15x4mm PVC encased Lorient 617 fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2100 x 2x990mm  
To: 2320 x 2x915mm

*NOTE: Use 15x4mm PVC encased Lorient 617 to top and sides of the overpanel - See details.*



**Rebated Meeting Stiles:**

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Lorient 617 with one strip located centrally in each rebate.

*NOTE: Rebated meeting stiles may be used with storey height double leaf doorsets with flush overpanels. However the junction between the door and overpanel should be square with 2No. 15x4 Lorient 617 seals separated by 5mm and located centrally in the overpanel thickness. An astragal added to the closing face of the overpanel is required to prevent swing through of the door leaves.*



# FD30 Intumescent Seals

## 15x4mm Lorient 617

**Fig. 4.60**

**Single Action Double leaf Storey Height Assemblies with Flush Overpanel.**

**NOTE:** Planted stop is required in the area of the meeting stiles but need not be to the full widths of the doors.

rebate is located centrally in the door thickness with 1x15x4 seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.

- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE 2:** An astragal can be fitted to the closing face of the overpanel to prevent swing through of pairs of doors as an alternative to rebating with intumescent seals located by reference to Fig. 4.17.

**Fig. 4.61**

**Double Action Double leaf Storey Height Assemblies with Flush Overpanel.**

Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.

- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- At the meeting stiles, 2x10x4mm Lorient 617 seals must be fitted to one leaf only, separated by 12mm centrally located in the door thickness.

- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:** Pivot devices used for this application must have BEEN tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



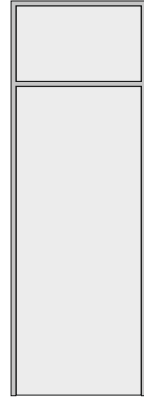
Intumescent Seals **FD30**
**Norsound Ltd. NorFAST**

Q Single Leaf FD30 applications using Norsound Ltd. NorFAST Intumescent / Smoke Seals.

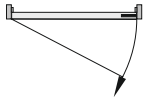
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



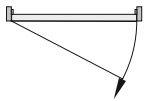
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

Jams & Head = 1No. NorFAST seal.

Door Leaf sizes: From: 2740 x 951mm  
To: 2790 x 926mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyroplex to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

Jams & Head = 1No. NorFAST seal.

Door Leaf sizes: From: 2740 x 926mm  
To: 2740 x 926mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyroplex to all sides of the overpanel.*

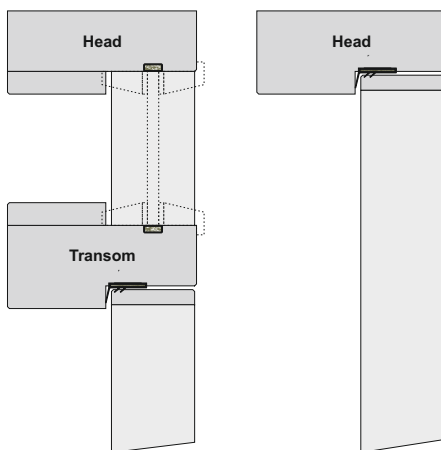
# FD30 Intumescent Seals

4.65

**Norsound Ltd. NorFAST**

FD30 Fire Door Applications  
Intumescent Seals

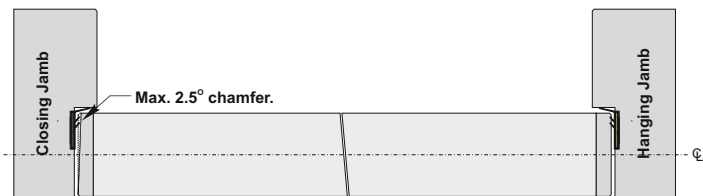
Q



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.62



- The NorFAST Intumescent / smoke seals must be located in the frame reveal to butt against the doorstop.
- For storey height doorsets a 10x4mm Pyroplex intumescent seal must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q

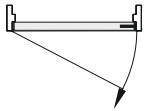
**NORDFORM Profile Series 251**
**Intumescent Seals FD30 STEEL FRAME**
**Pyroplex**

**Q Single Leaf FD30 applications using 20x4 Pyroplex F08600 intumescent Seals.**

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



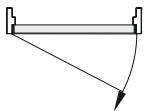
**Single leaf  
Door Height  
Doorsets**


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 20x4mm PVC encased Pyroplex F08600 exposed and fitted centre thickness of the door leaf.

**Door Leaf sizes:** From: 2150 x 1145mm  
To: 2622 x 931mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 20x4mm PVC encased Pyroplex F08600 exposed and fitted centre thickness of the door leaf.

**Door Leaf sizes:** From: 2150 x 1120mm  
To: 2572 x 931mm

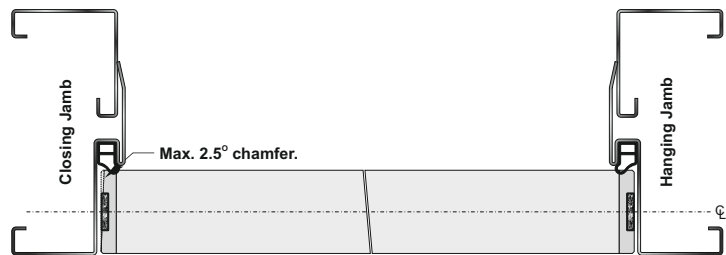
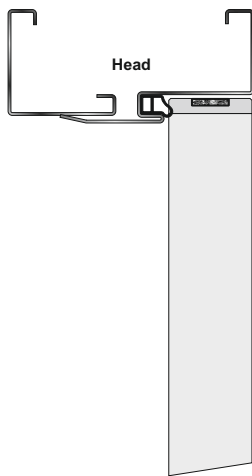
*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

**Pyroplex**

Q

Single Action Single leaf  
- Door Height Assemblies

Fig. 4.63



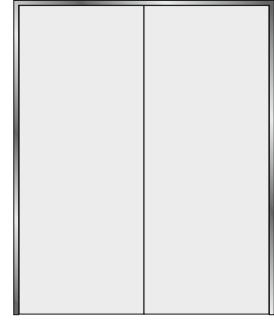
- Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

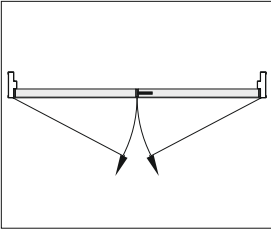
**NORDFORM Profile Series 251**
**Intumescent Seals FD30 STEEL FRAME**
**Pyroplex**

**Q** Double Leaf FD30 applications using 20x4mm Pyroplex F08600 intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**

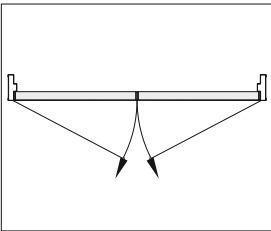

**Latched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 20x4mm PVC encased Pyroplex F08600 exposed and fitted centre thickness of the door leaf.

**Meeting Stiles** = 1No. Leaf to be fitted with a 20x4mm PVC encased Pyroplex F08600 exposed located centrally in the door thickness.

**Door Leaf sizes:** From: 2150 x 2x1095mm  
To: 2522 x 2x931mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.  
NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 20x4mm PVC encased Pyroplex F08600 exposed and fitted centre thickness of the door leaf.

**Meeting Stiles** = 1No. Leaf to be fitted with a 20x4mm PVC encased Pyroplex F08600 exposed located centrally in the door thickness.

**Door Leaf sizes:** From: 2150 x 2x1075mm  
To: 2472 x 2x931mm

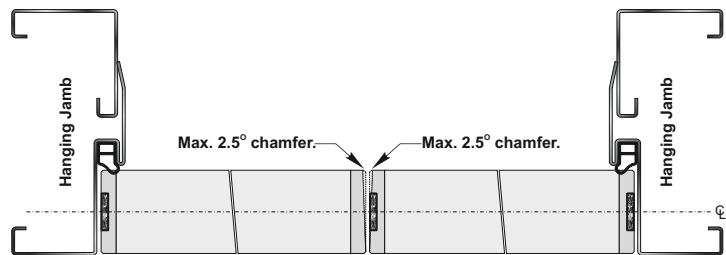
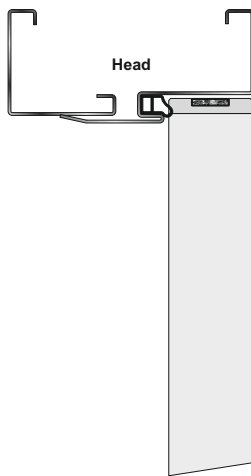
*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.  
NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*

**Pyroplex**

Q

Single Action Double leaf  
- Door Height Assemblies

Fig. 4.64



- Perimeter Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.
- At the meeting stiles, 1No.20x4mm Pyroplex F08600 seal must be fitted to one leaf only, centrally located in the door thickness.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.

### Therm-A-Seal & Therm-A-Flex

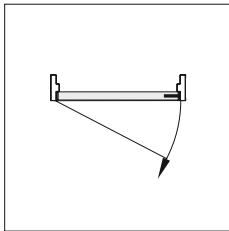
Q Single Leaf FD30 applications using 25x4mm Therm-A-Seal with 10x2 & 20x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets

*NOTE: 54mm Strebord used for this application.*



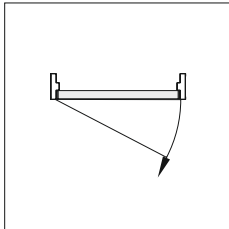
#### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2 Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2200 x 1038mm  
To: 2515 x 896mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



#### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2 Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

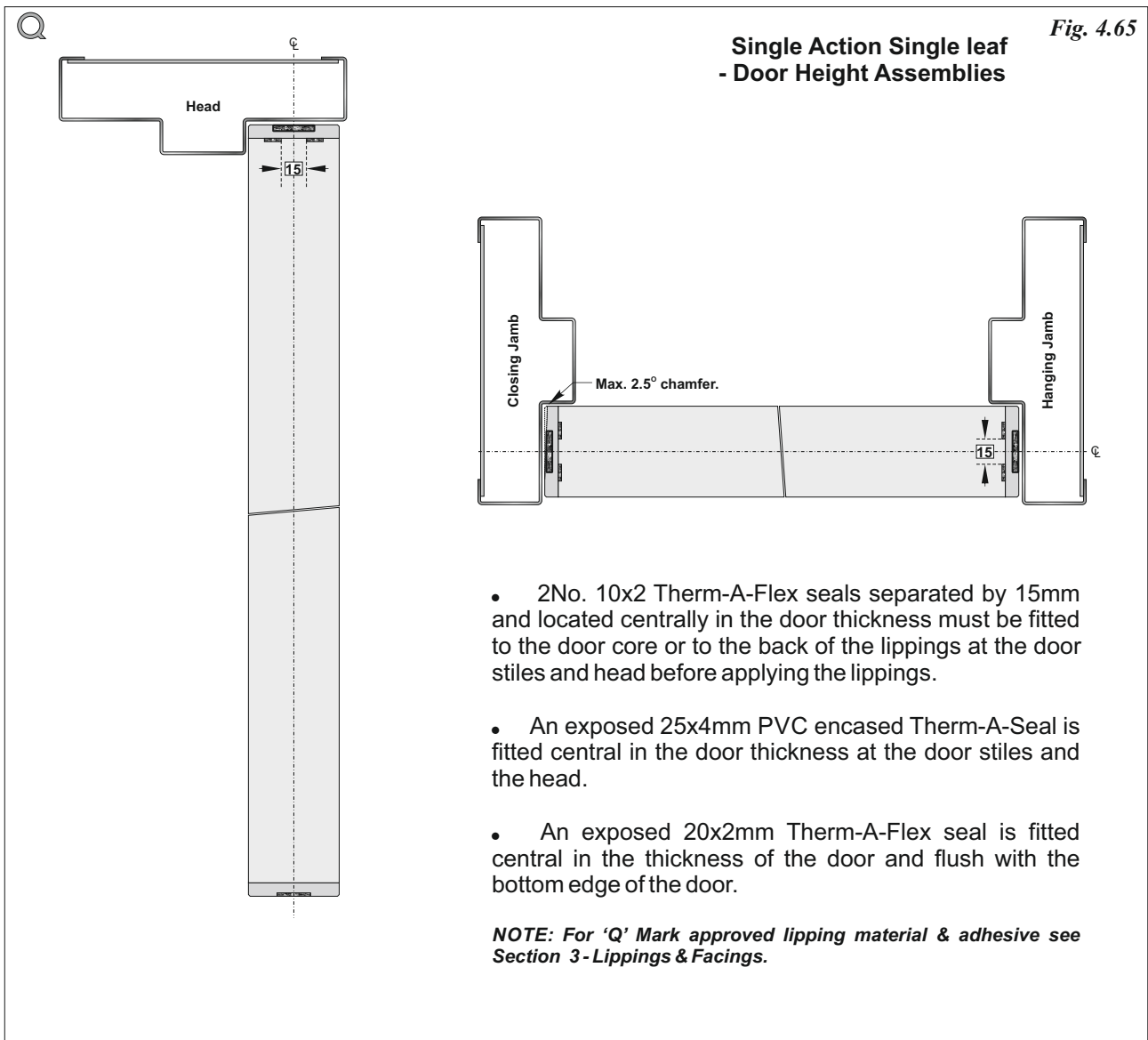
**Door Leaf sizes:** From: 2200 x 1013mm  
To: 2465 x 896mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



**Therm-A-Seal & Therm-A-Flex**

**NOTE: 54mm Strebord used for this application.**

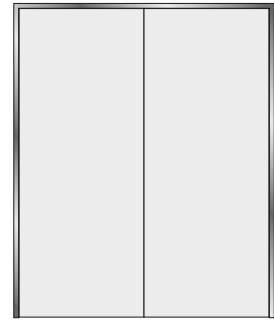


### Therm-A-Seal & Therm-A-Flex

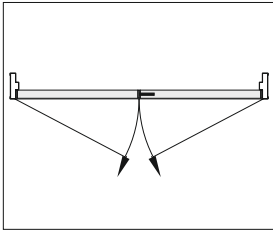
Q Double Leaf FD30 applications using 25x4mm Therm-A-Seal with 10x2 & 20x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*

*NOTE: 54mm Strebord used for this application.*



Double leaf  
Door Height  
Doorsets



#### Latched Double leaf Single Action Doorsets (Pairs):

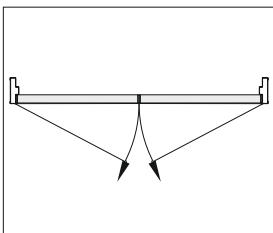
**Jamb & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Meeting Stiles** = 1No. Leaf to be fitted with a 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping. The secondary leaf to be fitted with 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Door Leaf sizes:** From: 2200 x 2x988mm  
To: 2415 x 2x896mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



#### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

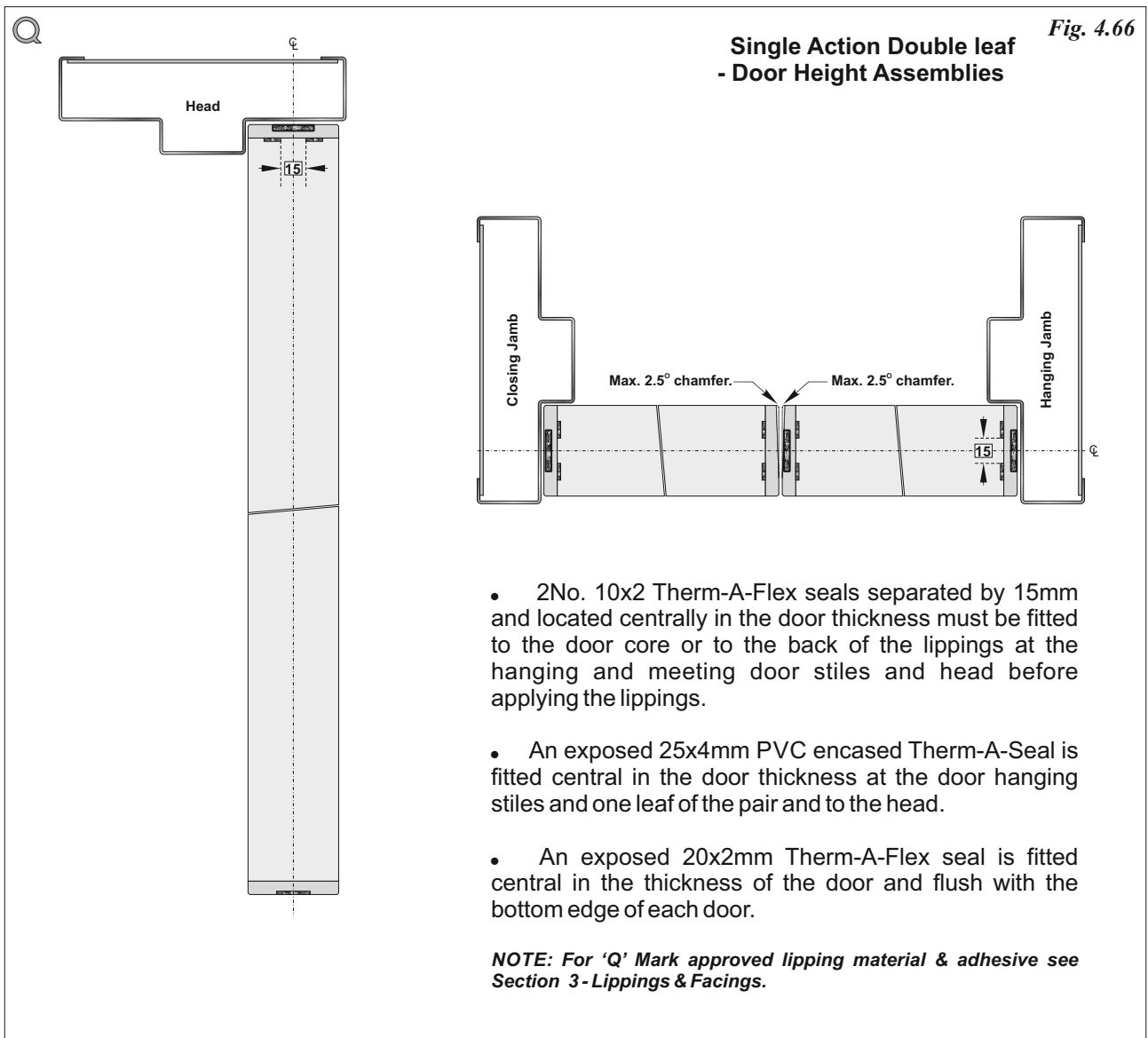
**Meeting Stiles** = 1No. Leaf to be fitted with a 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping. The secondary leaf to be fitted with 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Door Leaf sizes:** From: 2200 x 2x963mm  
To: 2365 x 2x896mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*

**Therm-A-Seal & Therm-A-Flex**

**NOTE: 54mm Strebord used for this application.**



### Therm-A-Seal & Therm-A-Flex

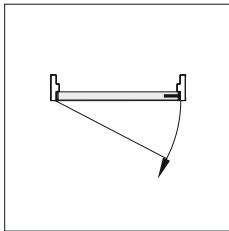
Q Single Leaf FD30 applications using 25x4mm Therm-A-Seal with 25x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets

*NOTE: 54mm Strebord used for this application.*



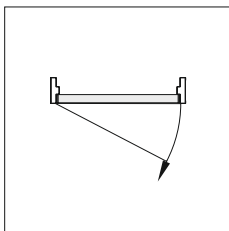
#### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf on top of a 25x2mm Therm-A-Flex seal, located centrally in the door thickness.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2218 x 1219mm  
To: 2507 x 1078mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



#### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf on top of a 25x2mm Therm-A-Flex seal, located centrally in the door thickness.

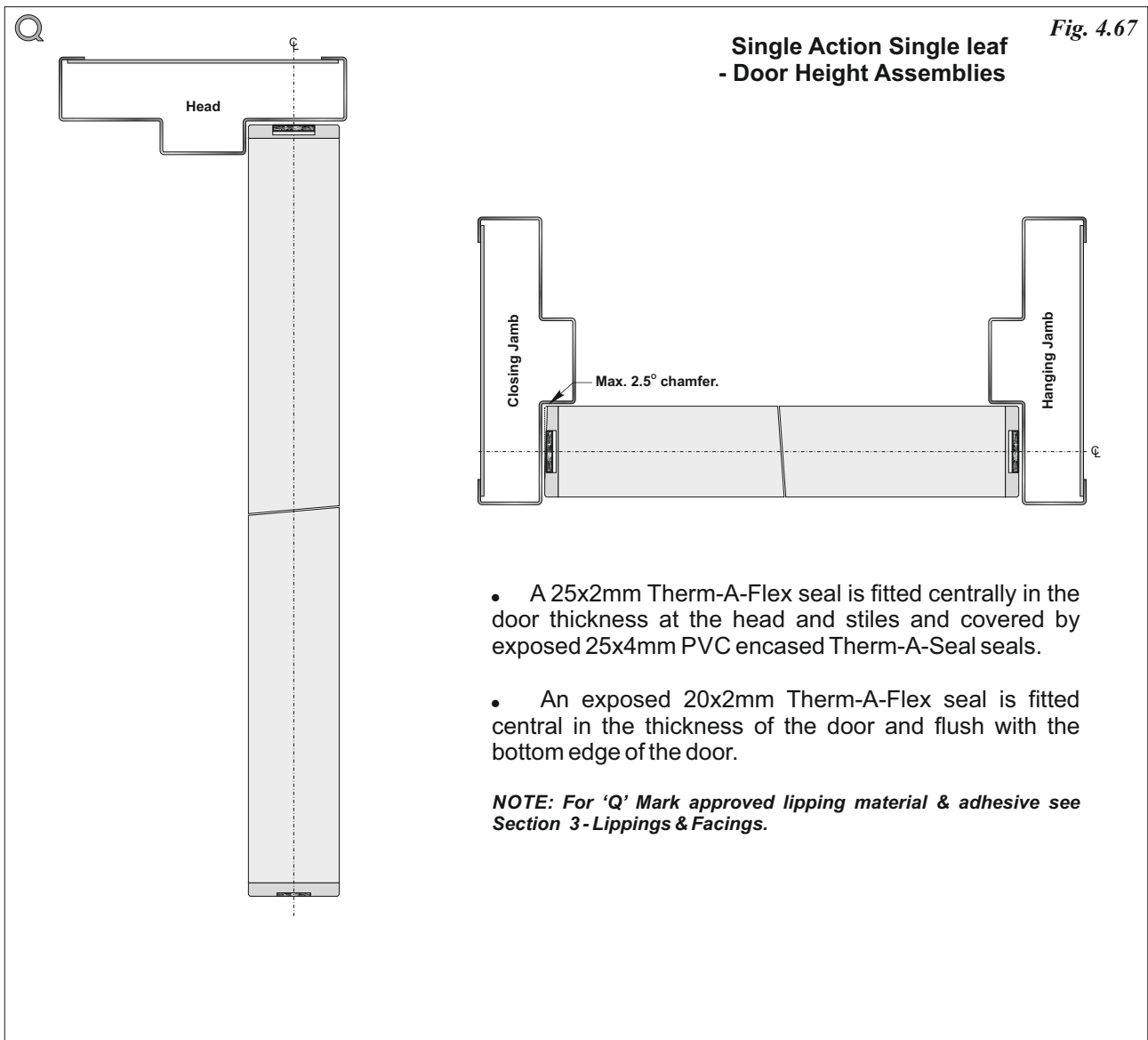
**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2218 x 1194mm  
To: 2457 x 1078mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

**Therm-A-Seal & Therm-A-Flex**

**NOTE: 54mm Strebord used for this application.**



**Strebord**® 35+ Stile & Rail  
Door Core Construction  
Stile & Rail  
Constructions  
Intumescent Seals

# FD30

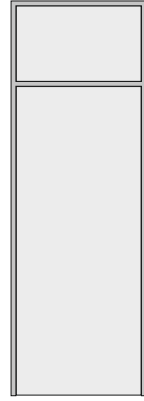
## 10x4mm Pyrostrip P100

Q Single Leaf FD30 applications  
using 10x4mm Pyrostrip P100  
Intumescent Seals.

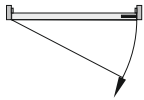
*NOTE: See Section 7 - Doorframes for 'Q' Mark  
approved minimum frame section dimensions for fire  
door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

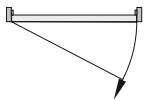


### Latched Single leaf Single Action Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1045mm  
To: 2416 x 916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*

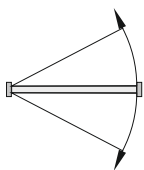


### Unlatched Single leaf Single Action Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1020mm  
To: 2366 x 916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*



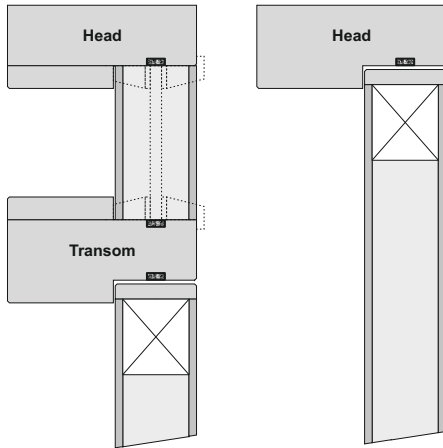
### Double Action Single leaf Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1020mm  
To: 2366 x 916mm

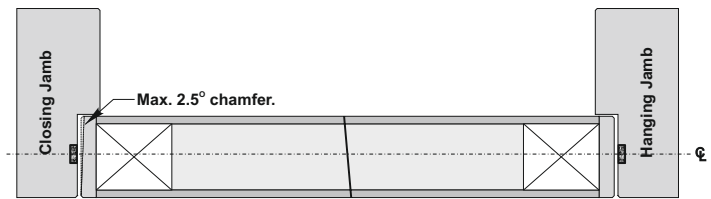
*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*

**10x4mm Pyrostrip P100**



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

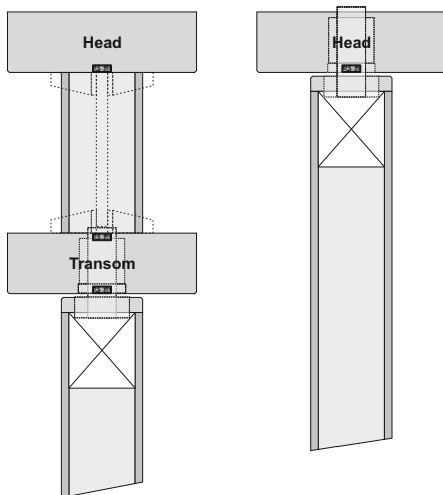
**Single Action Single leaf** Fig. 4.68  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm MDF facings can be extended over the lippings to provide for an edge banded detail if required.

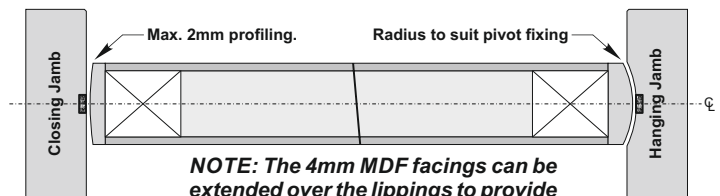
- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Single leaf** Fig. 4.69  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm MDF facings can be extended over the lippings to provide for an edge banded detail if required.

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



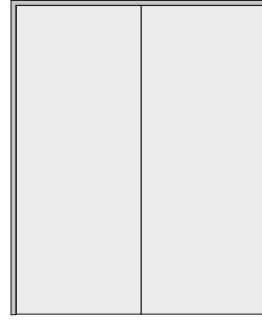
**Strebord**® 35+ Stile & Rail  
Door Core Construction  
Stile & Rail  
Constructions  
Intumescent Seals

# FD30

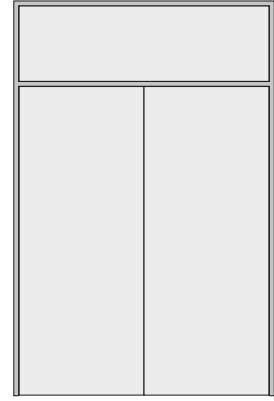
## 10x4mm Pyrostrip P100

**Q** Double Leaf FD30 applications  
using 10x4mm Pyrostrip P100  
Intumescent Seals.

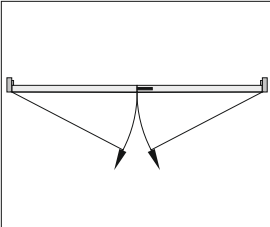
*NOTE: See Section 7 - Doorframes for 'Q' Mark  
approved minimum frame section dimensions for fire  
door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



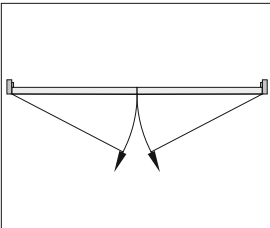
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 10x4mm PVC encased Pyrostrip P100.

**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x995mm  
To: 2316 x 2x916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*



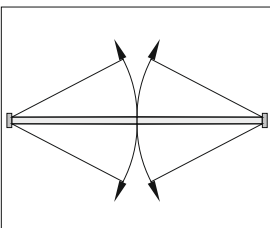
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 10x4mm PVC encased Pyrostrip P100.

**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x970mm  
To: 2266 x 2x916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*



**Double Action Double leaf Doorsets (Pairs):**

**Jams & Head** = 10x4mm PVC encased Pyrostrip P100.

**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x970mm  
To: 2266 x 2x916mm

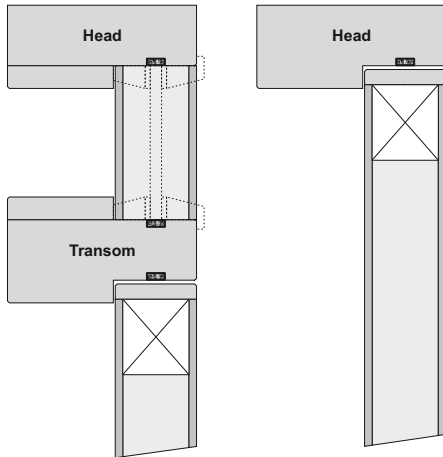
*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*





FD30 Stile & Rail  
Constructions  
Intumescent Seals

**10x4mm Pyrostrip P100**

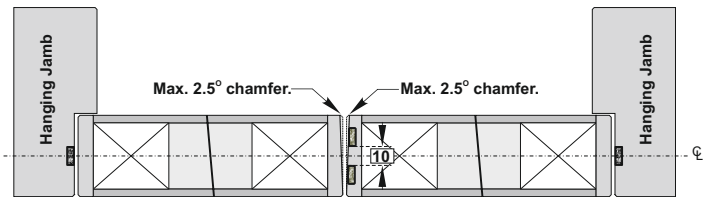


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Double leaf**

Fig. 4.70

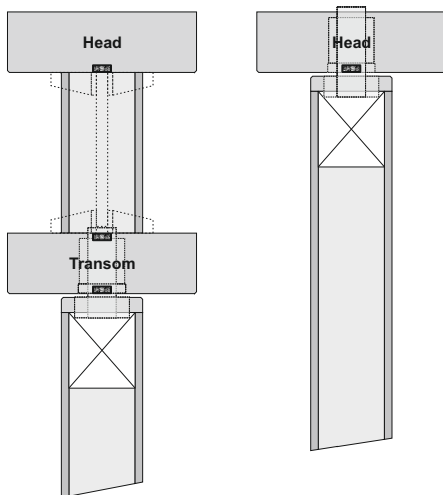
- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm MDF facings can be extended over the lippings to provide for an edge banded detail if required.

- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyrostrip P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

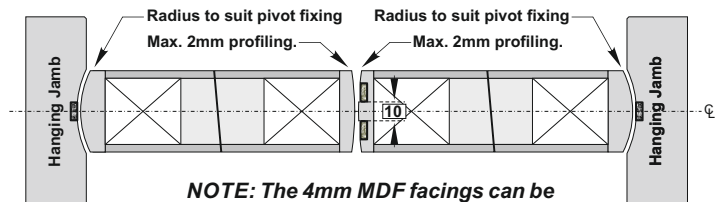


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**

Fig. 4.71

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm MDF facings can be extended over the lippings to provide for an edge banded detail if required.

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyrostrip P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Strebord**® 38+ Stile & Rail  
Door Core Construction  
Stile & Rail  
Constructions  
Intumescent Seals

# FD30

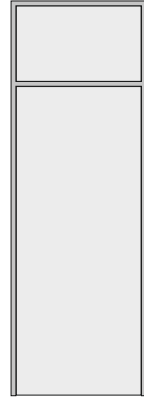
## 10x4mm Pyrostrip P100

Q Single Leaf FD30 applications  
using 10x4mm Pyrostrip P100  
Intumescent Seals.

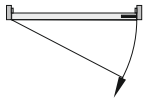
*NOTE: See Section 7 - Doorframes for 'Q' Mark  
approved minimum frame section dimensions for fire  
door applications.*



Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

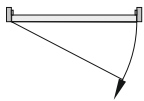


### Latched Single leaf Single Action Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1045mm  
To: 2416 x 916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*

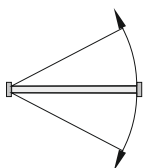


### Unlatched Single leaf Single Action Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1020mm  
To: 2366 x 916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*



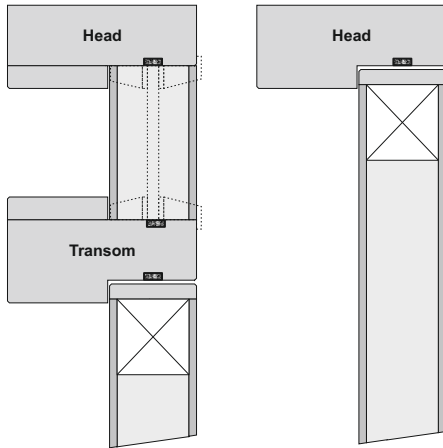
### Double Action Single leaf Doorsets:

Jams & Head = 10x4mm PVC encased Pyrostrip P100.

Door Leaf sizes: From: 2138 x 1020mm  
To: 2366 x 916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to  
all sides of the overpanel.*

**10x4mm Pyrostrip P100**

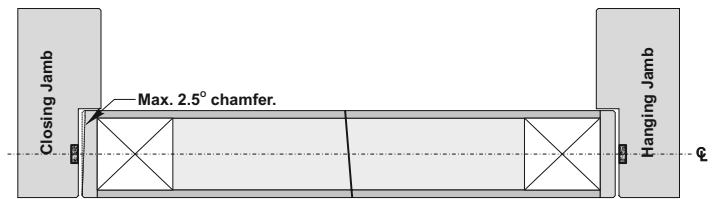


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Single Action Single leaf

Fig. 4.72

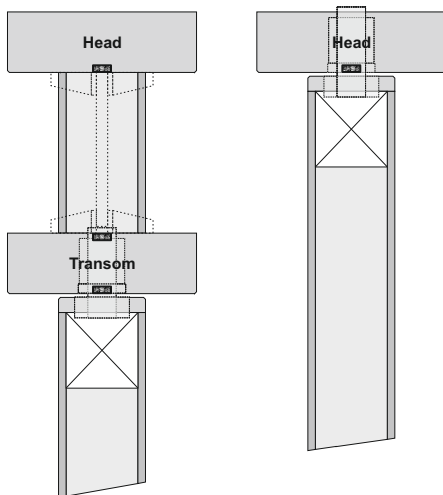
- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm Chipboard facings can be extended over the lippings to provide for an edge banded detail if required.

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

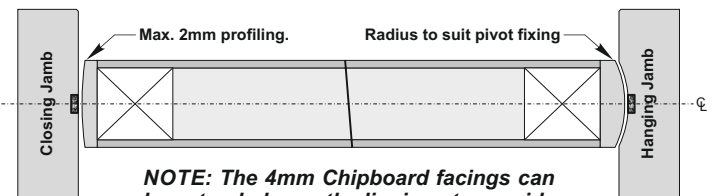


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

Double Action Single leaf

Fig. 4.73

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm Chipboard facings can be extended over the lippings to provide for an edge banded detail if required.

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



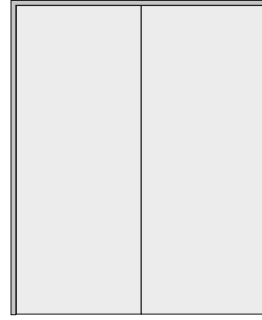
**Strebord**® 38+ Stile & Rail  
Door Core Construction  
Stile & Rail  
Constructions  
Intumescent Seals

# FD30

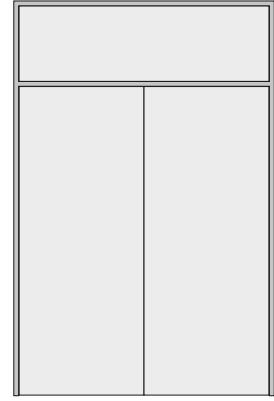
## 10x4mm Pyrostrip P100

**Q** Double Leaf FD30 applications using 10x4mm Pyrostrip P100 Intumescent Seals.

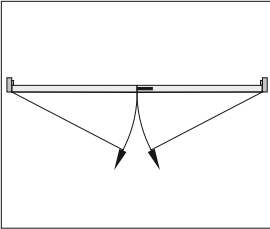
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



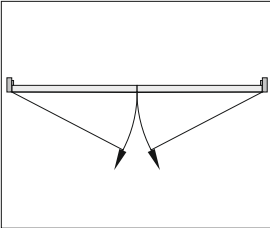
**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 10x4mm PVC encased Pyrostrip P100.

**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x995mm  
To: 2316 x 2x916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to all sides of the overpanel.*



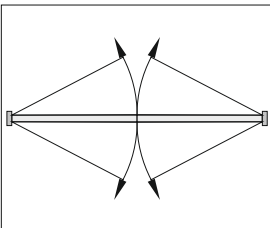
**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 10x4mm PVC encased Pyrostrip P100.

**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x970mm  
To: 2266 x 2x916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to all sides of the overpanel.*



**Double Action Double leaf Doorsets (Pairs):**

**Jamb & Head** = 10x4mm PVC encased Pyrostrip P100.

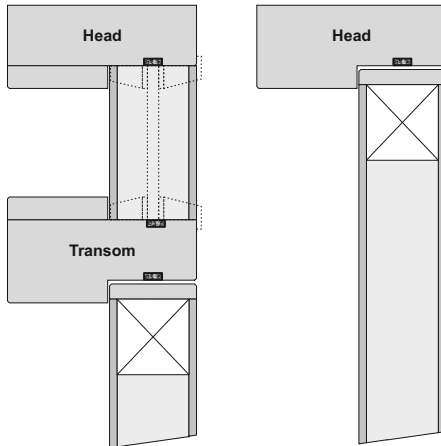
**Meeting Stiles** = 2No. 10x4mm PVC encased Pyrostrip P100.

**Door Leaf sizes:** From: 2138 x 2x970mm  
To: 2266 x 2x916mm

*NOTE: For storey height doorsets use 10x4mm PVC encased Pyrostrip P100 to all sides of the overpanel.*



**10x4mm Pyrostrip P100**

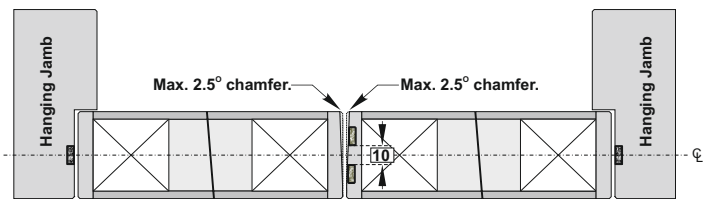


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Double leaf**

Fig. 4.74

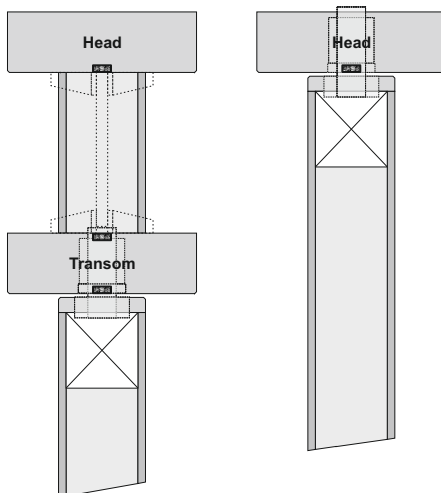
- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm Chipboard facings can be extended over the lippings to provide for an edge banded detail if required.

- Perimeter Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyrostrip P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

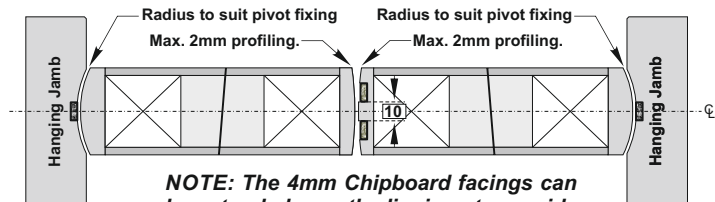


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**

Fig. 4.75

- Door Height Assemblies
- Storey Height Assemblies with Transom.



**NOTE:** The 4mm Chipboard facings can be extended over the lippings to provide for an edge banded detail if required.

- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm Pyrostrip P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



Acrovyn Faced Doors **FD30**  
 Intumescent Seals

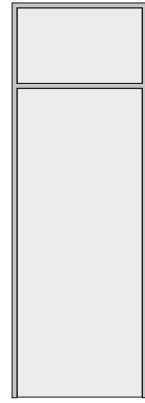
**15x4mm Lorient 617**

**Q** Single Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

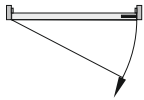
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



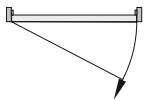
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1161mm  
To: 2900 x 900mm

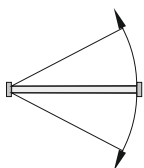
*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1140mm  
To: 2620 x 900mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

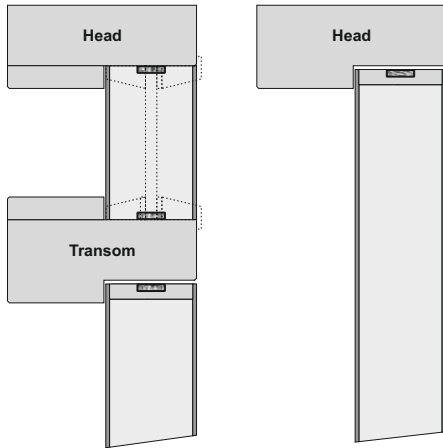

**Double Action Single leaf Doorsets:**

**Jambs & Head** = 15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 1140mm  
To: 2620 x 900mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

**15x4mm Lorient 617**



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

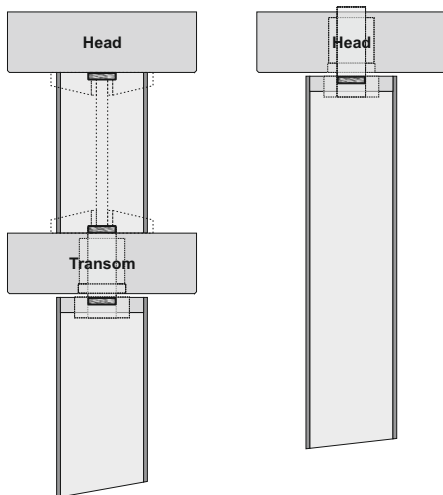
**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.76



- Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

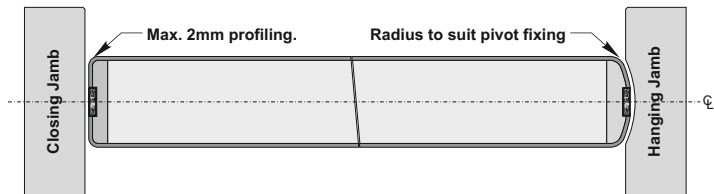
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.77



- Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

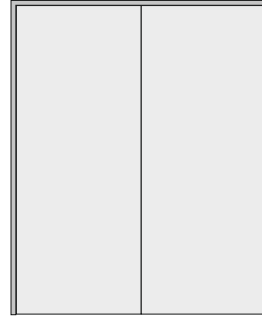


Acrovyn Faced Doors **FD30**  
 Intumescent Seals

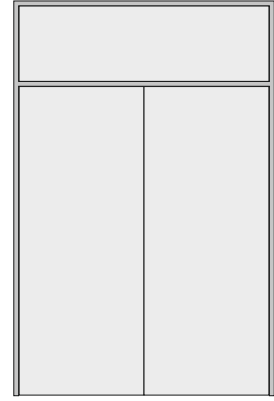
**15x4mm Lorient 617**

**Q** Double Leaf FD30 applications using 15x4mm Lorient 617 Intumescent Seals.

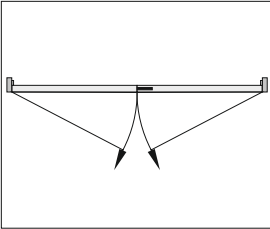
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**

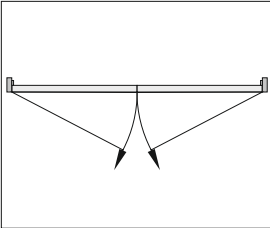

**Latched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2No. 15x4mm PVC encased Lorient 617 - (1No. in each leaf).

**Door Leaf sizes:** From: 2100 x 2x1065mm  
To: 2350 x 2x900mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

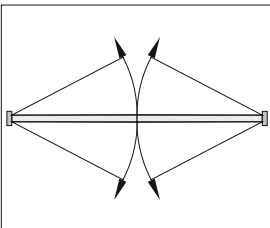

**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2No. 15x4mm PVC encased Lorient 617 - (1No. in each leaf).

**Door Leaf sizes:** From: 2100 x 2x 1040mm  
To: 2350 x 2x 900mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Unlatched Double leaf Double Action Doorsets (Pairs):**

**Jamb & Head** = 15x4mm PVC encased Lorient 617.

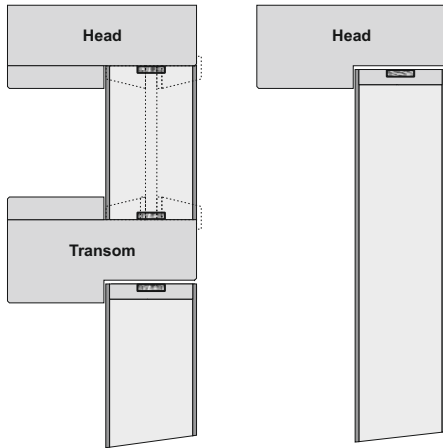
**Meeting Stiles** = 2No. 15x4mm PVC encased Lorient 617 - (1No. in each leaf).

**Door Leaf sizes:** From: 2100 x 2x2040mm  
To: 2350 x 2x900mm

*NOTE: For storey height doorsets use 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*



**15x4mm Lorient 617**

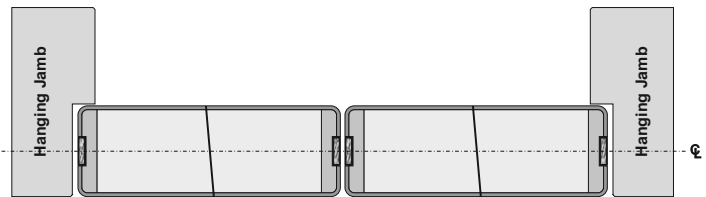


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Single Action Double leaf**

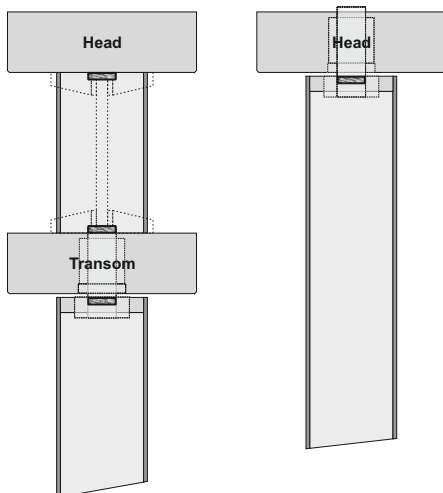
Fig. 4.78

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.
- At the meeting stiles, 1No.15x4mm Lorient 617 seal must located centrally in the door thickness in both leaves.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

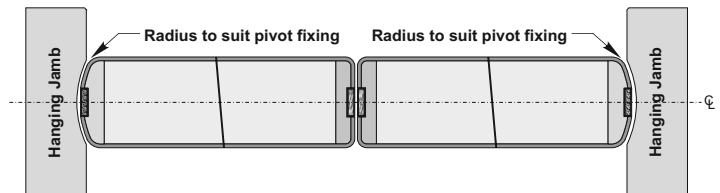


**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**

Fig. 4.79

- Door Height Assemblies
- Storey Height Assemblies with Transom.



- Perimeter Intumescent seals must be located centrally in the door thickness and fitted to the door leaf.
- At the meeting stiles, 1No.15x4mm Lorient 617 seal must located centrally in the door thickness in both leaves.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Streframe  
 Intumescent Seals**

# FD30

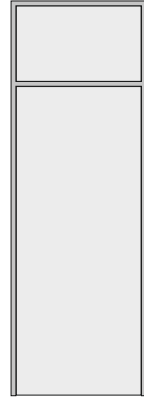
## Approved 15x4mm

**Q** Single Leaf FD30 applications using any approved 15x4mm Intumescent Seals. (See Sections 2 & 4 for FD30 doorsets with wood frames).

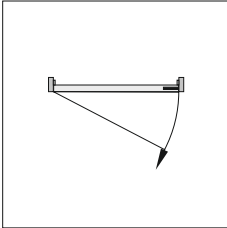
**NOTE:** See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.



Single leaf  
 Door Height  
 Doorsets



Single leaf  
 Storey Height  
 Doorsets  
 with Transom



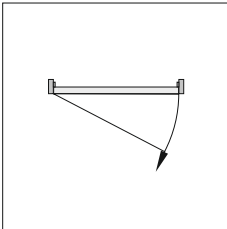
### Latched Single leaf Single Action Doorsets:

Jams & Head = 15x4mm approved PVC encased Intumescent Seals.

Door Leaf sizes: From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.



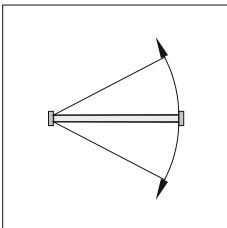
### Unlatched Single leaf Single Action Doorsets:

Jams & Head = 15x4mm approved PVC encased Intumescent Seals.

Door Leaf sizes: From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.



### Double Action Single leaf Doorsets:

Jams & Head = 15x4mm approved PVC encased Intumescent Seals.

Door Leaf sizes: From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.

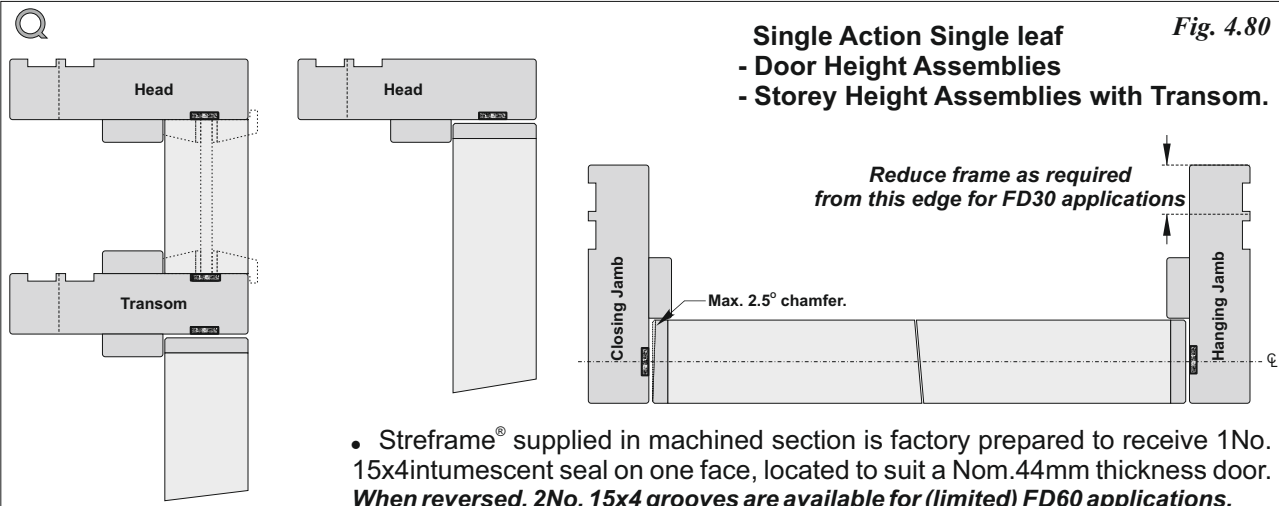
**NOTE:** Door & Frame intumescent seals for FD30 applications must be located as described in Sections 2 & 4 to suit the particular intumescent seal brand / type.



# FD30

Streframe  
Intumescent Seals

**Approved 15x4mm**



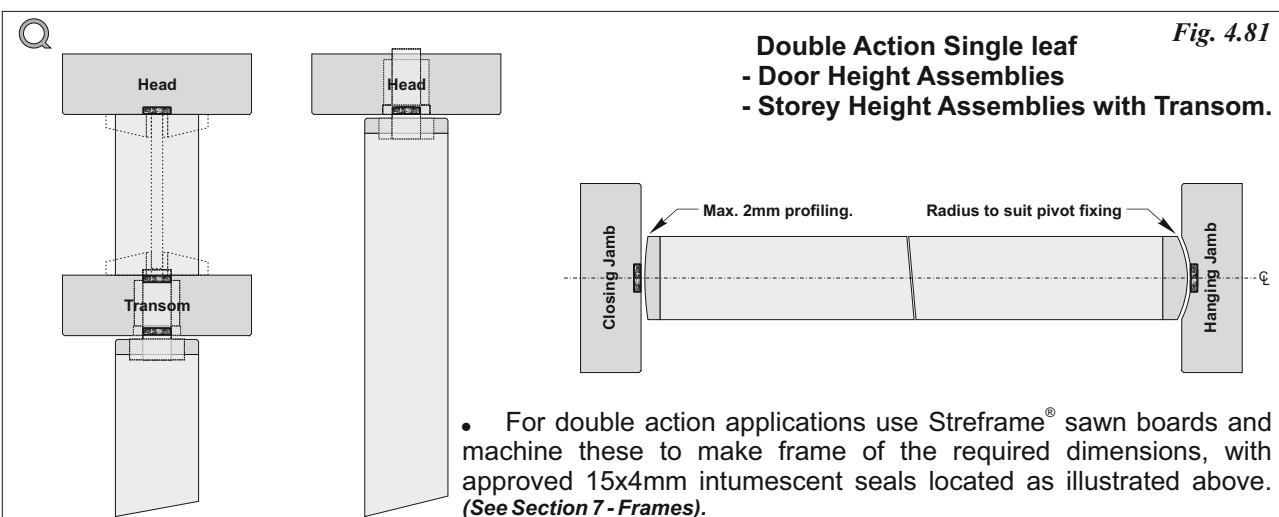
**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.80

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing). Please note pre machined sections show for example.

- Streframe<sup>®</sup> supplied in machined section is factory prepared to receive 1No. 15x4intumescent seal on one face, located to suit a Nom.44mm thickness door. **When reversed, 2No. 15x4 grooves are available for (limited) FD60 applications.**
- For FD30 applications Streframe<sup>®</sup> can be adjusted (where required) to suit the intended location requirements by reducing the frame from the FD60 groove end. (See Section 7 - Frames).
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.81

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- For double action applications use Streframe<sup>®</sup> sawn boards and machine these to make frame of the required dimensions, with approved 15x4mm intumescent seals located as illustrated above. (See Section 7 - Frames).
- Intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

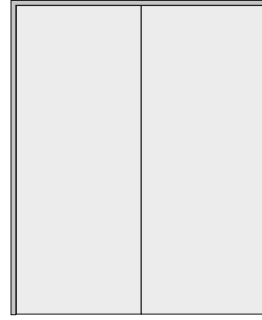
**Streframe  
 Intumescent Seals**

# FD30

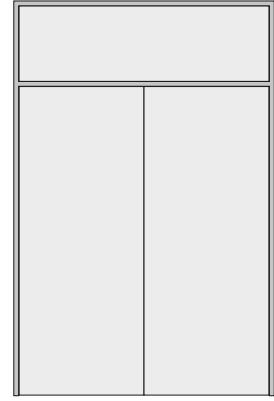
## Approved 15x4mm

**Q** Double Leaf FD30 applications using any approved 15x4mm Intumescent Seals. (See Sections 2 & 4 for FD30 doorsets with wood frames).

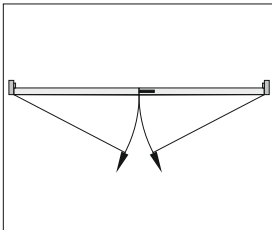
**NOTE:** See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.



**Double leaf  
 Door Height  
 Doorsets**



**Double leaf  
 Storey Height  
 Doorsets  
 with Transom**



### Latched Double leaf Single Action Doorsets (Pairs):

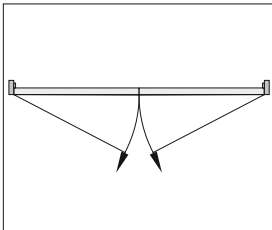
**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.



### Unlatched Double leaf Single Action Doorsets (Pairs):

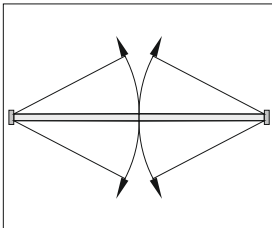
**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.



### Unlatched Double leaf Single Action Doorsets (Pairs):

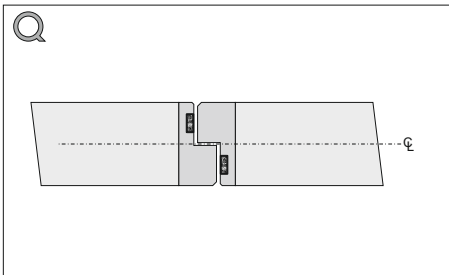
**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** For storey height doorsets use 15x4mm approved PVC encased Intumescent seal to all sides of the overpanel.



### Rebated Meeting Stiles:

**Rebated Meeting Stiles** = 2x10x4mm approved PVC encased intumescent seals with one strip located centrally in each rebate.

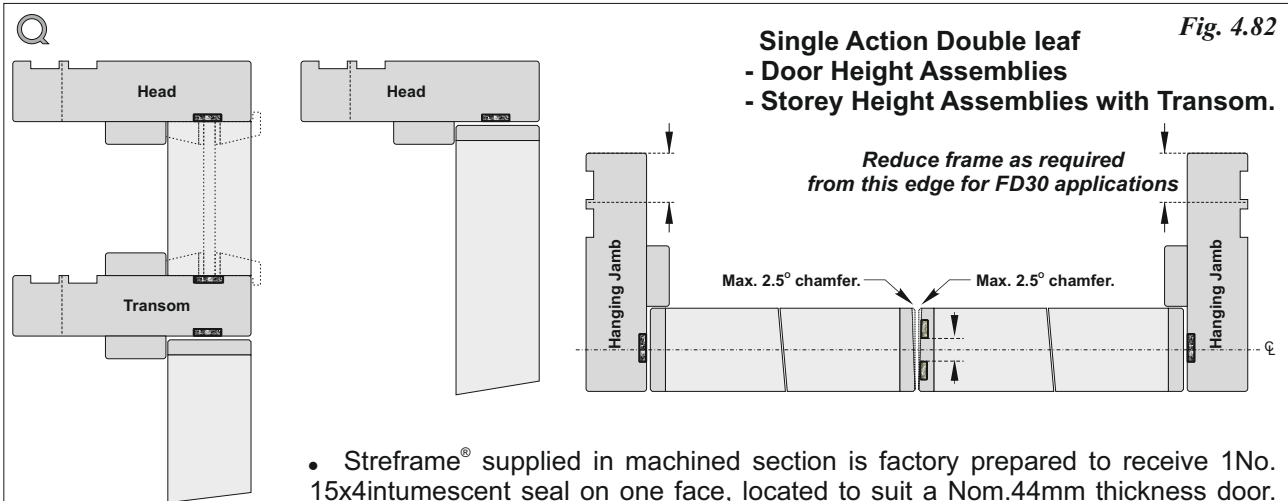
See Sections 2 & 4 for approved rebated meeting stile seals

**NOTE:** Door & Frame intumescent seals for FD30 applications must be located as described in Sections 2 & 4 to suit the particular intumescent seal brand / type.



# FD30 Streframe Intumescent Seals

## Approved 15x4mm



**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

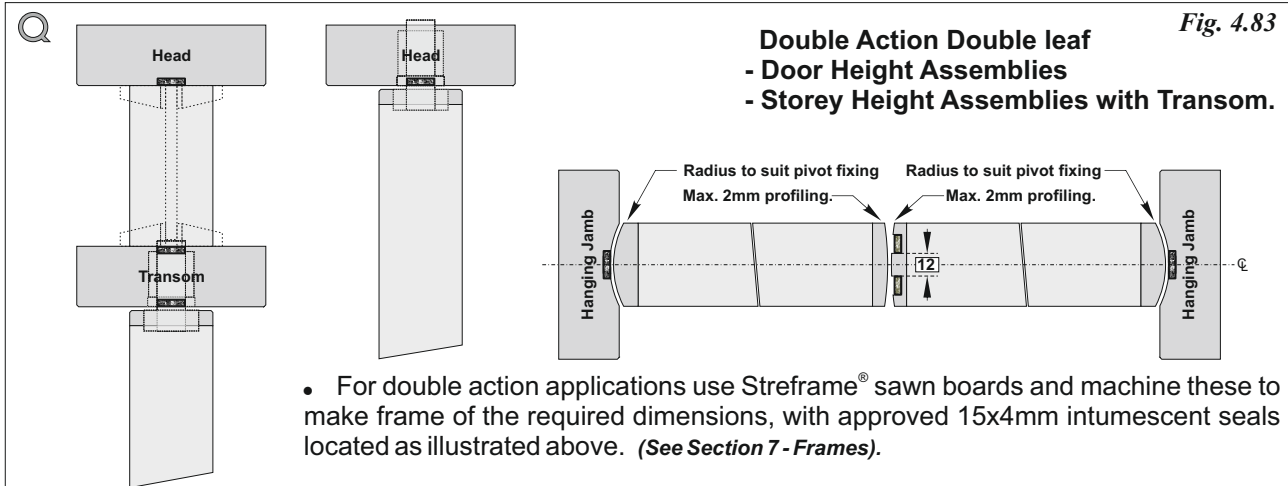
Fig. 4.82

**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing). Pre-machined section as example only.

- Streframe<sup>®</sup> supplied in machined section is factory prepared to receive 1No. 15x4intumescent seal on one face, located to suit a Nom.44mm thickness door. **When reversed, 2No. 15x4 grooves are available for (limited) FD60 applications.**
- For FD30 applications Streframe<sup>®</sup> can be adjusted (where required) to suit the intended location requirements by reducing the frame from the FD60 groove end. (See Section 7 - Frames).
- At the meeting stiles, 2x10x4mm approved PVC encased intumescent seals must be fitted to one leaf only and located as required for the particular seal type.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE 1: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.  
NOTE 2: Intumescent seals are not included and must be ordered separately.



**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.83

**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing).

- For double action applications use Streframe<sup>®</sup> sawn boards and machine these to make frame of the required dimensions, with approved 15x4mm intumescent seals located as illustrated above. (See Section 7 - Frames).
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf.
- At the meeting stiles, 2x10x4mm approved PVC encased intumescent seals must be fitted to one leaf only and located as required for the particular seal type.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



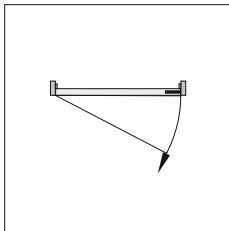
**Streframe Intumescent Seals FD30**
**Approved 15x4mm**

**Q** Single Leaf FD30 applications using any approved 15x4mm Intumescent Seals. (See Sections 2 & 4 for FD30 doorsets with wood frames).

**NOTE:** See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.



Single leaf  
Storey Height Doorsets  
with Flush Overpanel


**Latched Single leaf Single Action Storey Height Doorsets:**

**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

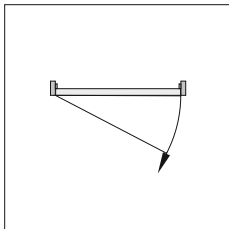
**Door Leaf / Overpanel - Square** = 2x15x4mm approved PVC encased intumescent seals fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm approved PVC encased intumescent seals fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.


**Unlatched Single leaf Single Action Storey Height Doorsets:**

**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

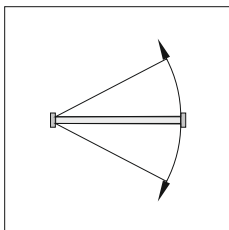
**Door Leaf / Overpanel - Square** = 2x15x4mm approved PVC encased intumescent seals fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm approved PVC encased intumescent seals fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.


**Double Action Single leaf Storey Height Doorsets:**

**Jamb & Head** = 15x4mm approved PVC encased Intumescent Seals.

**Door Leaf / Overpanel - Square** = 2x15x4mm approved PVC encased intumescent seals fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.

To: See data sheet for selected Intumescent Seal type.

**NOTE:** Use 15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.

**NOTE:** Door & Frame intumescent seals for FD30 applications must be located as described in Sections 2 & 4 to suit the particular intumescent seal brand / type.



# FD30

Streframe  
Intumescent Seals

## Approved 15x4mm

**Single Action Single leaf Storey Height Assemblies with Flush Overpanel.** *Fig. 4.84*

Reduce frame as required from this edge for FD30 applications

Max. 2.5° chamfer.

- Streframe<sup>®</sup> supplied in machined section is factory prepared to receive 1No. 15x4 intumescent seal on one face, located to suit a Nom.44mm thickness door. **When reversed, 2No. 15x4 grooves are available for (limited) FD60 applications.**
- For FD30 applications Streframe<sup>®</sup> can be adjusted (*where required*) to suit the intended location requirements by reducing the frame from the FD60 groove end. (*See Section 7 - Frames*).

- For the door / overpanel junction the use of square edges are recommended for single leaf doorsets with 2x15x4 approved seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- The door may be rebated to the overpanel with a 12mm rebate located centrally in the door thickness. Where a rebated junction is used 1x15x4 seal must be fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE 1:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Double Action Single leaf Storey Height Assemblies with Flush Overpanel.** *Fig. 4.85*

Max. 2mm profiling.

Radius to suit pivot fixing

- For double action applications use Streframe<sup>®</sup> sawn boards and machine these to make frame of the required dimensions, with approved 15x4mm intumescent seals located as illustrated above. (*See Section 7 - Frames*).
- Perimeter intumescent seals must be located centrally in the door thickness and may fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

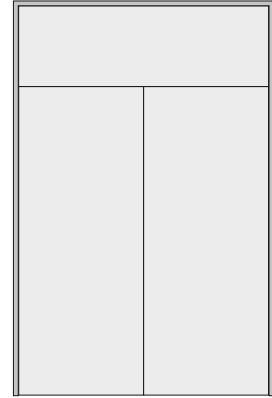
**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.



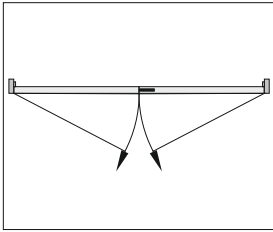
**Streframe Intumescent Seals FD30**
**Approved 15x4mm**

**Q** Double Leaf FD30 applications using any approved 15x4mm Intumescent Seals. (See Sections 2 & 4 for FD30 doorsets with wood frames).

**NOTE:** See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.



Double leaf  
Storey Height Doorsets  
with Flush Overpanel


**Latched Double leaf Single Action Doorsets (Pairs):**

**Jambes & Head** = 15x4mm approved PVC encased Intumescent Seals.

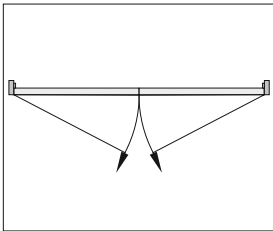
**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm approved PVC encased intumescent seals fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.  
To: See data sheet for selected Intumescent Seal type.

**NOTE 1:** Use 15x4mm approved PVC encased intumescent seals to top and sides of the overpanel - See details.

**NOTE 2:** Rebated Meeting stiles are not 'Q' Mark approved for this application.


**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jambes & Head** = 15x4mm approved PVC encased Intumescent Seals.

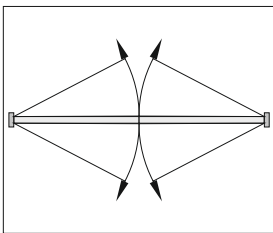
**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf / Overpanel - Equal Rebated** = 2x15x4mm approved PVC encased intumescent seals fitted to the rebate of the door leaf and the overpanel.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.  
To: See data sheet for selected Intumescent Seal type.

**NOTE 1:** Use 15x4mm approved PVC encased intumescent seals to top and sides of the overpanel - See details.

**NOTE 2:** Rebated Meeting stiles are not 'Q' Mark approved for this application.


**Double Action Double leaf Doorsets (Pairs):**

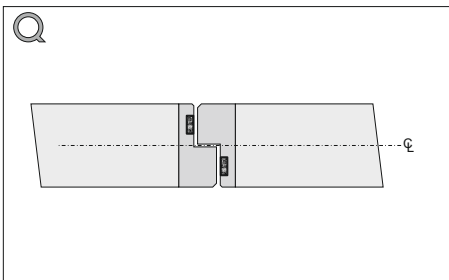
**Jambes & Head** = 15x4mm approved PVC encased Intumescent Seals.

**Meeting Stiles** = 2x10x4mm approved PVC encased Intumescent Seals.

**Door Leaf / Overpanel - Square** = 2x15x4mm approved PVC encased intumescent seals fitted to door leaf or overpanel separated by 5mm centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: See data sheet for selected Intumescent Seal type.  
To: See data sheet for selected Intumescent Seal type.

**NOTE:** Use 15x4mm approved PVC encased intumescent seals to top and sides of the overpanel - See details.


**Rebated Meeting Stiles:**

**Rebated Meeting Stiles** = 2x10x4mm PVC encased Palusol P100 with one strip located centrally in each rebate.

**NOTE:** Rebated meeting stiles may be used with storey height double leaf doorsets with flush overpanels. However the junction between the door and overpanel must be square with 2No. 15x4 Palusol seals separated by 5mm and located centrally in the overpanel thickness. An astragal added to the closing face of the overpanel is required to prevent swing through of the door leaves.

**NOTE:** Door & Frame intumescent seals for FD30 applications must be located as described in Sections 2 & 4 to suit the particular intumescent seal brand / type.

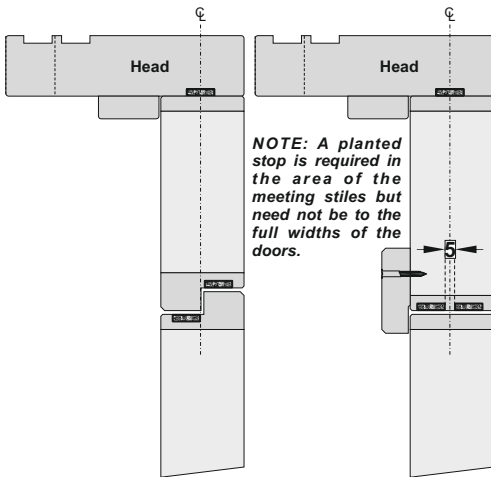


# FD30 Streframe Intumescent Seals

4.95

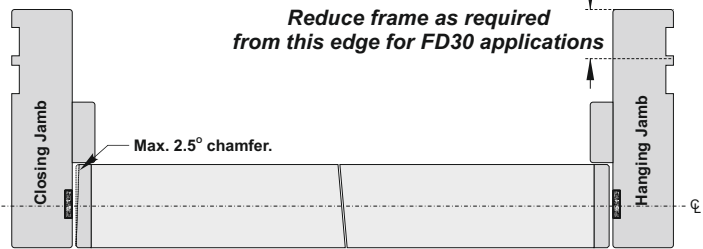
**Approved 15x4mm**

FD30 Fire Door Applications  
Intumescent Seals



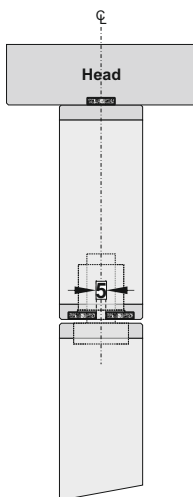
Single Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.86



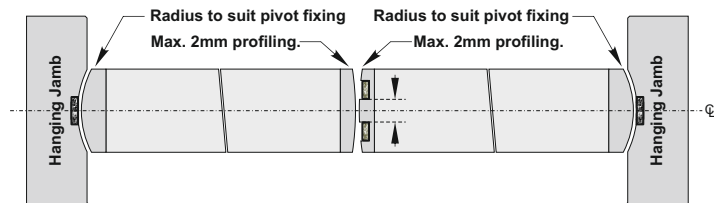
- Streframe<sup>®</sup> supplied in machined section is factory prepared to receive 1No. 15x4intumescent seal on one face, located to suit a Nom.44mm thickness door. **When reversed, 2No. 15x4 grooves are available for (limited) FD60 applications.**
- For FD30 applications Streframe<sup>®</sup> can be adjusted (where required) to suit the intended location by reducing the frame from the FD60 groove end. (See Section 7 - Frames).

- For the door / overpanel junction the door is rebated to the overpanel to prevent swing through of the door. The 12mm rebate is located centrally in the door thickness with 1x15x4 seal fitted to the rebate at the top of the door and 1x15x4 seal fitted to the rebate of the overpanel.  
**NOTE: A rebated door / overpanel junction is not approved when rebated meeting stiles are used.**
- At the meeting stiles, 2x10x4mm approved PVC encased intumescent seals must be fitted to one leaf only and located as required for the particular seal type.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.  
**NOTE 1: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.**  
**NOTE 2: An astragal can be fitted to the closing face of the overpanel to prevent swing through of pairs of doors as an alternative to rebating with intumescent seals located to suit a square edge door / overpanel junction.**



Double Action Double leaf Storey Height Assemblies with Flush Overpanel.

Fig. 4.87



- For double action applications use Streframe<sup>®</sup> sawn boards and machine these to make the frame of the required dimensions, with approved 15x4mm intumescent seals located as illustrated above. (See Section 7 - Frames).
- Perimeter intumescent seals must be located centrally in the door thickness and may be fitted to the frame or the door leaf / overpanel.
- At the meeting stiles, 2x10x4mm approved PVC encased intumescent seals must be fitted to one leaf only and located as required for the particular seal type.
- The door / overpanel junction is essentially square with 2x15x4 seals located to the bottom of the overpanel or top of the door separated by 5mm and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.

**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm PALUSOL P100**

**Q** Single Leaf FD60 applications  
 using 2No. 15x4mm Palusol  
 Intumescent Seals.

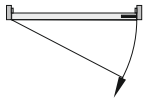
*NOTE: See Section 7 - Doorframes for 'Q' Mark  
 approved minimum frame section dimensions for fire  
 door applications.*



**Single leaf  
 Door Height  
 Doorsets**



**Single leaf  
 Storey Height  
 Doorsets  
 with Transom**

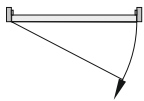


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2120 x 1105mm  
 To: 2505 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to  
 all sides of the overpanel.*

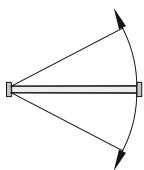


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2120 x 1080mm  
 To: 2455 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to  
 all sides of the overpanel.*



**Double Action Single leaf Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Palusol P100.

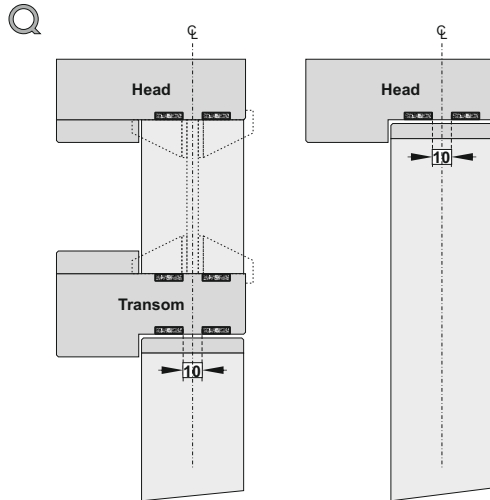
**Door Leaf sizes:** From: 2120 x 1080mm  
 To: 2455 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to  
 all sides of the overpanel.*

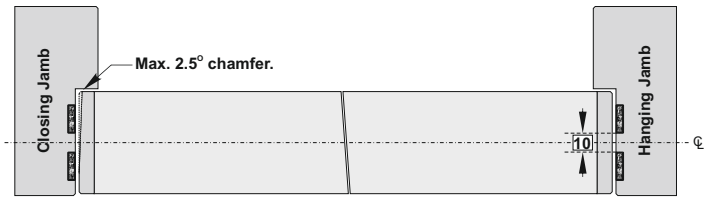
# FD60 Hardwood Door Frames Intumescent Seals

## 2x15x4mm PALUSOL P100

Fig. 4.88



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.



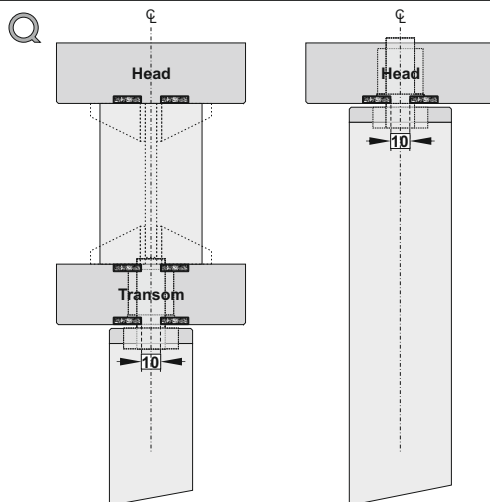
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

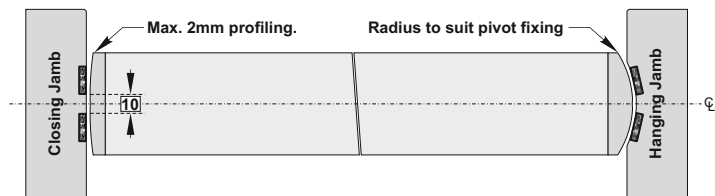
- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Fig. 4.89



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

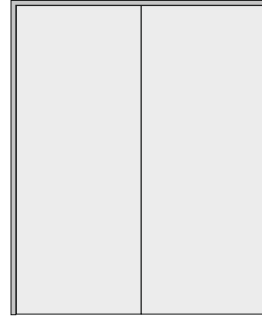
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



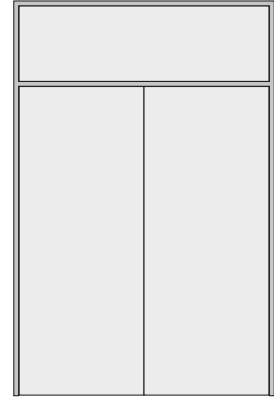
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm PALUSOL P100**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Palusol Intumescent Seals.

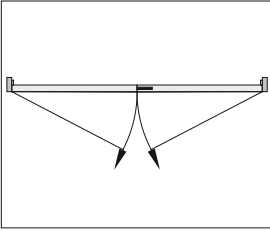
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



**Latched Double leaf Single Action Doorsets (Pairs):**

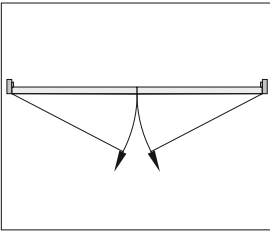
**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2120 x 2x1005mm  
To: 2305 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Unlatched Double leaf Single Action Doorsets (Pairs):**

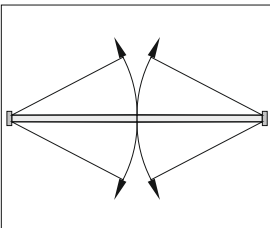
**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf sizes:** From: 2120 x 2x980mm  
To: 2255 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

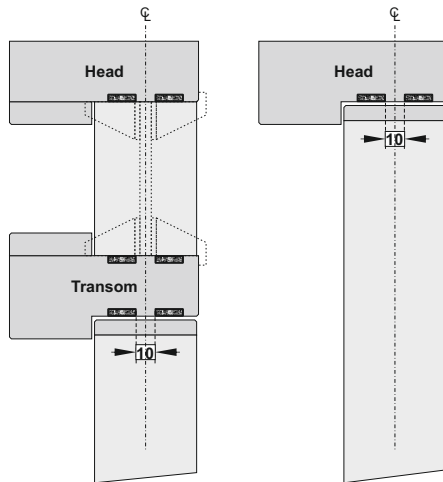
**Door Leaf sizes:** From: 2120 x 2x980mm  
To: 2255 x 2x915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Palusol P100 to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

4.99

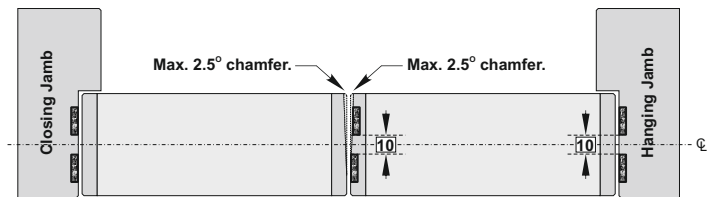
## 2x15x4mm PALUSOL P100



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

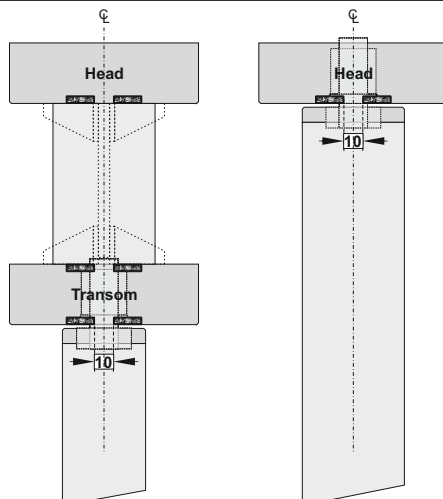
**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.90



- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Palusol P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

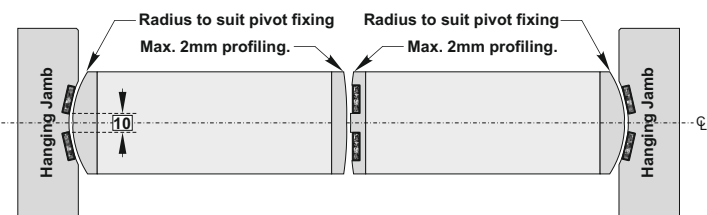
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.91



- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Palusol P100 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



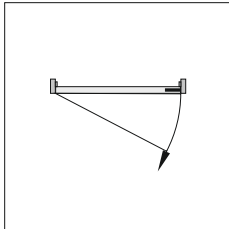
**Hardwood Door Frames** **FD60**  
**Intumescent Seals**
**2x15x4mm PALUSOL P100**

**Q** Single Leaf FD60 applications  
 using 2No. 15x4mm Palusol  
 Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark  
 approved minimum frame section dimensions for fire  
 door applications.*



Single leaf  
 Storey Height Doorsets  
 with Flush Overpanel


**Latched Single leaf Single Action Storey Height Doorsets:**

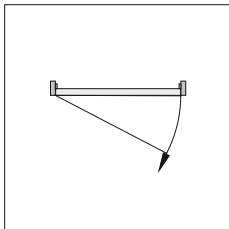
**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 40x4mm PVC encased Palusol P100 fitted to door leaf or overpanel centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Rebated** = 25x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and a 15x4mm PVC encased Palusol P100 fitted to the rebate of the overpanel.

**Door Leaf sizes:** From: 2120 x 1055mm  
 To: 2405 x 915mm

*NOTE: Use 2x15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*


**Unlatched Single leaf Single Action Storey Height Doorsets:**

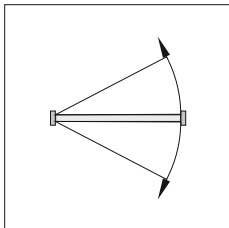
**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 40x4mm PVC encased Palusol P100 fitted to door leaf or overpanel centrally located to door / overpanel thickness.

**Door Leaf / Overpanel - Equal Rebated** = 25x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and a 15x4mm PVC encased Palusol P100 fitted to the rebate of the overpanel.

**Door Leaf sizes:** From: 2120 x 1030mm  
 To: 2355 x 915mm

*NOTE: Use 2x15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*


**Double Action Single leaf Storey Height Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 40x4mm PVC encased Palusol P100 fitted to door leaf or overpanel centrally located to door / overpanel thickness.

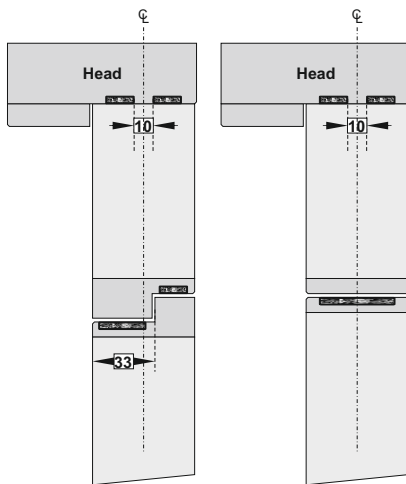
**Door Leaf sizes:** From: 2120 x 1030mm  
 To: 2355 x 915mm

*NOTE: Use 2x15x4mm PVC encased Palusol P100 to top and sides of the overpanel - See details.*

# FD60 Hardwood Door Frames Intumescent Seals

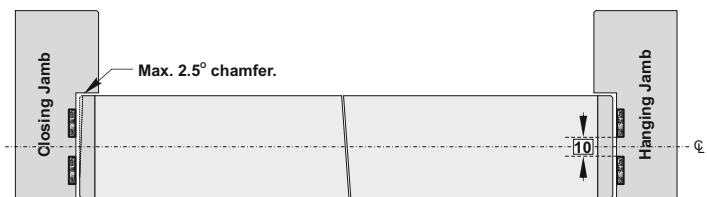
4.101

## 2x15x4mm PALUSOL P100



**Single Action Single leaf  
Storey Height Assemblies  
with Flush Overpanel.**

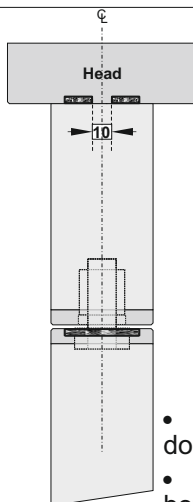
Fig. 4.92



seal located to the bottom of the overpanel or top of the door separated by 10mm and located centrally in the door thickness.

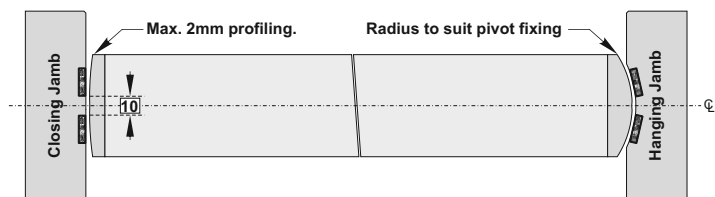
- The door may be rebated to the overpanel with a 13mm offset rebate located 33mm from the door leaf face with the overpanel rebated to suit. A 25x4mm seal is fitted to the rebate at the top of the door with a 15x4mm seal fitted to the rebate of the overpanel.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf  
Storey Height Assemblies  
with Flush Overpanel.**

Fig. 4.93



- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf / overpanel.
- The door / overpanel junction is essentially square with a 40x4mm seal located to the bottom of the overpanel or top of the door and located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**  
Pivot devices used for this application must have been tested in a wood door of the same (or similar) construction in a similar configuration and must be fitted with all intumescent gaskets as required by reference to the pivot fixing test / assessment data.

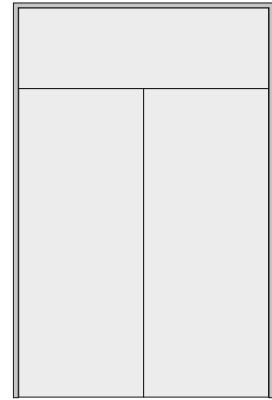




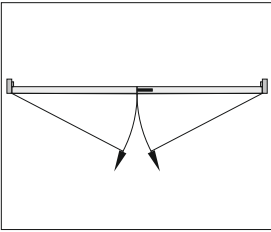
**Hardwood Door Frames** **FD60**  
**Intumescent Seals**
**2x15x4mm PALUSOL P100**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Palusol P100 Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Storey Height Doorsets  
with Flush Overpanel


**Latched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

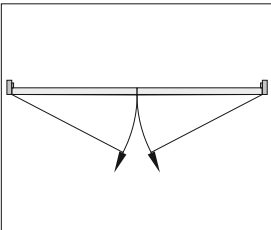
**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Rebated** = 25x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and a 15x4mm PVC encased Palusol P100 fitted to the rebate of the overpanel.

**Door Leaf sizes:** From: 2120 x 2x955mm  
To: 2205 x 2x915mm

*NOTE 1: Use 2x15x4mm PVC encased Palusol P100 seals to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

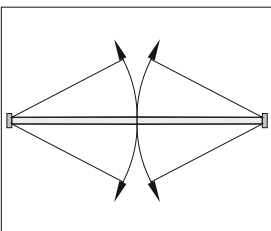
**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Rebated** = 25x4mm PVC encased Palusol P100 fitted to the rebate of the door leaf and a 15x4mm PVC encased Palusol P100 fitted to the rebate of the overpanel.

**Door Leaf sizes:** From: 2120 x 2x930mm  
To: 2155 x 2x915mm

*NOTE 1: Use 2x15x4mm PVC encased Palusol P100 seals to top and sides of the overpanel - See details.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Palusol P100.

**Meeting Stiles** = 2x15x4mm PVC encased Palusol P100.

**Door Leaf / Overpanel - Square** = 40x4mm PVC encased Palusol P100 fitted to door leaf or overpanel centrally located to door / overpanel thickness.

**Door Leaf sizes:** From: 2120 x 2x930mm  
To: 2155 x 2x915mm

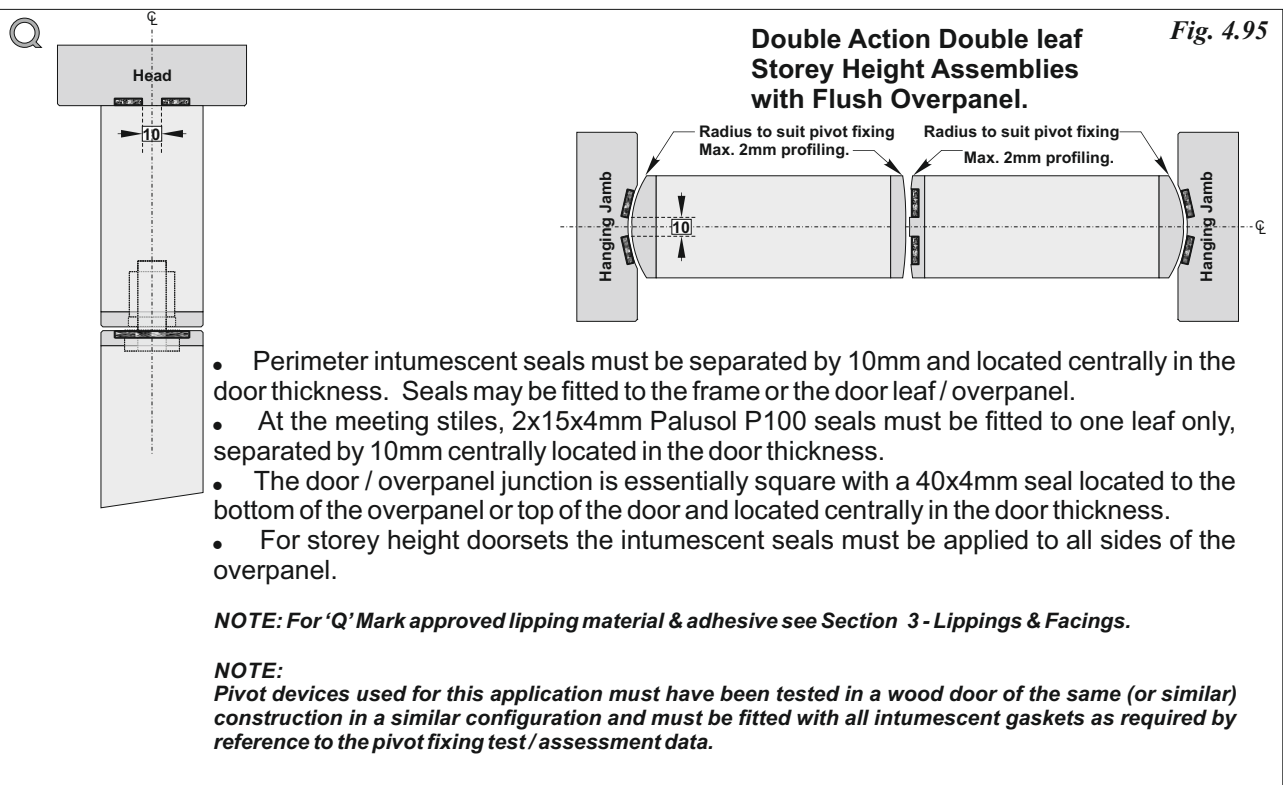
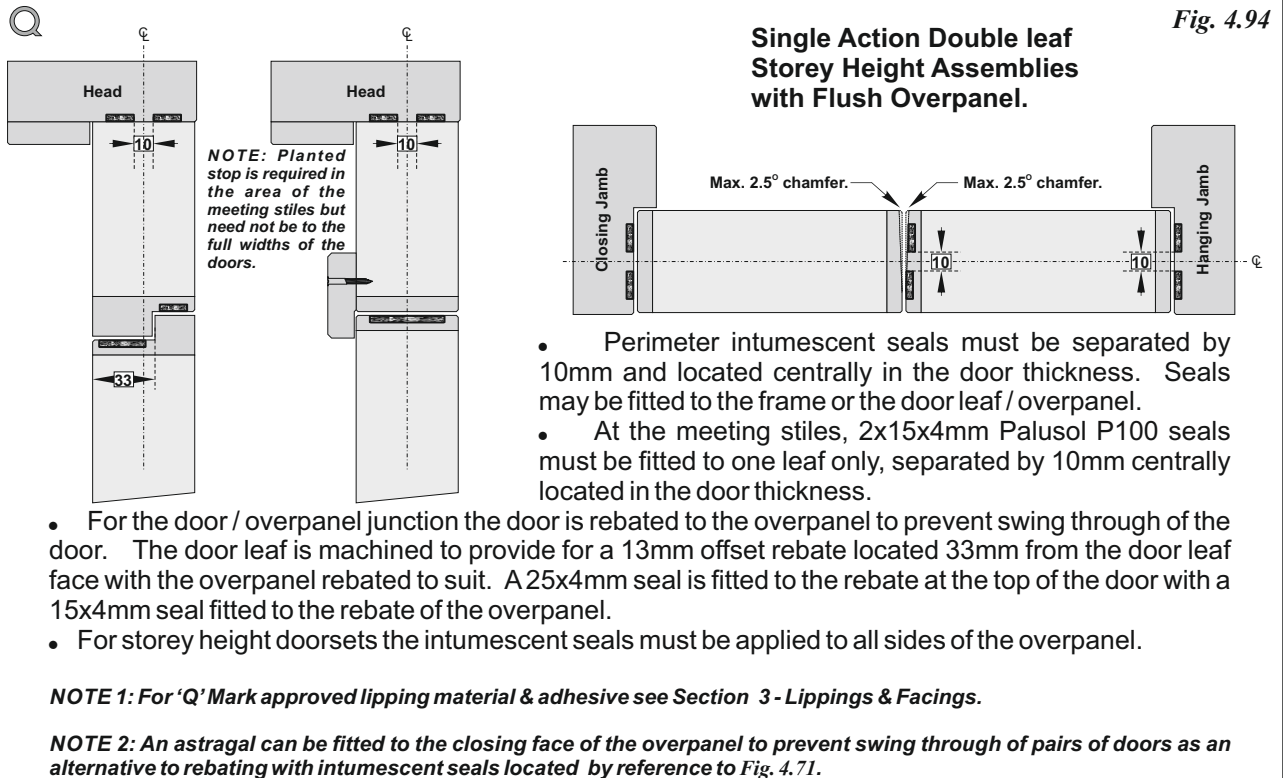
*NOTE: Use 2x15x4mm PVC encased Palusol P100 seals to top and sides of the overpanel - See details.*



# FD60 Hardwood Door Frames Intumescent Seals

4.103

## 2x15x4mm PALUSOL P100



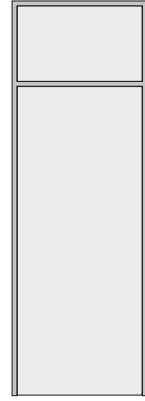
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm Pyroplex**

**Q** Single Leaf FD60 applications using 2No. 15x4mm Pyroplex Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*

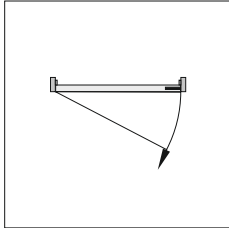


Single leaf  
Door Height  
Doorsets



Single leaf  
Storey Height  
Doorsets  
with Transom

**NOTE:** Extended width with reduced height approved for single leaf doorsets



**Latched Single leaf Single Action Doorsets:**

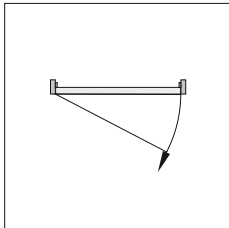
Jams & Head = 2x15x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2742 x 1046mm  
To: 3066 x 928mm

**OR**

Door Leaf sizes: From: 2454 x 1271mm  
To: 2528 x 1234mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Pyroplex seals to all sides of the overpanel.*



**Unlatched Single leaf Single Action Doorsets:**

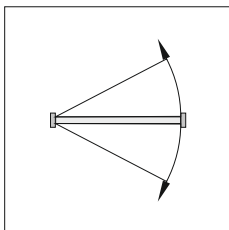
Jams & Head = 2x15x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2742 x 1021mm  
To: 3066 x 928mm

**OR**

Door Leaf sizes: From: 2454 x 1246mm  
To: 2478 x 1234mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Pyroplex seals to all sides of the overpanel.*



**Double Action Single leaf Doorsets:**

Jams & Head = 2x15x4mm PVC encased Pyroplex.

Door Leaf sizes: From: 2742 x 1021mm  
To: 3066 x 928mm

**OR**

Door Leaf sizes: From: 2454 x 1246mm  
To: 2478 x 1234mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Pyroplex seals to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

4.105

## 2x15x4mm Pyroplex

**Fig. 4.96**

**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

FD60 Fire Door Applications  
Intumescent Seals

**Fig. 4.97**

**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

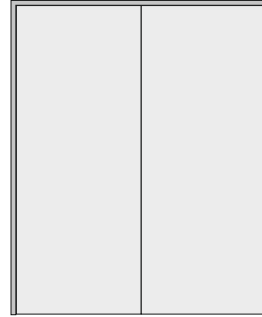
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



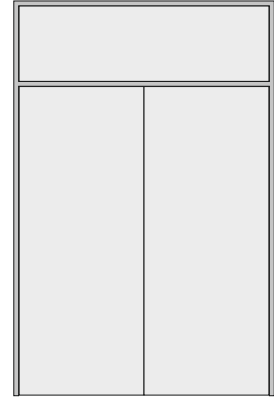
Hardwood Door Frames  
 Intumescent Seals **FD60**
**2x15x4mm Pyroplex**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Pyroplex Intumescent Seals.

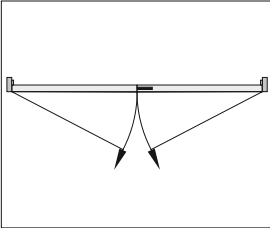
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom


**Latched Double leaf Single Action Doorsets (Pairs):**

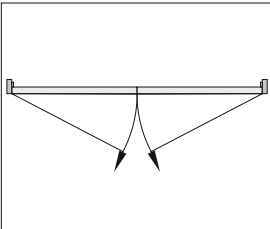
**Jambs & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2135 x 2x1042mm  
To: 2380 x 2x932mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Pyroplex seals to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Unlatched Double leaf Single Action Doorsets (Pairs):**

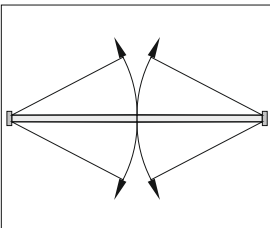
**Jambs & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2135 x 2x1017mm  
To: 2330 x 2x932mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Pyroplex to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

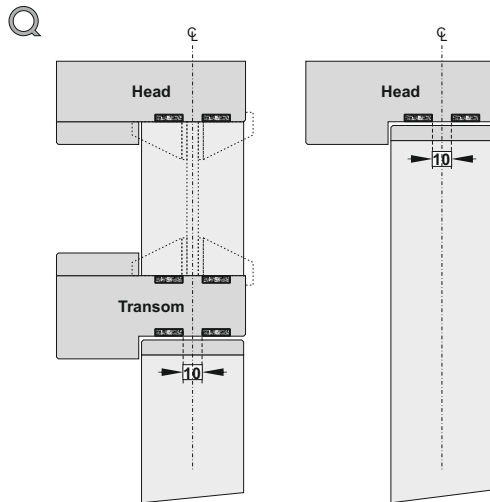
**Door Leaf sizes:** From: 2135 x 2x1017mm  
To: 2330 x 2x932mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Pyroplex to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

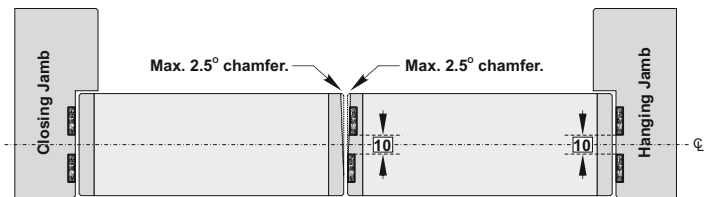
4.107

## 2x15x4mm Pyroplex



**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.98

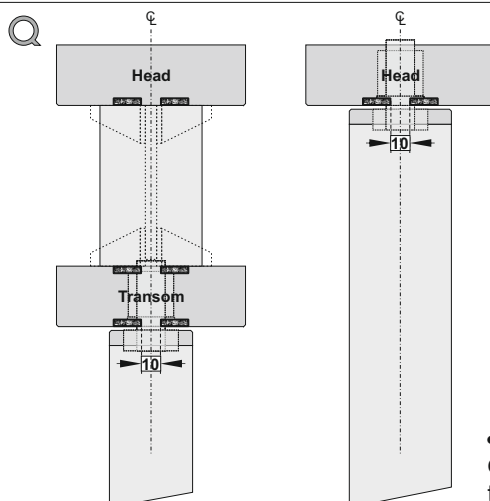


- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Pyroplex seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

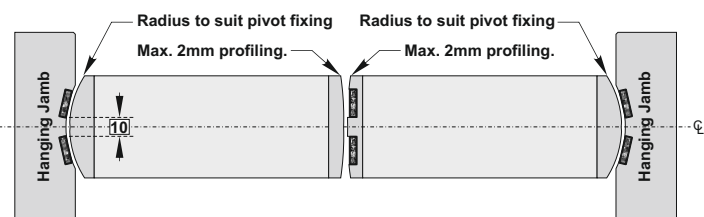
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)



**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.99



- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Pyroplex seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)



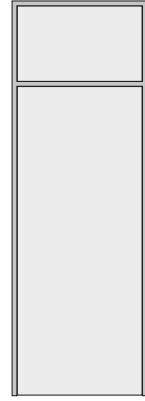
Hardwood Door Frames  
 Intumescent Seals **FD60**
**2x15x4mm Therm-A-Seal**

**Q** Single Leaf FD60 applications using 2No. 15x4mm Therm-A-Seal Intumescent Seals.

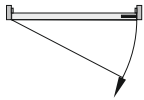
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



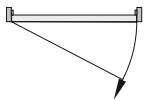
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2132 x 1022mm  
To: 2319 x 932mm

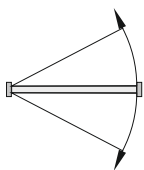
*NOTE: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2132 x 997mm  
To: 2269 x 932mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*


**Double Action Single leaf Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

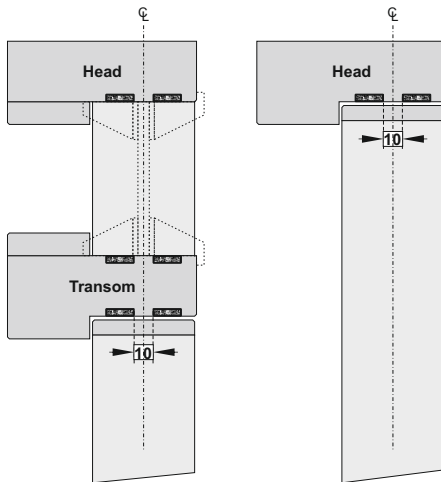
**Door Leaf sizes:** From: 2132 x 997mm  
To: 2269 x 932mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

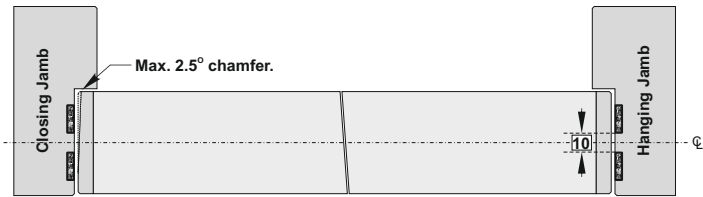
4.109

## 2x15x4mm Therm-A-Seal



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

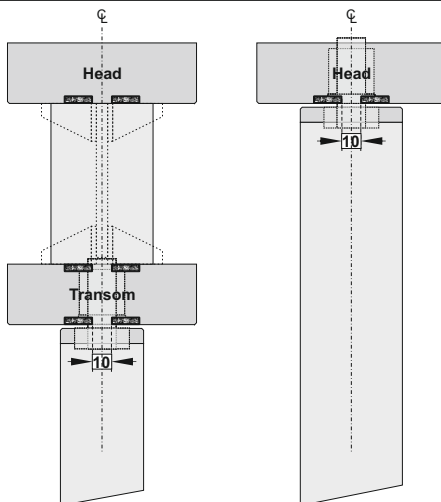
Fig. 4.100



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

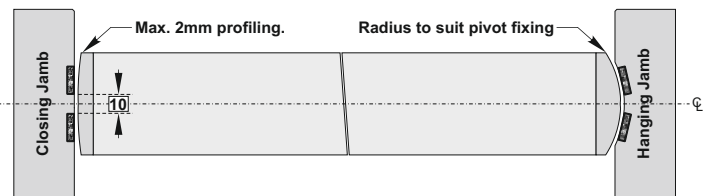
- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.101



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

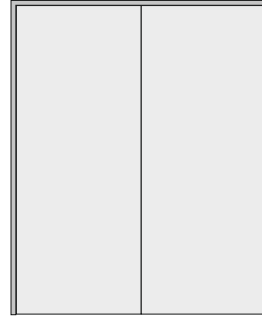
FD60 Fire Door Applications  
Intumescent Seals



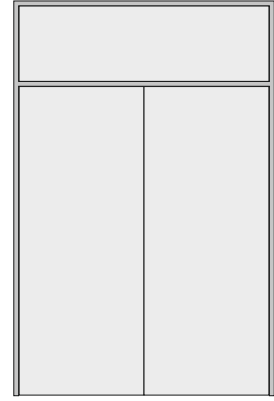
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm Therm-A-Seal**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Therm-A-Seal Intumescent Seals.

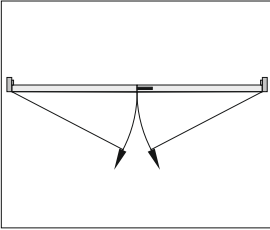
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**


**Latched Double leaf Single Action Doorsets (Pairs):**

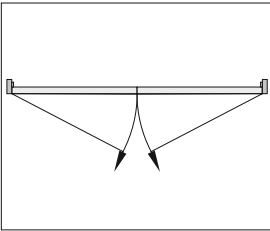
**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2132 x 2x972mm  
To: 2219 x 2x932mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Unlatched Double leaf Single Action Doorsets (Pairs):**

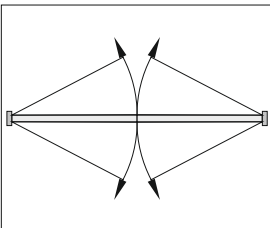
**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2132 x 2x947mm  
To: 2169 x 2x932mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Therm-A-Seal.

**Meeting Stiles** = 2x15x4mm PVC encased Therm-A-Seal.

**Door Leaf sizes:** From: 2132 x 2x947mm  
To: 2169 x 2x932mm

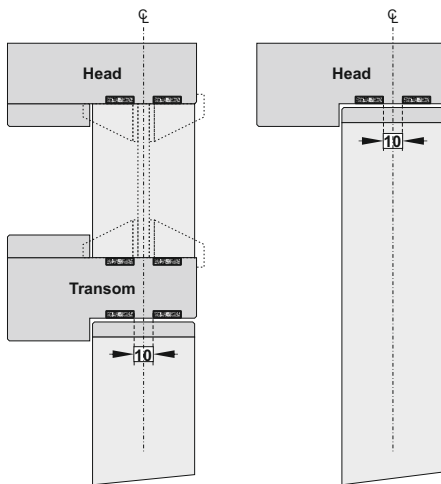
*NOTE: For storey height doorsets use 2x15x4mm PVC encased Therm-A-Seal to all sides of the overpanel.*



# FD60 Hardwood Door Frames Intumescent Seals

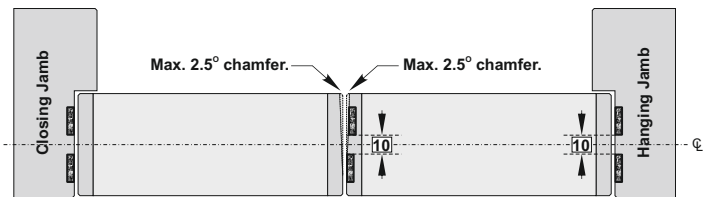
4.111

## 2x15x4mm Therm-A-Seal



**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.102

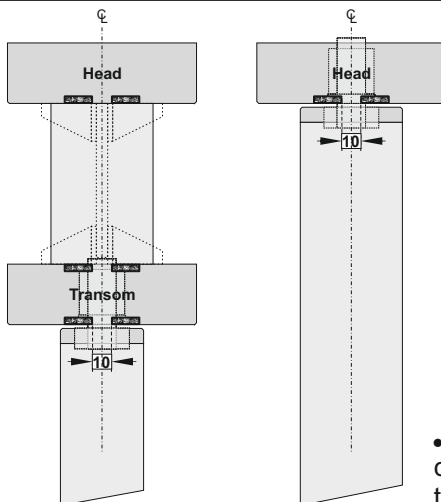


- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

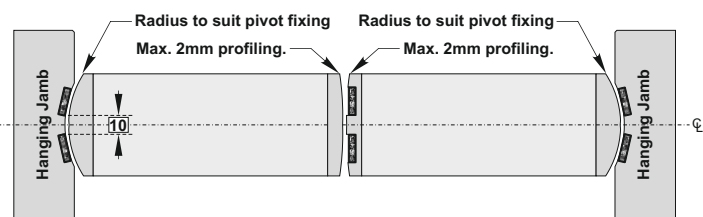
**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)



**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.103



- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Therm-A-Seal seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)



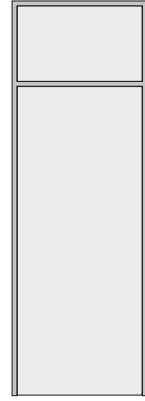
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm Lorient 617**

**Q** Single Leaf FD60 applications using 2No. 15x4mm Lorient 617 Intumescent Seals.

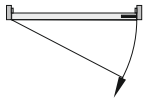
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Single leaf  
Door Height  
Doorsets**



**Single leaf  
Storey Height  
Doorsets  
with Transom**

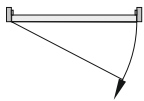


**Latched Single leaf Single Action Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2120 x 1026mm  
To: 2300 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

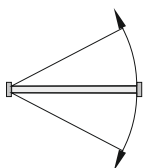


**Unlatched Single leaf Single Action Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2120 x 1026mm  
To: 2300 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*



**Double Action Single leaf Doorsets:**

**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

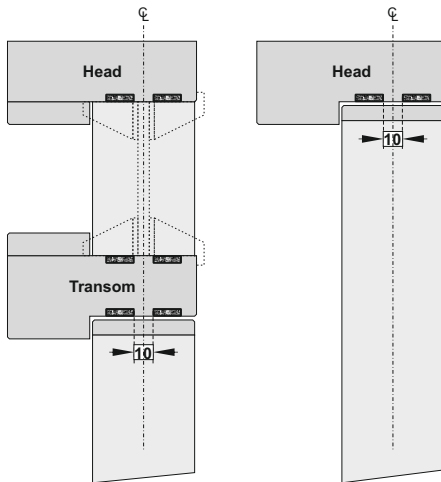
**Door Leaf sizes:** From: 2120 x 1026mm  
To: 2300 x 915mm

*NOTE: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

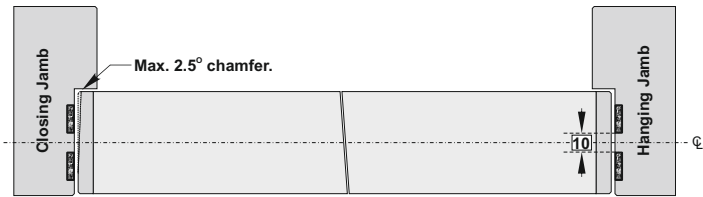
4.113

## 2x15x4mm Lorient 617



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

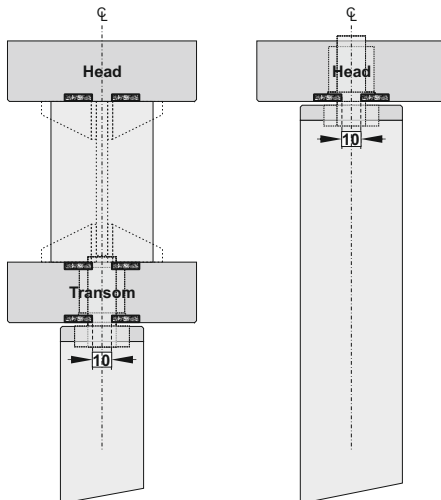
Fig. 4.104



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

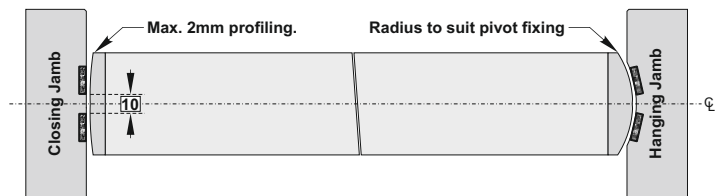
- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.105



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

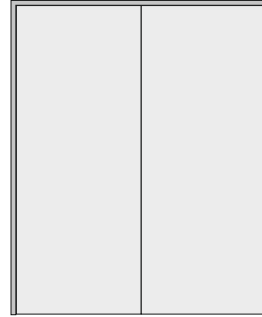
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



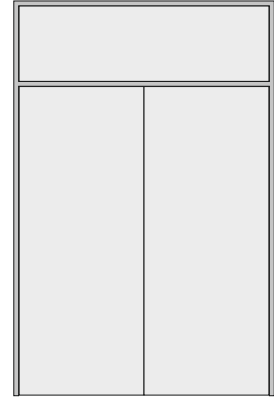
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2x15x4mm Lorient 617**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Lorient 617 Intumescent Seals.

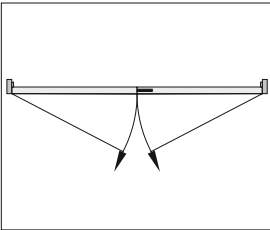
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf  
Door Height  
Doorsets**



**Double leaf  
Storey Height  
Doorsets  
with Transom**



**Latched Double leaf Single Action Doorsets (Pairs):**

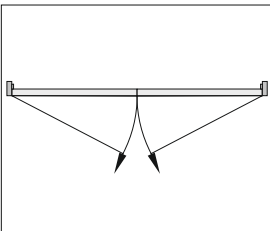
**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2120 x 2x926mm  
To: 2300 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Unlatched Double leaf Single Action Doorsets (Pairs):**

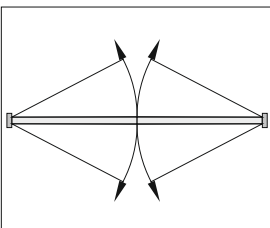
**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2120 x 2x926mm  
To: 2255 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



**Double Action Double leaf Doorsets (Pairs):**

**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617.

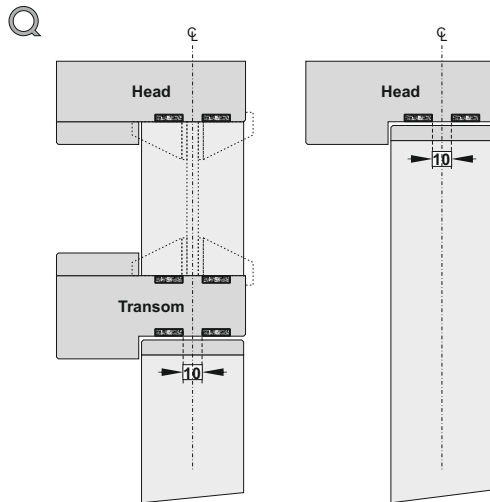
**Door Leaf sizes:** From: 2120 x 2x926mm  
To: 2255 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

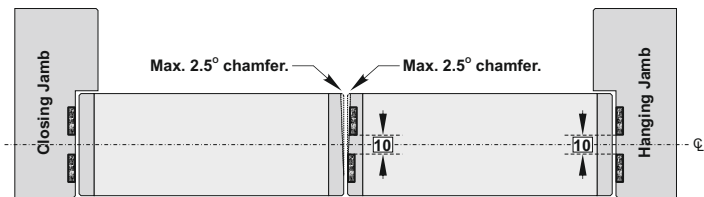
4.115

## 15x4mm Lorient 617



**Single Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.106

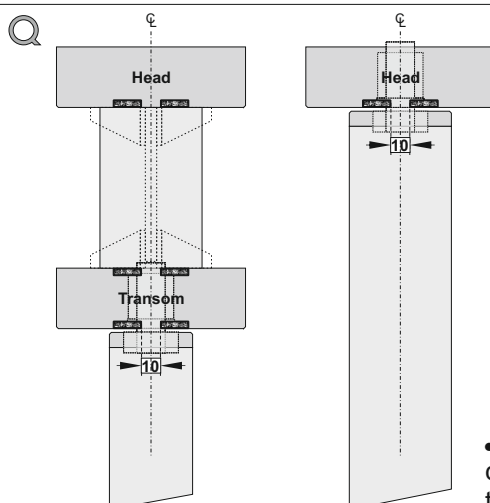


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

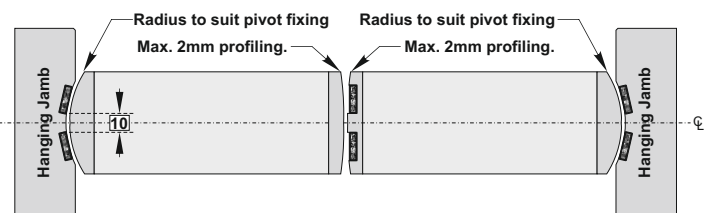
- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Lorient 617 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Double leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.107



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Lorient 617 seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

NOTE: For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

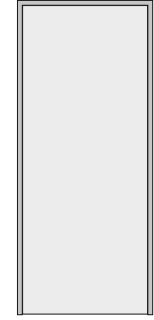
FD60 Fire Door Applications  
Intumescent Seals



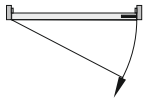
**MDF Door Frames  
 Intumescent Seals** **FD60**
**2x15x4mm Pyroplex**

**Q** Single Leaf FD60 applications  
 using 2No. 15x4mm Pyroplex  
 Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark  
 approved minimum frame section dimensions for fire  
 door applications.*



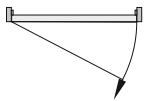
**Single leaf  
 Door Height  
 Doorsets**


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 1050mm  
 To: 2310 x 925mm

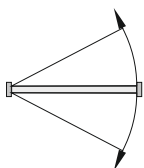
*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 1025mm  
 To: 2260 x 925mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*


**Double Action Single leaf Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 1025mm  
 To: 2260 x 925mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

**FD60** MDF Door Frames  
Intumescent Seals

**2x15x4mm Pyroplex**

**Single Action Single leaf**  
- Door Height Assemblies *Fig. 4.108*

• Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

**Double Action Single leaf**  
- Door Height Assemblies *Fig. 4.109*

• Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.

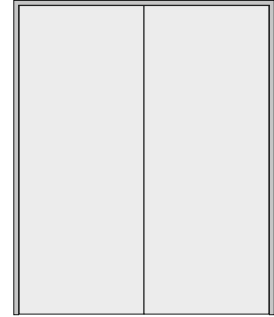
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



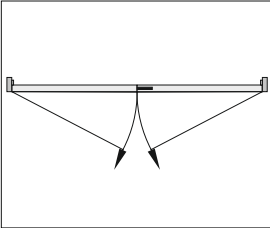
**MDF Door Frames Intumescent Seals** **FD60**
**2x15x4mm Pyroplex**

**Q** Double Leaf FD60 applications using 2No. 15x4mm Pyroplex Intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



**Double leaf Door Height Doorsets**

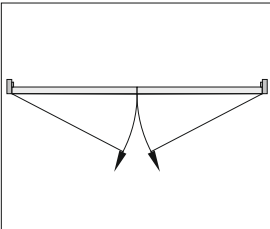

**Latched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 2x1050mm  
To: 2310 x 2x925mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*

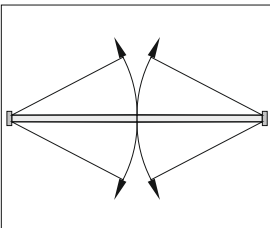

**Unlatched Double leaf Single Action Doorsets (Pairs):**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 2x1025mm  
To: 2260 x 2x925mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*


**Double Action Double leaf Doorsets (Pairs):**

**Jams & Head** = 2x15x4mm PVC encased Pyroplex.

**Meeting Stiles** = 2x15x4mm PVC encased Pyroplex.

**Door Leaf sizes:** From: 2040 x 2x1025mm  
To: 2260 x 2x925mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*



# FD60 MDF Door Frames Intumescent Seals

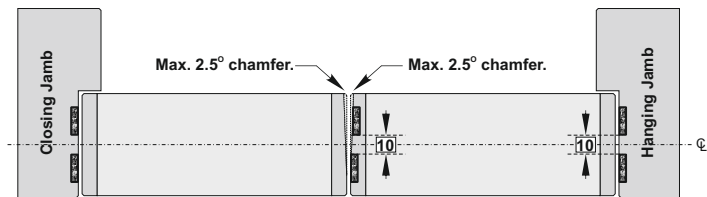
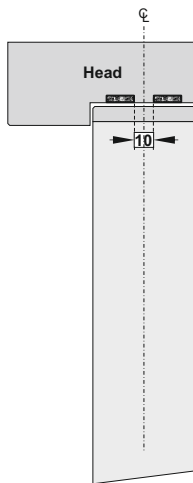
4.119

## 15x4mm Pyroplex

Q

### Single Action Double leaf - Door Height Assemblies

Fig. 4.110



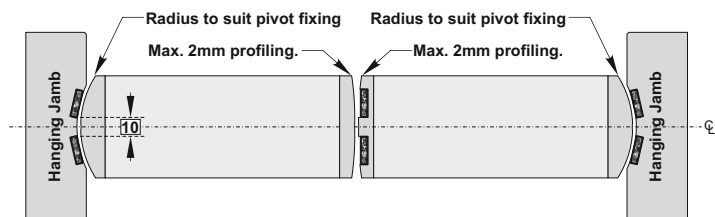
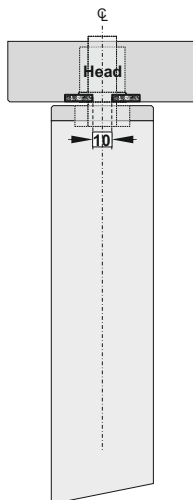
- Perimeter intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Pyroplex seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q

### Double Action Double leaf - Door Height Assemblies

Fig. 4.111



- Intumescent seals must be separated by 10mm and located centrally in the door thickness. Seals may be fitted to the frame or the door leaf.
- At the meeting stiles, 2x15x4mm Pyroplex seals must be fitted to one leaf only, separated by 10mm centrally located in the door thickness.

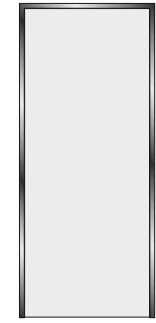
**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

Q

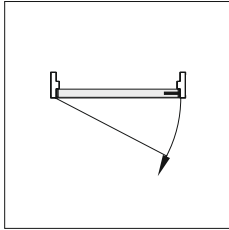
## Pyroplex

**Q** Single Leaf FD60 applications using Pyroplex F08600 intumescent Seals with Interdens.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



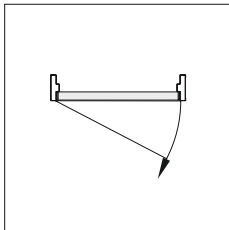
### Latched Single leaf Single Action Doorsets:

**Jams** = 2No. 15x4mm PVC encased Pyroplex F08600 exposed and fitted to the door leaf separated by 8mm and located with the first seal 8mm from the opening face of the door.

**Head** = 1No. 38x4mm PVC encased Pyroplex F08600 exposed and located on top of 38x2mm Interdens fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2150 x 1006mm  
To: 2300 x 931mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



### Unlatched Single leaf Single Action Doorsets:

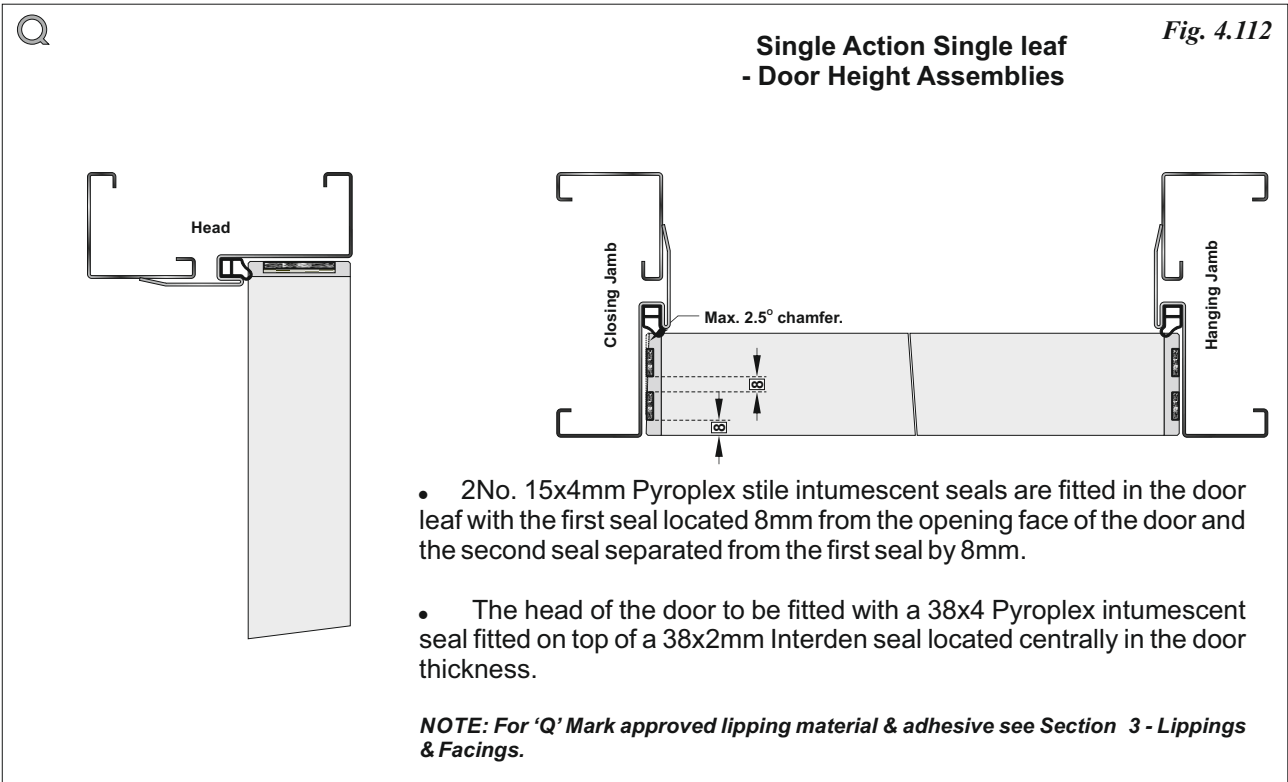
**Jams** = 2No. 15x4mm PVC encased Pyroplex F08600 exposed and fitted to the door leaf separated by 8mm and located with the first seal 8mm from the opening face of the door.

**Head** = 1No. 38x4mm PVC encased Pyroplex F08600 exposed and located on top of 38x2mm Interdens fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2150 x 981mm  
To: 2250 x 931mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

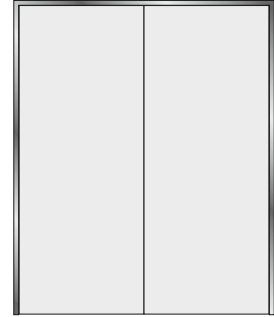
***Pyroplex***



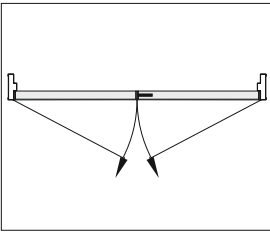
## Pyroplex

**Q** Double Leaf FD30 applications using Pyroplex F08600 intumescent Seals with Interdens.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



### Latched Double leaf Single Action Doorsets (Pairs):

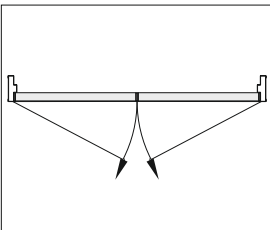
**Jambs** = 2No. 15x4mm PVC encased Pyroplex F08600 exposed and fitted to the door leaf separated by 8mm and located with the first seal 8mm from the opening face of the door.

**Head** = 1No. 38x4mm PVC encased Pyroplex F08600 exposed and located on top of 38x2mm Interdens fitted centrally in the door thickness.

**Meeting Stiles** = 2No. 15x4mm PVC encased Pyroplex F08600 seals exposed located with the first seal 8mm from the opening face of the door with an 8mm separation to the 2nd. seal.

**Door Leaf sizes:** From: 2150 x 2x956mm  
To: 2200 x 2x931mm

**NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.**  
**NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.**



### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jambs** = 2No. 15x4mm PVC encased Pyroplex F08600 exposed and fitted to the door leaf separated by 8mm and located with the first seal 8mm from the opening face of the door.

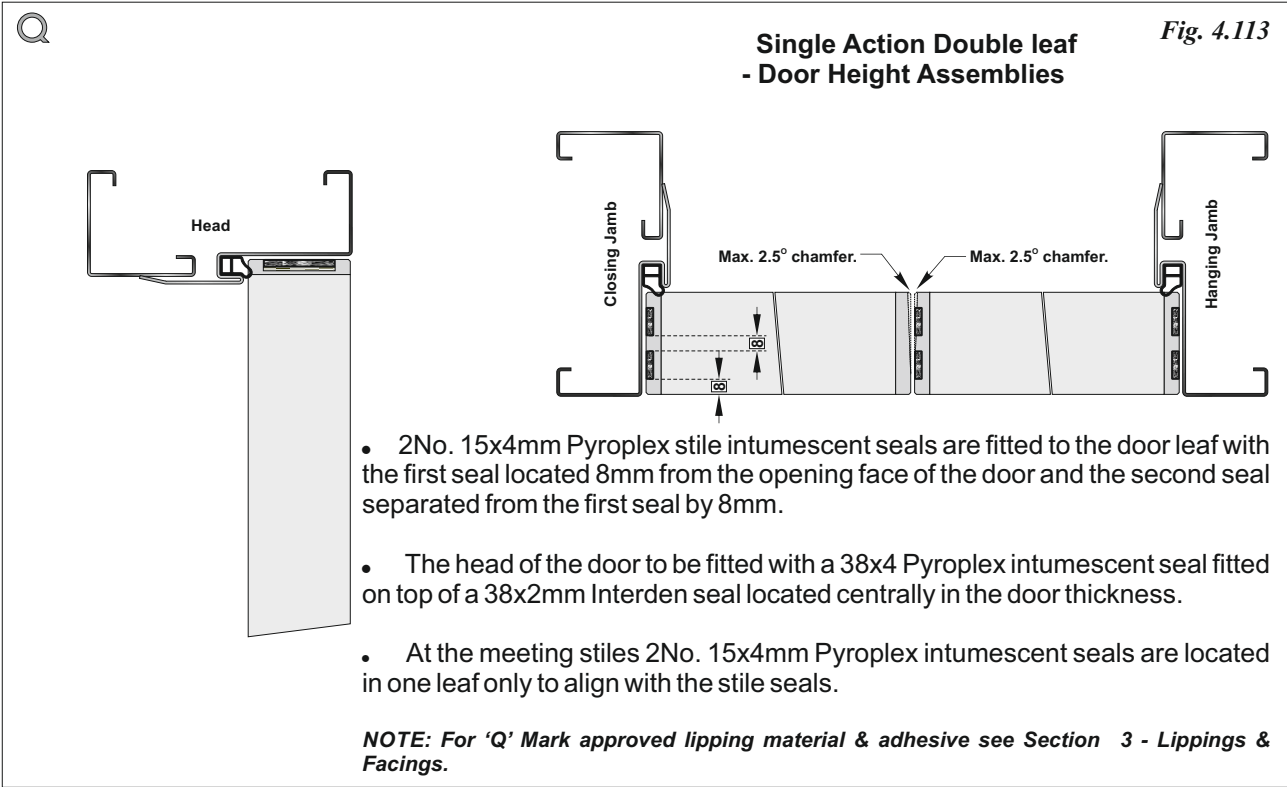
**Head** = 1No. 38x4mm PVC encased Pyroplex F08600 exposed and located on top of 38x2mm Interdens fitted centrally in the door thickness.

**Meeting Stiles** = 2No. 15x4mm PVC encased Pyroplex F08600 seals exposed located with the first seal 8mm from the opening face of the door with an 8mm separation to the 2nd. seal.

**Door Leaf sizes:** From: 2150 x 2x931mm  
To: 2150 x 2x931mm

**NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.**  
**NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.**

**Pyroplex**



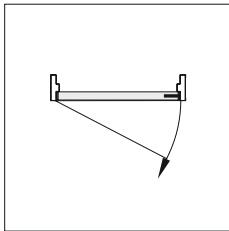
### Therm-A-Seal & Therm-A-Flex

Q Single Leaf FD60 applications using 25x4mm Therm-A-Seal with 10x2 & 20x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



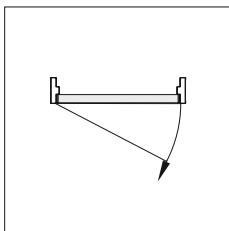
#### **Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2 Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2200 x 1038mm  
To: 2515 x 896mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



#### **Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2 Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

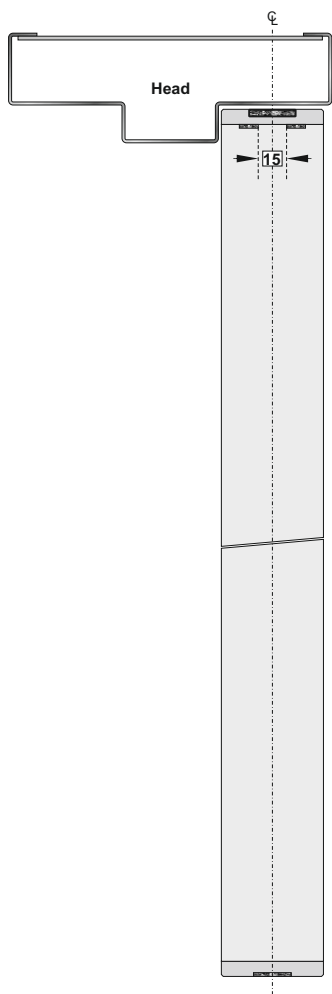
**Door Leaf sizes:** From: 2200 x 1013mm  
To: 2465 x 896mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

**Therm-A-Seal & Therm-A-Flex**

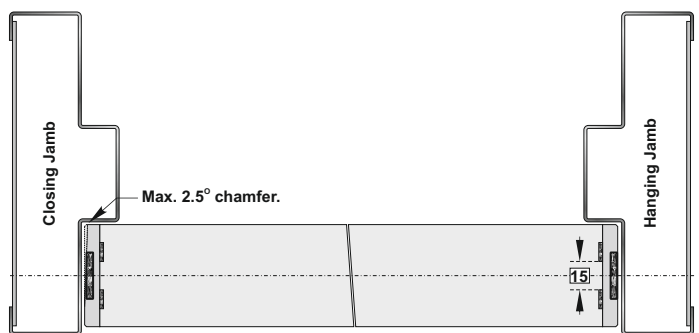


Q



Single Action Single leaf  
- Door Height Assemblies

Fig. 4.114



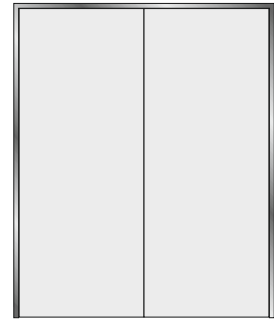
- 2No. 10x2 Therm-A-Flex seals separated by 15mm and located centrally in the door thickness must be fitted to the door core or to the back of the lippings at the door stiles and head before applying the lippings.
- An exposed 25x4mm PVC encased Therm-A-Seal is fitted central in the door thickness at the door stiles and the head.
- An exposed 20x2mm Therm-A-Flex seal is fitted central in the thickness of the door and flush with the bottom edge of the door.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

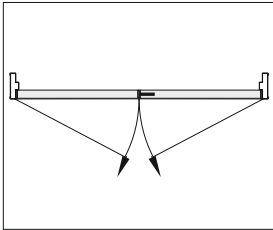
### Therm-A-Seal & Therm-A-Flex

**Q** Double Leaf FD60 applications using 25x4mm Therm-A-Seal with 10x2 & 20x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



#### Latched Double leaf Single Action Doorsets (Pairs):

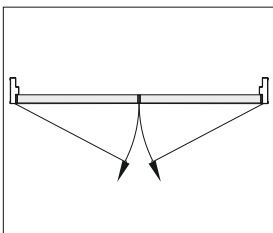
**Jamb & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Meeting Stiles** = 1No. Leaf to be fitted with a 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping. The secondary leaf to be fitted with 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Door Leaf sizes:** From: 2200 x 2x988mm  
To: 2415 x 2x896mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



#### Unlatched Double leaf Single Action Doorsets (Pairs):

**Jamb & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

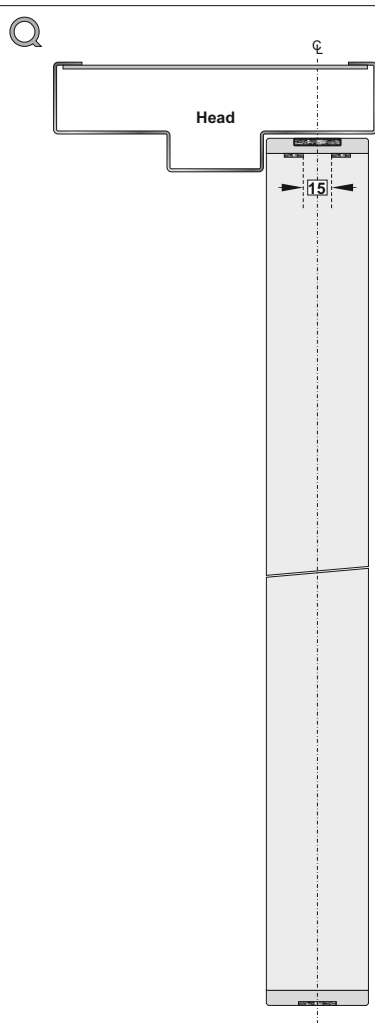
**Meeting Stiles** = 1No. Leaf to be fitted with a 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf + 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping. The secondary leaf to be fitted with 2No. 10x2mm Therm-A-Flex spaced 15mm apart and located centrally in the door thickness concealed behind the lipping.

**Door Leaf sizes:** From: 2200 x 2x963mm  
To: 2365 x 2x896mm

*NOTE 1: Storey height doorsets are not 'Q' Mark approved for this application.*  
*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*

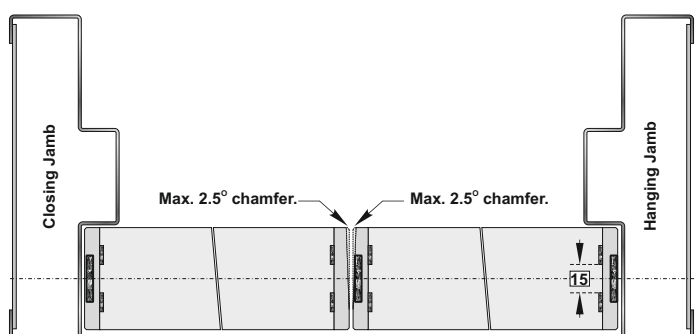


**Therm-A-Seal & Therm-A-Flex**



Single Action Single leaf  
- Door Height Assemblies

Fig. 4.115



- 2No. 10x2 Therm-A-Flex seals separated by 15mm and located centrally in the door thickness must be fitted to the door core or to the back of the lippings at the hanging and meeting door stiles and head before applying the lippings.
- An exposed 25x4mm PVC encased Therm-A-Seal is fitted central in the door thickness at the door hanging stiles and one leaf of the pair and to the head.
- An exposed 20x2mm Therm-A-Flex seal is fitted central in the thickness of the door and flush with the bottom edge of each door.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.

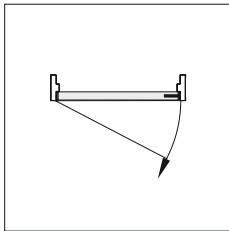
### Therm-A-Seal & Therm-A-Flex

Q Single Leaf FD60 applications using 25x4mm Therm-A-Seal with 25x2 Therm-A-Flex intumescent Seals.

*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



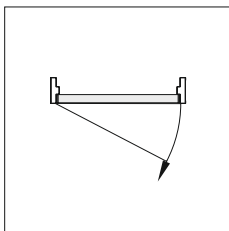
#### Latched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf on top of a 25x2mm Therm-A-Flex seal, located centrally in the door thickness.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

**Door Leaf sizes:** From: 2218 x 1219mm  
To: 2507 x 1078mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*



#### Unlatched Single leaf Single Action Doorsets:

**Jams & Head** = 25x4mm PVC encased Therm-A-Seal exposed and fitted centre thickness of the door leaf on top of a 25x2mm Therm-A-Flex seal, located centrally in the door thickness.

**Threshold** = 20x2mm Therm-A-Flex exposed and fitted centrally in the door thickness.

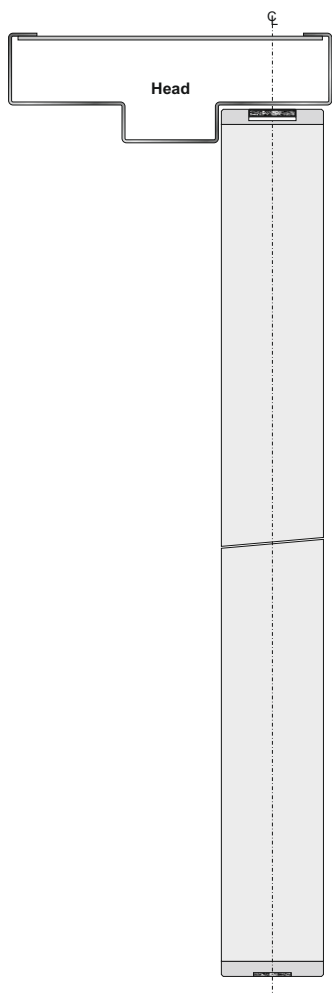
**Door Leaf sizes:** From: 2218 x 1194mm  
To: 2457 x 1078mm

*NOTE: Storey height doorsets are not 'Q' Mark approved for this application.*

**Therm-A-Seal & Therm-A-Flex**

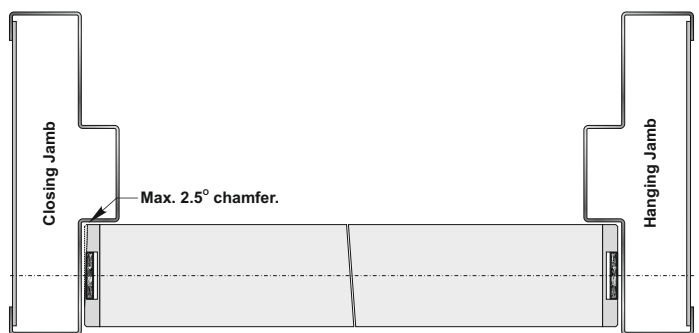


Q



Single Action Single leaf  
- Door Height Assemblies

Fig. 4.116



- A 25x2mm Therm-A-Flex seal is fitted centrally in the door thickness at the head and stiles and covered by exposed 25x4mm PVC encased Therm-A-Seal seals.
- An exposed 20x2mm Therm-A-Flex seal is fitted central in the thickness of the door and flush with the bottom edge of the door.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3-Lippings & Facings.

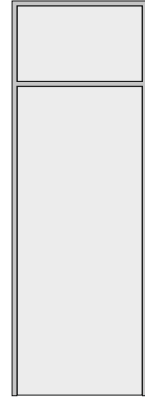
**Hardwood Door Frames**  
**Intumescent Seals** **FD60**
**2No. 15x4mm Lorient 617**

**Q** Single Leaf FD60 applications using 2No. 15x4mm Lorient 617 Intumescent Seals.

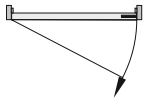
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Single leaf  
Door Height  
Doorsets



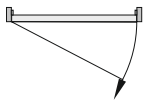
Single leaf  
Storey Height  
Doorsets  
with Transom


**Latched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 970mm  
To: 2255 x 900mm

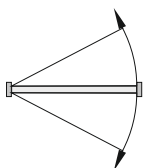
*NOTE: For storey height doorsets use 2No.15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Unlatched Single leaf Single Action Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Lorient 617.

**Door Leaf sizes:** From: 2100 x 970m  
To: 2255 x 900mm

*NOTE: For storey height doorsets use 2No 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*


**Double Action Single leaf Doorsets:**

**Jams & Head** = 2x15x4mm PVC encased Lorient 617.

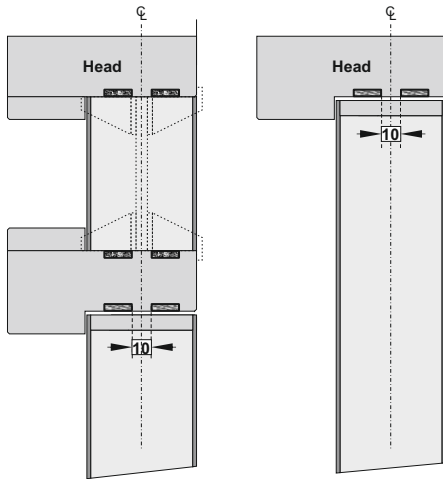
**Door Leaf sizes:** From: 2100 x 970m  
To: 2255 x 900mm

*NOTE: For storey height doorsets use 2No 15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

4.131

## 2No. 15x4mm Lorient 617



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.117

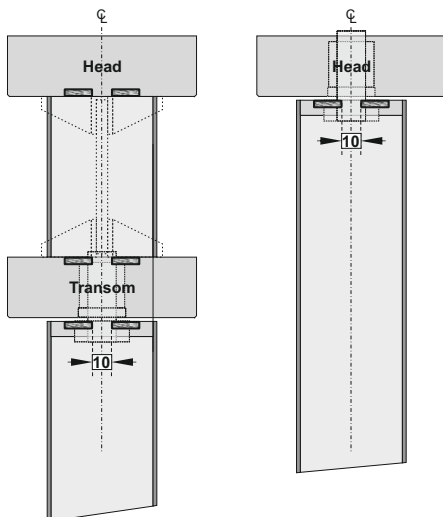


**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

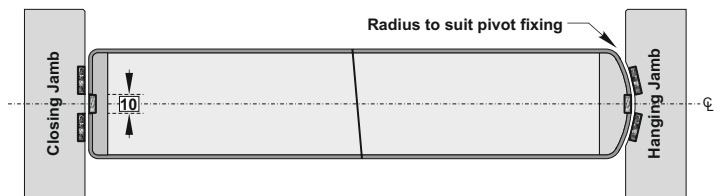
- Intumescent seals must be separated by 10mm fitted to the frame, located to align centrally in the door thickness.
- An additional 10x4 intumescent seal is fitted to the vertical edges only of the door leaf to provide for separation of the Acrovyn facing pans and is not required at the head of the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.118



**NOTE:**

Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm fitted to the frame, located to align centrally in the door thickness.
- An additional 10x4 intumescent seal is fitted to the vertical edges only of the door leaf to provide for separation of the Acrovyn facing pans and is not required at the head of the door leaf.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



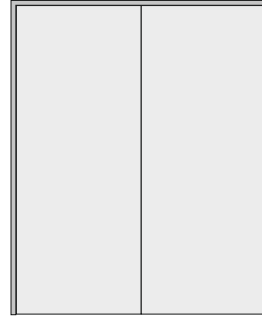
**Strebord**® 54  
Door Core Acrovyn Faced

## Hardwood Door Frames Intumescent Seals **FD60**

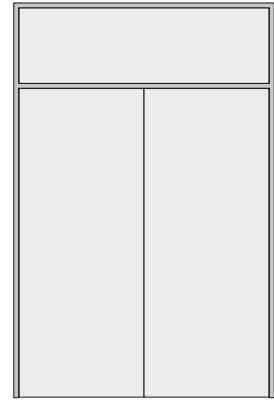
### 2No. 15x4mm Lorient 617

**Q** Double Leaf FD60 applications using 2No. 15x4mm Lorient 617 Intumescent Seals.

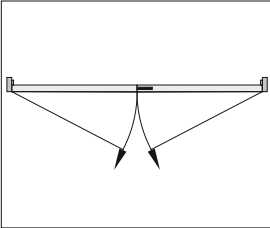
*NOTE: See Section 7 - Doorframes for 'Q' Mark approved minimum frame section dimensions for fire door applications.*



Double leaf  
Door Height  
Doorsets



Double leaf  
Storey Height  
Doorsets  
with Transom



#### Latched Double leaf Single Action Doorsets (Pairs):

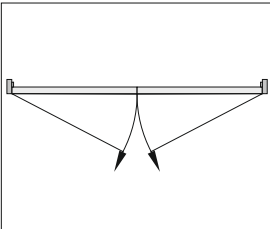
**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617. (1No. in each leaf)

**Door Leaf sizes:** From: 2100 x 2x945mm  
To: 2205 x 2x900mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



#### Unlatched Double leaf Single Action Doorsets (Pairs):

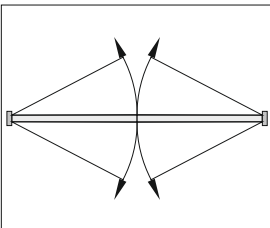
**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617. (1No. in each leaf)

**Door Leaf sizes:** From: 2100 x 2x945mm  
To: 2205 x 2x900mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

*NOTE 2: Rebated Meeting stiles are not 'Q' Mark approved for this application.*



#### Double Action Double leaf Doorsets (Pairs):

**Jambs & Head** = 2x15x4mm PVC encased Lorient 617.

**Meeting Stiles** = 2x15x4mm PVC encased Lorient 617. (1No. in each leaf)

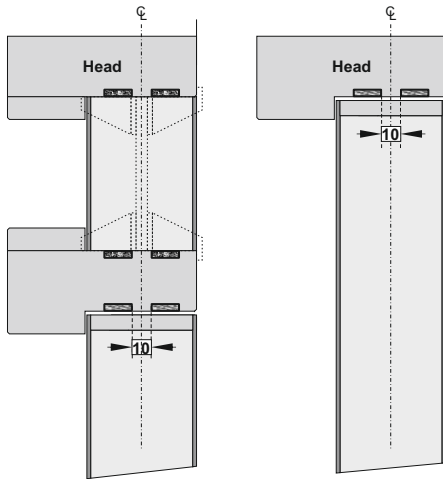
**Door Leaf sizes:** From: 2120 x 2x926mm  
To: 2255 x 2x915mm

*NOTE 1: For storey height doorsets use 2x15x4mm PVC encased Lorient 617 to all sides of the overpanel.*

# FD60 Hardwood Door Frames Intumescent Seals

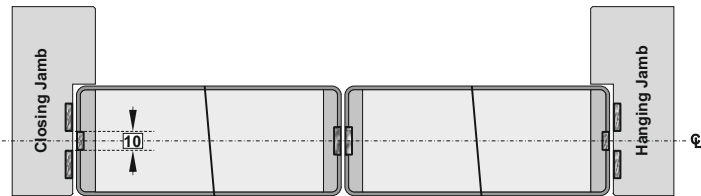
4.133

## 2No. 15x4mm Lorient 617



**Single Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

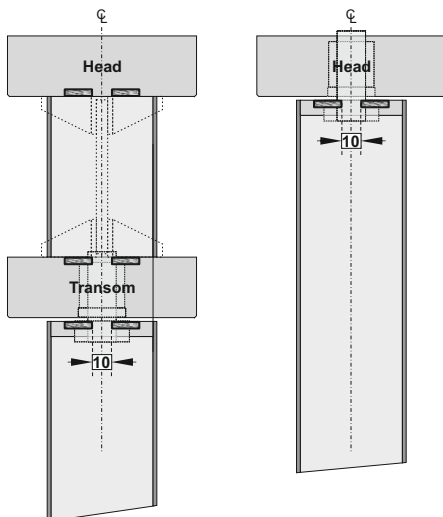
Fig. 4.119



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

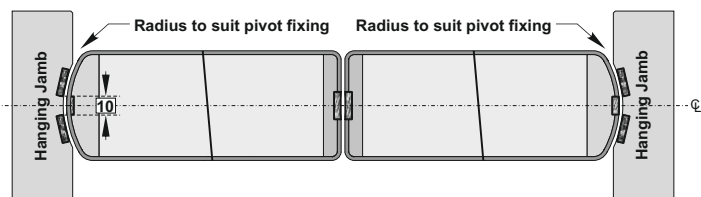
- Intumescent seals must be separated by 10mm fitted to the frame, located to align centrally in the door thickness.
- An additional 10x4 intumescent seal is fitted to the vertical hanging edges only of the door leaves to provide for separation of the Acrovyn facing pans and is not required at the head of the door leaf.
- At the meeting stiles, 1No.15x4mm Lorient 617 seals must be fitted to each leaf located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

**NOTE:** For 'Q' Mark approved lipping material & adhesive see Section 3 - Lippings & Facings.



**Double Action Single leaf**  
- Door Height Assemblies  
- Storey Height Assemblies with Transom.

Fig. 4.120



**NOTE:**  
Where glazed fanlights are used, the glass and beading system must conform to tested details for the relevant fire performance when used with wood products. (See Section 6 - Glazing)

- Intumescent seals must be separated by 10mm fitted to the frame, located to align centrally in the door thickness.
- An additional 10x4 intumescent seal is fitted to the vertical hanging edges only of the door leaves to provide for separation of the Acrovyn facing pans and is not required at the head of the door leaf.
- At the meeting stiles, 1No.15x4mm Lorient 617 seals must be fitted to each leaf located centrally in the door thickness.
- For storey height doorsets the intumescent seals must be applied to all sides of the overpanel.

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