

## SPECIFICATION

### VClad Vitreous Enamel Panel

Vitreous Enamel panels are named VCLAD and manufactured by VEA Metal Products Co and supplied throughout Australia by their exclusive agents, VCLAD Australia.

VClad panels shall consist of 1.5mm sheet of low-carbon steel, faced on one side with a 3 layer system of vitreous enamel and the backing side faced with 1 layer of calcium silicate board glue fixed. The backing substrate is to increase noise and heat insulation ,structural rigidity and provide increased fire resistance.

Panels will have a 15mm return on all sides welded at the corners and ground flush. Sheets will be laser cut to required dimensions and chemical pre treated and etched faced for increased bonding.

Vitreous enamel is applied to the etched metal sheet in a 3 part process. The first part is the application of a vitreous enamel ground coat dried to a max temperature of 250deg C. The 2nd and 3rd process is the application of 2 coloured layers of VE applied at a temperature of 800deg C.

The final enamel thickness will be a minimum of 220 microns. Final finish to achieve a 90% light reflectance and offer heat resistance to a maximum of 500degC. Panels are to demonstrate high resistance to Abrasion, Heat and acidic treatment. Vitreous Enamel to meet the BS 1344 Standards.

Panels can have a face deflection of no greater that 8mm per 1000mm of panel length to maximum of 10mm in line with industry Standards.

VClad panels prior to onsite fabrication shall be stored horizontally on a dry, flat, level surface and protected from damage from other trades.