Plas-Shop

Hoarding & Screening Online Innovations

Internal fitting and Installation Guide

Plasklad fitting & Installation Guide

Recycling the System

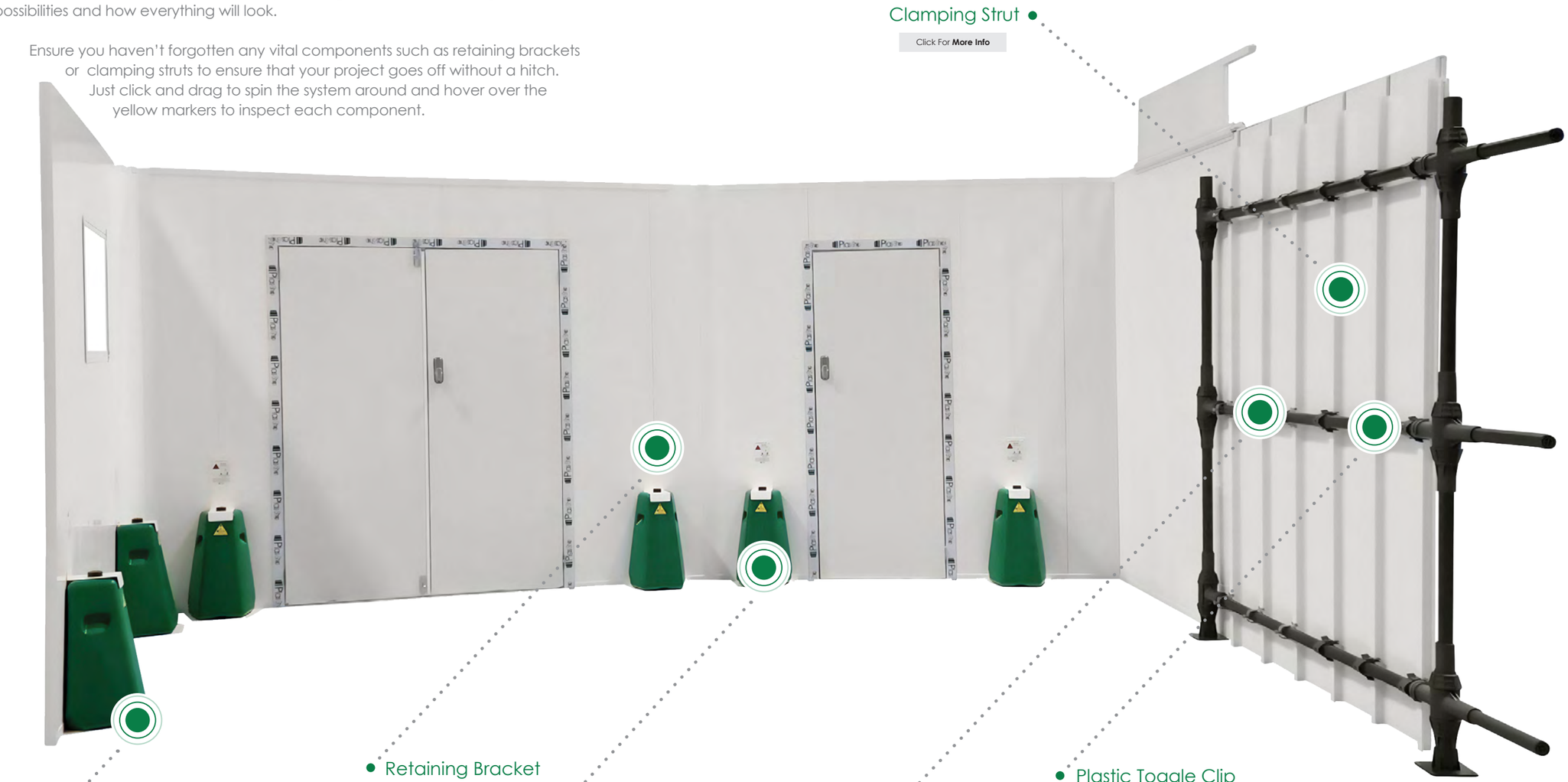
Interactive Product Guide

Envisage how your hoarding system will look with our 360° interactive inspector.

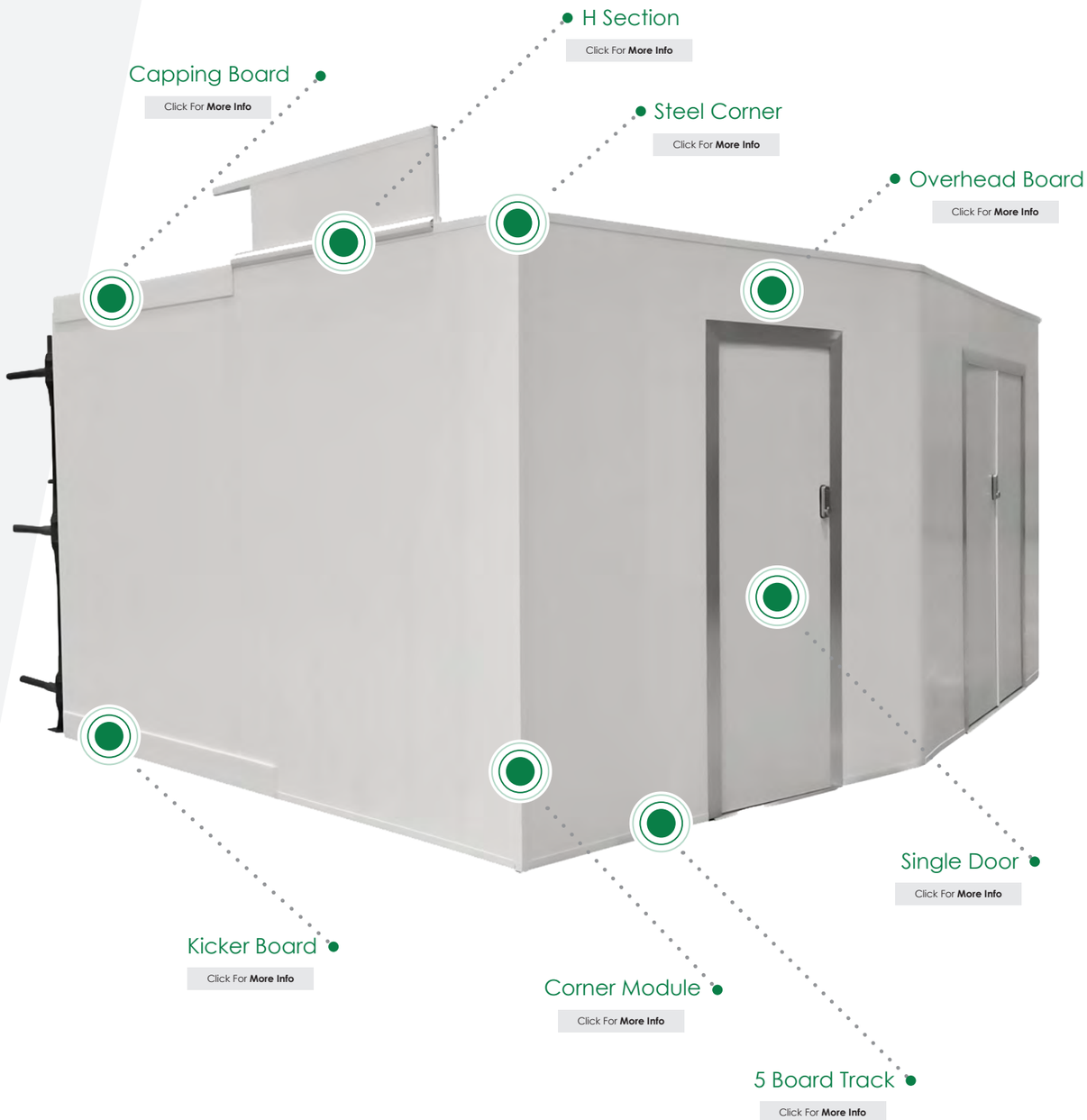
Gain an immersive and realistic view of what your completed hoarding system will look like with all elements combined so you can gain an understanding of the possibilities and how everything will look.

Ensure you haven't forgotten any vital components such as retaining brackets or clamping struts to ensure that your project goes off without a hitch. Just click and drag to spin the system around and hover over the yellow markers to inspect each component.

Construction Elevation



Client Elevation . Left Side



- **Capping Board** — Click For **More Info**
- **H Section** — Click For **More Info**
- **Steel Corner** — Click For **More Info**
- **Overhead Board** — Click For **More Info**
- **Single Door** — Click For **More Info**
- **Kicker Board** — Click For **More Info**
- **Corner Module** — Click For **More Info**
- **5 Board Track** — Click For **More Info**

Client Elevation . Right Side

- **Plasloc Board** — Click For **More Info**
- **U Track** — Click For **More Info**
- **Vision Panel** — Click For **More Info**
- **Digi Lock** — Click For **More Info**
- **Double Doors** — Click For **More Info**
- **Curved Corner** — Click For **More Info**

Internal fitting and installation guide

1 Introduction

The following illustrations or diagrams show the various modules in the system . You will note that the PVC-U modules have generally been named for their primary purpose; however some are also used in other assemblies but are still referred to by their original name.

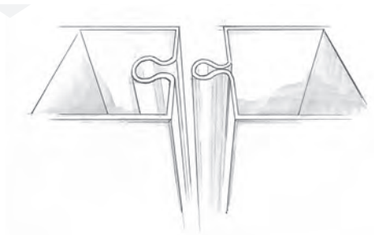
• Panel Terminology / Visual Reference

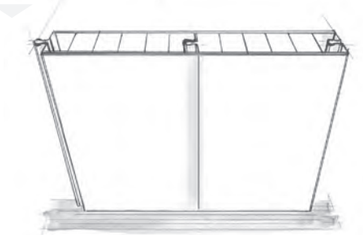
Top perimeter Rail - 35mm wide 40mm deep 3m long U Channel PVC
Plank - 300mm wide 35mm thick 2.4m long extruded section PVC
Bottom perimeter rail - 35mm wide 40mm deep 1.5m long U Channel PVC
Water Bottle Retainer - Powder coated Steel
Ballast Bottle - Green HDPE plastic blow moulding
Baseplate - Powder Coated Welded Steel

2 The Plasloc System – Standard Product

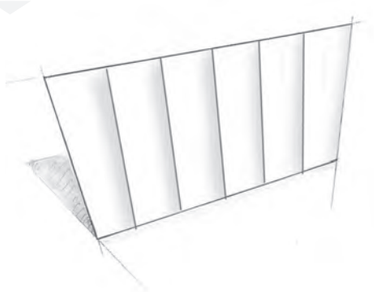
The principle of the system is based loosely on the traditional tongue and groove joint but now much updated with the added benefit of click-fit detainment; which prevents two pieces so joined from becoming separated without a little physical effort.

The PVC-U plastic lightweight cellular hoarding panels, like a predecessor the T & G boarding, slot together to form a wall of tightly fitting panels and once joined, the two panels present a clean pristine white appearance with only a hint of a join line on closer inspection.





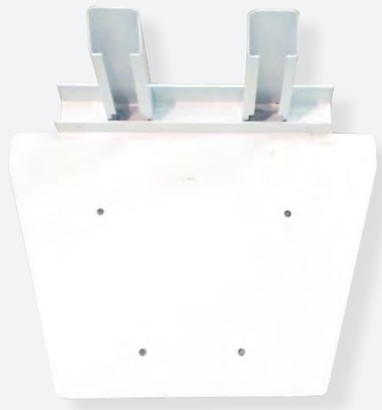
This interior hoarding system is designed to be mostly self-supporting and targeted primarily for refurbishment areas where any fixing to structural floor, walls or ceilings often has restrictions or is not permitted.



The support has been made possible by the use of a specially designed Ballast Bottle Weights that fit on the platform of each Baseplate located at the bottom of the wall.
The Ballast Bottle alone is made in a green HDPE plastic, all the other PVC-U plastic components are manufactured in white.
The bottle is intended to be filled with water when delivered to site and emptied before its return, making transport light work.
The Ballast bottles are retained with a steel Ballast bottle retainer (WBB) which discourages unauthorized removal.
The WBR is screwed in place to the panels providing additional support.

This Baseplate is made with a channel into which the panels fit and a platform welded behind which the Ballast Bottle Weight sits on to provide the counterweight and prevent the wall from overturning. The Baseplate is made out of sheet metal and has two rectangular section vertical rods welded within the channel that are designed to occupy the second cell on either end of every panel. There is a non-slip rubber matting below the platform helping to keep the Baseplate in position.

The Baseplate component is located approximately every 1.5 metres along a wall using 5-board u track. The holes in the base are only for situations where there are no requirements for maintaining floor integrity and finish; here fixings can be made directly into the floor, using suitable plugs and screws.



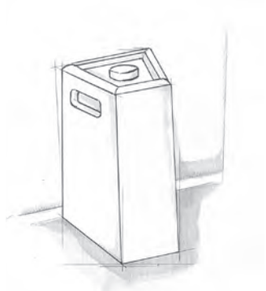


Image 1.1
Bottle Weight

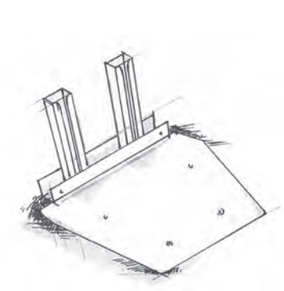


Image 1.2
Baseplate with Vertical Spigots

Image 1.3
Retaining Bracket

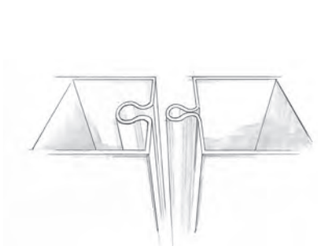


Image 2.1
Tongue and Slot Joint

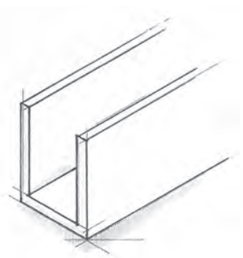


Image 3.1
Channel

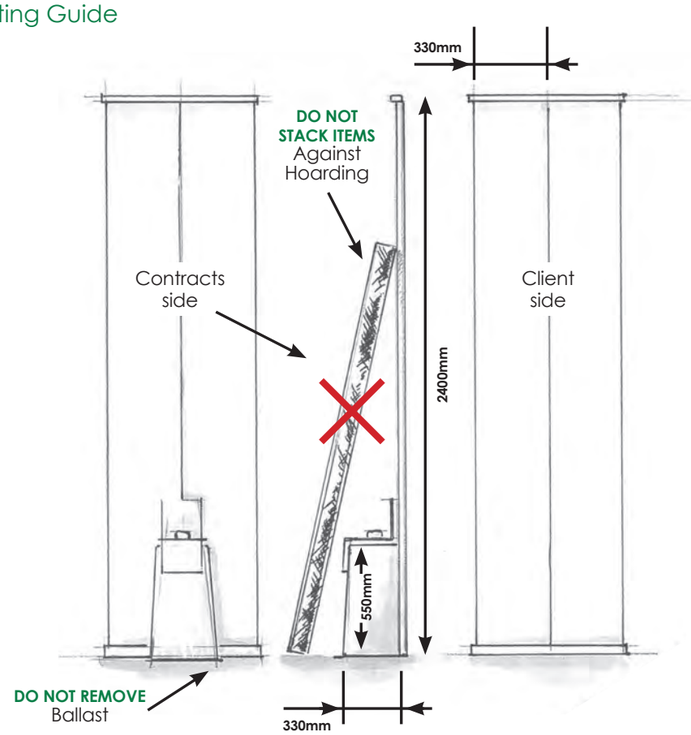
Standard 2.4m Free-standing System

1. Ballast Bottle Weights (Image 1.1) fit on each Baseplate (image 1.2) and are held in place by a retaining bracket (image 1.3). The baseplates are located at the bottom of the wall, this forms an integral part of the installation and should not be removed.

Standard 2.4m Free-standing System

2. The PVC-U plastic cellular T&G Hoarding (Image 2.1) fits over Baseplate spigots and pushed down into channel (Image 3.1) Short channels between each Baseplate and long channel to cap top of boards.

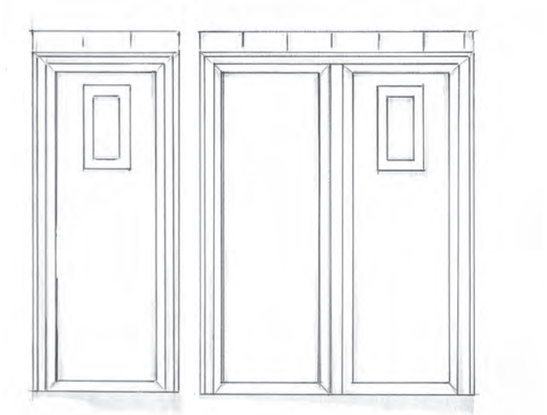
Fitting Guide



3 Fitting Doors

1. Doorways are divided into two types of door opening widths, the single (720mm door opening) & the double door (1490mm door opening). These openings then have opening height 1980mm.

2. Door frames are bounded by perimeter rail (U cross section) and is designed to fit exactly with the panel module widths. The ends of the panels, both tongue and slot end, fit neatly into the outside of the frame channel as do the panels passing over the top of the door frame. Thus giving a flush door / wall line.



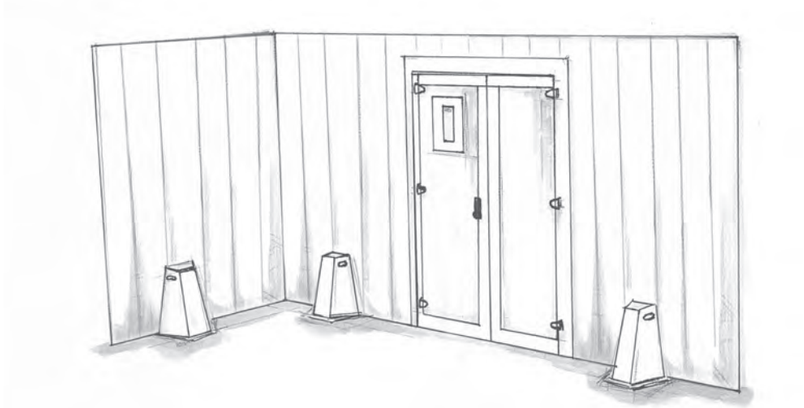
Single Double

3. Baseplates and Ballast Bottle Bottles should be placed adjacent to either side of the door to provide additional support.

Construction Notes

1. Check the delivery of the Door and Door Frame assemblies, other modules and any other components to confirm they match with the Plasloc component list ensure all are present.

2. Check that the Door is fitted with working hinges and that the door can open without hindrance. Check also the Door lock/latch components work as intended.



3. The Door and Door Frame assemblies will be delivered as ready assembled, only requiring the placing and building in of the assembly in its allotted position within Walls.

4. The Door Frame Channel should be offered up to the leading 300mm panel and slotted over the end of the panel.

5. The shallow bevelled edge threshold facilitates the through movement of wheeled trolleys and scissor lifts, although it is recommended to do so at a reduced speed.

4 Fitting Viewing/Media Panels

1. Plasloc manufacture windows frames for multiple uses, as viewing panels fitted with glass or polycarbonate, or media panels. The latter being used to house a flat screen TV which provides the ability to offer media presentations.

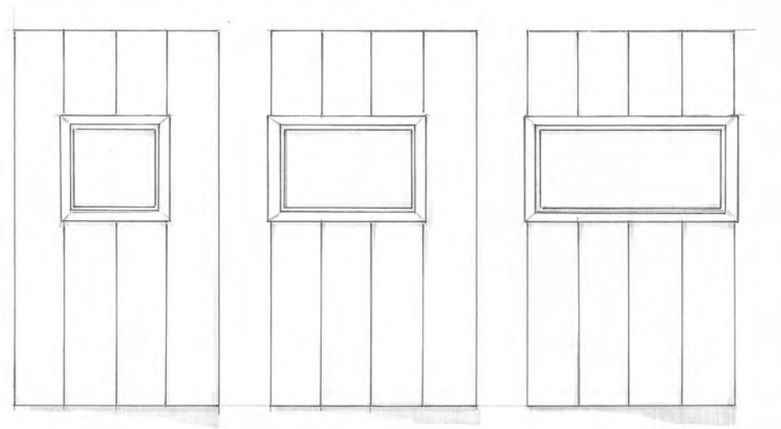


Diagram 1

Frame widths 600, 900 & 1200mm

Typical flat screen TV size used 42"
housed in standard window type frame.

Construction Notes

1. The window frames come pre-assembled to the site.

2. Check the delivery of the Window Frame assemblies and any other components required for their fitting, with the Plasloc component list to make sure all are present.

3. The Windows are built in along with the construction of the wall.

4. When being used with a flat screen TV it is recommended that a baseplate and water bottle is placed below the frame to ensure a stable base is formed.

5. The frame is bounded by perimeter rail which passes over the 300mm Panels.

6. The leading 300mm panel immediately before the Window can then be installed.

7. Overhead panels are located into the top perimeter rail in the same process as above doors.

8. The top perimeter rail is fitted to finish.

5 Wall support

1. The standard Hoarding Wall whether it has full height panels (unit height 2406mm) or comes with Separating Rails (unit height 2400mm), the Wall is designed to be self-supporting, provided mostly from its large shaped Ballast Bottle that acts as a counterweight. However this can be affected in certain circumstances by any adverse lateral force against the wall, i.e. the accidental contact from someone falling heavily against the wall to say, an extreme event such as a sudden strong draught of wind from several opening doors in a raging gale, etc. Additional support therefore becomes necessary to prevent any occurrence of the wall becoming unstable. With a high build wall this additional support becomes a requirement.

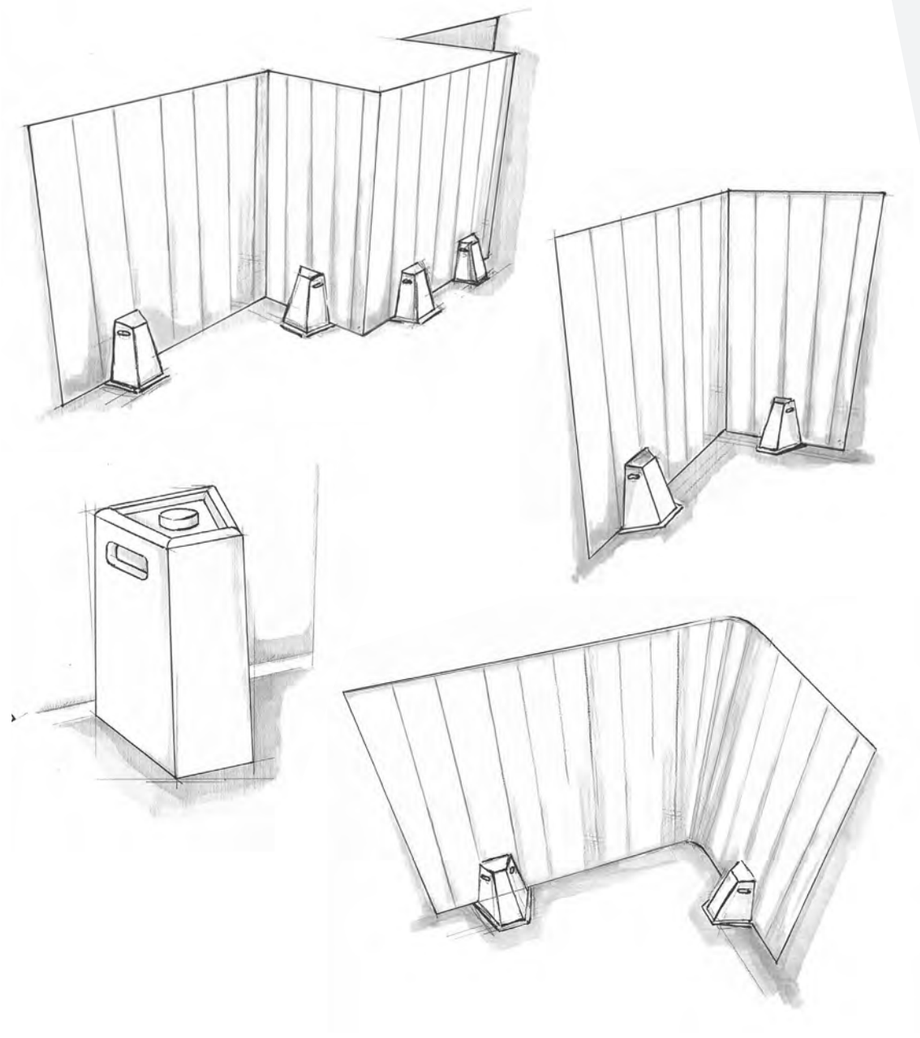
2. A small hoarding layout with a return wall at either end is unlikely to be affected by the above forces as the shortness in length of the wall plus the support from the return walls help to buttress each other and should be enough to overcome such problems. A long wall however, with no return walls would be more likely to be affected by such adverse forces and would require additional support.

3. There are measures that can help to back up the system be it a physical fixing to the structural elements of an interior (where this is permissible) or to the Installation of buttress walls to give regular support along a long straight wall where there is no other means of support. Alternatively the hoarding is designed to incorporate return or staggered walls.

4. The Ballast Bottle Weight as explained and described in Section 1, Introduction to the System, is designed to sit on the Baseplate that connects to the wall by having a channel into which one of the wall panels sits. Within the channel are two rods that project up vertically which slide into two cells of the panel as it is fitted; these brace the panels to prevent them from going over.

Welded to the channel is a flat plate the Bottle sits upon; both are always positioned on the construction side of the wall to keep the customer side tidy. The Bottle and retaining bracket. (WBB) and its Baseplate are fitted one every 1.5 metres (or one every 5 panels).

5. Wall fixing to a structural wall face at the end of a wall run, where fixing is a possibility, can be done with the Perimeter Rail. The Rail is screw fixed to the wall and the panel inserted into the open end. The side of the rail that is on the construction side of the wall can be screwed to the panel.



6. Structural ceiling fixing; There are several methods of fixing to the structural ceiling that are possible. One possibility is the Post Assembly fitted within the wall and extending above up to the ceiling where there would be some form of enclosing battening to secure it.

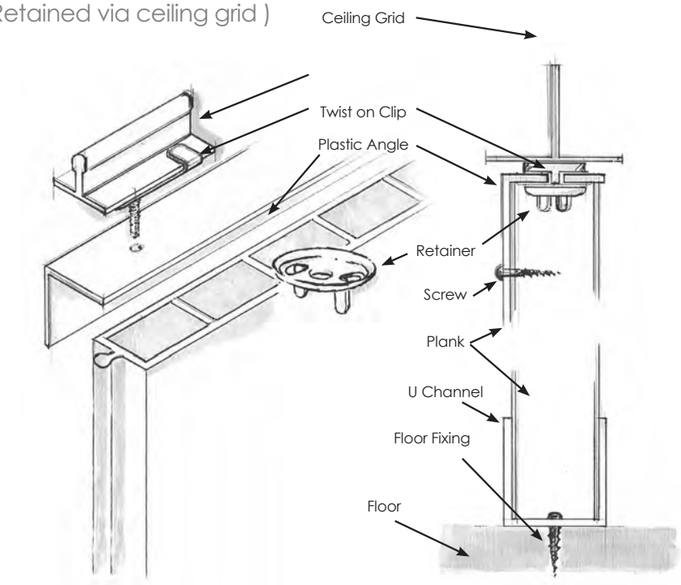
7. Fixing to the metal ceiling grid is possible by using steel twist clips and thumb turn ‘wing nuts’ through a perimeter rail.

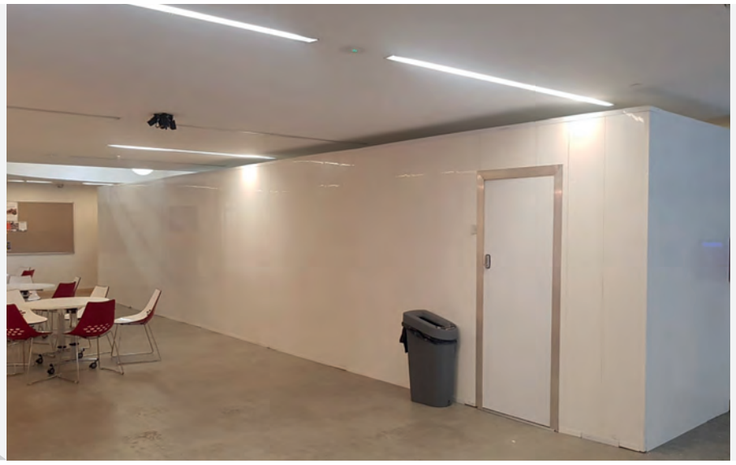
8. The recommended and tested device for up to a maximum distance between top of wall and ceiling of 1200mm is the Extender module. This projects out from the top of the panelling, having a moderate length within it for bracing and extends up to the structural ceiling where it can be fixed securely.

9. Flying Braces: Failing any other method, an angled brace could be constructed for those awkward jobs, placed at a higher level above head height and fixed near or to the top of the wall, provided there is a means of fixing for the other end of the brace.

Floor to Ceiling System

(Retained via ceiling grid)





Site - Queen Mary University / Client - Swindon Interiors

6 Fitting Radius Corners

1. Radius Corners are formed from a single curved module which when slotted together can make a 135° angle (two modules) or a 90° angle (four modules). These are used to form a more pleasing alternative to the usual standard sharp corners.

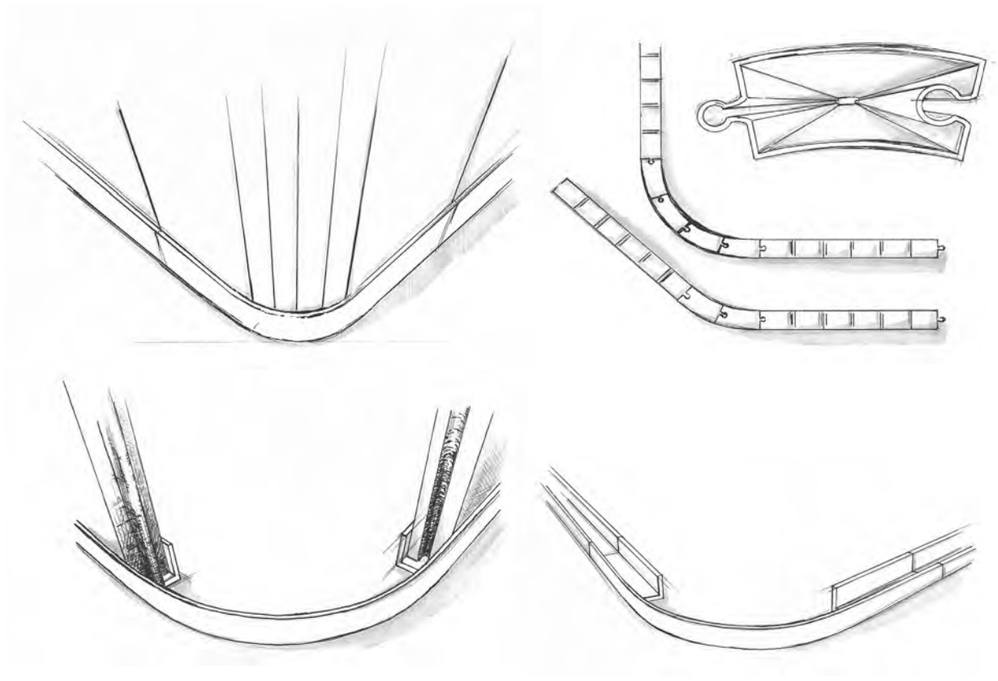
2. Additional curved modules can be added to extend the form and can be combined with other panel modules to produce even more attractive shapes which will enhance their otherwise functional purpose.

3. The Perimeter Rail needs to connect a wall construction together in a continuous fashion. In order that this continues where a radius corner is situated, a short section of Rail requires to be modified to facilitate this.

Construction Notes

1. Check the delivery of the radiused Corner assemblies; or if assembled on site, the separate modules and any other components with the Plasloc component list to make sure all are present.

2. The basic 90° and 135° radiused corner assemblies should be delivered as ready assembled, only requiring the placing of the assembly in its allotted position. Larger more complex shapes can either be fully assembled or sectioned up to be re-assembled on site.



3. The assemblies' positions should have been marked out on site, assuming that they are part of a larger scheme.

4. The Radius Corner Perimeter Rail section will be laid down together with all the other Perimeter Rail sections as described in Section 1 and Section 4, which both describe the standard wall construction.

5. The Corner assembly is to be fitted along with the rest of the wall modules ensuring that the Perimeter Rail, both straight and curved section, are all pop riveted or screwed to the panels to make the Rail connection continuous.

6. The Perimeter Rail is to be similarly fitted and fixed to the top of the wall.

7 Fitting low level system

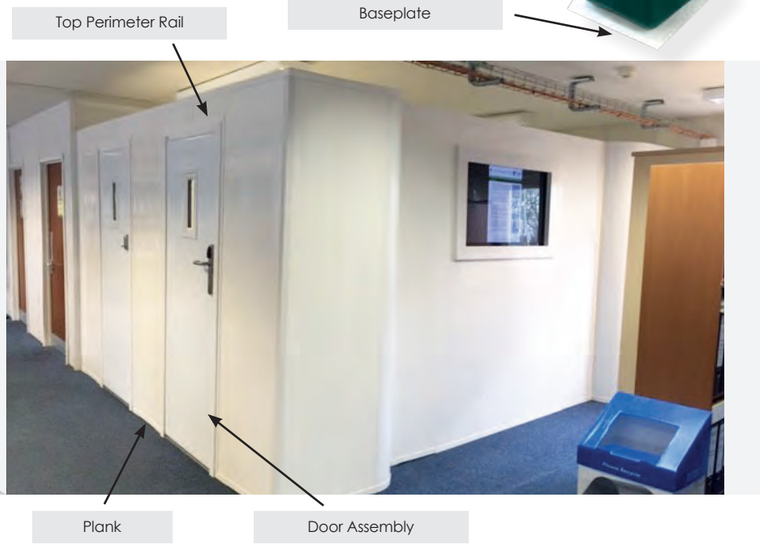
The Low Level system is for those situations where some minor alteration or refurbishment is being undertaken but the extent and nature of the work does not warrant a high hoarding, rather a means of discreet separation without loss of sightlines. This utilises the same water bottle weighted Baseplates as the standard full height system.

Site - Iveshead School / Client - Willmott Dixon

Restricted Headroom:
Restricted headroom height is determined here as below 2700mm

Fitting Extended Height Hoarding:
This is where the hoarding wall is not a standard 2400mm high wall but one that goes up to a higher level.

Suspended Ceiling:
A suspended ceiling is a false ceiling either of a plasterboard on timber boxing variety or a metal framed panelled ceiling suspended on wires from a higher structural ceiling.



Site - Wineglass, Heathrow T4 / Client - Balfour Beatty

Recommended essential Tools & Equipment

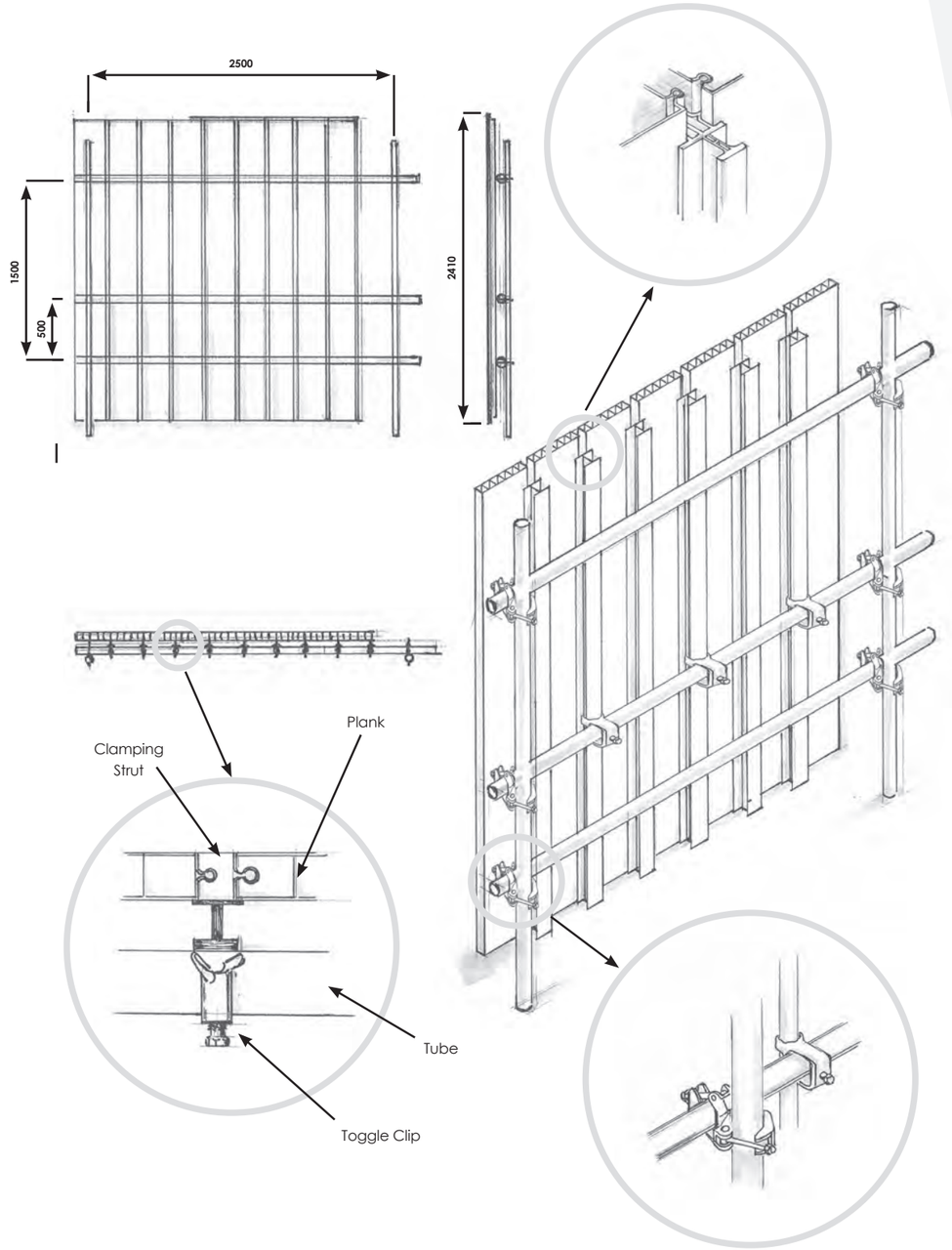
Electric drill	Spirit levels	Chalk & other markers
Power Hand tools	Cleaning materials	

Plasklad fitting and installation guide

1 Introduction

Plasklad brings together todays technology with old world scaffold products and techniques. Using light weight PVC boards fixed to traditional scaffold giving a clean and safe screen which gives an improved appearance to construction sites.

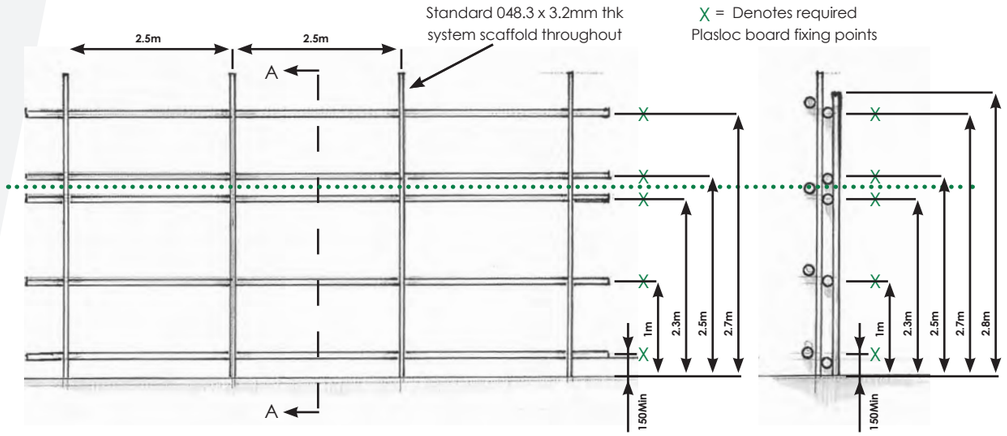
- Plasklad Fitting Guide



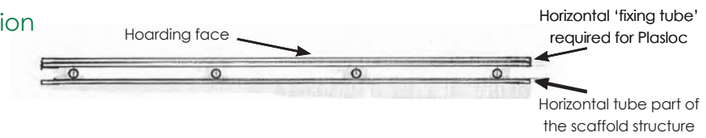
2 Preparations

Prior to Plasklad being installed it is necessary to ensure that there are three horizontal rails of scaffold to which the PVC boards can be fixed, as per the below diagram 1.1.

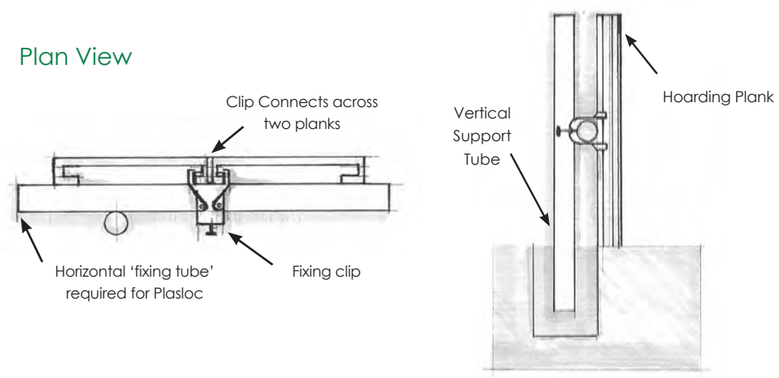
1.1 Hoarding Support Assembly



Side Elevation



Plan View



3 Preparation for Installation

1. The ground/floor is marked out with reference to the given drawing or diagram, in a removable medium such as chalk, a string line to show the position of the hoarding. The dimensioning for the panelling must be understood and the marking out must be accurate.

2. Any gate or door areas should be marked so as the correct spacing can be achieved.

3. Details of the design and height of the hoarding wall should have been noted as to whether it has additional requirements to the normal standard Plasklad system. For instance if the height is non-standard; perhaps less than the normal 2400mm system height or much more than 2400mm. Beyond the standard height additional horizontal tubes will need to be fitted

4. Any obstruction not noted originally should be identified and the proposed layout checked to see if this creates a problem. This is to include service covers, trenches or gulley. Remember although the PVC boards are not conductive the metal scaffold is.

4 Installation

1. 300mm wide Boards are retained with Clamping struts and the clamping struts are fixed to the horizontal scaffold tubes using no less than three steel clips per clamping strut. Any gate or door areas should be marked so as the correct spacing can be achieved. Position of changes in direction i.e. corners should be taken into account so as to minimise the need to cut boards.

2. Once it is established the starting point take a clamping strut and place vertically against the scaffold with the tee section touching the horizontal tubes.

3. Depending on the clip design used, whether toggle clip with bolt or plastic toggle.

4. The toggle clip is placed over the horizontal tube with the jaws clasping the back of the tee section, then finger tighten the bolt. Repeat for the other clips.

5. The plastic toggle is placed with the feet located at the back of the tee section and pull the plastic toggle over the horizontal tube to snap in place.

6. The board is offered into the location groove and a second clamping strut is located to the opposite side of the board and retained with clips. Repeat this process for the full length of the run.

7. To finish use a flat utility board at the base and an L shaped kicker at the top, these are fixed using screws suitable for plastic components, screwed every 300mm into clamping strut.

Site - Old Palace Yard / Client - Vinci

Disclaimer Statement:
Scaffold provider must take into consideration additional wind loadings that will be incurred once scaffold is clad.

Recommended essential Tools & Equipment

Electric drill	Spirit levels	Chalk & other markers
Power Hand tools	Cleaning materials	17mm Impact Nut Driver

Site - Farnborough Shopping Centre / Client - Symbiotic

JUSTONEOCEAN

Plasloc to donate ALL funds received from recycling products to charity

A hoarding solutions specialist with its eyes firmly on the damage plastic waste is doing to the environment has pledged to donate all funds received from the recycling of its products to charity.

Plasloc, a patented, sustainable and freestanding PVCu internal and external cladding system is supporting Just One Ocean, a charity committed to preserving the ocean for future generations.

And with around eight million tonnes of plastic is being allowed to get into our oceans every year and having a terrible impact on ocean wildlife and the environment, the Newton Abbot-based company are hoping their pledge will help the fight.

"We have always had a keen interest in the environment and the impact plastics are having on it and we are proud to be supporting Just One Ocean," explained Plasloc's Director Leigh Matthews.

"Plasloc is a patented hoarding product predominately made from plastic, we primarily operate on a hire basis to maintain our zero-waste policy and all our products are sent for recycling at the end of their life and extruded back into next-generation Plasloc boards.

"As we make an income from the plastic that is collected for recycling we are donating all monies made on the recycling of our products."

David Jones, founder and CEO of Just One Ocean commented: "Plastics have changed our lives for the better in numerous ways.

"However, at the same time, we have neglected to consider the 'end of life' of many products and this is having a devastating effect on the environment.

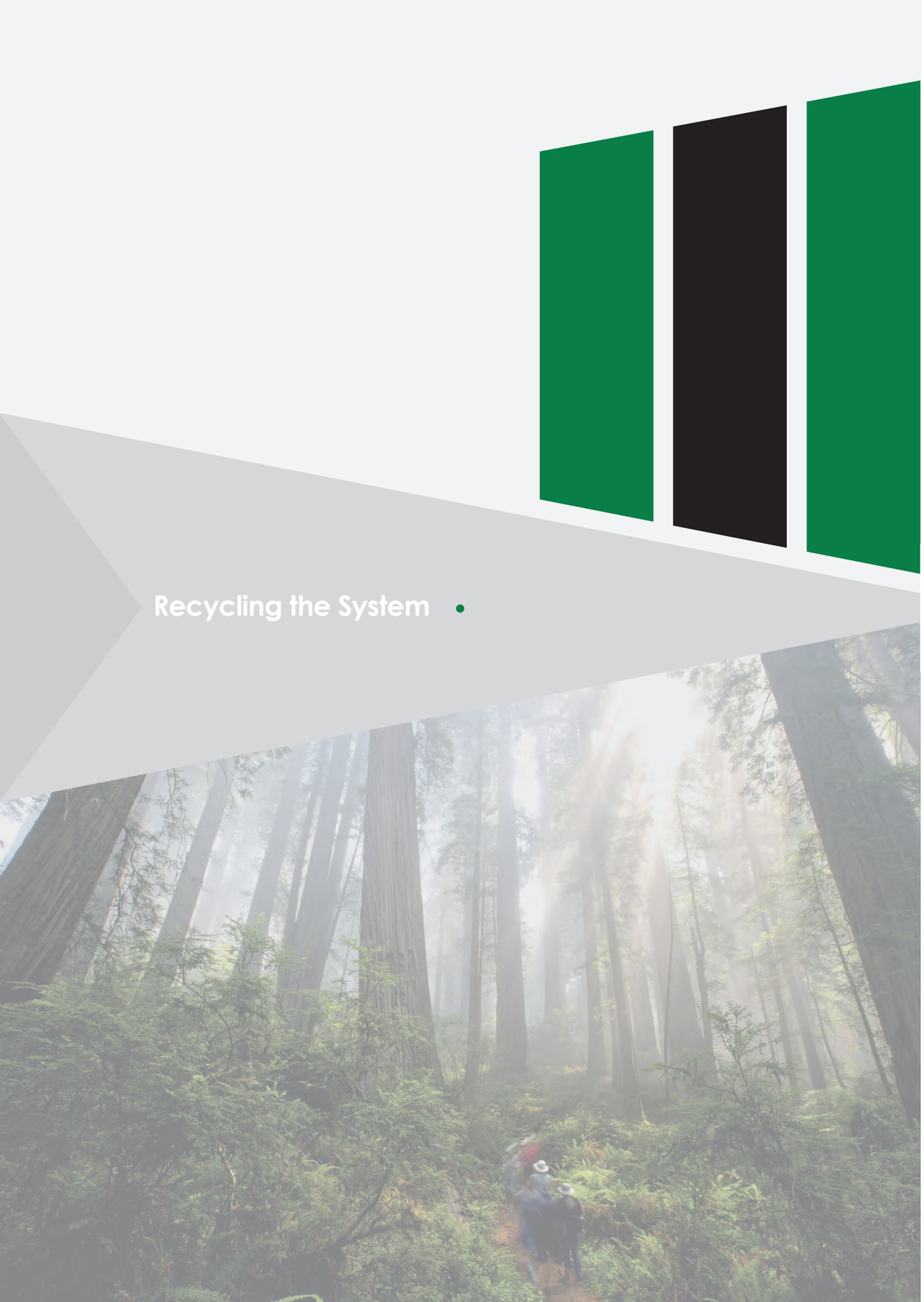
"The management of plastic products throughout their life cycle is critical if we are going to resolve the plastic pollution issue.

Just One Ocean

Just One Ocean

Just One Ocean

"Through the development of their zero-waste and recycling policy, Plasloc are doing what they can to address that problem by working with plastic products in a more sustainable and responsible manner."



Recycling the System

Recycling the System

Site - Microsoft HQ / Client - Weatherhead

Recycling

Our system has been designed to use 100% post-consumer recycled PVC-U. It is manufactured in a closed-loop system using UPVC-U Plastic which generates 120kg of C02, reducing carbon emissions by 90%. The locking system means assembly requires no mechanical fixing, drilling or cutting, limiting board damage, and improving life expectancy. End of life granulation and recycling into the next generation of product.

After each hire project our systems will be taken back to the warehouse and checked for re-usability. Each item will have a date stamp and warehouse number, so we know when and where and how many times it has been used.

Please note we do offer a 10% buy back on purchased materials which is subject to survey.

Operational Carbon Neutral

During December 2021 we proudly achieved certification for being 'Operational Carbon Neutral' making us unique from our competitors.

With the construction sector being one of the largest producers of emissions and following COP 26 which took place in late 2021 there has never been a more poignant time for the UK to focus on achieving 'Net Zero' by 2050.

Our group have conducted a comprehensive review of our business emissions looking at operational costs such as heating, diesel, electricity usage, as well as water, waste, and employee travel to and from work. Consequently, our greenhouse gas emissions were calculated.

To rebalance the organisation's operational greenhouse gas emissions verified carbon credits were purchased.

Those credits are supporting a two-project blend of offsets from a Gold Standard wind project and a Verra CCBA forestry project, meaning hectares of forest will be protected mixing biodiversity protection and restoration with fuel switching to renewable energy. Our group remains committed to maintaining carbon neutrality, helping to achieve the UK 'Net Zero' goal by 2050.

Plas-Shop

Hoarding & Screening Online Innovations

T: 01626 241 124
T: 0800 195 6574
E: sales@plas-shop.com
W: www.plas-shop.com

Devlex House . Silverhills Road . Decoy Industriual Estate . Newton Abbot . Devon . TQ12 5ND

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