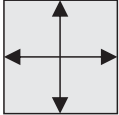


Lumostone panels are lightweight and easy to cut and install, making them the ideal alternative surface to traditional stone surfaces!

TECHNICAL INFORMATION



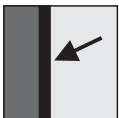
Panel size 2440 x 1220 x 8mm



Acrylic resin and natural stone composite with semi-gloss finish



Lightweight compared to natural stone
39-44kg per panel



Suited to vertical surfaces, backlit cladding, decorative wall-panels



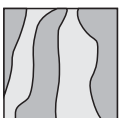
Water resistant and suitable for light wet areas such as backsplashes



Not scratch resistant – but scratches can be lightly sanded and polished out if needed



Not suitable for high impact surfaces or near heat or sun



Panels cannot be bookmatched and do not offer continuous grains. All panels offer variations in colours and patterns, making them a unique product.

DRILLING

- The Wine Room recommends using HSS Metal bits for drilling into Lumostone (i.e. used for drilling into steel etc); however masonry bits are also suited to Lumostone.
- If drilling manually in workshop, we recommend you first mark the hole positions; and then make a small indent at each hole with a centre punch to give the drill a guide prior to drilling.
- If drilling holes into the panels after they are installed against a wall, we recommend drilling the holes through the Lumostone first with a metal drill bit, and then swap to a masonry bit to drill into the wall. The holes in the Lumostone could be slightly oversized to avoid the masonry bit from snagging.

FINISHING

- Edges can be sanded with sandpaper for a uniform finish and to take off sharp edges
- Routers or beveling edges can also help to minimise the amount of sanding needed
- Edges can also be polished using Brasso or similar for a sheen finish
- If panels are scratched, sandpaper down the affected area using sandpaper (from rough to fine grit); and polish using a polishing oil.

CUTTING AND MITERING

- Panels do not require specialist waterjet cutting – they can be easily cut and assembled in joinery workshops
- 60T or 100T thin-kerf cross-cut wood blades are recommended for cutting panels to avoid jagged edges; and hole-saws can be used for larger diameter holes
- Lumostone can be mitred and bonded at 45 degrees to create seamless joins.

Please contact us for our recommended experienced install teams in Johannesburg and Cape Town who can assist you with custom cutting, trims, backlighting and install of your Lumostone panels

INSTALLING BACKLIT LUMOSTONE

LIGHTING

- The Wine Room recommends LBY, Hafele or similar high spec LED brand for backlighting of Lumostone panels
- Warm white or Cool white LEDs can be used (client/designer's choice); recommended on a dimmer function; installed on a white backing board, melamine or white painted wall, to aid the dispersion of the LED light (indicative light positions only). (01)
- Rule of thumb: spacing between the LED light modules should match the spacing between the LED lights and the Resin Stone panel. Generally 40-100mm each. (02)

LED MAINTENANCE

- The Wine Room recommends building in allowance to access the LEDs in future
- Option 1: include a hinged panel on the side of the lightbox with a removable mirror board and LED lights that can slide out to the side (03)
- Option 2: include magnetic or removable front cover strips (timber or metal) which allows one to remove the Lumostone panel from the front in order to access the LED lights behind. (04)

SUPPORTING BACKLIT PANELS

- Backlit lumostone panels require additional support when more than 1 panel is used next to each other and/or when additional loads are applied to the front of the Lumostone panels
- **Scenario 1: Support at join lines:** Install 10mm thick perspex support column centred at the join line behind adjacent Lumostone panels, fixed to the top and bottom of the surrounding joinery. This will avoid bending of the lumostone panel at the join line. (05)
- **Scenario 2: Provide continuous support for load-bearing panels:** Install a 8-10mm thick perspex panel flush behind the Lumostone panel; and fix your items (e.g. lightweight wine displays or shelves) directly through the Lumostone and into the Perspex behind. (06)

FITTING LUMOSTONE ONTO WALLS (NOT BACKLIT)

- The Wine Room recommends Den Braven High Tack or other similar high-quality adhesive for installing Lumostone directly to walls;
- Ensure the Lumostone and the wall surfaces are free of grease and dust. Wall surfaces must be smooth, straight, non-porous; dry and in good condition. No bulges, cracks, peeling paint or rough plaster permitted.
- A full Lumostone panel will take approximately 3 full tubes of adhesive.
- Apply the adhesive on the Lumostone panel in vertical strips of maximum 10cm distance between strips, working from the top of the panel down. Do not apply the adhesive in dots!
- For smaller Lumostone panels, the distance between the strips can decrease down to 3cm between strips
- Always apply the adhesive with a caulking gun and unique V-nozzle (available from the supplier), at 90° angle to the work surface with the provided V-nozzle pointing up, so that a perfect bead triangle of 6x6x6mm is laid.
- Do not apply adhesive within 3cm from the Lumostone edge, to allow for spreading of adhesive when pressed against wall without seeping out the edges.
- Bring the Lumostone into position and press firmly onto the wall, so that the adhesive is pressed into a minimum of 2-3 mm thick between Lumostone and wall. Some additional propping may be required depending on Lumostone panel size.
- Because of the high initial strength, support during curing is usually not necessary for up to 25kg weight panels. A full Lumostone panel weighs approximately 40kg, so support is needed for first 24hrs.
- Working time of the adhesive is approximately 10-15 mins before the adhesive starts to dry and form a skin.

