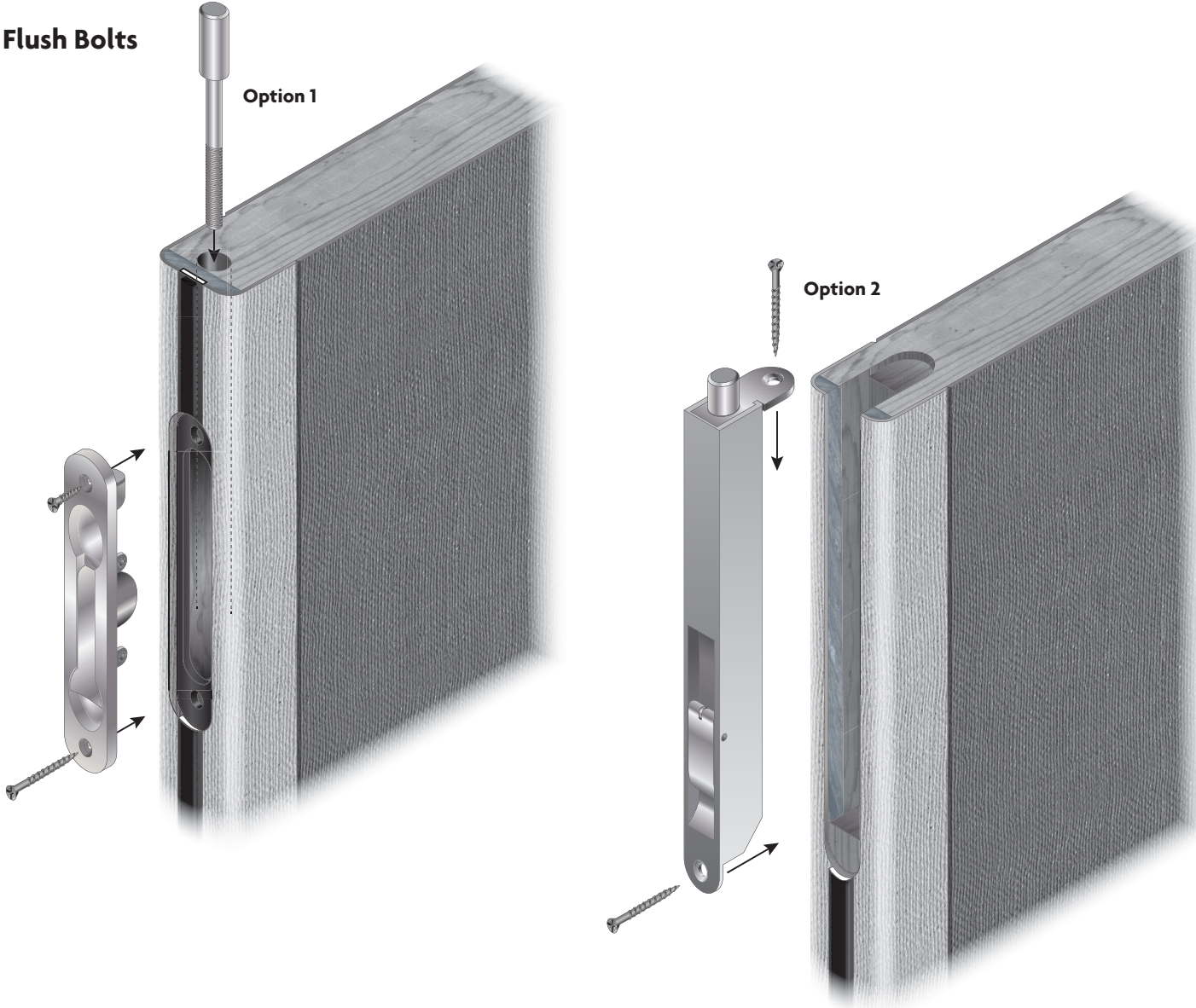


resistance tested to 30 or 60 minutes fire integrity.



Flush bolts may be incorporated centrally into the top and bottom of one meeting edge, partially interrupting the **Yeoman Shield/Lorient** PVCu door edge protectors providing the following dimensions are not exceeded:

- 200mm long x 22mm deep x 20mm wide

The Bolts may cut through the middle leaf edge section of the protector, the remainder of the leaf edge section and the return “legs” must remain intact. Double sided adhesive tape can be used to secure the return “legs” with Option 2 if needed.

Flush bolts must be steel and the mortice must be as tight to the mechanism as is compatible with its operation. All edges of the mortice must be protected with intumescent gaskets as specified in section 4.6 of our Fire Assessment Report. Alternatively, the hardware manufacturers tested gaskets may be used.

Face bolts are additionally permitted but they must not be intrusive of the leaf or the edge guards.

Before work commences establish the door type, i.e. FD30 or FD60, such information can sometimes be identified on the doorset or found in the O & M Manuals. It may also be of benefit to take a note and photograph of each doorset for future reference.

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

Should any door manufacturer's details be removed from the edge of the doorset, this usually applies to the hinge edge, such information should be re-sited elsewhere on the door, so that it is clearly visible.

We would also recommend that door identification discs, FD30/FD60, are fixed to the face of the door to confirm the doors fire rating after the fitting of our products. These can be obtained from our Sales Office.

N.B. Any fault resulting from deviation of the manufacturer’s recommended fixing instructions will be the sole responsibility of the installer and Yeoman Shield will not accept any liability.

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 Dettox, 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.
Tel: 0113 279 5854 Fax: 0113 231 0406 Email: info@yeomanshield.com Website: www.yeomanshield.com



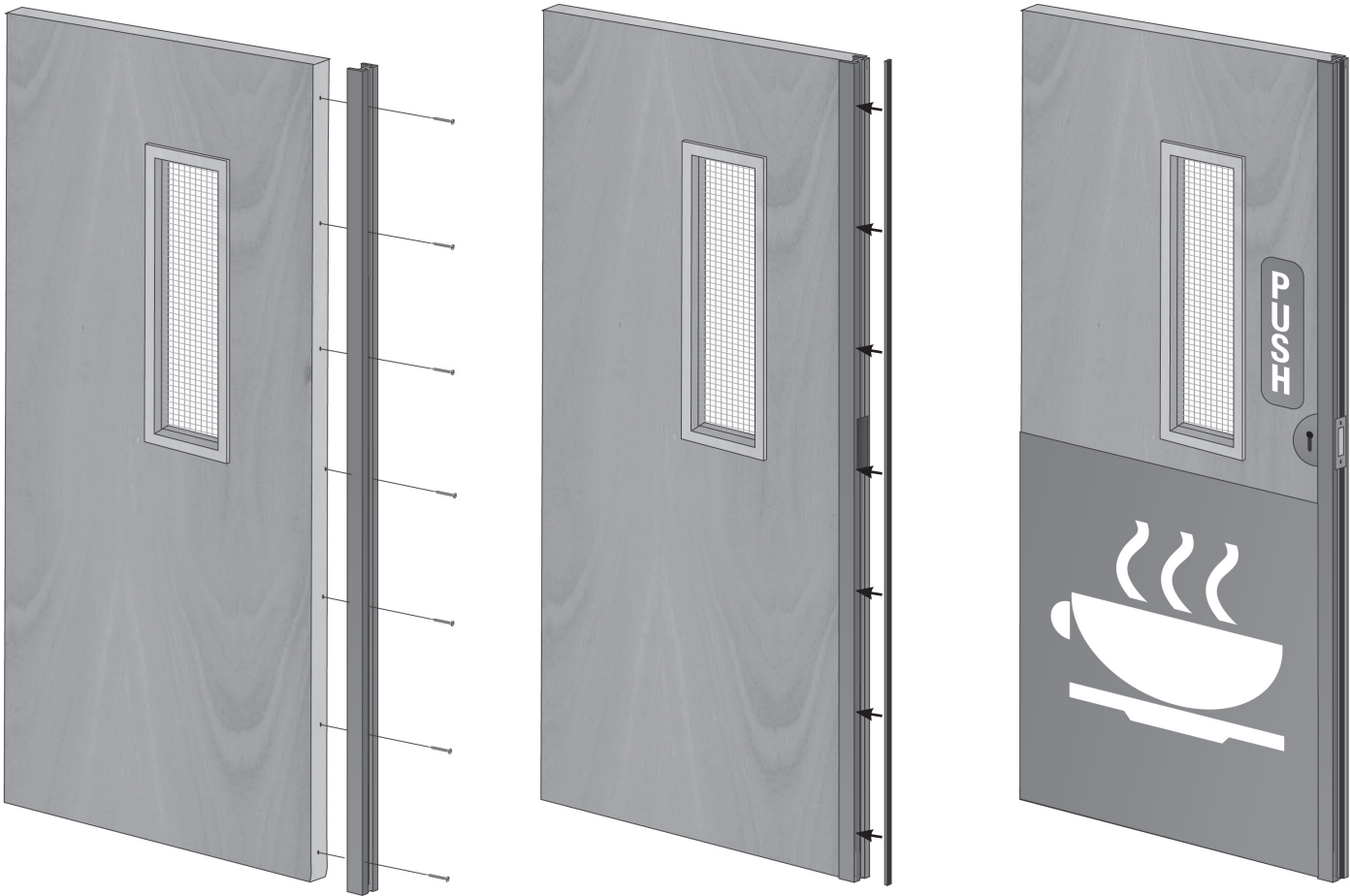
Registered Office as above. Registered in England No. 2669275 VAT Reg No. GB 169 3105 61
Directors: S.L.Russell, G.C.Brumwell, P.Christopher, A.C.Brumwell, R.Good. FI Mar 17

DOOR EDGE PROTECTOR®
FIXING INSTRUCTIONS

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

Fire tested in accordance with BS 476: Part 22:1987 for FD30 ½ hour and FD60 1 hour fire integrity on full door assemblies.
Smoke tested in accordance with BS 476: Part 31.1:1983 to meet requirements of BS 5588.

Patented Product



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



For fitting to new & existing fire doors, previously fire resistance tested to 30 or 60 minutes fire integrity.

Please read the following before commencing installation of this product:

To be installed to fire resistance doors previously tested at a UKAS accredited laboratory in accordance with BS 476: Part 22: 1987 or BS EN 1634-1: 2000 or 2008 and having achieved 30 or 60 minutes fire integrity.

Prior to removing the door from its frame it is important to ensure that the door and frame are both securely fixed. The frame should not be loose in the surrounding substrate and the hinges should be re-tightened if necessary. This will ensure that when the door, complete with new door edge protector, is re-fixed into the frame that it will have the permissible, constant 3mm gap around all edges, i.e. door to frame and door to door.

Should a miscalculation be made and too much of the door lipping/core is removed the door edge protector cannot be 'packed out' using proprietary packers at the fixing positions to take up any discrepancy.

In such a situation, and only then, a new hardwood lipping should be fixed along the full length of the door core, ensuring that there are no gaps and that there is full contact between the two surfaces.

The door edge protectors are supplied with a central groove down the length for drilling and countersinking the required fixing holes/fixings, which are then hidden by the fitting of the intumescent fire seals.



Installation

In order to fit the new door edge protector the door core should be reduced by 11mm generally/usually. Once this is done it is not necessary to re-lip the edge of the door core as this will be replaced by the toughened PVCu inner core of the door edge protector, that is unless the fire door supporting document specifies otherwise.

Once the door core has been reduced put a small chamfer down the long edges using a plane, to ensure that the door edge protector sits tight against the surface and does not 'rock'.

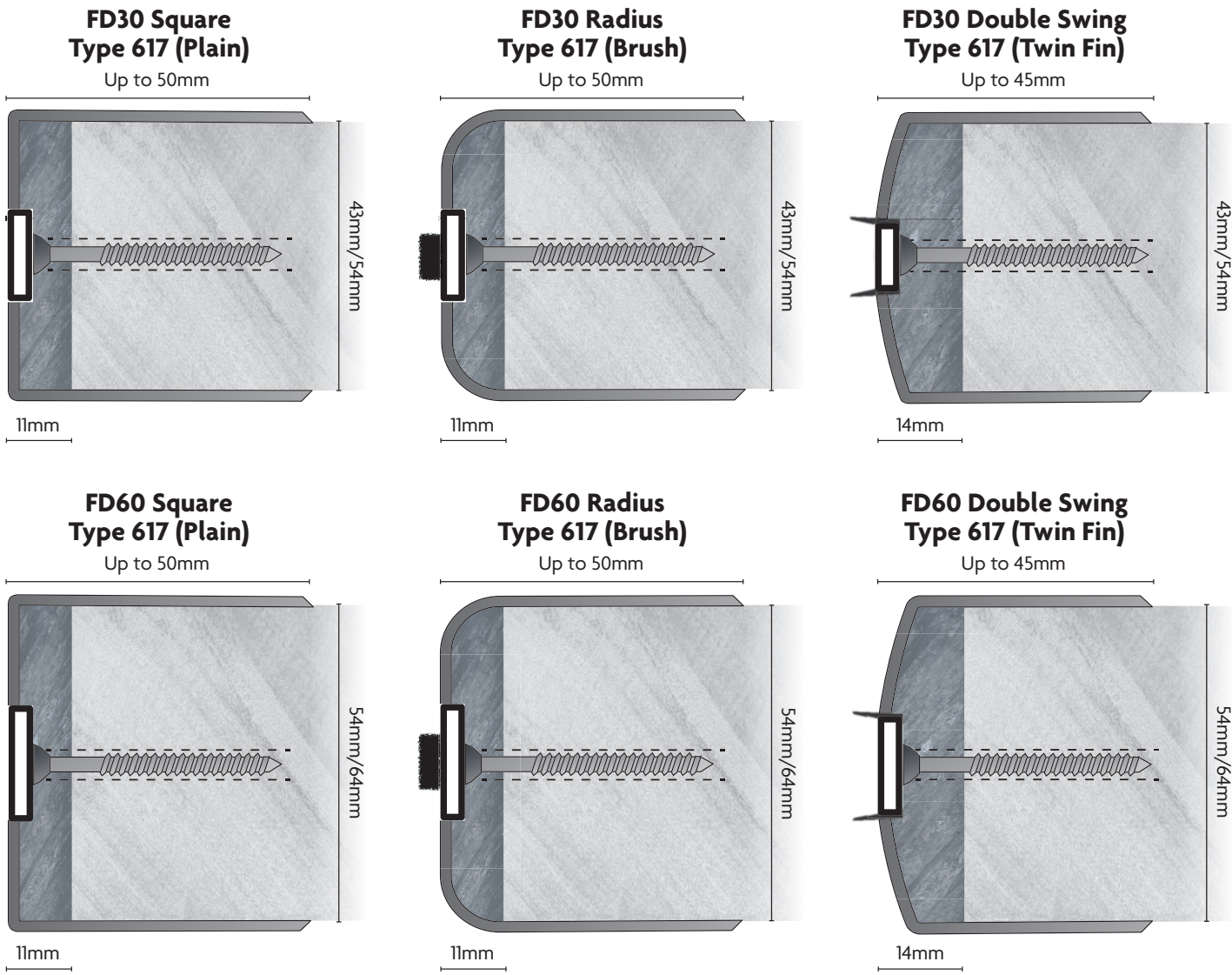
Present the door edge protector to the door core and mark the overall length and any cut outs for locks, hinges, etc. Use a tenon saw when cutting to length, and a small trimmer for the necessary cut outs.

Secure the door edge protector to the door core by means of 50mm long, No.6 – 8 Steel, countersunk screws, via the rebated central groove at 150mm from each end and at maximum 200mm centres between fixings, together with a thin bead of PVA adhesive along the length of the door core.

Once fitted, the Ironmongery items should be secured into place and the intumescent seals fitted into the central groove. Where the ironmongery interrupts the intumescent seals, i.e. hinges, locks, etc., then additional intumescent material should be fitted as shown and described on the page opposite.

Yeoman Shield door protection panels, push/finger plates, etc. can be fitted to the door surface/surfaces once the door/doors have been re-hung into the door frame. **N.B.** When re-installing the door/doors ensure that gaps are not greater than the 3mm permissible, as detailed above.

Contact our Sales office on 0113 279 5854 for a copy of the Fire Assessment Report



Details and dimensions are based on door edge protectors manufactured in **Yeoman Shield** 2.0mm FalmouthEx outer skin, formed around the toughened PVCu inner core with legs that 'toe in' slightly when manufactured, to 'grip' the face of the door when installed.

FD30 (½Hr) range from 43mm - 54mm*, with the option of: Square, 3mm R external corner - Radius, 6mm R external corner - Double Swing, 66mm R external corner. All supplied with the relevant Lorient Type 617, 15 x 4mm Fire or Fire & Smoke Intumescent Seals.

FD60 (1 Hr) range from 54mm - 64mm*, with the option of: Square, 3mm R external corner - Radius, 6mm R external corner - Double Swing, 66mm R external corner. All supplied with the relevant Lorient Type 617, 20 x 4mm Fire or Fire & Smoke Intumescent Seals.

***These are internal sizes of the door edge protector as detailed in our Fire Assessment Report, and cannot be exceeded either above or below the dimensions shown.**

Return legs are up to 50mm from the centre point, and all dimensions quoted are subject to manufacturing tolerances.

Additional Information relevant to installing the Yeoman Shield Door Edge Protectors correctly.

It is possible during manufacture of the door edge protector that the finished length can be slightly 'bowed' in appearance, but this is generally corrected when the product is secured to the door core.

However, if fitting the door edge protector in accordance with our recommended installation instructions causes the return legs to 'ripple' slightly where they meet the face of the door this can be corrected by applying a double sided adhesive tape along the inside leg of the length, to ensure a smooth finish between the door face and legs of the door edge protector.

Also, to allow for expansion and contraction we would recommend a slightly oversize hole is drilled in the door edge protector, and whilst the screws should be secure they should not be over tightened as this will restrict any movement and may cause 'rippling' along the outer legs.

Generally when fitting the **Yeoman Shield** Door Edge Protectors in an upgrade situation on existing/new fire doors, it is recommended that in line with fire test evidence the intumescent surrounding the door, i.e. in the door frame, be replaced to ensure that the intumescent is consistent.

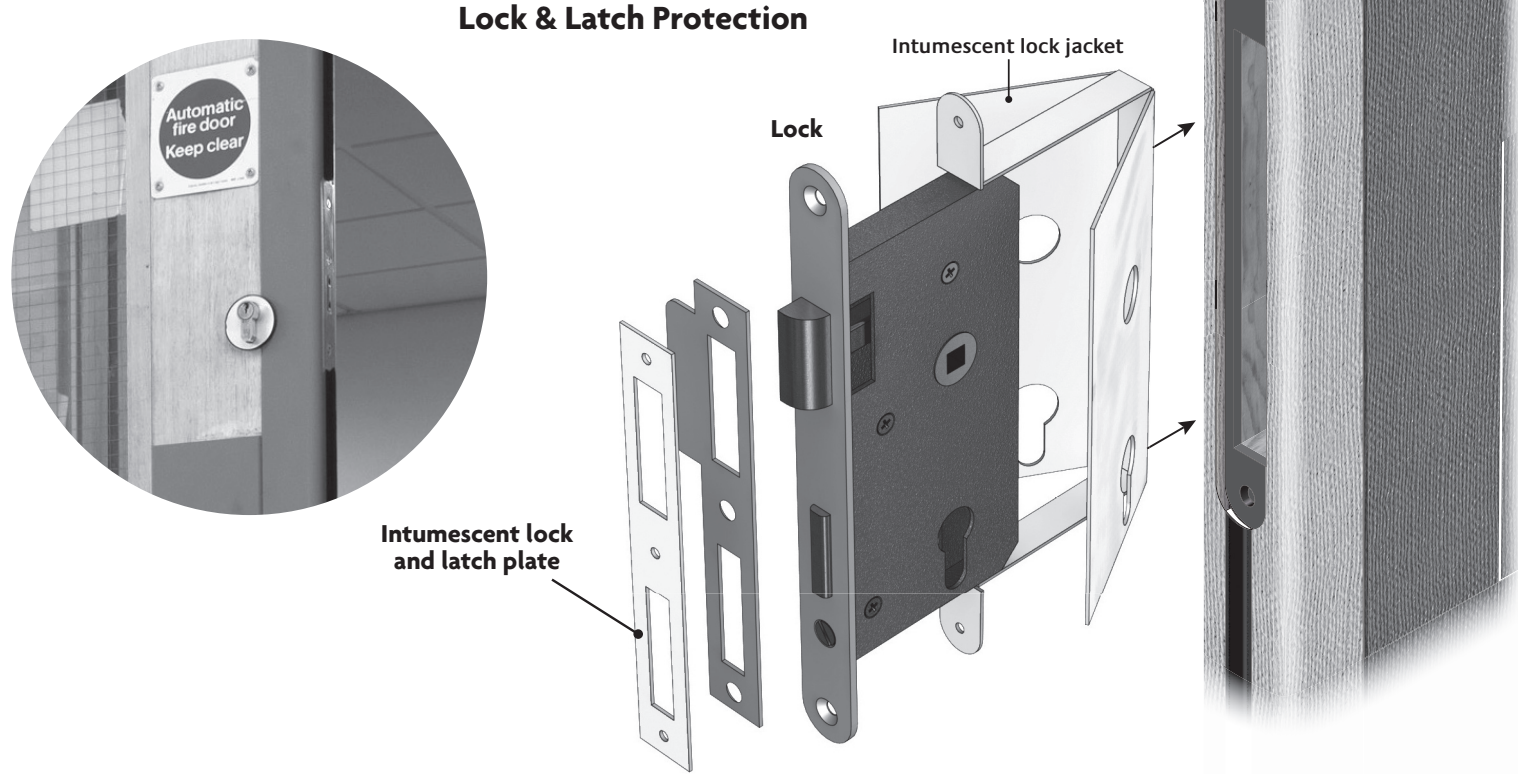
N.B. Existing seals in the door frame and head of the door can remain in place but it is **recommended** that these are replaced with Lorient Type 617, as detailed in our Fire Assessment Report, if these are not the existing fire seals.

The **Yeoman Shield** Door Edge Protectors have been designed and developed in conjunction with Lorient Polyproducts, leading manufacturers of fire or fire & smoke intumescent seals, and should be installed in accordance with manufacturers recommendations, using **only** Lorient seals in accordance with the relevant Fire Reports.

Seals that are to be fixed under the hinge blade or encasing the latch, under the latch body, latch forend and keep should also be Lorient Polyproducts Ltd. Monoammonium Phosphate (MAP), 1.0mm thick.

Fire doors will have test evidence that should have been provided by the door manufacturer when the doors and door frames were supplied. It is your responsibility to check that the seals are fully compliant with the relevant test evidence for the existing/new fire doors.

Although fitting **Yeoman Shield** Door Edge Protectors in accordance with the manufacturers recommendations will improve the look and appearance of your doors without affecting the fire integrity, and provide a greater level of protection to the edges of the door from vehicular traffic, it should be noted that in no way will these doors be returned to their original 'as new' state.



Hinge Protection

