

## PRODUCT TECHNICAL STATEMENT – 92 SERIES

A premium New Zealand aluminium joinery system with 80% to 95% recycled aluminium and up to 25% more mass than other equivalent products on the market. It is specifically designed for 92mm steel studs with heights typically under but not limited to 3.2m

With the largest glazing pockets in its class the 92 series is designed for interior use in offices, schools, apartments and many other applications where high-performance acoustic glass may be a requirement.

### Product Description

92 Series is a 132mm wide aluminium joinery system, with profile height of 25 or 44mm and a wide range of options, including centre, edge and double-glazed glass walls. It can be configured in many ways to achieve the look you want with options that include mullions, transoms and door frames both with and without negative detail.

There is a range of matching negative detail head sections and trims available to suit 13mm plaster board to easily create negative detail skirtings, door surrounds and ceilings that save time and effort and are available in four different sizes, 13mm 25mm, 40mm and 80mm.

This series is designed for ease of use with built in screw ports and stacking bracket locators to allow for all build solutions. Our stock finishes are mill and a premium Niche anodised which gives a very consistent, slightly Matt finish that appears more natural than other anodising techniques.

### Scope of use

92 Series has been designed for interior partitioning where a 92mm stud width is specified.

With the solid wall head sections there are options for both a single layer and multi-layer of 13mm plasterboard. The single layer allows for one sheet either side while the multi-layer has a single layer one side and a double layer the other providing higher acoustic performance.

The only restrictions for the glazed walls will be determined by the NZ Glazing Standards. ALS have in-house glazing expertise and can work through this with you. Our sections meet all NZ standards for extruded aluminium and surface finish.

92 Series can be used alongside our DesignLine, Plus and Multiplayer and Door product series.

### New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure: Performance B1.3.1, B1.3.2
- Clause B2 Durability: Performance B2.3.1(b)
- Clause F2 Hazardous building materials: Performance F2.3.1

### Use in Service History

ASL have been supplying aluminium systems to the New Zealand construction sector for over 20 years

## PRODUCT CRITERIA

### Design requirements

**Extrusion Lengths:** All sections are manufactured and stocked in 5.6m lengths. Custom lengths are available for orders that are greater than the minimum extrusion quantities. The minimum extrusion quantity is 150kgs which can provide various total meterage depending on section design.

**Wall Size:** The system is recommended for ceiling heights up to a maximum of 3.2m. Glazing run lengths are determined by NZ glazing standards.

**Glass:** Glass can be toughened or laminated with a minimum width of 5mm and a maximum of 13mm.

**Board:** The system is designed for use with 13mm plasterboard.

**Installation:** It is recommended that experienced installers are employed to install the joinery. Shop Drawings are available on request to provide site specific detail to assist.

**Doors:** The system can accommodate full height aluminium or timber doors in hinged single and paired configurations, additionally top hung and floor sliders.

The sliders can be configured in a stacking configuration to minimise the stack depth or to transverse larger openings. The maximum recommended stack size is four panels for both top and bottom supported panels.

Individual top hung panel weights are rated up to the maximum weight supported by the trolleys and tracks and up to a maximum of 250kgs. ASL track and trolleys are rated up to 180kgs meaning the maximum panel and width allowable will be a factor of the opening size and the glass weight.

All door sections are supplied with assembly kits for individual door panels. Track sections for both top hung and bottom supported sliders are available for both single and stacked sliders as well as rollers and trolleys from ASL.

**Seismic:** Partitions need to have seismic restraints such as Tracklok partition bracing. ASL can provide bracing plans for your project.

### Installation requirements

Install in accordance with Aluminate Solutions installation requirements for Series 92. Installation instructions are available for download on our website. [www.aluminate.co.nz](http://www.aluminate.co.nz)

### Maintenance and cleaning requirements

Instructions on caring for your product are available for download on our website. [www.aluminate.co.nz](http://www.aluminate.co.nz)

### Warranty

ASL provide a warranty for 5 years for materials only. Details on our supplier warranty are available for download from our web site. [www.aluminate.co.nz](http://www.aluminate.co.nz)

An installers warranty should be for a minimum of 1 year and usually commences from the date of practical completion of the contract works.

### Environmental

Our aluminium profiles are extruded in New Zealand by McKechnie Aluminium Solutions whom have achieved CEMARS product certification by Enviro-Mark Solutions Ltd. <https://www.mckechnie.co.nz/>

ASL are the only supplier of Interior Aluminium Joinery systems where all sections have a minimum of 80% but up to 95% recycled content.

Recycled aluminium is re melted on site and uses only 5% of the energy used for to produce Alumina.