

## Acrovyn® Doors

Designed to withstand heavy impact, Acrovyn Doors are ideal for any facility requiring a reliable and easy to maintain solution for high traffic interior areas. Clad in our durable Acrovyn Sheet, they are bespoke manufactured to satisfy the operational, performance and aesthetic requirements of your project.

### Features & Advantages

- Postformed or fully encapsulated in 2 mm thick Acrovyn Sheet for high impact resistance and long lifespan
- Through-coloured Acrovyn cladding conceals scrapes and scuffs and is resistant to bacteria, fungi and many chemicals
- Choice of non-fire rated, 30 or 60 minute fire rated options
- Class 4 - Severe Duty, when tested to EN 1192
- Can be specified complete with Acrovyn clad door frame for ultimate resistance
- Wide range of colour options and finishes

### Applications

- Interior areas where extra protection is needed against constant wear and traffic, and aesthetics are important

### Colours & Texture



Solid Colours  
36



Finishes  
12



Texture  
Suede

*See page 10 for details.*



[c-sgroup.co.uk/2635](https://c-sgroup.co.uk/2635)



# Acrovyn® Doors

## Door Options

The following standard options can be specified for Acrovyn Doors:

### Door Core\*:

- Graduated density chipboard (GDC)
- Laminated wood strip core

### Fire Performance:

- FD30 or FD30S
- FD60 or FD60S
- Non-fire rated (NFR)

Acrovyn Fire Doors can be supplied under the BM TRADA Q-Mark Fire Door Manufacture Scheme to BS 476-22, one of the most rigorous certification processes available for construction products.



Our Certificate Number is 702

### Door Thickness:

- 44 mm (FD30, FD30S, NFR)
- 54 mm (FD60, FD60S)

In addition, we offer a diverse range of **cladding** and **doorset configurations, glazing** and **frame styles**, as well as **colours and finishes**, allowing you to create a bespoke solution to perfectly meet your needs.

\* FSC chain of custody certification can be supplied, if requested when the order is placed.





# Acrovyn® Doors

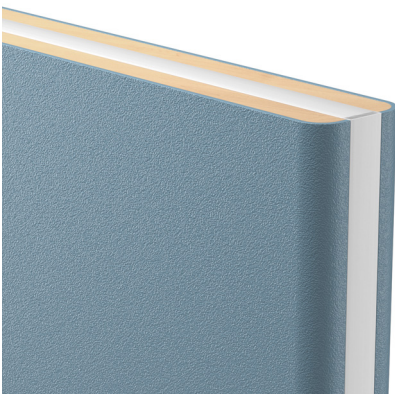
## Cladding Options

We offer a range of cladding configurations to suit various functional requirements.

In postformed solutions, Acrovyn Sheet is applied to the faces and vertical edges of a door leaf, increasing the door's strength and resistance to damage from impact. When the same material is added to the top and bottom edges of

the door, the resulting fully encapsulated unit is capable of meeting the most stringent hygiene requirements.

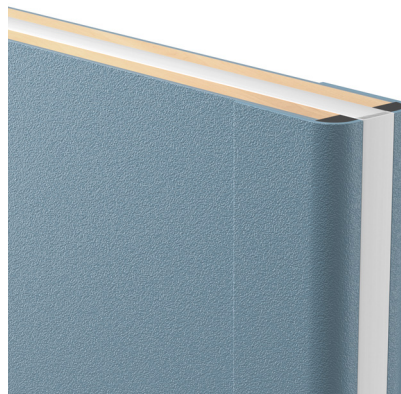
In addition, several cladding options incorporate Door Edge Protectors, which can be replaced in case of damage to vertical edges, without the need to source a new door leaf.



**DT01** – GDC core  
**DT07** – Laminated wood strip core  
*Acrovyn on door faces and postformed around edges*



**DT02** – GDC core  
**DT08** – Laminated wood strip core  
*Fully encapsulated in Acrovyn*



**DT03** – GDC core  
**DT09** – Laminated wood strip core  
*Acrovyn on door faces with raised Door Edge Protectors*



**DT04** – GDC core  
**DT10** – Laminated wood strip core  
*Acrovyn on door faces with flush Door Edge Protectors*



**DT05** – GDC core  
**DT11** – Laminated wood strip core  
*Fully encapsulated in Acrovyn with raised Door Edge Protectors*



**DT06** – GDC core  
**DT12** – Laminated wood strip core  
*Fully encapsulated in Acrovyn with flush Door Edge Protectors*

# Acrovyn® Doors

## Configurations and Handings

All typical door configurations can be produced to meet a building's operational requirements.

If overpanels are specified, they are typically of the same

construction as the door leaves, separated by a transom of the same specification as the timber door frame. Glazed units can be provided, if preferred.

### Single Doorsets



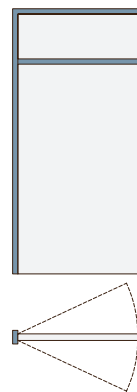
**SASD**  
Single-acting single doorset



**DASD**  
Double-acting single doorset

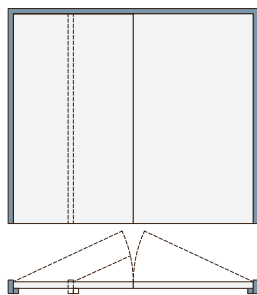


**SASD+OP**  
Single-acting single doorset with overpanel  
*Overpanels can be glazed or unglazed*

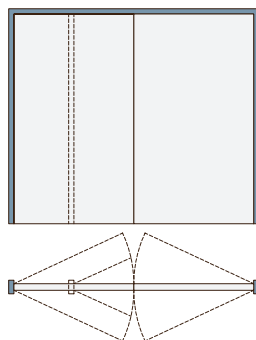


**DASD+OP**  
Double-acting single doorset + overpanel  
*Overpanels can be glazed or unglazed*

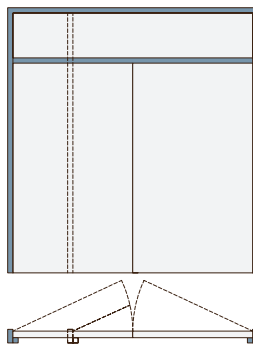
### Double Doorsets



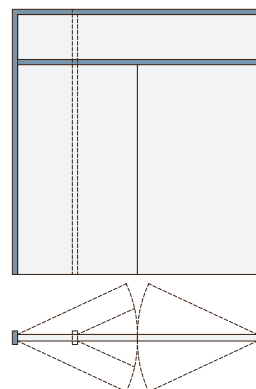
**SADD**  
Single-acting double doorset  
*Dotted line denotes unequal pair*



**DADD**  
Double-acting double doorset  
*Dotted line denotes unequal pair*



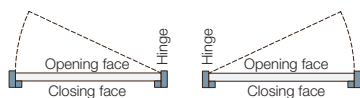
**SADD+OP**  
Single-acting double doorset + overpanel  
*Dotted line denotes unequal pair. Overpanels can be glazed or unglazed.*



**DADD+OP**  
Double-acting double doorset + overpanel  
*Dotted line denotes unequal pair. Overpanels can be glazed or unglazed.*

### Door Handings

We use a door handing system based on BS EN 12519, where the hinge knuckle side of the door is referred to as an *opening face*, and the frame door stop side of the door is referred to as a *closing face*, as shown: .



The handing of the door is then determined when the doorset is viewed from the closing face of the door.

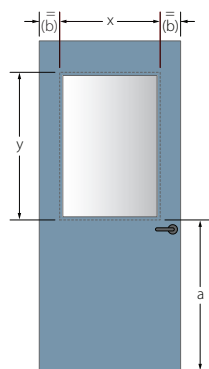
# Acrovyn® Doors

## Glazing Configurations

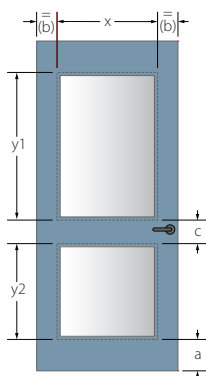
Glazing can be specified for aesthetic or functional reasons. We offer a range of standard designs, manufactured to project specific sizes.\*

In public access areas in particular, minimum visibility zone requirements may need to be met to ensure code compliance.

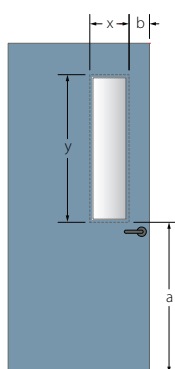
### Standard designs:



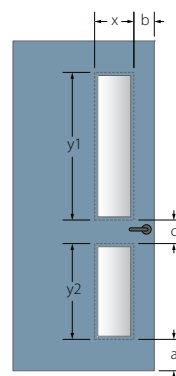
**VP1**  
Single central panel



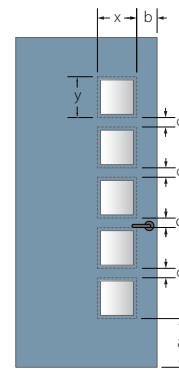
**VP2**  
Two central panels



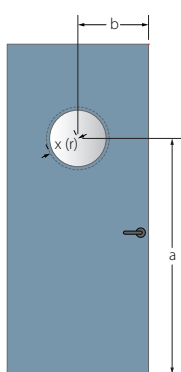
**VP3**  
Single rectangular panel towards the leading edge



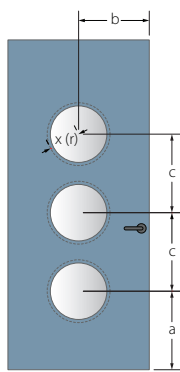
**VP4**  
Two rectangular panels towards the leading edge



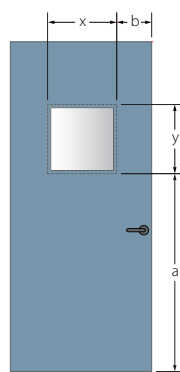
**VP5**  
Multiple square panels towards the leading edge



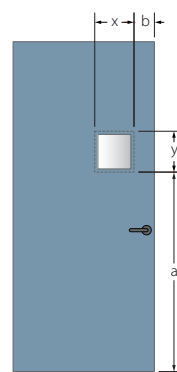
**VP6**  
Single circular panel



**VP7**  
Three circular panels  
*Available with BT01 or BT08 bead type.*



**VP8**  
Privacy panel  
*Typically supplied with manually operated privacy unit and BT06 bead type.*



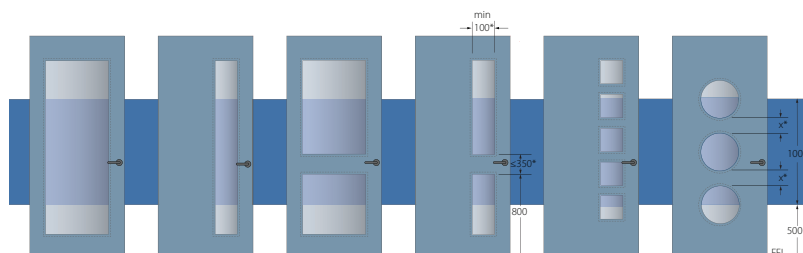
**VP9**  
Specialist panel (X-ray, laser etc.)  
*Typically supplied with BT04 or BT05 bead type.*

\* All dimensions are project specific, within the following limitations:  $a \geq 100\text{mm}$  ( $\geq 250\text{mm}$  for VP5),  $b \geq 100\text{mm}$ ,  $c \geq 100\text{mm}$ . Dimensions shown are aperture sizes and an appropriate margin should be deducted to calculate the clear view size.

### Minimum zone of visibility

To satisfy the requirements of Approved Document M vol 2 and BS 8300-2, vision panels need to be included certain doors and side panels to provide a zone of visibility.

For further information and other door related guidance visit [c-sgroup.co.uk/2635](https://c-sgroup.co.uk/2635)



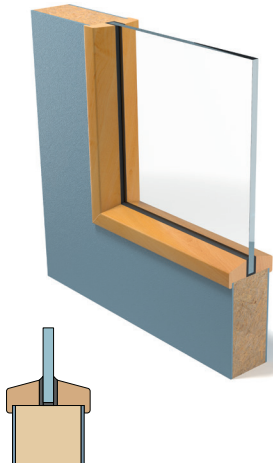
\* All given dimensions relate to the clear view area and not aperture area.  
 $x + x \leq 350\text{mm}$

# Acrovyn® Doors

## Glazing Bead Options

Our selection of glazing beads is designed to cater for a wide range of functional and aesthetic needs.

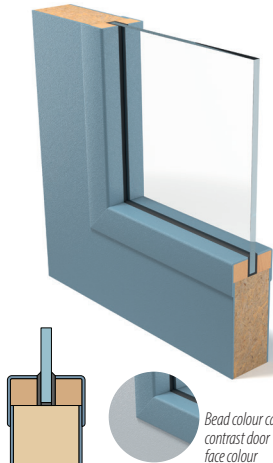
It includes cleanroom finish option for hygiene sensitive environments, and obscurable vision panels for areas requiring privacy, but also observation and monitoring.



### BT01

Lacquered hardwood

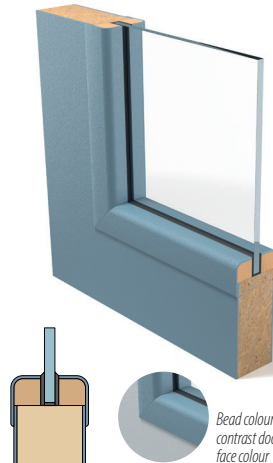
*FD30 (shown), FD60 and NFR door options in all glazing configurations.*



### BT02

Acrovyn square wrapped

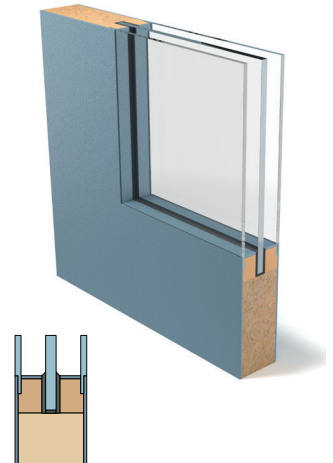
*FD30 (shown), FD60 and NFR door options. Cannot be used with VP6 and VP7 glazing.*



### BT03

Acrovyn rounded wrapped

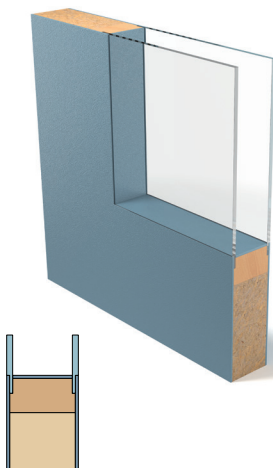
*FD30 (shown), FD60 and NFR door options. Cannot be used with VP6 and VP7 glazing.*



### BT04

Cleanroom finish (fire doors)

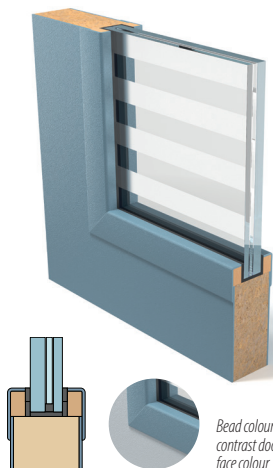
*FD30 (shown) and FD60 doors. Typically used with VP9 glazing.*



### BT05

Cleanroom finish (NFR doors)

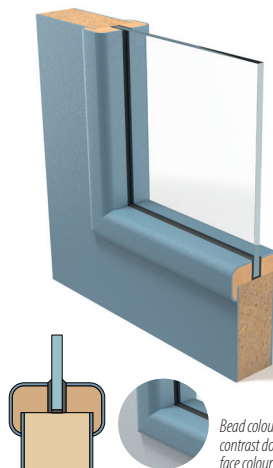
*Similar to BT04, but supplied without an internal glass pane. Typically used with VP9 glazing.*



### BT06

Privacy panel bead

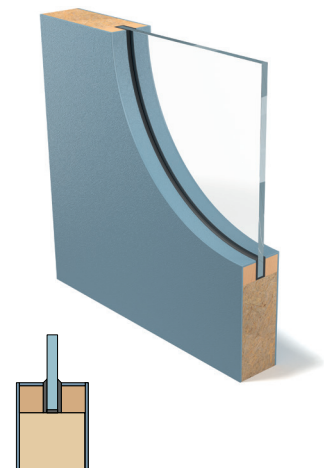
*FD30 (shown), FD60 and NFR door options. Typically used with VP8 glazing. Supplied with a manually operated privacy unit.*



### BT07

Acrovyn wrapped 'hockey-stick' style

*FD30 (shown), FD60 and NFR door options. Not suitable for circular glazing units.*



### BT08

Acrovyn flush wrapped (circular glazing)

*FD30 (shown), FD60 and NFR door options. Bead solution for circular glazing variants (VP6 and VP7).*



# Acrovyn® Doors

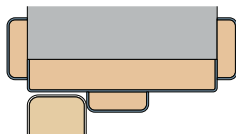
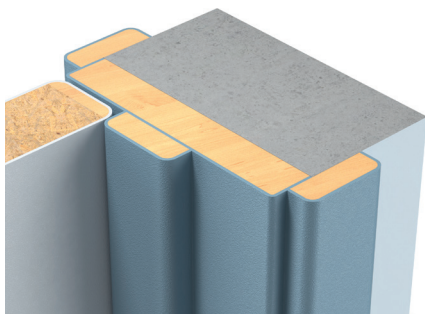
## Frame Options

Acrovyn Doors are typically specified complete with a door frame and supplied factory pre-hung to ensure the best possible fit.

For increased doorset strength and maximum lifespan, we recommend that the frames are also clad in Acrovyn. Other frame materials can be offered if required.

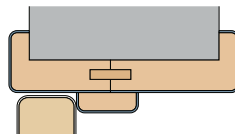
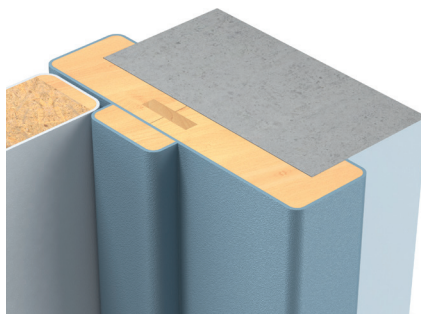
All frames are designed for a second fix installation into openings prepared on-site. Standard options include a solid frame construction and split frame variants for installation flexibility.

To satisfy visual contrast requirements frames can be supplied in a contrasting colour to door leaves.



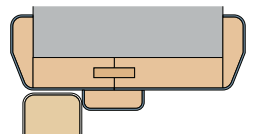
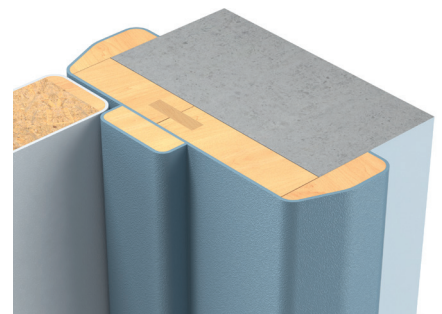
**Type A**

Acrovyn clad solid frame with square separate architraves



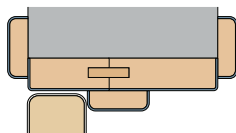
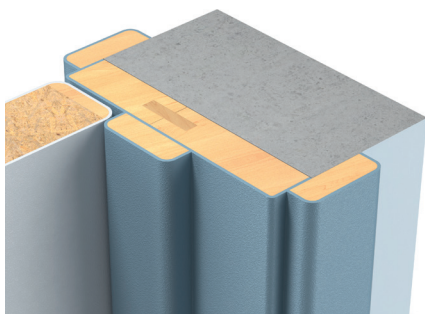
**Type B**

Acrovyn clad split frame with square integral architraves



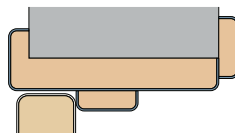
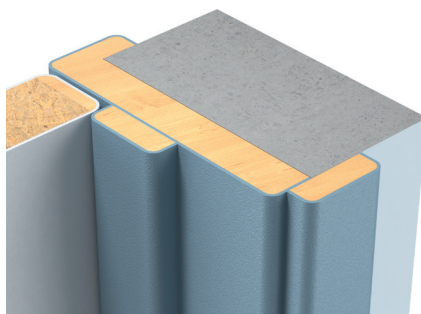
**Type C**

Acrovyn clad split frame with shaped integral architraves



**Type D**

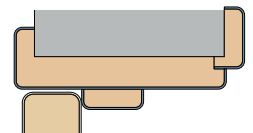
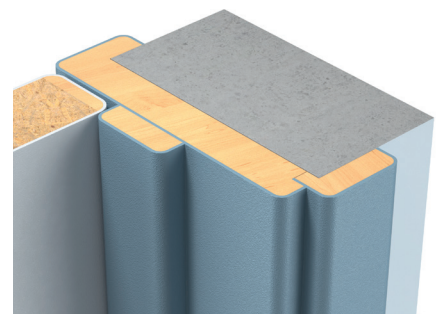
Acrovyn clad split frame with square separate architraves



**Type E**

Acrovyn clad solid frame with integral and separate architraves

*For use with overpanels and/or side screens.*



**Type F**

Acrovyn clad adjustable solid frame with integral and separate architraves

*For use with overpanels and/or side screens.*

## Acrovyn® Doors

### Intumescent and Smoke Seals

The configuration of fire and cold smoke seals fitted in Acrovyn Doorsets is determined by fire/smoke performance required and complies with fire test and assessment data available for our products.

Standard options for seals are:

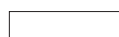
- Intumescent seal (15 x 4 mm seal)
- Combined intumescent & cold smoke seal (15 x 4 mm seal with brush pile or twin elastomeric fins)

#### Seal Types



#### Standard Colours

Plastic carrier:



White



Grey



Dark Brown



Black

Brushes/fins:



Black

### Hardware

Acrovyn Doors are supplied complete with quality stainless steel hinges.

The following options are available:

- Hinge 01 - lift-off hinge
- Hinge 02 - butt hinge

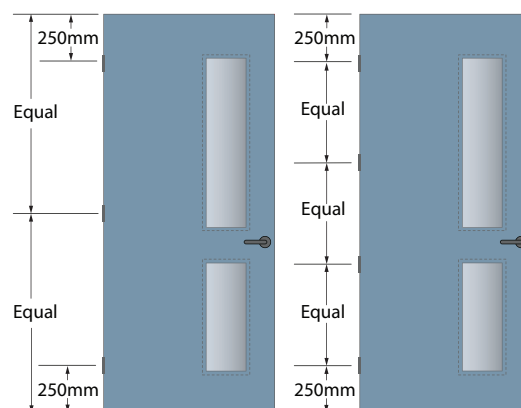
All hinges offered are highly durable, maintenance free and feature radiused corners.

Where doorsets are required, door leaves will be supplied pre-hung in frames to ensure the best possible fit.

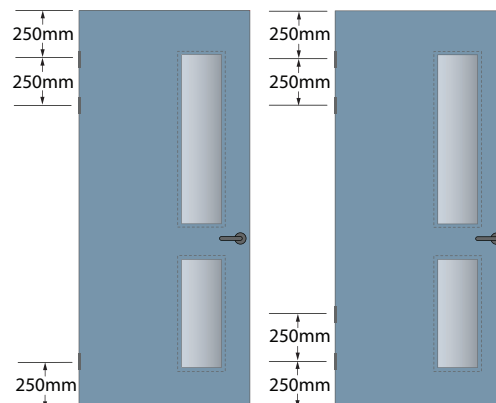
Other hardware items should be supplied and fitted by door installation teams in accordance with the relevant fire test evidence, so that the door's fire performance is not compromised.

#### Standard Hinge Positions

Where maximum resistance to warping is required, hinges are positioned with equal spacings.



For maximum load bearing capability, 2 hinges are fitted high and 1 or 2 hinges low.





# Acrovyn® Doors

## Performance

### Fire Performance

Acrovyn Doors have been tested to BS 476-22:1987, achieving in excess of 30 min and 60 min fire resistance when tested as part of timber based fire door assemblies. The doors are produced under the following assessments, in accordance to BS 476-22:1987:

Test Report	Doorset Description	Rating
Chilt/A11129	Door Edge Protectors for use with 30 min Fire Resisting Doorsets (Glazed or Unglazed)	30 min
Chilt/A11130	Door Edge Protectors for use with 60 min Fire Resisting Doorsets (glazed or unglazed)	60 min
Chilt/A01204	Optima 30 Doorsets (glazed or unglazed) *	30 min
Chilt/A01205	Optima 60 Doorsets (glazed or unglazed) *	60 min
FEA/F97174	Prima 30 Doorsets (glazed or unglazed) *	30 min
FEA/F96103	Prima 60 Doorsets (glazed or unglazed) *	60 min
FEA/F98164	Flamebreak 30 Doorsets (glazed or unglazed) *	30 min
FEA/F02141	Flamebreak 60 Doorsets (glazed or unglazed) *	60 min
Chilt/A13058	LAMINESSE FireSmoke 44/54 mm (glazed or unglazed) *	30 min
Chilt/A13059	LAMINESSE FireSmoke 54 mm only (glazed or unglazed) *	60 min
BMT/CNA/F14274	LAMINESSE FireSound 44 mm only (glazed or unglazed) *	30 min
Chilt/A02066	Strebord® 44 door assemblies for 30 min. Fire Resistance (glazed or unglazed) *	30 min
Chilt/A02067	Strebord® 54 door assemblies for 60 min. Fire Resistance (glazed or unglazed) *	60 min
WF380559	Strebord® 35+ doorsets for 30 min. Fire Resistance (glazed or unglazed) *	30 min
Chilt/A10152	Strebord® 54 panelled range of doorsets using Strebord® 54 panelled door blanks in timber based door frames 60 min fire resistance (unglazed only) *	60 min

Where smoke seals are incorporated into Acrovyn Doors to provide cold smoke control, the smoke seal elements have been independently tested to BS 476-31.1:1983 and have achieved leakage rates not exceeding 3m<sup>3</sup>/m/hr when tested at 25 Pa.

\* Optima and Prima are trade names of Halspan Limited, Flamebreak is a trade name of Pacific Rim Wood Ltd. LAMINESSE is a trade name of Moralt AG, and Strebord is the registered trademark of Falcon Panel Products Ltd.

## Cleaning and Maintenance

Can be cleaned using soapy water, commonly used disinfectants or domestic cleaning products.

For Cleaning Guidelines visit: [c-sgroup.co.uk/37968](https://c-sgroup.co.uk/37968)

### Mechanical Performance

When assessed according to BS EN 1192:2000 for their mechanical strength and resistance to vertical load, static torsion and soft and heavy body impact, Acrovyn Doors have been classified as Class 4 - Severe Duty.

This makes them suitable for all applications, including those where they may be subjected to frequent violent usage.

### Bacterial & Fungal Resistance

Acrovyn Sheet used as a surface finish on Acrovyn Doors does not propagate the growth of bacteria on a clean surface. However, anti-bacterial properties of the product do not negate the need for a rigorous cleaning regime.

Tested in accordance with BS EN ISO 846: 1997 (Bacterial and Fungal Resistance).

### Chemical Resistance

Acrovyn Sheet is resistant to most commonly used chemical solutions. Contact us for full chemical resistance data.

## Warranty

2-year product warranty.

For Terms and Conditions visit: [c-sgroup.co.uk/16727](https://c-sgroup.co.uk/16727)

# Acrovyn® Doors

## Colour Selector



## Colour contrast

To satisfy the requirements of Approved Document M vol 2 and BS 8300-2, visual contrast should be provided between internal doors and surrounding wall and floor finishes. The same applies to the leading edges of any doors that are not self-closing, or are likely to be held open. Generally, 30 points or more difference in LRV is recommended.

For further information and other door related guidance visit [c-sgroup.co.uk/2635](http://c-sgroup.co.uk/2635)