

## EZFENZ AAC fencing specification

### 1. Introduction:

An autoclaved aerated concrete (AAC) lightweight panel fence system which can be easily erected and customised to create an attractive and effective solution for sound abatement, security and privacy.

The AAC fence once constructed can be either plastered and painted or just painted.

The paint option consists of one Coat of Dulux Acratex Green Render Sealer and two coats of either Dulux Acratex 955 Acrashield Advance or the option of Dulux Acratex roll on textures, Acrasand or Sedona. The plaster system consists of either the cement-based option of a minimum EZpanel Base Coat (EBC) plaster, followed by a selection of cement-based finishing plasters or Dulux Acratex acrylic finishing textures. Or the Powaflex acrylic option of a flanking coat of (EBC), followed by a mesh coat of Powaflex acrylic plaster and a Dulux Acratex acrylic finishing texture. Both base coat options are finished with Dulux Acratex 955 Acrashield Advance an acrylic exterior paint system.

### 2. Health & Safety:

Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling all wet or dry material. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. The potential irritant nature of cement dust (in dry powder form or from subsequent cutting of the hardened product) is recognised. Paper dust masks or a respirator must be worn at all times when the product is being mixed. Be sure to provide adequate ventilation when working in enclosed areas. The wet compound is alkaline and prolonged skin contact should be avoided. People with sensitive skin must wear rubber gloves when handling the product. Materials Safety Data Sheets are available on request.

### 3. Assembling your posts:

Two C-Section pillars are placed back-to-back and screwed together using an appropriate Tex screw. Two screws in the top, middle and the bottom of the post. (See examples below)



### 4. Spacing the Fence Posts:

You should start your fence by setting your corner posts. Not only will this provide a line to string your other posts from, but it will also give you an accurate measurement by which the number of posts and panels you will need can be calculated. By measuring the distance

between your corner posts, you will ensure the size of the fence panels will all be identical. As a rule of thumb fence posts should be set up to a maximum of 2250mm centres. This allows 50mm for the panel to slip into each adjoining post while leaving a little amount of tolerance for cutting inaccuracies. In a lot of cases the spacing of the posts will depend on the type of fence you build, the terrain, the purpose of the fence, and other such factors. Once your corner posts are set, stretch a line from each corner or end post so the posts can be aligned. To ensure the tops of the posts are kept even a string line should also be run across the top of the posts. Drive in a stake every 2250mm (or whatever measurement you have calculated) at the exact position where the post hole is to be dug. Take time to measure and position the posts accurately. The appearance and the structural strength of your fence will depend a great deal on the positioning of the fence posts. To ensure the distances between each post are accurately maintained, we recommend cutting a length of timber to the same length as the panels you will be installing and using this as a guide as you set your posts.

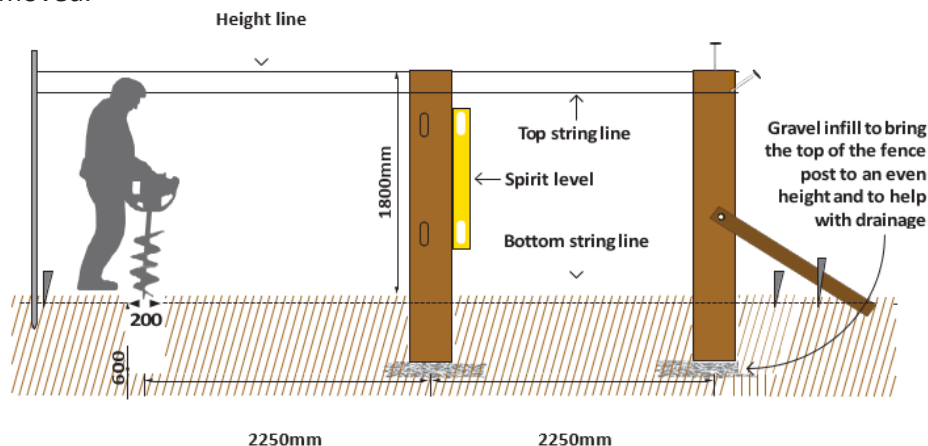
**5. Setting the Fence Posts:**

Set all the posts 600mm or less into the ground. Use a regular post-hole borer (200mm auger) to dig the post holes. Dig the holes straight to the proper depth at each stake marker. You can anchor the posts more firmly by making the holes slightly larger at the bottom than at the top. Place a large stone or two shovels full of gravel in the bottom of each hole. This will help to provide drainage and avoid excessive moisture at the base of each post.

**6. Packing the Posts:**

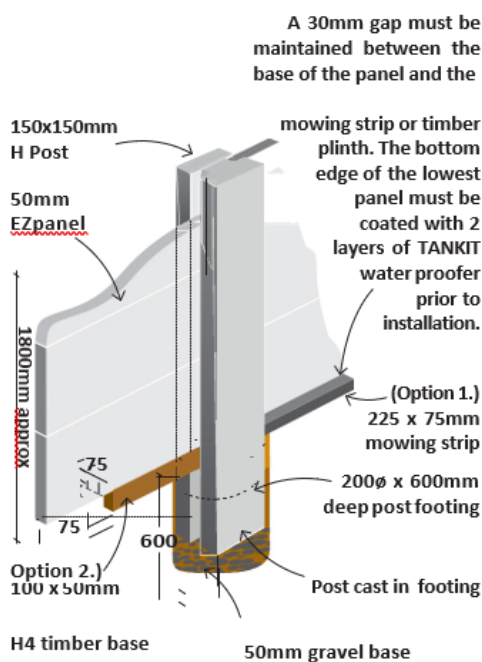
Place enough gravel in the hole to bring the top of the post up to the top string line. Be sure the posts are in an exact, upright position. It is worth taking a little extra time to ensure your corner posts are well positioned and as plumb as possible as these two posts will determine the placement of the rest of your posts. Make sure the concrete poured into the holes is evenly distributed around the posts. You can check the alignment of each post with a regular level. You can also check the alignment of the posts in one direction by sighting from one end of the row of posts to the other.

Make sure that one side of the post is just touching (not disturbing) your string line. Remember, if you are using a rapid setting concrete you will only have a few minutes to make any final adjustments before the concrete starts to set and the posts can no longer be moved.



## 7. Setting the Posts

When the post is firmly in position, build a mound around it to help eliminate water standing at the post base. Slope the concrete slightly away from the post and round it off with a trowel. Tamp the concrete lightly to eliminate any air bubbles left in the mixture that can act as water pockets. To ensure long-term damage is kept to a minimum, we highly recommend laying a mowing strip. However, the other option is to use a 100 x 50mm H4 timber plinth as a starter before the panels are installed. The heads of the posts must be capped with the metal caps provided.

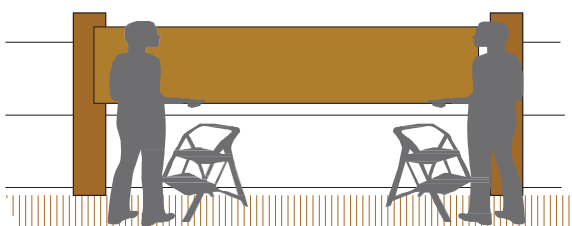


## 8. Adding Panels to Posts:

The bottom edge of the first layer of panels should be kept a minimum of 30mm from finished ground, timber plinth or mowing strip and care should be taken to ensure the panels aren't buried. Prior to installing the first layer of panel, the bottom edges and sides of the panel (100mm minimum up from the bottom of the panel) must be coated in a minimum of two coats of Specialized's Tankit paint on waterproofing compound.

The panels are installed by sliding each edge into the C-Section of the post starting from the top.

**Lifting and slotting the panels in place is a two-person job and will greatly reduce damage.**



### TIP:

Regardless of the type of fence you plan to build, be sure you know where your property line is located. Also, check any local ordinances applying to fences before beginning construction. Call the building department of your local council.

## 9. Measuring up:

If the panels need to be trimmed this can be done using a masonry or diamond blade in a power saw. Each panel should be adjusted so that it is approximately 15-20mm shorter than the distance from the back of one post channel to the other. This excess gap makes it a lot easier to slide the panels into place as it stops them from jamming in the channel. Carefully check any cuts that have been made to the EZPanel and apply a minimum of two coats of zinc-based primer to any exposed reinforcing steel. All panels must have their contacting edges buttered with a suitable moisture cured polyurethane cartridge adhesive (E.g.

Maxilam SabreFix PU) glue as they are being installed. The edges of all the EZpanel sheets must be free of all dust and debris (preferably blown down with compressed air) and should be sprayed down with a mist of water immediately before the glue is applied. The glue should be laid in a bead approximately 6-8mm in width before the next sheet is positioned above it. This practice should be done as quickly as possible to ensure the glue remains as pliable as possible to ensure good adhesion of the panels. Once the panels have been glued into place any glue excess that oozes out of the joints should be wiped off or cut from the surface before it has fully cured. As the EZPanels have a certain amount of flexibility, it is also important to ensure the panels are well aligned before the adhesive sets.

## 10. Stopping up:

Once the panels are in place, any damage that has been caused during construction can be easily fixed using Specialized's EZstop compound. Don't mix more material than you can use in one hour. Using a hawk and trowel, or a broad knife; fill any screw head holes, broken corners, chips and cracks, etc, using the plaster. Don't leave thick edges of plaster because these will show through your finished paintwork.

## 11. Finishing:

Once the panels have been set in place and any damage has been repaired a flexible multi-purpose, exterior grade, gap filler can be used to fill the seam between the posts and panels. This will make the fence easier to coat with paint and leave a flat finish. The Metal Caps for the posts can now be installed.

## 12. Paint only Finishing:

### **Dulux Acratex 955 Acrashield Advance**

The following paint system must be used over the EZFENZ AAC to make the system weathertight and give the desired finish colour to your fence.

Galvanised posts and caps to be primed with Dulux Precision All Metal primer.

Panel areas require one coat of Dulux Acratex 501/10 Green Render Sealer and then panel, and posts require two coats of Dulux Acratex 955 Acrashield Advance paint or Dulux Acratex Sedona, Dulux Acratex Acrasand roll on textures tinted to the selected colour and applied by brush and roller at a spread rate of approximately 6m<sup>2</sup>/litre.

This paint system must be applied in accordance with the Dulux Acratex 955 Acrashield Advance application instructions. Other paint systems are not covered by this specification sheet and Specialized Construction Products will not warrant the use or suitability of alternative paint

systems over the surface of its EZFENZ AAC.

### 13. Plaster & Paint Finishing:

**There are two options to choose from. Cement base coat with cement-based texture finishes or acrylic textures finishes. Acrylic base coat (Powaflex) with acrylic textured finishes**

#### A. Cement base coat with cement-based texture finishes or acrylic texture finishes. – Mesh Coating

EZFENZ AAC areas should be plastered using a 160g/m<sup>2</sup> alkali resistant hard mesh embedded in EZpanel base coat.

There are ten finishing options once the EZpanel base coat plaster and mesh have been applied:

##### **Cement Based Finishing Texture Options**

There are ten finishing options once the EZpanel base coat plaster and mesh have been applied:

##### Option 1: Stucco Texture

Fine base coat plaster can be sprayed through a hopper gun or a sagola gun to achieve a heavy stucco plaster finish.

##### Option 2: Float Finish

Float Finish is a polymer modified cement-based plaster which is polished flat to achieve a fine granular finish. The smooth plaster will not cover up background imperfections, particularly when walls are subject to side lighting at certain times of the day.

##### Option 3: Spanish Finish

Spanish Finish is a polymer-modified, cement-based plaster used to achieve an undulating adobe style finish. This product can be applied in various thicknesses and using a number of different techniques. Before finish coating begins ensuring the style of finish that is desired has been correctly communicated and understood by the plasterer. A trial sample is highly recommended.

##### Option 4: Fine Spray Texture

Spray texture is a granular plaster designed to give a fine stippled appearance. Spray texture is best applied using a Sagola gun with a 6mm tip and with the compressor set at approximately 60psi.

##### **Acrylic Based Finishing Texture Options**

Note:

When using acrylic textures over a modified cement base, seal the cement base with one coat of Acratex 501/10 Green Render Sealer prior to applying the acrylic texture.

Option 5: Acratex 951 Coventry Coarse Acrylic Texture - 15L

Option 6: Acratex 951 1mm Super Trowel Acrylic Texture - 15L

Option 7: Acratex 951 Sienna Coarse Sand Finish Acrylic Texture - 15L

Option 8: Acratex 951 Sienna Natural Acrylic Texture - 15L

Option 9: Specialized FlexiFloat - 20kg (This product is a bagged texture and not tintable)

Option 10: Specialized FlexiFlat -20kg (This product is a bagged texture and not tintable)

**B. Acrylic base coat with acrylic texture finishes - Powaflex Acrylic System – Mesh coat.**

EZFENZ AAC areas should be plastered using a 160g/m<sup>2</sup> alkali resistant hard mesh embedded in Powaflex Acrylic base coat.

Warning: Only acrylic textures should be applied over Powaflex acrylic system

Acrylic Based Finishing Texture Options

Option 5: Acratex 951 Coventry Coarse Acrylic Texture - 15L

Option 6: Acratex 951 1mm Super Trowel Acrylic Texture - 15L

Option 7: Acratex 951 Sienna Coarse Sand Finish Acrylic Texture - 15L

Option 8: Acratex 951 Sienna Natural Acrylic Texture - 15L

Option 9: Specialized FlexiFloat - 20kg (This product is a bagged texture and not tintable)

Option 10: Specialized FlexiFlat -20kg (This product is a bagged texture and not tintable)

Acrylic textures are to be mixed thoroughly with a stirrer before application. The consistency can be adjusted by adding a little bit of water. Acrylic textures are to be applied to the entire surface with a rust-free steel trowel or sprayed on with a suitable plaster machine, levelled to grain thickness and rubbed with a plastic plasterer's float. Do not mix with other substances. Work evenly and without interruption. during processing and setting. Protect façade against direct solar radiation, rain, or strong wind (e.g., scaffolding protection net). High temperatures during summer shorten the drying time and can lead to untimely drying out of the plaster.

Air, material, and subsurface temperatures must be higher than +5 degrees Celsius

**Curing:**

The curing time of finishing plaster will vary due to ambient temperature, relative humidity, surface temperature, surface porosity, application methods, and/or the thickness of the material. All freshly applied material must be protected from inclement weather for a minimum of 24 hours after application. It is the responsibility of the plaster applicator to determine if the product is cured and/or dry prior to applying any additional coats that may be required or exposing the applied product to rain, snow, dew, and/or any other inclement weather condition that may have a detrimental effect. Although some finishes contain cement and will not fully cure for 28 days prior to painting, it can be painted after the finish texture coats have cured for a minimum of 3-4 days using Dulux Acratex 501/10 Green Render Sealer.

Acrylic plaster finishes can be painted as soon as the finished surface has hardened enough for application to take place.

### **Dulux Acratex 955 Acrashield Advance**

The following paint system must be used over the EZFENZ AAC to make the system weathertight and give the desired finish colour to your fence.

Galvanised posts and caps to be primed with Dulux Precision All Metal primer.

Panel areas require one coat of Dulux Acratex 501/10 Green Render Sealer and then panel, and posts require two coats of Dulux Acratex 955 Acrashield Advance paint or Dulux Acratex Sedona, Dulux Acratex Acrasand roll on textures tinted to the selected colour and applied by brush and roller at a spread rate of approximately 6m<sup>2</sup>/litre.

This paint system must be applied in accordance with the Dulux Acratex 955 Acrashield Advance application instructions. Other paint systems are not covered by this specification sheet and Specialized Construction Products will not warrant the use or suitability of alternative paint systems over the surface of its EZFENZ AAC.

### **14. Plaster Site Storage:**

Products in dry form must be stored in a dry area, off the floor on a timber pallet or timber dunnage and must be protected from the weather and from mechanical damage. Stock must be rotated to ensure that the oldest material is used first. Plaster stock that is older than six months must be discarded. Liquid components must be stored in a frost-free area.

### **15. Limitations**

DO NOT apply plaster when the ambient or surface temperature is below 4°C or above 30°C or will be in that range for the 24-hour period after application. When hot, dry, or windy conditions exist, moist curing and protection must be provided. Material that is allowed to freeze or material that dries too quickly may suffer irreparable damage.

DO NOT add any other materials to the plasters used with the system or deviate from the mixing or application procedures outlined in any of Specialized Construction Product's technical data sheets without written approval from Specialized Constructions Products.

DO NOT apply any plaster material unless the substrate has been properly cleaned and prepared.

DO NOT add any more water than prescribed by the technical data sheet for the individual products.

DO NOT wet the wall prior to the application of any plaster.

DO NOT reactivate any plaster with more water once it has begun to set.

DO NOT mix more plaster than you can use in 45 minutes.

NOTE: Failure to follow the manufacturer's written specifications could result in the following but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.

## 16. General

Use longer steel trowels rather than short ones. The longer trowel covers the area quicker and gives a flatter finish and as they are unable to push the mesh back into a thin coat of plaster.

- Have plenty of plaster buckets and water buckets on the job. Keep a 3" paint brush and water bucket handy for finishing those narrow edges and corners.
- When applying a stucco texture keep your hopper gun clean and adjusted and your compressor pumping out 90 to 100 PSI. Remember once or twice every day to clean out your air jet with a 1/8" drill bit. A piece of wire or nail will not do this job and is unacceptable.
- When you are spraying, maintain your plaster mix consistency as you use the plaster. Add a little water when you feel the plaster has stiffened a little. This is critical for a good texture coat. Do not attempt this with plaster that is older than 30 minutes.
- Organise your day to try and keep out of the hot summer sun particularly round the middle hours of the day.
- Try and complete a full length of wall in one go, otherwise it can be difficult to disguise the "cold" joint where you restart the next day. If circumstances prevent you finishing a complete wall, try and stop under the middle of a window opening or something similar. Ensure that you leave a leading edge of mesh uncoated so that you can overlap the new drop of mesh the next day. Also scrape off any excess plaster to further reduce the chances of the "cold" joint showing.
- The fibreglass mesh must not bridge over any construction joints.
- There must be no horizontal surfaces of EZpanel wall cladding which will be subject to water ponding.
- Ensure there is no possibility of water leaking in behind the coating due to poor sealing around projections, etc.
- Any exposed top or bottom edges of sheets must be protected by PVC beads or by continuing the plaster system over the edges of the sheets.
- Carefully peel back masking tape so that the masked edge is left undisturbed. Remember, it is important not to leave this job till last. Pull off masking tape as soon as is practicable, preferably while the finish coat is still "green". This will enable you to clean all masked edges with a dry paintbrush and remove/knock off any larger dags of plaster texture.
- Alkaline EZpanel plaster will mark aluminium joinery and "Colorsteel" roofing. Any overspray must be cleaned off immediately.

## 17. Maintenance

Any paint film damage must be repaired as soon as possible to prevent water penetration and ensure that the high strength properties of the fibreglass mesh are maintained. Any impact damaged areas must be thoroughly cleared of any loose material and repaired with a 1:1 mixture of resin and water mixed with the required amount of EZpanel plaster. This will ensure a positive bond between the original plaster and the repaired area. Repaint within the following week. The wall cladding system should be regularly cleaned, at least annually, by washing with clean water to remove dirt and to maintain the finish appearance. Grime may be removed with warm water



and detergent. Plastered walls should be re-coated with Dulux Acratex 955 Acrashield Advance paint system at 5 to 8 yearly intervals or sooner if required to maintain weather-tightness. Regular checks, at least annually, must be made of the system to ensure that the weather resistant coating is maintained watertight, and that the sealant, flashings, and other joints continue to perform their function and do not allow water to penetrate. Failure to correctly maintain the system may void any long-term warranties offered with the system. Any accidental damage to the cladding must be repaired immediately using Specialized Construction Products materials. For further information please refer to Specialized Construction Products plaster maintenance guide.

### 18. Warranty

The recommendations, suggestions, statements, and technical data provided by Specialized Construction Products are based on the best current knowledge available and are given for information purposes only without any responsibility for their use. It is expressly understood

and agreed that the buyer's sole and exclusive remedy shall be the replacement of defective products, and under no circumstance, shall Specialized Construction Products be liable for incidental or consequential damages.

Specialized Construction Products neither assumes, nor authorizes, any others to assume for it any liability with respect to furnishing of the product. Handling and use of the products are beyond the control of Specialized Construction Products; therefore, no warranty is made, expressed or implied, as to the results or on-site quality that can be obtained from the use of the product.

The long-term durability of the EZpanel system is dependent upon the correct preparation and application of all components in strict accordance with all the relevant written instructions and detail sheets. On-site application is beyond the control of Specialized Construction Products, and it cannot guarantee workmanship or the correct preparation and application of its products or systems. The certified EZpanel contractor shall take the overall responsibility for, on-site supervision, staff training, installation, and quality control.

#### Material Guarantee Period

10 years from date of practical completion.

#### Technical Assistance

Assistance and information are available by calling Specialized Construction Products on (09) 414 4499 or 0800 800 79 or by e-mail at [info@specialized.co.nz](mailto:info@specialized.co.nz).