

## Introduction

The Brital Panel Fixing System is primarily designed for use with composite aluminium panels to provide an architecturally light but robust panel system. The Brital aluminium sections are from extruded aluminium .

The vertical channel support section is formed from a robust extruded aluminium channel section, which is fixed to the concrete wall via purpose designed fixing brackets & anchors.

The sections are supported at the ends by means of extruded aluminium brackets, which are screw fixed to the vertical and the adjacent structure. Intermediate fixings are provided using the same bracket sections.

## Materials

All aluminium extrusions are manufactured from 6063 T6 aluminium alloy extruded to BS EN 12020:2008/BS EN 755-9:2008

## Finishes

All support sections are hidden behind the panels and therefore do not need to be finished.

## Design

The Panel Fixing System is designed to resist wind loads and is designed to the following deflection limits:

Max deflection = SPAN/175 but not more than 25 mm

## Panels

The panels must be constructed in accordance with the manufacturers recommendations. Using the recommended support, joint sizes are designed at 20mm, but subject to panel sizes the joint sizes may need to be varied. All joints are fully sealed with an approved weatherseal sealant.

## Local Regulations

The guidance given in this document is general and fabricators should be aware that local regulations may differ and should be prepared to work to local regulations if they are more stringent.

## Structural Design

The structural design of support posts and their fixings are the responsibility of the fabricator who should be aware of the high loads that can develop at the base plates of these components.

## Development

Brital have a policy of continuing development and will amend and alter designs as necessary to meet changes in regulations and market requirements.

Where large quantities of non-standard extruded sections are required to a specific design this should be discussed with Brital's technical department