200, 125 & 75mm PROTECTION RAILS
FIXING INSTRUCTIONS

YEOMAN SHIELD
WALL & DOOR PROTECTION

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

Protection Rail on fixing clips, the shape of which differs on 125mm and 75mm rails. (Where solid core is used, then neither fixing clips nor jointing clips are required.)

Mark the pre-determined height of the rail on the surface to be protected, preferably using a laser level.

Screw all stop ends into position. Measure from the centre of a stop end, mark and fix any jointing clips, which should be at maximum 3.5m centres. Fixing clips should then be fixed at maximum 700mm centres. Using the appropriate fixings as suggested in the table below.

External corners are not screw fixed under any circumstances as they should be allowed to 'float' under impact. However, where an external corner occurs, screw fixing clips on the adjacent wall faces 100mm back from the corner.

Internal corners requires fixing clips to each wall face 50mm from the internal corner and hang the insert strip into position as shown below, this will ensure that the abutting profile of the rail remains square.

Measure and cut the rail to length where necessary using a fine tooth Tenon saw or electric drop saw with a fine tooth blade, ensuring that all ends are cut square. Snap the rail into place over the fixing/jointing clips, stop ends or external corners.

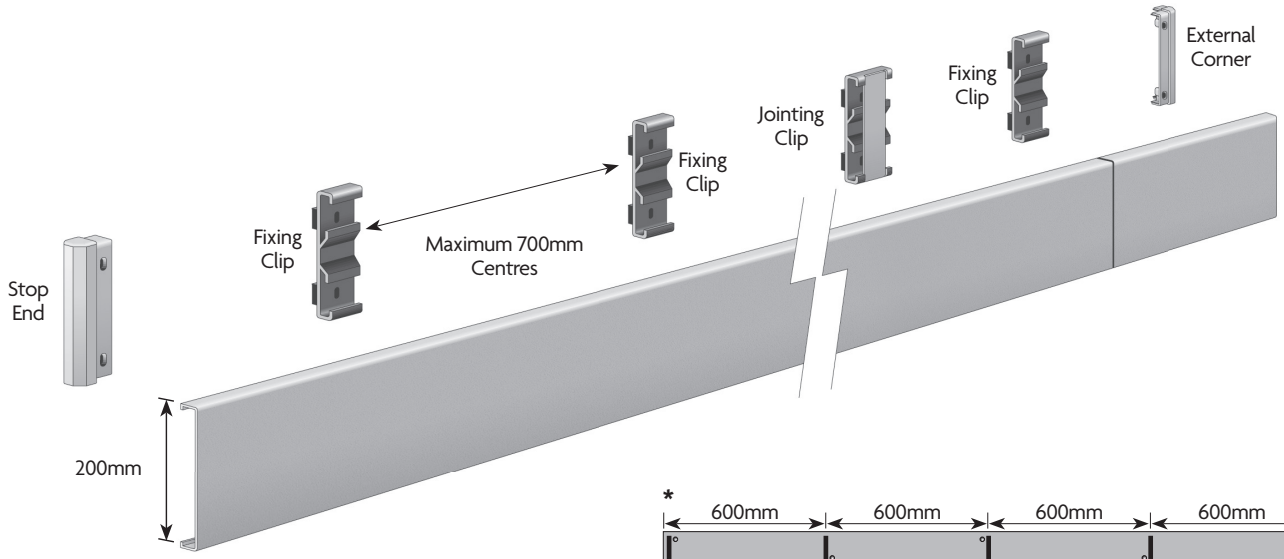
Glue one end of the external corner into the pre-positioned rail and then snap the adjacent rail into position over the return spigot, **but do not glue**.

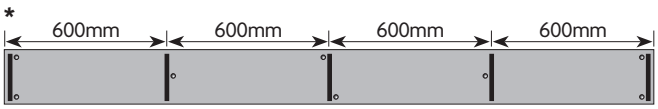
If using the solid core it should be cut to length taking account of: stop ends **- 60mm**, external corners **- 30mm**.

At internal corners one length of core should run into the corner but should be kept back **5mm** short and the adjacent length should be cut back **5mm** short of the core on the opposite wall to allow for the protection rails to abut each other.

In all cases the core should be drilled and countersunk to the side of the rubber spacers, a minimum of 2 rubber spacers must be used for a short length of core, as shown below.*****

Once the stop ends and core have been secured to the wall substrate, using the appropriate fixings as suggested in the table below, then the fitting of the rails and accessories can then be completed as detailed above. (Please refer to our Sales Office for additional advice if using the Steel accessories with the solid core)





Wall Structure	Screw	Plug
Plasterboard	Appropriate length 5mm machine screw	5mm Rubber Rawlnut
Brickwork, Breeze Blockwork, Concrete	Appropriate length No. 10 woodscrew	No. 10 Plastic plug
Lightweight Blockwork e.g. Thermalite, Siporex	Appropriate length No. 10 woodscrew	Fischer S8 Plastic plug
Steel	Self-tapper	-

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

GENERAL INFORMATION

YEOMAN SHIELD
WALL & DOOR PROTECTION

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

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ISO 9001 Certif

All **Yeoman Shield** materials/products are sourced and manufactured in the United Kingdom.

Registered Office as above. Registered in England No. 2669275 VAT Reg No. GB 169 3105 61
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FI Dec 2016