

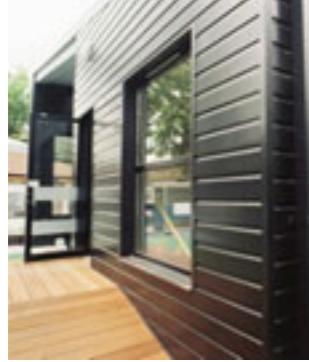
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# Vulcalap<sup>®</sup>

Extruded aluminium weatherboard



**VULCAN**



## introduction

Vulcalap® aluminium components are designed to simulate traditional shiplap weatherboarding whilst providing the traditional superior performance of modern construction materials.

Aluminium is an extremely versatile, lightweight material. Extrusions are designed to give robust and accurate installations. Any size of project will be attended to with the same level of expertise.

### Recyclable products

Aluminium is a highly recyclable product. It requires low expenditure of energy for recycling and once recycled can be used for the same application as before, with no loss of performance. Today 85% of the aluminium used in construction is recycled; rising to nearly 100% for some products.

# Vulcalap®

Extruded aluminium weatherboard

### The system

Vulcalap® weatherboard comprises extruded aluminium planks with unique patented plank end jointing and concealed sliding fittings.

### Manufacture

Vulcalap® is extruded aluminium 6063T6, powder coated to any matt RAL, BS or special colour, or anodised. Supplied in standard 3, 4 or 5m lengths to aid economy and random joining. Up to 6.5m can be manufactured to special order.

### Installation

Vulcalap® can be cut with any fine-toothed metalworking tool or machinery and is fixed to metal or timber battening. Purpose designed fixing accessories must be used. Refer to the drawings and details on the following pages.

### Applications

- Suitable for high rise buildings in exposed locations
- Lightweight weather protection
- Cladding for modern methods of construction

### Advantages

- Wide range of colours available
- Low maintenance
- Non-flammable
- Sustainable and recyclable material

### Maintenance

The powder coated or anodised finish requires only regular cleaning; see maintenance recommendations on page 7.

### Warranties

Anodised and powder coated finish have 15 year warranty, subject to correct maintenance regime.



# lightweight



retail parks

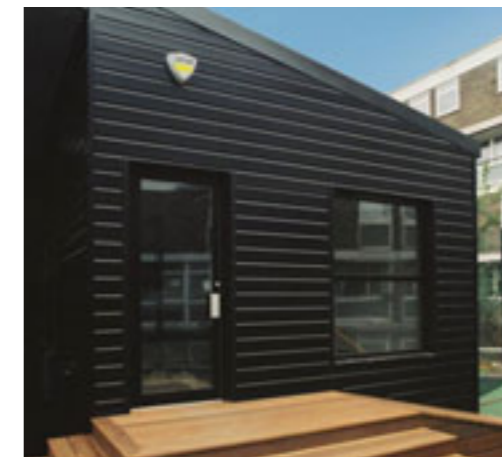
residential



# stylish

# versatile

business



schools

# finish



## Powder coated Finish

Vulcalap® can be produced in an extensive range of colours. Polyester powder can also be manufactured to custom colours if required. Standard stock colours will be advised at the time of enquiry. Other colours may cost extra depending on quantity. A high quality durable finish is achieved from our specialist applicators who are registered under ISO 9001:2000. Coating is applied in accordance with BS 6496.

Pre-treatment of aluminium is vital for good adhesion. The mill finish aluminium is put through 7-stage chromate treatment, followed by the coating process on a strictly controlled production line. Small production runs will be hand-sprayed; large runs are automatically sprayed.

For best long term performance, powder coated finish should be cleaned every three months. Refer to maintenance recommendations opposite.

## Anodised Finish

Our standard anodised finish is AA25 grade Natural Silver applied to BS.1615 or BS.3987. This is suitable for external architectural application. Anodising is carried out by specialists registered under ISO9001:2000.

A well-known architectural feature of anodising is the colour variations, and variations of silver with changing lighting conditions. This is due to slight variations in alloy composition and production tolerances but adds interest to the product and is often used by architects and designers to aesthetic advantage.

Anodised treatment gives a durable finish. For the best long-term performance anodised finish should be cleaned at maximum 6 months intervals. For harsh industrial environments, cleaning should be carried out every 3 months. Refer to maintenance recommendations opposite.



custom colours available



# maintenance

## Powder Coating Maintenance

Polyester Powder Coating is an organic coating system which needs to be cleaned and maintained regularly to ensure the decorative and protective properties of the coating are retained. The frequency of cleaning will depend on the environment. Owners should keep full documentation of maintenance, including date carried out, method and cleaning materials used. Typical recommendations are:

Rural: 3-6 months  
Urban: 3-6 months  
Industrial: Every 3 months. If heavy soiling occurs, more regular cleaning is required  
Marine: Special thickness coating is required in a marine environment; cleaning at 3 month intervals.

The best method of cleaning is by regular washing of the coating using a solution of warm water and a mild detergent.

All surfaces should be cleaned using a soft cloth sponge, or nothing harsher than natural bristle brushes. If the atmospheric pollution has resulted in heavy soiling of the coating then nothing harsher than white spirit should be used for cleaning and in no circumstances should any abrasive cleaner containing ketones, esters or alcohol be used.

A repair service is available for site damage.

## Anodised Maintenance

The frequency of the periodic cleaning of anodised finishes ranges between 3 monthly and yearly dependent on the environment. Owners should keep full documentation of maintenance, including date carried out, method and cleaning materials used. Typical recommendations are:

Rural: Every 12 months  
Urban: Every 8 months  
Industrial: Every 6 months  
Marine: Every 3 months

More regular cleaning may be required in aggressive environments; the condition of the surface will make apparent.

The cleaning method should be washing with a solution of mild non-alkaline detergent in warm water. The solution should have a pH of between 6.5 and 7.5. Heavier deposits may be removed with a stiff or nylon brush.

There may be areas where dirt accumulates and becomes more adherent because deposits are not rain washed. These can be cleaned using a mild abrasive detergent such as pumice powder and water, or ultra fine or very fine scotchbrite pads and water. It is essential to rinse thoroughly after cleaning using clean water, particularly where crevices are present.

If the deposits are of greasy nature then cleaning may be carried out using a soft cloth dipped in white spirit.

Graffiti may give permanent damage but can be limited if cleaned immediately.

**Note:** The use of emery or sand paper, steel wool or other hard abrasive materials and acid or alkaline cleaners must not be permitted as they damage the anodised aluminium.

## After Maintenance

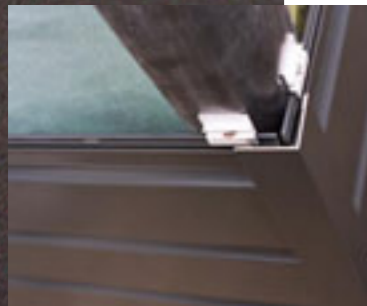
All surfaces should be washed down to prevent deposits remaining on the finish. The anodised aluminium may be treated with a good quality wax polish.



simple to install

# installation

flush jointing



Place DPC on corners



Planks fixed in full lengths, with staggered joints.



Insert joint plate with butyl tape



Plank and cill joints 5mm

## Batten Installation

Batten layout should be designed to allow the building to "breathe" by means of airflow from top to bottom. Timber battens should be good quality tanalised 25x38 mm. The contractor has full responsibility for the quality of the installation. In areas of **average wind exposure**, battens installed at 600mm centres. In areas of **high exposure**, battens on the first 3 bays from corners at 450mm centres; the rest of the building can remain at 600mm centres. **Above 6 storeys** all battens should be fixed at 450mm centres.

## Sequence

1. Establish base line of cladding
2. Fix corner battens 25mm up from baseline using packing shims to get straight and plum.
3. Use stringline to ensure that the final result is straight.
4. Fix battens around window, door openings and pack to the string line.
5. Fix short battens at maximum 600mm centres allowing 50mm airflow all round windows.
6. Fix short battens at 300mm centres to support the starter cill and vent/flymesh.

## Plank Installation

**Jointing:** Vulcalap® cill/plank ends do not need to be cut to align with a batten; cut only at openings, corners or abutments (avoid cutting off the sealed plank-ends). Joints to be staggered with next plank, unless directly on batten.

**Movement:** Vulcalap® aluminium system allows for thermal movement with "sliding" fixing clips. At the end of facades or at corners fix direct through the plank. Fix cill and planks with 5mm joints. Thermal movement of aluminium is 1mm/metre run. Where clip cannot be used, drill clearance hole and fix with pan head screw.

When battening is straight and plumb, install Vulcalap® planking as follows:-

1. Fix vent angle or flymesh to base and head of battens.
2. Fix starter cill at bottom to the battens using fixing clip at 300mm centres. Ensure straight and level with no stepped joints.
3. Insert cill joiner with butyl strip. No silicone required
4. Place planks firmly onto cill hook. Ensure full engagement, and fix clips at 600mm centres.
5. Insert plank joiners with butyl strip, no silicone required.
6. Cut planks 10mm short of abutting walls to allow for trim sections.

easy interlocking

secret fixing



Leave backing on tape until positioned, then pull tails and press firmly into place. Fix top and bottom.

## Joints

No silicone is required. The joint plates are coated to match. 3mm diameter Butyl tape is supplied on a roll, stuck to the left and right of the joint plate as shown. The joint plate is then pressed into the slots top and bottom of the extrusion.

## Trims

**HB Tape:** Installing section with HB foam tape. Tape grips very quickly, therefore the backing foil should be left on the tape except tails. Section should be held in final position and then the tails are pulled, leaving the section in the correct position.

**Fixings:** Self tapping screws or rivets with coloured tops must also be fixed at each end of the section. On long sections add fixings at 1200mm centres.

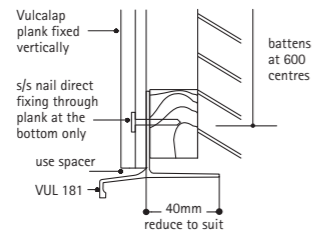
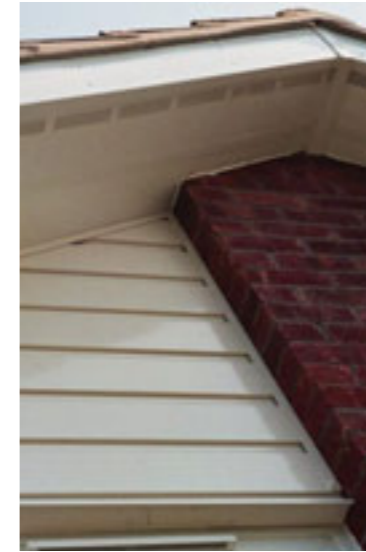
## Handling care

- Carry and store the planks on edge, not flat.
- Always protect the plank face with cutting. (Use TCT circular blade 2.5 teeth per inch or jigsaw blade with 2mm teeth spacing).
- Damaged or distorted planks should not be fitted.

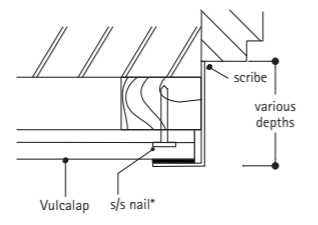
no silicone required



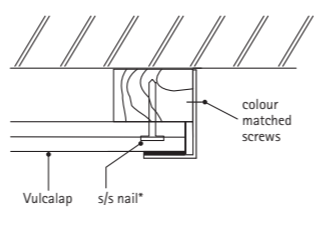
# details



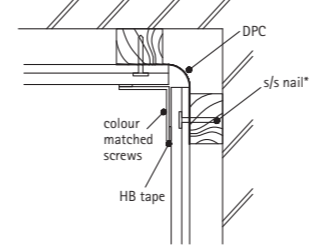
Vertical Plank Cill



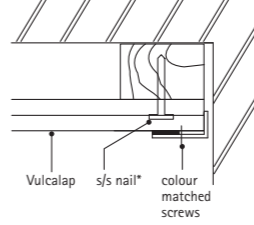
Reveal



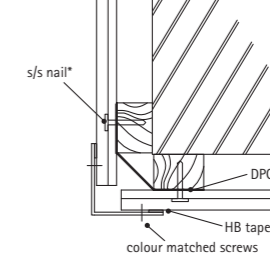
Stop End



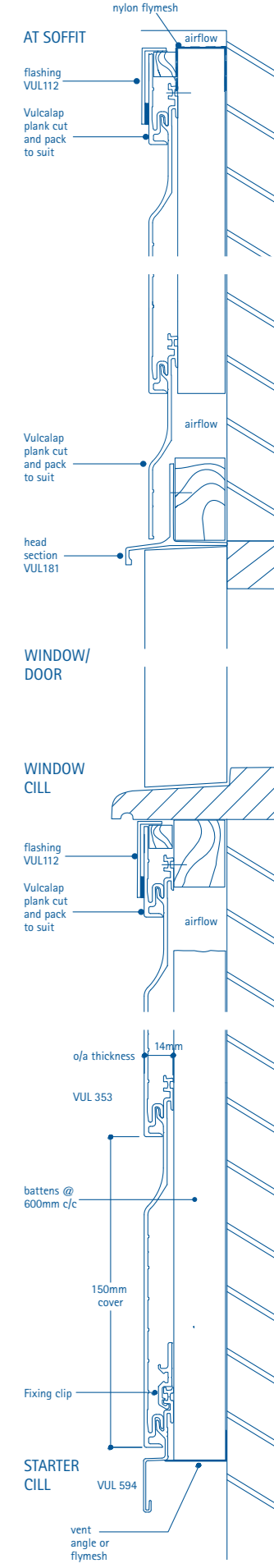
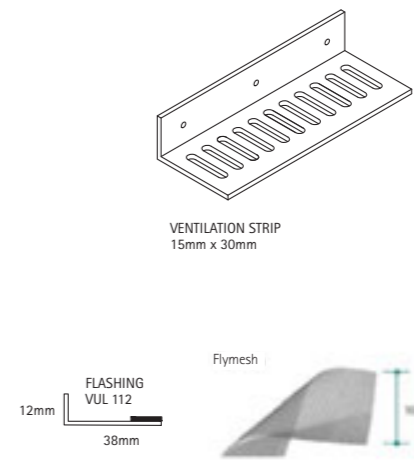
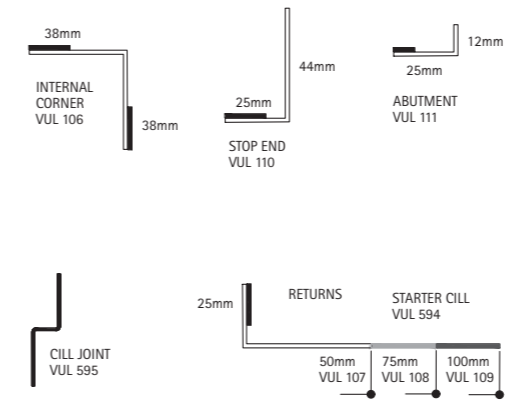
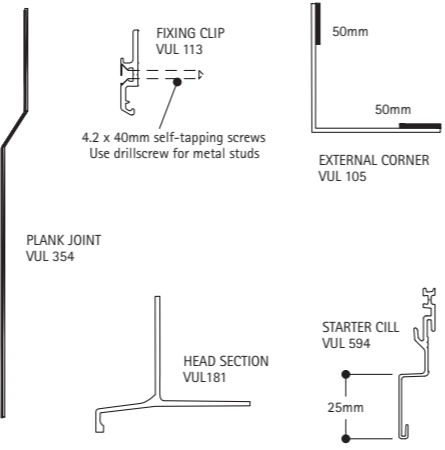
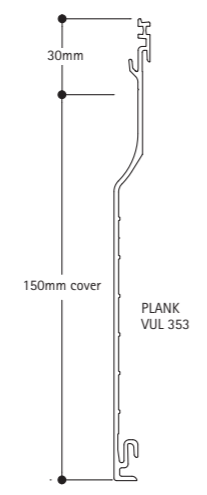
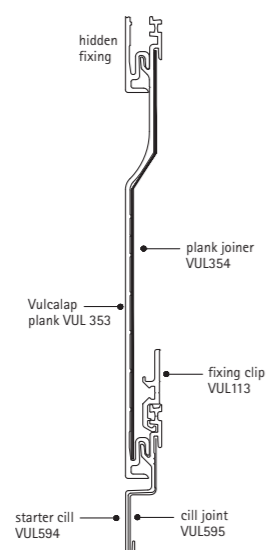
Internal Corner



Wall Abument



External Corner



\*s/s nail direct fixing through plank only at the end of the run

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