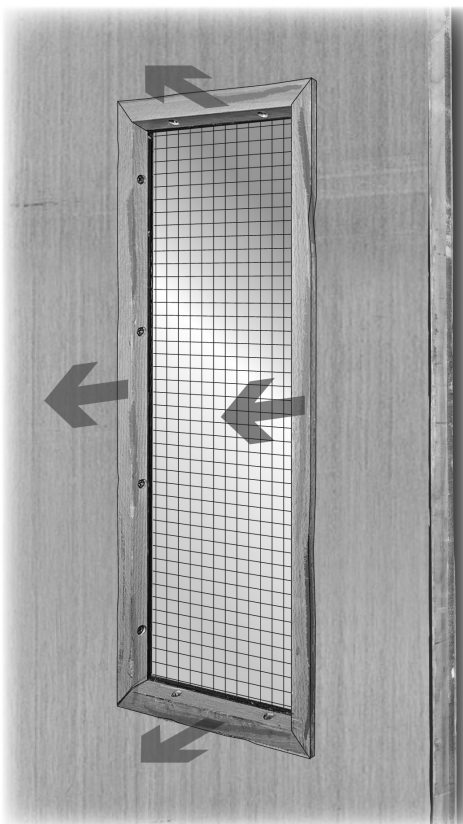


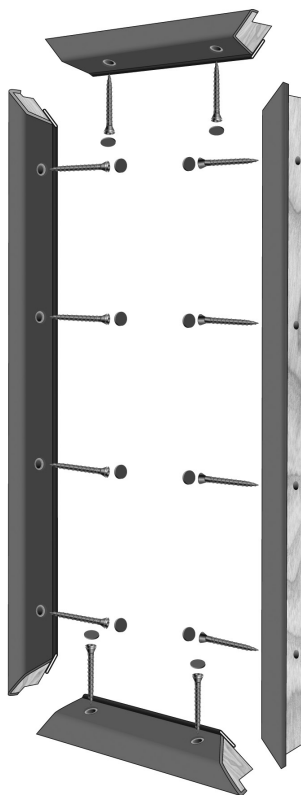
# PVCu CLAD GLAZING BEAD FIXING INSTRUCTIONS

Yeoman Shield products should be installed in accordance with the following manufacturers recommended instructions.

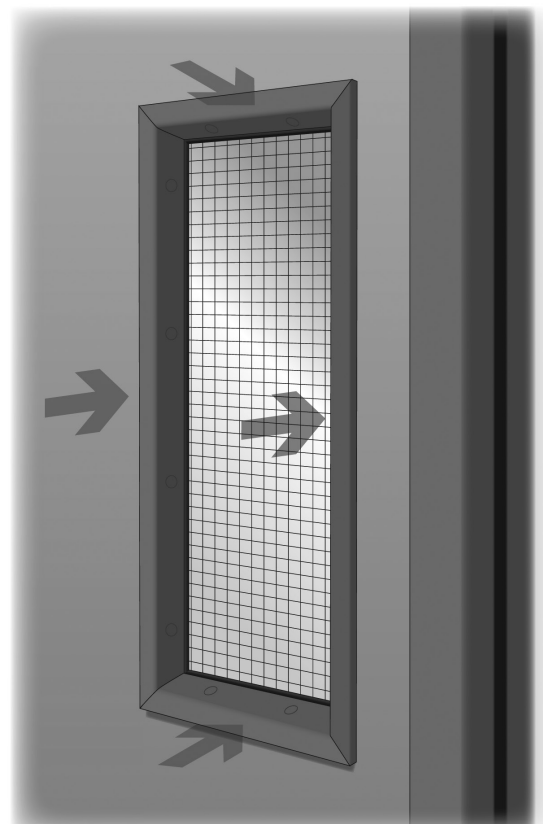
Remove damaged beading.



Fit new PVCu Clad Beading.



Completed vision panel.



N.B. Details on Expansion and Contraction, Glazed Areas, Cleaning, etc., are shown on the reverse of this document.

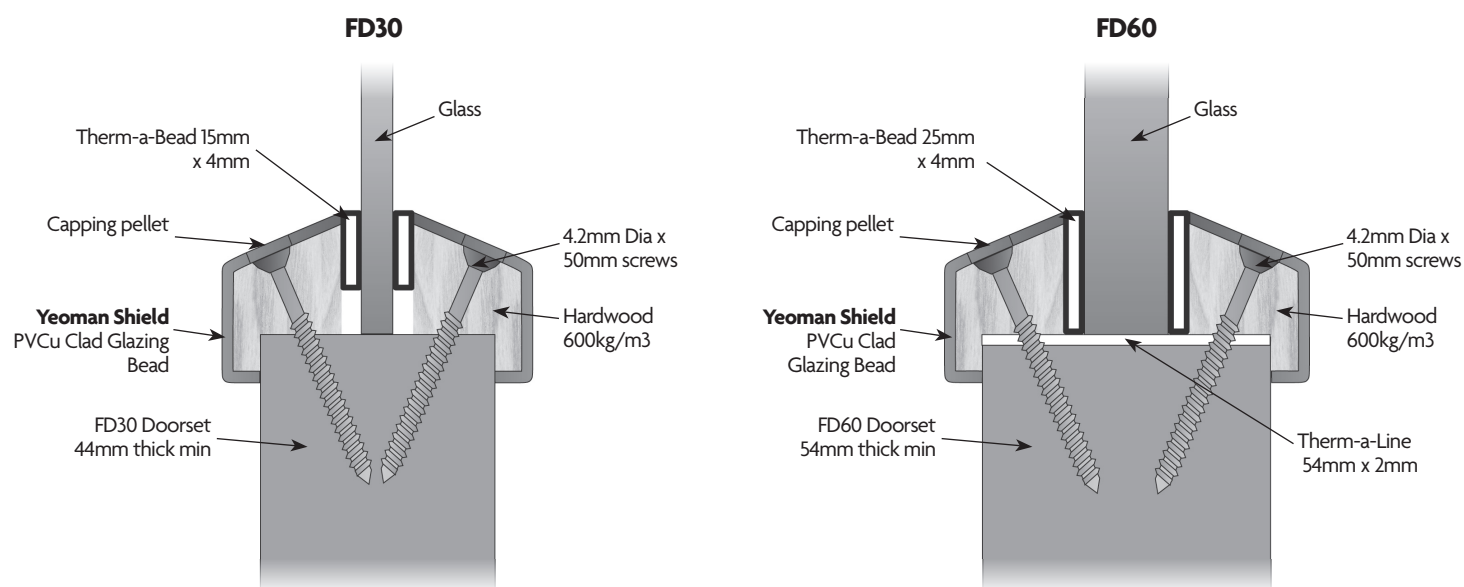
## The PVCu Clad Glazing Bead installation details (see cross sections shown below)

### New Fire Door.

- All edges of the vision panel aperture should be neat, clean and square.
- 1 hour doors (FD60) require an intumescent liner, 54 x 2mm Therm-a-Line, around the aperture.
- Fit the **Yeoman Shield** glazing bead c/w 25 x 4mm Therm-a-Bead seal around the aperture on one side and secure into place with 50mm long steel countersunk screws at 130mm maximum centres. All fixings to be countersunk to allow fitting of PVCu pellets to conceal the screw heads.
- Insert the approved fire glass into the aperture, making sure that it fits tight against the seals/bead and the liner and that there are no gaps.
- Then fit the **Yeoman Shield** glazing bead c/w seal to the other side of the aperture as detailed above, again ensuring that a tight fit is achieved to both the glass and door.
- For ½ hour doors (FD30) intumescent seals are 15 x 4mm Therm-a-Bead, a liner is not required, and the fire glass should be selected from the approved list.

### Existing Fire Door Beads & Glazing - Total Replacement.

- Remove all damaged beads, glazing and any intumescent seals from the vision panel aperture.
- Clean out the aperture so that all edges are neat, clean and square.
- Proceed with the fitting of the **Yeoman Shield** glazing beads and fire glass as detailed in the New Fire Door section above, points 2 - 6.



### Existing Fire Door Beads & Glazing - Replacement of all beading & glass to one door leaf.

- Remove all damaged beads, glazing and any intumescent seals from the vision panel aperture.
- Ensure that the edges of the aperture are neat, clean and square.
- The existing Hardwood timber beads/intumescent seals on the other side of the door and liner can remain in place if undamaged. However, if there is no visible liner on 1 hour doors (FD60) then fit an intumescent liner, 54 x 2mm Therm-a-Line, around the vision panel aperture.
- Proceed with the fitting of the approved fire glass and **Yeoman Shield** glazing beads as detailed in the New Fire Door section above, points 4 - 6.

### Existing Fire Door Beads Only - Replacement of all beading to one door leaf.

- Remove all damaged beads and any intumescent seals from the vision panel aperture.
- Ensure that the edges of the aperture are neat, clean and square.
- The existing Hardwood timber beads/intumescent seals on the other side of the door, liner and glass can remain in place if undamaged. However, if there is no visible liner on 1 hour doors (FD60) then fit an intumescent liner, 54 x 2mm Therm-a-Line, around the vision panel aperture. - The existing glass may need to be removed and re-fitted to accommodate the liner.
- Proceed with the fitting of the **Yeoman Shield** glazing beads as detailed in the New Fire Door section above, points 5 - 6.

## Composition

The PVCu Clad Glazing Beads are manufactured using Vinylac, the same material used to produce **Yeoman Shield** Wall & Door Protection Panels.

A Hardwood inner core with PVCu material formed around the outside, and supplied complete with the relevant fire seals.

## Dimensions

Standard thickness for the PVCu material is 2.0mm, although 2.5mm may also be used.

As the door thickness determines the finished size, the PVCu Clad Glazing Beads are manufactured to order, e.g.

Typical material dimensions for FD30 1/2 hour door (as fire tested): **A** (22.5mm), **B** (32mm), **C** (7mm) & **D** (9mm)

Typical material dimensions for FD60 1 hour door are: **A** (27.5mm), **B** (34mm), **C** (7mm) & **D** (9mm)

Dimension **A** is adjusted to suit door thickness, glazing, door panels, etc., which will alter dimension **B** slightly, but all other dimensions **must** remain the same.

This adjustment can be made during manufacture of the bead or by a competent person once exact dimensions are known.

Supplied in either 2.44m lengths or in a finished unit\*, complete with the relevant fire seals. When required as a finished unit then the exact dimensions of the aperture must be provided with your order, along with details of door thickness, glazing, door panels, etc. **N.B. These materials are bespoke and once manufactured to your sizes, colour, etc. they cannot be taken back in to stock.**

**\* Such units will be mitred cut, pinned and pre-drilled at the maximum 130mm centres.**

## Special Information

Fire Tested to BS EN 1634-1:2008 and BS 476 Part 22:1987. Full fire test details are available on request from our Sales Office.

(P) Patent Applied for.

### Please note:

Before work commences establish that the FD30 or FD60 fire doorset is certified with fire glass fitted.

Such information can sometimes be identified on the doorset or found in the O & M Manuals.

It is the users responsibility to ensure that fire doors fitted with **Yeoman Shield** products meet the appropriate fire legislation and regulations, whether new or existing doors.

The following existing or new fire glasses have been approved for use with this product as per the WF Assessment Report No 312453 and as approved in ISL's CERTIFIRE Certificate CF284:

### FD30 (Glass Tested: Pyroguard C730)

Fully insulating glass: Pyrostop, Pyrobel, Pyranova, etc.

Semi insulating glass: Pyrostem, Pyroshield, Pyran S 6mm, Pyrodur Plus 7mm, Pyrobelite 7mm, Pyroguard C & W 7mm, Pyroguard C & W 11mm, Pyroguard 7mm IGU's Pyrodur 10mm, Fireswiss Foam.

### FD60 (Glass Tested: Pyrostop 15mm)

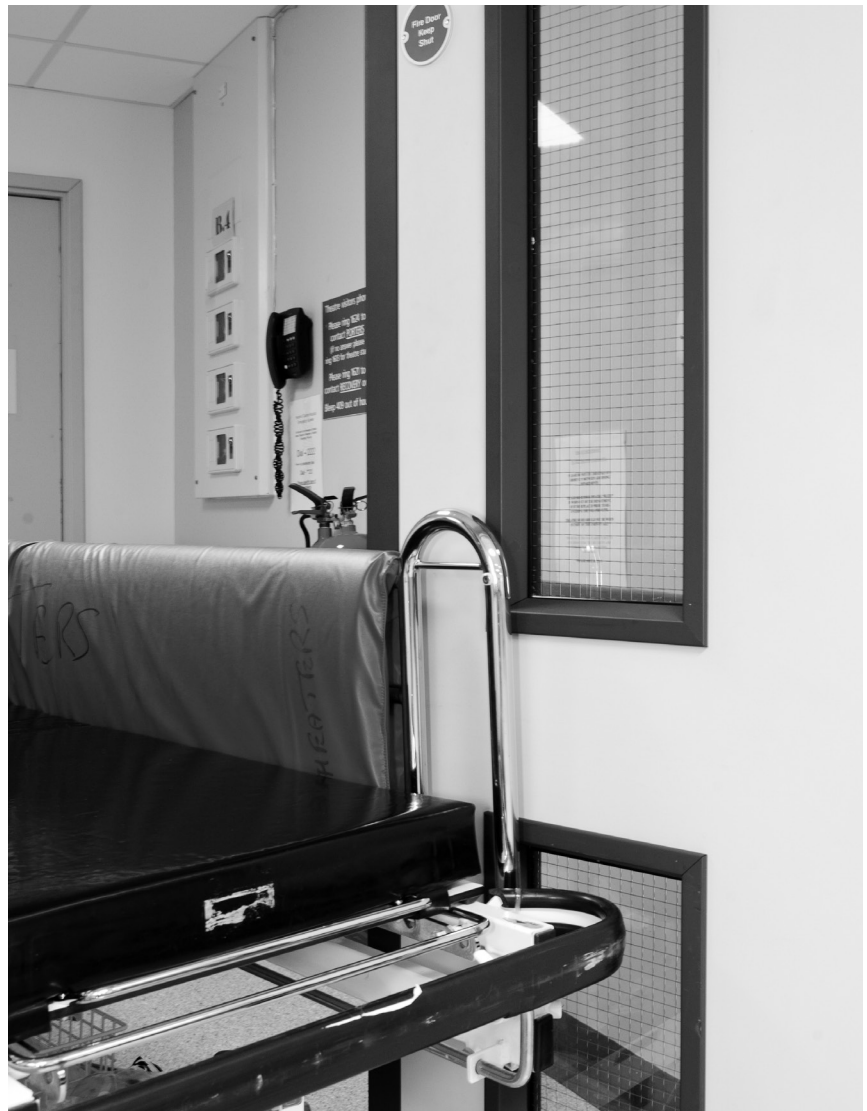
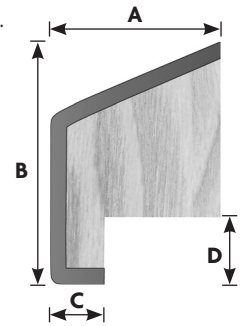
Fully insulating glass: Pyrostop, Pyrobel, Pyranova, etc.

Semi insulating glass: Pyroshield, Pyroguard 11mm, Fireswiss Foam 60/30.

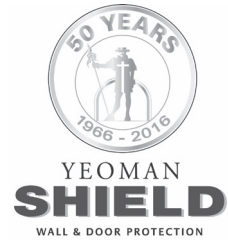
Fitting this and other fire tested **Yeoman Shield** products to fire doors will improve the look and appearance, whilst maintaining the fire integrity, providing a more durable surface to prevent and reduce impact damage. It should be noted however, that in no way does it return the doors to their original state.

**Yeoman Shield** PVCu Clad Glazing Bead can also be fitted to Non Fire Rated Doors as a protection product only, in conjunction with other door protection products, to replace any damaged/missing existing Hardwood timber Belection beading, and prevent future problems.

In this particular instance fire glass and intumescent seals will not be required, and the size, shape, etc. of the beading **can be altered**.



# GENERAL INFORMATION



**Yeoman Shield products are manufactured using Vinylac, a specially formulated PVCu material that is resistant to impact and abrasion, which is exclusive to Harrison Thompson & Co. Ltd.**

## Fire Test Information PVCu Protection Products

Fire tested in accordance with and achieved the following:

**BS 476: Part 7: 1997** - The Surface Spread of Flame of Products - **Class 1Y (Class 1 is the best classification in this test)**.

**BS 476: Part 6: 1989 + A1: 2009** - Fire Propagation for Products - **Class O** - As defined in the latest Building Regulations, Approved Document B (Fire Safety).

**BS EN 13823: 2010 + A1: 2014.**

**BS EN ISO 11925 - 2: 2010.**

**EN 13501 - 1: 2007 + A1: 2009.**

## Door Edge Protectors - Patented Product

Fire tested in accordance with and achieved the following:

**BS 476: Part 22: 1987** - For ½ hour or 1 hour fire integrity on full door assemblies.

**BS 476: Part 31.1: 1983** - To meet requirements of **BS 5588**.

## PVCu Clad Glazing Bead

Fire tested in accordance with and achieved the following:

**BS EN 1634 - 1: 2008** - For ½ hour or 1 hour fire doors.

**BS 476: Part 22: 1987** - For ½ hour or 1 hour fire integrity on full door assemblies.

**All testing has been carried out at Exova Warrington or Exova Chiltern Test Houses and the full fire test reports are available on request.**

## Surfaces & Cleaning

**Yeoman Shield** products are inherently hygienic if they are properly cleaned and maintained on a regular basis.

Our PVCu materials are 'rigid' and they do not support the growth of bacteria or mould. When cleaning, we recommend using a solvent cleaner or products such as Dettol, Johnsons Clear, etc.

Stubborn marks may need an industrial strength solvent cleaner to remove them, such as TRADESOLVE 1 (UN 1294). **N.B.** This type of cleaner should be used strictly in accordance with the manufacturers recommendations.

Smooth surfaces are more likely to show all marks, scuffs and scratches. The textured surfaces of **Yeoman Shield** products helps to hide the everyday knocks, bumps, scrapes and marks caused by vehicular traffic.

## Maintenance

None required other than normal cleaning in accordance with details shown above.

## Chemical Resistance

Vinylac is unaffected by commercial solvents and cleaners.

## DDA (Disability Discrimination Act)

**Yeoman Shield** products do not contravene the **DDA** requirements, and meet the principals of **HTM69**. (Further details available if required).

## Installation

Manufacturers recommended fixing instructions are shown overleaf. However, if additional information or clarification of any points is required then please contact our Sales Office **0113 279 5854**.

We are **CHAS (Contractor, Health & Safety Assessment Scheme)**, accredited contractors.

All our operatives hold relevant **CSCS** cards with Site Foremen having the **SSSTS** Certificates.

## Expansion & Contraction

**Yeoman Shield** products will expand and contract according to temperature fluctuations:

**Generally, PVCu materials expand or contract 0.07mm/m for every 1°Celsius rise or fall.**

Please ensure that our materials are acclimatised to the environment into which they are being installed, they should be stored at normal working temperature for at least **24 hours** prior to fitting. We recommend the optimum temperature being **23°**, which is in line with the temperature during manufacture and this should limit the amount of expansion and contraction.

It is not advisable to take materials that have been stored in a cold environment, i.e. an unheated site, cold storage container/van, etc. and install these without allowing them to acclimatise, **as this may lead to unnecessary movement of material in the future.**

**N.B.** Greater movement may occur in glazed corridors. In extreme cases of temperature variation it may be necessary to use an alternative fixing method, please speak to our Sales Office for advice.

## Colour Fastness

All Vinylac products are UV stabilised, therefore reducing the fading effect when exposed to direct sunlight. It should be recognised, however, that excessive expansion will occur in these conditions.

Further information regarding this and other colour issues can be found in our brochure or colour card, both of which are available from our Sales Office, or on our website.

## Impact/Abrasion

Vinylac results: Abrasion **BS2782; Part 3:1990**  
**Scratch ASTM D3363 - 74.**

## Bonding

Although **Yeoman Shield** supplied adhesives will perform in difficult environmental conditions they will activate more readily if applied at normal room temperature.

The bond strength will then continue to increase after the initial application.

## Warranty

**Yeoman Shield** products are guaranteed free from defects. If they are installed correctly and in accordance with the manufacturers recommendations, they will protect surfaces from damage for many years.

## Environmental

**Yeoman Shield** operates an Environmental policy and ensures the recycling of all materials and packaging wherever possible, a copy of our policy can be requested from our Sales Office.

All our materials/products are sourced and manufactured in the United Kingdom and can therefore contribute to achieving the requirement of the **BREEAM 2011 Technical Construction Manual** for building sustainability and life cycle, **as well as reducing our carbon footprint.**

## Health & Safety

Full **COSHH (Control of Substances Hazardous to Health)** details on all **Yeoman Shield** products are available from our Sales Office.

In accordance with **REACH** Regulations, our products do not contain any chemicals that are on the **SVHC (Substances of Very High Concern)** list dated June 2012.

## Technical Support & Advice

Data sheets on the various **Yeoman Shield** materials are available from our Sales Office.

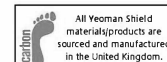
## Timber Products

All wood incorporated in **Yeoman Shield** products is purchased from an **FSC supplier**.

## MAKING BUSINESS A PLEASURE

Harrison Thompson & Co Ltd. Yeoman House, Whitehall Estate, Whitehall Road, Leeds, LS12 5JB.

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