



WILLIAM
MORRIS

WILLIAM MORRIS

Legal & Corporate Communications

**Construction Management Plan for Alma Mill, Crompton Street
Macclesfield, OL7 0TL**

**For
Nu-fit Design Ltd**

William Morris Project No. 11-0855.01

**This Report was issued in January 2025 and prepared by:
William Morris Environmental Consultant, Sheaf Street, Leeds, LS10 1HD
Tel: 0113 245 9487**

Project Details	
Name	,
Address	Crompton Street, Macclesfield

CMP	Prepared By	Reviewed By	Approved By
Name	Rich Ashcroft	Adam Jones	To be approved by Cheshire East Council
Signed	R.A	A.J	
Date	22nd January 2025	22nd January 2025	

Issue	Date	Reason
A	22nd January 2025	Issue for discharge of planning condition

CONTENTS

Introduction	Page 4
Scope of Works	Page 4
Logistics	Page 5
Noise	Page 6
Vibration	Page 7
Dust	Page 7
Safeguard against risk to reptiles & mammals	Page 7
Pest Control	Page 8
Waste Management	Page 8
Waste keeping the perimeters clear at all times	page 9
Impact of dust & air quality	page 10
Implementation & Review	Page 10
Display key contact details	Page 11
Contacting the local authority prior to work	Page 12
Parking strategy	Page 13
Impact of lighting	Page 14
Structural stability of the mill	Page 15

APPENDICES

Appendix A - Site Logistics

Appendix B - Smart Fencing & Hoarding

1.0 INTRODUCTION

Nu-fit design Ltd is trying to approve planning permission for the proposal of an extension and change of use of ?.

The Site is located at 11-19 Bolton Street, Bury, BL9 0EY which is primarily a mixed use area.

The Client and the Project Team are committed to undertaking the proposed development in an environmentally responsible manner in order to minimise disruption to the surrounding area. This Construction Environmental Management Plan (CEMP), prepared by William Morris, is designed to set out the standards of construction logistics and practices that will minimise, if not eliminate, the impacts of the proposed demolition and construction works upon the local environment and local community surrounding the site.

This document has been prepared to satisfy any proposed planning condition which may need to be discharged prior to commencement of the construction works. All construction shall be undertaken in accordance with approved building regulation details unless otherwise agreed in writing by the Local Authority as all details are required to be submitted prior to the commencement of development to provide adequate information and satisfactory detail in the interest of highway safety, the ecology of the site, and to protect the amenities at present enjoyed by the occupiers of nearby properties.

William Morris operate an Environmental Management System (EMS) which meets the requirements of ISO14001:2004 by a UKAS approved certification body, BM TRADA (certificate no. 1133). (see appendix A – ISO 14001 certificate)

It is our intention to apply our EMS to the project to identify and control environmental risk and ensure legal compliance. All staff directly involved in the project will be trained on the requirements of our EMS.

2.0 SCOPE OF WORKS

The development comprises a proposed Second floor/roof extension to form 9 no. apartments and increase in retail space to ground floor (02955E). The site is surrounded by a mix of commercial and domestic properties to North, West & East from the location of the proposed development.

The initial scope of William Morris works relates to the refurbishment of the old property building (encircled in red above). Following a decant period the next phase would comprise the erection of the new structure and then completion of external works.

The works have been split into the following phases:

Phase One – Refurbishment of old mill

Phase Two – Decant period

Phase Three – Erection of new building, and formation of hard / soft landscape.

The site will be segregated from the live commercial & domestic using secure fencing that will be inspected daily for security and safety.

3.0 LOGISTICS

The management of logistics for the site is critical to ensure that disruption to the local community is kept to a minimum, as well as ensuring that busy periods during start and end of the school days are not exacerbated by construction deliveries / vehicle movements.

During construction it will be required that 24 hour security is provided on site to meet the requirements of the Fire Risk Assessment for the construction of timber framed buildings within the mill.

Deliveries will only be accepted between 07:30am - 8:15am, 9:15am – 3:00pm and 4:00pm – 6:00pm (in accordance with condition 7 of the planning decision) and 07:30am – 1:00pm on Saturdays, there will be no working on Sundays and Bank Holidays.

All deliveries will be scheduled through the designated site team by the client, with the Gateman being made aware prior to the arrival of deliveries, this is to ensure that a banks-man is available to control the access and egress of vehicles. A **segregated parking area** on site has been established (see Appendix A – site logistics) following discussion with the neighbouring commercial properties to reduce impact on the local community of site operative's car parking in residential streets nearby.

Access to site for delivery vehicles **will be via ? Street**. This is to reduce the impact on all neighbouring Roads. Due to tight site access some neighbouring Roads may be used under instruction of the site team.

At the commencement of the project, all site compound/working areas are to be securely fenced off with temporary Heras fencing to HSG 151. Temporary fencing is to be erected to the perimeter of the site, along with temporary gates to the site entrance principally as indicated within **Appendix A**.

The contractor must ensure all fencing panels are in a good condition and maintain the same throughout, with all perimeter fencing to regularly inspected and maintained accordingly. The contractor is to provide all necessary signage fixed to fencing in accordance with HSE Guidance/requirements.

4.0 NOISE

Normal working hours are Monday to Friday 7:30am – 6:00pm and Saturdays 7:30am to 1:00pm, Best Practical Means as stated in BS 5228-1 and 4: 1997 and EC and UK Noise Legislation, as applicable, will be implemented throughout the course of the project. Where noise related activities are planned to exceed the stated working hours then the Environmental Health Officer will be consulted prior to commencing works.

The method of construction specified reduces the noise compared to typical construction methods. The building is currently constructed from brick built solid brick walls.

Noise will be monitored by taking point readings during each phase of the construction and demolition works at locations to suit the specific current operational activities. Noise monitoring will be carried out twice daily with records maintained, an example of a noise monitoring plan specifying locations is below:

Where noise levels recorded exceed 65dB(a) then the following applies:

- A further reading will be taken
- If the reading is > 65dB(a) noisy site operations will cease.
- If the reading is < 65dB(a) a further reading will be taken 1 hour later.
- Should sequencing of site operations be unable to achieve a reading of 65dB(a), further investigation will be undertaken to consider this against the 65 L(aeq) limit. Where the limit may be breached the LPA will be consulted.

All plant and vehicles associated with the construction phase will be fitted with appropriate silencers etc.

5.0 VIBRATION

The risk of significant levels of vibration from plant and equipment is considered low, plant and vehicle movements will be on engineered haul roads and working platforms wherever possible minimising vibration. Plant used will be of a medium size, vibration risk from construction has been reduced significantly by the majority of work being undertaken within the envelope of the building.

Vibration from plant and equipment will be minimised by turning off plant when not in use and by regular inspections and maintenance.

5.0 DUST

The site management team allocated for the project by the client will ensure that Best Practical Means in relation to dust control will be implemented during the project. Wheel washing facilities may be used to reduce dust on roads that is generated from mud from the site, road sweepers may also be used where the site cannot accommodate wheel washing. Where wheel washing is used this will be located within the construction site area and will be detailed on traffic management plans to suit the operational needs.

Construction Phase

Dust from general construction activities will be from the movement of plant on site, and dust created in windy conditions from stockpiles. Plant and vehicle movements will be on engineered haul roads and working platforms wherever possible minimising dust. Dust arising from construction activities will be monitored and damping down will be employed as required to reduce the amount of dust during dry weather periods. Seeding of stock piles may also be carried out to reduce risk of dust from stock piles.

Demolition Phase

Dust from demolition activities will be controlled by point source dust suppression techniques, as well as damping down of stockpiles to prevent dust emission during dry, windy conditions.

6.0 SAFEGUARD AGAINST RISK to REPTILES & MAMMALS

The site management team located to the project by the client will have to ensure that Best Practical Means in relation to safeguard against risk to reptiles and mammals will be implemented during the project. With the potential for reptiles / mammals to be encountered from areas surrounding the site during construction project although the risk deemed as being low, the following precautions will be applied:

- Site fencing will be in place to segregate the construction / demolition areas (see appendix b). Hoarding will be of smart hoarding type this will form a large exclusion zone during construction. During demolition Visqueen or similar at the base will be used to form a barrier.
- Educate all site operatives, particularly ground workers and demolition contractors, on the potential for reptiles during Induction and Toolbox Talks ensuring they understand the actions to take.
- If reptiles/mammals are identified, works in the area are to cease immediately and William Morris will be notified.
- B&K Site Management Team will report issue to a registered ecologist (Ecus) for advice / action to take.

7.0 PEST CONTROL

The contractor shall take the necessary measures to ensure proper control of rodents. The following measures should be followed, as a minimum:

- Seal all disused drains and sewers correctly
- Keep records of all the action taken and approvals received
- Treat any pest infestation efficiently and effectively, and inform the Local Authority as soon as possible.
- Make sure that no rubbish or rotting material builds up on the site. Where relevant, ensure that caterers pay careful attention to:
 - A. Delivering food
 - B. Handling and storing food and
 - C. Storing, collecting and getting rid of waste food and associated material.

8.0 WASTE MANAGEMENT

Waste Hierarchy

Bowmer & Kirkland will manage waste and develop a SWMP in accordance with the waste hierarchy. Specifically the amount of waste produced will be minimised by the use of offsite construction techniques. Waste that is produced will be considered for reuse prior to consigning for recycling or disposal.

Construction Waste - Waste from construction activities will be disposed of through a licensed waste management contractor. Contractors will be appointed based on their performance of recycling of mixed waste.

Demolition Waste - Waste from demolition will be segregated on site and sent for re-use / recovery with the exception of asbestos contaminated materials.

Excavation Waste - Waste from excavations works will be retained on site for use to reinstate playing fields on completion of demolition works. Excess / contaminated soils will be removed from site as a waste.

The following principles will be employed:

Pollution from waste will be minimised by using the correct and safe storage of the waste:

- Segregation different types of waste as they are generated.
- Marking of waste containers clearly with their intended contents.
- Using containers suitable for their contents.
- Disposing of different wastes in the correct containers.
- Checking the condition of waste containers before use.
- Placing containers in impervious bunded areas (if required)
- Ensuring that containers are securely covered (If required)
- Preventing damage to materials during storage.

Prior to removal of any waste from site Bowmer & Kirkland will carry out the following checks:

- Check that the carrier's licence is valid.
- Check that a copy of the carrier's licence is recorded within the site documentation on-site.
- Ensure the waste carrier is authorised to carry the type of waste for disposal.
- Check that the receiving site is appropriately licenced.

Once the checks are completed and in place Bowmer & Kirkland will:

- Complete transfer notes accurately and in full.
- Keep copies of all transfer notes of waste sent off-site.
- Check that the waste is going to the correct disposal centre as documented on the transfer notes
- Ensure skips are covered when leaving site to prevent debris on road

It is a requirement of the waste carrier to ensure that waste containers are safe and covered prior leaving the site to prevent deposit of debris on public highways. The B&K site team will monitor to ensure that skips are covered prior to removal.

9.0 WASTE KEEPING THE PERIMETERS CLEAR AT ALL TIMES

These are very important matters for residents, and contractors should take the necessary measures to keep the surroundings clear and tidy at all time. Any dust arising from the ground/site conditions prevalent in dry spells and generated by wind and plant traversing the site, will be controlled by suitable water suppressant/spraying water over the ground from a water bowser as required. The site manager/site staff are to monitor weather conditions, prevailing winds, and site conditions and implement dust suppression as required to avoid causing nuisance to neighbouring properties etc. Follow and maintain these simple steps to enhance the appearance of the site:

- Provide slatted smart hoardings to prevent fly-posting
- Provide graffiti resistant surfaces
- Reduce secluded areas where antisocial behaviour can take place
- Provide adequate lighting along your hoardings should walkways or footpaths be out of sight
- Implement a daily checking regime and a dedicated resource to make sure graffiti and fly-posting are removed as quickly as possible
- Define access routes to and from site to keep them safe and free at all time
- Communicate delivery times to suppliers and ensure they are suitable for the local

community

- Make arrangements to ensure roads around the site remain clean and safe e.g. road sweeping or wheel wash facilities on site
- Install a wheel wash by the access/exit points to keep roads clear of debris and mud, reducing risks for other road users.
- Wheel washing facilitates (pressure washing facility) will be created at the entrance to the site, principally as indicated on the construction site management plan. All vehicles leaving site will be inspected, and wheels to be washed as required to prevent mud/debris being spilled onto the roads. The roads will be inspected/monitored on a daily basis and if required a road sweeper will be implemented.

10.0 IMPACT OF DUST & AIR QUALITY

Control the impact of dust and air quality for a better environment for the wider community.

- Air quality risk assessment & Plan should be undertaken before starting on site
- Reduce dust using Best Practical Means (BPM) i.e. cover stockpiles, sheet vehicles.

Any dust arising from the ground/site conditions prevalent in dry spells and generated by wind and plant traversing the site, will be controlled by suitable water suppressant/spraying water over the ground from a water bowser as required. The site manager/site staff are to monitor weather conditions, prevailing winds, and site conditions and implement dust suppression as required to avoid causing nuisance to neighbouring properties etc.

11.0 IMPLEMENTATION and REVIEW

The control measures identified in the CEMP, and sub-ordinate documentation, will be implemented by the following means:

- Relevant information will be communicated to sub-contractors before an order is placed during a pre- contract meeting. An order will only be placed with a sub-contractor following a commitment that they will work to the control measures specified. Where they are required to appoint specific plant, equipment or specialist resources this will be stated in their contract.
- Sub-contractors will be required to submit a detailed method statement for all works they undertake stating detailed control measures. This will be reviewed and authorised by the Site Manager prior to the commencement of operations.

- All sub-contractors will be required to monitor their own works and provide a permanent on-site Supervisor. Where many operatives are provided Supervisors will be required at a ratio of 1:8 with site operatives.
- All site operatives will be required to attend a site induction before undertaking any work. The induction will be conducted by the Site Manager and will include all control measures site operatives are required to work.
- Access and egress from the site for operatives and deliveries / collections will be controlled by a gateman who will be supervised by the Site Managers.
- The Site Managers will walk the site daily to monitor the works and implementation of the specified controls. Where actions are required to further implement controls these will be raised with the sub- contractor's supervisor. If required they may use a red / yellow card disciplinary and or toolbox talks to improve the implementation of the specified controls.
- Any incidents or visits from regulators will be reported to the Group Quality & Environmental Manager by the Site Manager.

In addition to the monitoring described above, the implementation and effectiveness of controls will be reviewed as follows:

- The Site Manager will conduct an inspection on general good order and security on a daily basis.
- The Site Manager will conduct an inspection of all environmental controls on a fortnightly basis, this will be alternated with the external inspection described below.
- The site manager will also conduct an inspection of all environmental controls on a fortnightly basis.
- The Contracts Manager or Regional Director will conduct an inspection of environmental controls on a monthly basis.
- The Quality & Environmental Manager will ensure the project will be audited for compliance with our Environmental Management System, controls which have been specified and legal requirements at least once during the project.
- A project meeting will be held on a monthly basis, to be attended by the Site Manager and Contracts Manager, to review the results of the above monitoring and inspections. The effectiveness of the specified controls will be considered and any actions required to improve the overall environmental performance of the project agreed and documentation updated accordingly.

12.0 DISPLAY KEY CONTACT DETAILS

One of the main causes of complaints that local councils are dealing with is the lack of information as to who to contact when an issue arise from a construction site. When setting up a site a Contact Board shall be displayed prominently; this is to ensure that problems can be rectified quickly, and that residents and others can channel their questions and complaints to a member of staff who has the authority to take action. The Contact Boards should include the following information, as a minimum:

- Name of the main contractor, address and person to whom correspondence should be addressed.
- Name of the site manager.
- Month and year of completion of works.
- Names and telephone numbers of staff who can take immediate action, so that contact can be made at any time.



13.0 CONTACTING THE LOCAL AUTHORITY PRIOR TO WORK

The Contractor shall contact the Local Authority Environmental Health Department to consider a Section 61 agreement (under the Control of Pollution Act 1974) if:

- the site is located close to any potentially noise sensitive receptor (i.e. residents,

offices, schools, religious centres, hospitals)

- Works are to be carried out outside the following working periods:
Monday to Friday 08.00 to 18.00 / Saturday 08.00 to 13.00 (or otherwise specified in planning conditions)
- The works are likely to cause disruption to neighbours even if within “normal hours”
- The contract or planning conditions outlines restrictive noise levels or permitted hours of working.

It is recommended to contact the Environmental Health Department well in advance of the project commencement date. This is so that you can discuss with them the detail that you will be required to submit as part of your application (enabling and setting-up phases are usually excluded).

To assess the impact of noisy work baseline levels of ambient noise and vibration on the Site boundary should be established. This data may be available from work carried out for the planning application stage of the development. The measured noise and vibration data should include results for time periods during which the works will be carried out.

If works are to be undertaken outside normal working hours, the Contractor should implement an out of hours permit system, to be agreed with the Local Authority. The permit should include, as a minimum, a list of activities planned out of hours, plant and equipment required, proposed hours of working and site based contact details. An example is provided opposite.

14.0 PARKING STRATEGY

A travel plan and parking strategy will reduce the likelihood of complaints, enhance your corporate image and increase the efficiency of your operations

- Minimise the impact of deliveries and parking by developing a travel plan & planning site logistics before you start construction.
- When you plan works check details about proposed and current road-works and street related events.
- Promote greener travel choices to employees such as walking, cycling and public transport
- Inform your workforce and project staff where the nearest bike docking stations are located.

- Display maps of nearest bike docking stations
- Inform residents, visitors and staff when roads and routes are diverted
- Consider offsite construction and partnering to reduce deliveries of materials and wastes.
- All contractors vehicle will park within the site compound in a designated parking area, available for both visitors and site operatives. Signage will be erected advising/designating where parking is available.
- All materials and plant will be stored within the fenced site compound area. A designated area has been allocated for the storage of materials which are to be stored in a safe and orderly fashion. Wherever possible, materials will only be delivered to site when they are required. No flammable materials will be stored near the site boundary fencing.
- Secure site cabins are to be provided for the storage of equipment and materials requiring protection from the weather (i.e. cement, plaster, etc.).
- Plant will be stored so as not to create obstruction, keys shall be removed when not in use and isolators if fitted will be activated. Should any fuel need to be stored on site for plant this will be housed in a double skinned bunded tank.

14.0 IMPACT OF LIGHTING

Lighting improves relationships with the neighbours. The contract needs to consider sources of light pollution (unwanted lighting) during planning & design. Lighting pollution is considered a statutory nuisance, especially at night and during darkness hours in winter. Hazards include dazzling traffic and disturbance to wildlife.

- Check the direction of lighting
- Ensure no reflection issues off surfaces which could affect areas outside the site
- Where possible lighting should be switched off to avoid disturbance.
- Consider installing timers

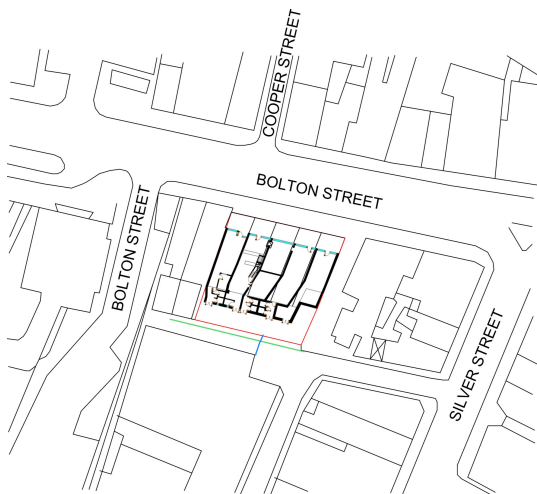
15.0 STRUCTURAL STABILITY OF PROPERTY

Both Nu-fit Design Ltd and Elysium Structure Ltd have agreed, in documentation accompanying a building regulation application post approval of planning permission, that no further structural stability works would need to be undertaken given the fact no proposed structural works will actually take place upon the existing structure.

Any proposed repairs, none of which have been identified by Elysium Structural Ltd, will be undertaken unless and once a method statement by Elysium Structural Ltd has been submitted and approved by Bury Council.

During the period of works a CDM co-ordinator will be on site providing the contractor advice in respect of construction health and safety risk management matters and to ensure compliance of the design and the designers with CDM2007. During works safety netting would be draped alongside all 4 elevations so as to keep the surrounds safe in matters related to health and safety.

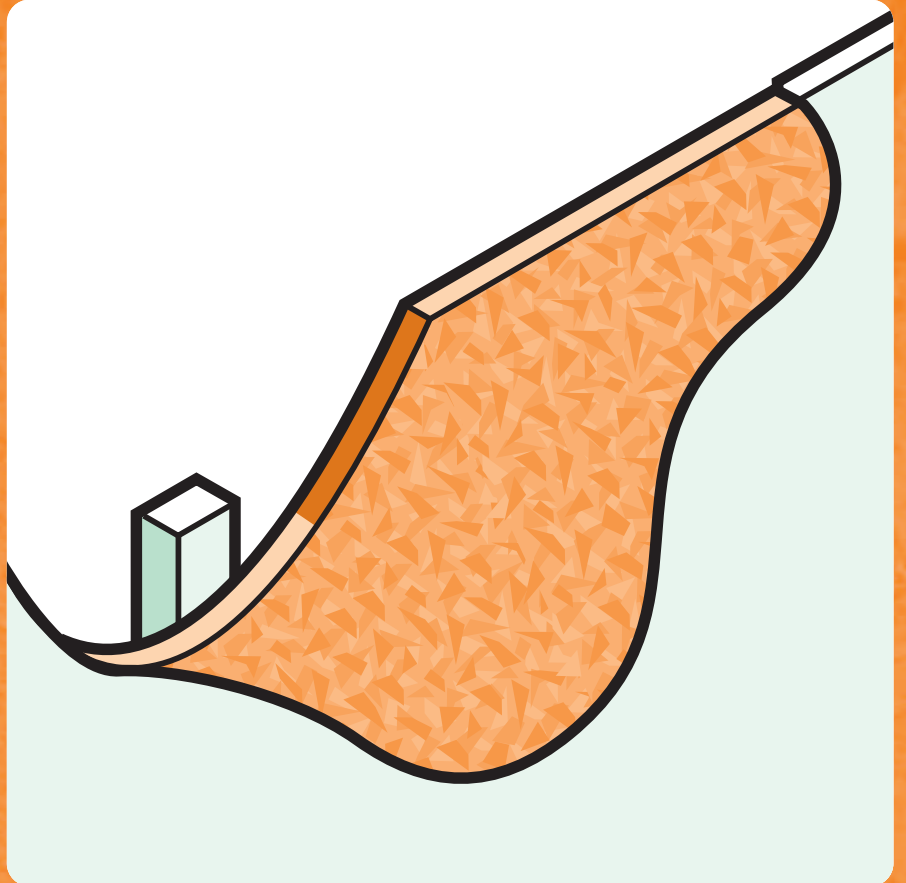
Appendix A



- Maintained Access Routes
- Vehicle Gate
- Gate House

SmartPly[®] Hoarding

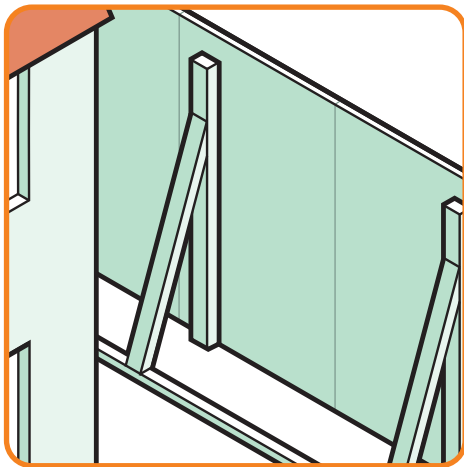
The Smart Answer ☒ for Site Hoarding



designed for use in a variety of
hoarding applications and available in
a variety of thicknesses, dimensions
and different grades

smart hoarding

SmartPly have developed a range of cost effective site hoarding products designed to suit individual requirements, from disposable temporary hoarding to durable, re-usable high profile applications.



defect free and easy-to-use

SmartPly has no structural defects, such as knotholes and core voids, and is easy to work with. It cuts easily, will not delaminate, and can be bored, routed and planed with consistent results. Panels can be nailed 10mm from the edge without splitting or breaking out – critical to structural applications.

smarter, easier hoarding

SmartPly engineered OSB2 and OSB3 hoarding boards, when constructed on a timber framework support, have superior strength and stiffness to provide a long lasting and robust barrier to the enclosure.

zero-added formaldehyde

In keeping with current construction methods of working towards healthier homes, all SmartPly 3 products have been manufactured using zero-added formaldehyde.

smarter products – higher standards

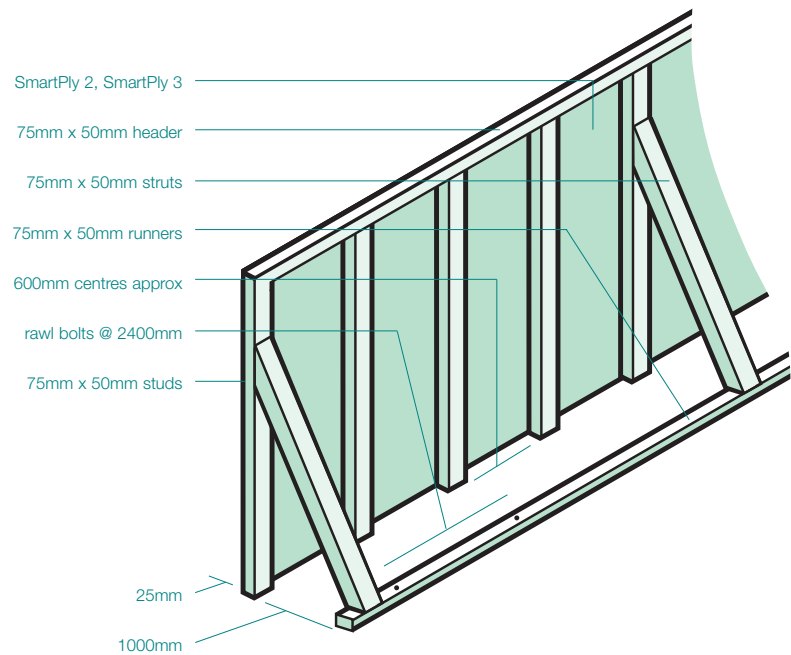
All SmartPly products are manufactured to EN 300 from a structural panel that satisfies standards BS 5268 Part 2, and is approved by the British Board of Agrément (BBA) and the Irish Agrément Board (IAB). Its suitability for structural use is also recognised by Homebond, Local Authority Building Inspectors and the NHBC.

All SmartPly OSB products are compliant with the Construction Products Directive (CPD) for structural use. Every board of SmartPly 3 is marked CE 2+ structural. SmartPly has achieved I.S. EN ISO9001: 2000, the internationally recognised quality management system.

environmentally approved

At least 90% of the timber used in the manufacture of SmartPly comes from well-managed forests, independently certified according to the rules of the Forest Stewardship Council (FSC). All SmartPly 3 products are made with formaldehyde-free resins.

typical SmartPly hoarding erection specification (system A)



selecting the correct SmartPly hoarding

application	product
Temporary or disposable hoarding/boarding, no requirement for re-use	SmartPly 2
Durable hoarding/boarding, requirement for re-use	SmartPly 3

dimensions and thickness (mm)

thickness	length x width	type	grades
11	2440 x 1220	square edge	OSB2/OSB3
15	2440 x 1220	square edge	OSB2/OSB3
18	2440 x 1220	square edge	OSB2/OSB3

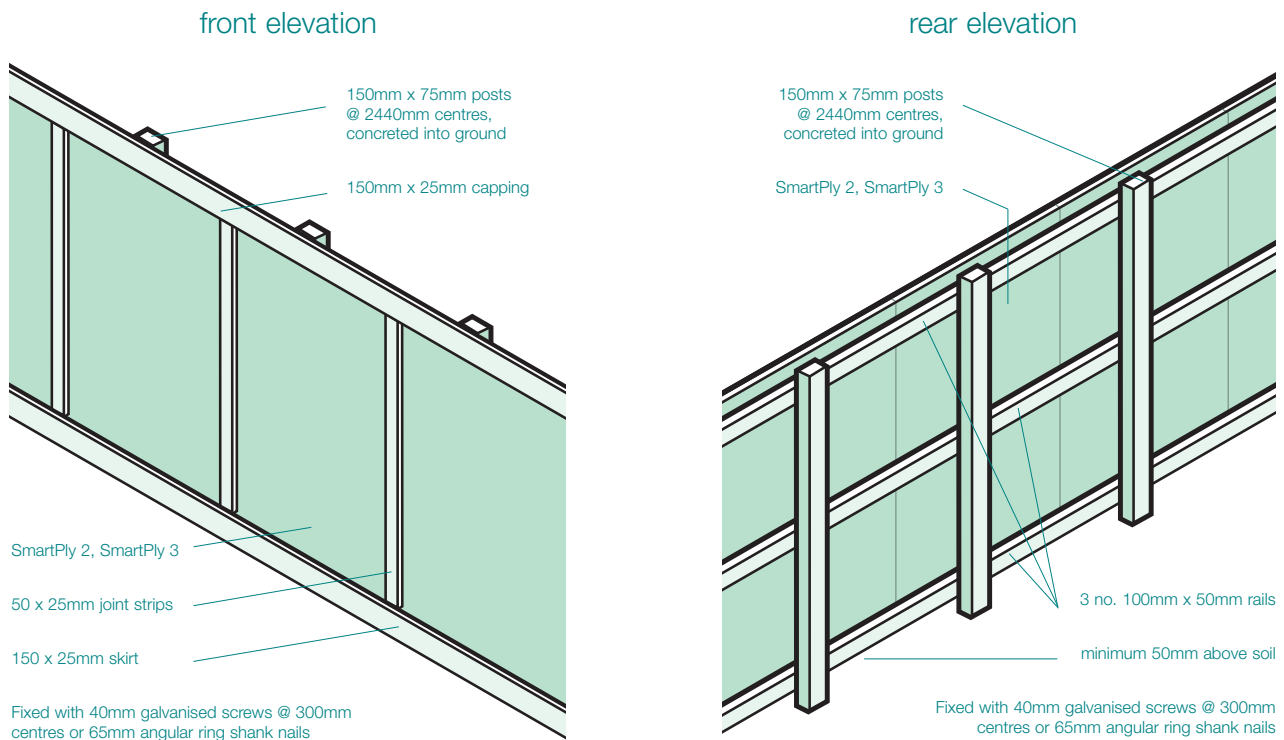
Note: Tongue & grooved panels may also be available on request.

storage and handling

Careful storage and handling is important to maintain panels in their correct condition for use. Boards should be stacked flat, off the ground and on a level surface with all four edges flush. Stacking on the edge should be avoided. Wherever possible, panels should be stored in an enclosed dry building, protected from rain and accidental wetting.

Stack on battens of equal thickness at centres not exceeding 600mm (as per recommendations of BS 7916). Care should be taken to avoid damage from banding. Bands should be cut as soon as practical to avoid permanently deforming the boards. During transport it is particularly important to protect edges and corners with suitable coverings.

typical SmartPly hoarding erection specification (system B)



Note: 3 rails shown in diagram, however 4 rails may be required.

fixings and expansion gaps

As no two projects are alike, it is inappropriate to suggest one particular installation method. SmartPly Europe recommends that your engineer designs the frame. However, some considerations when erecting site hoarding supports include:

- ✓ site location (major/minor thoroughfare)
- ✓ ground conditions (concrete, tarmac, soil)
- ✓ wind speed
- ✓ wind direction
- ✓ duration

complete protection

SmartPly Europe recommend users:

- a) seal edges with primer and/or topcoat fixing holes treated with putty
- b) leave 3mm expansion gap between panels to counter potential differential movement (due to differing climactic conditions). Where the fence is to abut a rigid upstand or a wall a gap of 10mm should be allowed.

Note: It is the specifier's/user's responsibility to ensure that all hoarding and supporting framework meets structural requirements.

Using any reputable paint system, SmartPly offers an excellent finish that caters for most site conditions.

The durability of the panel, is to a large degree, dependant upon the treatment it receives in terms of finishing. This basically means that you can achieve the desired performance required in terms of price, maintenance, aesthetics and life-expectancy based on the quality of paint finish applied.

It is recommended that users consult a technical engineer should a more detailed specification be required.



hoarding solutions

SmartPly OSB comprises of a range of products developed specifically for use in combination with a timber framework, as a secure barrier for construction and temporary works to help prevent towards unauthorized access.

SmartPly 2 and SmartPly 3 hoarding boards, when constructed on a timber framework support, have superior strength and stiffness to provide a long lasting and robust barrier to the enclosure.



SmartPly 3

Conditioned to perform in humid environments, SmartPly 3 is the fully certified alternative to softwood plywood.

It is versatile, strong and cost-effective. Manufactured with exterior resins, SmartPly 3 is suitable for both interior and exterior structural applications.

SmartPly 2

SmartPly 2 is a versatile, strong and cost-effective board, manufactured to EN 300 standard. It is recommended for general non-structural building purposes and structural applications in dry conditions.

It is ideal for applications such as general hoarding and boarding, signboards, packaging, furniture, pallet tops, temporary formwork, garden sheds and many others.

how do I recognise the product?

All SmartPly 3 structural panels are clearly marked with the following information:*

- ✓ **manufacturer's name**
(SmartPly Europe)
- ✓ **european norm** (EN 300 standard)
- ✓ **type/grade of board**
- ✓ **nominal thickness**
- ✓ **major axis**
(direction of laying arrows)
- ✓ **batch number or production week and year, day/shift**
- ✓ **certification mark** (e.g. BBA, IAB)
- ✓ **CE 2+ structural certification**
- ✓ **FSC certification**

* Markings may vary depending on product type

smart quality

certification

SmartPly structural panels meet EN 300, BS 5268 Part 2, and are certified by the British Board of Agrément (BBA), Irish Agrément Board (IAB) and other European certifying bodies. This product is suitable for residential and commercial construction, including prefabricated and modular home applications.

All SmartPly OSB products are compliant with the Construction Products Directive (CPD) for structural use. Every board of SmartPly 3 is marked CE 2+ structural. SmartPly has achieved I.S. EN ISO9001:2000, the internationally recognised quality management system.

SmartPly structural panels can be used for structural applications in humid environments (including kitchens and bathrooms) as defined within the terms of Service Class 2 on ENV 1995-1-1 for load-bearing boards. Also suitable for domestic use as defined in BS 6399 Part 1 for dead and imposed loads for designed joist spacings not exceeding 600mm centres (for 15mm) providing they are in accordance with IAB Certificate No. 02/0093 or BBA Certificate No. 98/3488/C.



SmartPly has full certification from the Forestry Stewardship Council, one of the largest and most credible certifiers of wood producers and has the support of major environmental groups (such as World Wildlife Fund, Greenpeace, and the Rainforest Action Network) as well as key inter-governmental forestry bodies. The FSC certification is the leading internationally-recognised standard that assures buyers of wood-based products that the timber used results from environmentally and socially responsible forestry management.



By buying products with the FSC label you are supporting the growth of responsible forest management worldwide

FSC Supplier Cert no. TF-COC-1572
© 1996 Forestry Stewardship Council A.C.

For more information about any SmartPly product, contact your local merchant.

SmartPly Europe Ltd
Belview
Slieverue
Waterford
Ireland
T: +353 (0)51 851233
F: +353 (0)51 851130

SmartPly Europe Ltd
Hawley Manor
Hawley Road
Dartford Kent DA11PX
United Kingdom
T: +44 (0)1322 424900
F: +44 (0)1322 424920

www.smartply.com **info@smartply.com**

This document is printed on matt uncoated paper, ECF, acid free, recyclable and biodegradable.



Panels

The most attractive welded mesh panel fence available due to its innovative and unique aesthetic appearance in combination with strength and security.

Paladin® Classic

Benefits

Prestigious design

Paladin is the most popular Weldmesh panel due to its innovative and aesthetic appearance.

High performance

Strong lightweight construction with high levels of performance against “cut-through” and climbing.

Excellent through vision

Unique mesh pattern provides clear visibility along the fence line.

Maximum height

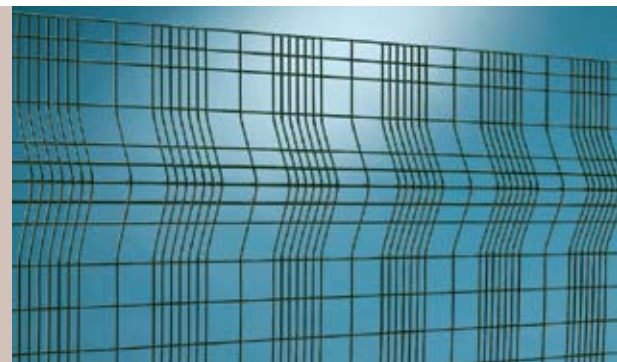
To achieve fence heights above 2.4m the panels are designed for multi-lift erection i.e. one or more panels are placed above the bottom panel.

Wide range of options and applications

Available as a complete system for boundary demarcation to general security and anti-intruder fencing.

Applications

Company premises, Public spaces,
Schools, Retail, Factories, Airports,
Utilities: gas, water, electric
& telecommunications



Panels

The panels are 3000mm wide and heights range from 900 to 2400mm. The panels have pressed 'V' beams which contain additional 4mm wires to give increased strength and rigidity.

Mesh sizes vary to a maximum **50 x 50mm**.

Paladin has sophisticated good looks whilst providing a very secure fencing system.

Posts and fixings

Twilfix 2000 Post System



Twilfix 2000 Post System post is manufactured from 60x60 square hollow sections and fitted with M8 threaded inserts for securing panels. Posts come inclusive of top caps (flat or pyramid shaped top caps).

Panels are fixed using 25 x 5mm flat clamp bar and M8 x 40 Button-Head Trilobe tamper proof bolts.

Security

Paladin Classic satisfies the requirements for Category: 1 (General Purpose) and Category: 2 (Security) fences.

Gates

Swing gates available in single and double leaf configuration with a Paladin or Robusta infill to match your fence.

Coating

Panels are manufactured from pre-galvanised wires. An adhesion coating is applied to allow perfect adhesion with the polyester coating (min. 100 micron). Posts are polyester coated with a galvanised substrate in accordance with Euro norm 10147.

All Betafence powder coated products are tested for adherence to 1000 hour Salt Spray testing according to DIN 50021 (= ASTM B 117 = ISO 9227) + DIN 53167 and conforming to EN 10223 - 7.

Colours

Standard colours are Green RAL6005 and Black RAL9005. Other colours are available on request.

ASSORTMENT PALADIN CLASSIC							
Panels			Posts				
Fence height mm	Height x Width mm	Number of beams per panel	Section mm	Overall length mm	Number of fixings		
					Intermediate	Corner	End
900	925 x 3025	2	60 x 60 x 2	1500	3	6	3
1200	1240 x 3025	2	60 x 60 x 2	1800	4	8	4
1800	1850 x 3025	2	60 x 60 x 2	2500	5	10	5
2000	2000 x 3025	3	60 x 60 x 2	2700	6	12	6
2400	2440 x 3025	3	60 x 60 x 2	3100	7	14	7

Comprehensive installation documents are available by request to our sales office.





WILLIAM MORRIS

Legal & Corporate Communications