Typical Base Fix Timber Fix
Using Type 1 base plate with Coach Screws

Note: As the MFG AliPost AP 65 System is a Specifically Engineered Designed system it does not require M12 bolts at 400mm centres as detailed in NZS 3604:2011 Section 7

Product | Installation/Fitting Instructions
--- | ---
Substrate Preparation | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab
Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Typical Base Fix Timber Fix Installation.
Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

IMPORTANT NOTE: The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
Typical Base Fix to Concrete
Using Type 2 base plate

Important Installation notes:
1 - A Design engineer must ensure the structure can support the appropriate loads
2 - All fixings must engage into the structural slab
3 - A Rubber, EPDM or Foam Tape layer must be installed between the Base plate and Concrete
4 - All fixings must be Stainless steel

<table>
<thead>
<tr>
<th>Base Plate 110mm x 100mm, 4 hole</th>
<th>X (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 off M10 x 98 Hex Dynabolts, Stainless Steel. DP 121005S</td>
<td>90mm</td>
<td>75mm</td>
</tr>
<tr>
<td>4 off M10 x 90 Chemical Anchors, Stainless Steel + Chemical capsule. CS101305S</td>
<td>35mm</td>
<td>90mm</td>
</tr>
</tbody>
</table>

**Product Installation/Fitting Instructions**

**Substrate Preparation**
- A Design engineer must ensure the structure can support the appropriate loads
- All fixings must be Stainless Steel
- All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure**
- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
- The above diagram outlines Typical Base Fix to Concrete Installation.

**Cleaning**
Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
AP65 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Base Fix to Concrete

Using Type 3 base plate

Important Installation notes:
1 - A Design engineer must ensure the structure can support the appropriate loads
2 - All fixings must engage into the structural slab
3 - A Rubber, EPDM or Foam Tape layer must be installed between the Base plate and Concrete
4 - All fixings must be Stainless steel

<table>
<thead>
<tr>
<th>Base Plate 120mm x 90mm</th>
<th>X (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x M12 SS Studs + Epon C6</td>
<td>60mm</td>
<td>110mm</td>
</tr>
</tbody>
</table>

Cleaning

Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.
### AP65 ALUMINIUM BALUSTRADE POST SYSTEM

**Installation / Fitting Instructions**

#### Typical Base Fix to Steel

**Using Type 1 base plate**

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substrate Preparation</strong></td>
<td>• A Design engineer must ensure the structure can support the appropriate loads</td>
</tr>
<tr>
<td></td>
<td>• All fixings must be Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>• All fixings must engage the structural slab</td>
</tr>
<tr>
<td><strong>Installation of the Semi Frameless Post to the Supporting Structure</strong></td>
<td>• Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types</td>
</tr>
<tr>
<td><strong>Cleaning</strong></td>
<td>• The above diagram outlines Typical Base Fix to Steel Installation.</td>
</tr>
<tr>
<td></td>
<td>Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.</td>
</tr>
</tbody>
</table>

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
**AP65 ALUMINIUM BALUSTRADE POST SYSTEM**

**Installation / Fitting Instructions**

**Typical Side Fix to Timber Deck**

**Using Coach Screws**

**Product** | **Installation/Fitting Instructions**
---|---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Typical Side Fix to Timber Deck into Concrete Installation.

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
Typical Side Fix to Timber Deck
Using bolts or threaded rods

Important Installation notes:
1. A Design engineer must ensure the structure can support the appropriate loads
2. A Rubber, EPDM or Foam Tape layer must be installed between the Post and Timber
3. All fixings must be Stainless steel

**Product** | **Installation/Fitting Instructions**
--- | ---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads
• All fixings must be Stainless Steel
• All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
• The above diagram outlines Typical Side Fix to Timber Deck installation.

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
**AP65 ALUMINIUM BALUSTRADE POST SYSTEM**

**Installation / Fitting Instructions**

**Typical Side Fix to Concrete**

**Substrate Preparation**
- A Design engineer must ensure the structure can support the appropriate loads.
- All fixings must be Stainless Steel.
- All fixings must engage the structural slab.

**Installation of the Semi Frameless Post to the Supporting Structure**
- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.
- The above diagram outlines Typical Side Fix to Concrete into Concrete Installation.

**Cleaning**
- Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
# AP65 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

## Typical Side Fix to Steel Section

### Substrate Preparation
- A Design engineer must ensure the structure can support the appropriate loads
- All fixings must be Stainless Steel
- All fixings must engage the structural slab

### Installation of the Semi Frameless Post to the Supporting Structure
- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
- The above diagram outlines Typical Side Fix to Steel Section Installation

### Cleaning
- Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

---

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AP65 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Side Fix example to waterproofed Timber Deck

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011 - Double Boundary Joists.

Important Installation notes:
1 - A Design engineer must ensure the structure can support the appropriate loads
2 - Coachscrews 90mm min engagement into joist and block
3 - Bond all coachscrews with SIKA Supergrip to full depth
4 - A Rubber, EPDM or Foam Tape layer must be installed between the Spacers and Timber.
5 - All fixings must be Stainless steel

---

### Installation / Fitting Instructions

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| **Substrate Preparation**                    | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab                                                                                                                                  |
| **Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.                                                                                           |
| **Cleaning**                                  | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779. |

---

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
**AP65 ALUMINIUM BALUSTRADE POST SYSTEM**

**Installation / Fitting Instructions**

**Typical Side Fix to Timber - Gutter Bracket - M10 SS Coachscrews**

---

**Substrate Preparation**

- A Design engineer must ensure the structure can support the appropriate loads.
- All fixings must be Stainless Steel.
- All fixings must engage the structural slab.

**Installation of the Semi Frameless Post to the Supporting Structure**

- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.
- The above diagram outlines Typical Side Fix to Steel Section Installation.

**Cleaning**

Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

---

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.

---

**Product** | **Installation/Fitting Instructions**
---|---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads.
• All fixings must be Stainless Steel.
• All fixings must engage the structural slab.

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.
• The above diagram outlines Typical Side Fix to Steel Section Installation.

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.
AP65 ALUMINIUM BALUSTRADE POST SYSTEM
Installation / Fitting Instructions

Typical Side Fix to Timber - Gutter Bracket - M10 SS Bolts, or Threaded Rod

Product | Installation/Fitting Instructions
---|---
Substrate Preparation |  
  • A Design engineer must ensure the structure can support the appropriate loads  
  • All fixings must be Stainless Steel  
  • All fixings must engage the structural slab

Installation of the Semi Frameless Post to the Supporting Structure |  
  • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
  • The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.

Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

Important Installation notes:
1. The Designer must ensure the structure can support the appropriate horizontal and vertical loads
2. A Rubber, EPDM or Foam Tape layer must be installed between the Bracket and Timber
3. For detailed Boundary Joint Fixings see the applicable Joint Construction page
4. All screw fixings must be Stainless steel
# AP65 Aluminium Balustrade Post System

**Installation / Fitting Instructions**

**Typical Side Fix to Waterproof Timber Deck - Gutter Bracket - M10 SS Coachscrews Alternative solution E2/AS1**

---

### Product Installation/Fitting Instructions

#### Substrate Preparation

- A Design engineer must ensure the structure can support the appropriate loads.
- All fixings must be Stainless Steel.
- All fixings must engage the structural slab as detailed in NZS 3604:2011 Section 7.

#### Installation of the Semi Frameless Post to the Supporting Structure

- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.
- The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.

#### Cleaning

Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

---

**Important Installation notes:**
1. The Designer must ensure the structure can support the appropriate horizontal and vertical loads.
2. Coachscrews 50mm min engagement into joints.
3. Bond all coachscrews with Sika Supergrip to full depth.
4. A Rubber, EPDM or Foam Tape layer must be installed between the Bracket and Timber.
5. For detailed Boundary Joint Fixings see the applicable Joint Construction page.
6. All screw fixings must be Stainless Steel.

---

### Table: Product Installation/Fitting Instructions

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| Substrate Preparation | - A Design engineer must ensure the structure can support the appropriate loads.  
- All fixings must be Stainless Steel.  
- All fixings must engage the structural slab. |
| Installation of the Semi Frameless Post to the Supporting Structure | - Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.  
- The above diagram outlines Side Fix example to waterproofed Timber Deck Installation. |
| Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779. |

---

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**AP65 ALUMINIUM BALUSTRADE POST SYSTEM**

**Installation / Fitting Instructions**

**Typical Side Fix to Steel - Gutter Bracket - M10 SS Bolts**

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| **Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab |
| **Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Side Fix example to waterproofed Timber Deck Installation |
| **Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779 |

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AP65 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Side Fix to Steel+ Timber Packers - Gutter Bracket - M10 SS Bolts

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| Substrate Preparation | • A Design engineer must ensure the structure can support the appropriate loads  
                           • All fixings must be Stainless Steel  
                           • All fixings must engage the structural slab |
| Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
                                                                            • The above diagram outlines Side Fix example to waterproofed Timber Deck Installation. |
| Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779. |

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### AP65 ALUMINIUM BALUSTRADE POST SYSTEM

#### Installation / Fitting Instructions

**Typical Side Fix to Concrete**
- **Gutter Bracket**
- **M10 SS Studs**

---

**Product** | **Installation/Fitting Instructions**
---|---
Substrate Preparation | - A Design engineer must ensure the structure can support the appropriate loads  
- All fixings must be Stainless Steel  
- All fixings must engage the structural slab

Installation of the Semi Frameless Post to the Supporting Structure | - Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
- The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.

Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

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AP65 ALUMINIUM BALUSTRADE POST SYSTEM
Installation / Fitting Instructions

Typical Side Fix to Timber - Gutter Bracket - M10 SS Coachscrews

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| Substrate Preparation                        | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cleaning                                      | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.                                                                                                                                                                                                                       |

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
AP65 ALUMINIUM BALUSTRADE POST SYSTEM
Installation / Fitting Instructions

Typical Side Fix to Timber • Gutter Bracket • M10 55 Bolts or Threaded Rod

Product | Installation/Fitting Instructions
--- | ---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Side Fix example to waterproofed Timber Deck Installation.

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
### Substrate Preparation
- A Design engineer must ensure the structure can support the appropriate loads
- All fixings must be Stainless Steel
- All fixings must engage the structural slab

### Installation of the Semi Frameless Post to the Supporting Structure
- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
- The above diagram outlines Side Fix example to waterproofed Timber Deck Installation

### Cleaning
Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

---

**Product | Installation/Fitting Instructions**
---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads
• All fixings must be Stainless Steel
• All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
• The above diagram outlines Side Fix example to waterproofed Timber Deck Installation

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
AP65 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Post Details & Components

Note: Dimension D.
If using Flush Top Cap (ie NO upstand) D = 10mm
If using Notched Top Cap (ie Upstand) D = 11.5mm
The use of a plastic packer between Glass
and edges of the Notched Top Cap is strongly recommended.
AP78 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Base Fix Timber Fix
Using Type 1 base plate with Coach Screws

- A Design Engineer must ensure the structure can support the appropriate loads
- All fixings must be Stainless Steel
- All fixings must engage the structural slab

Important Installation Notes:
1. For detailed Boundary Joist Fixings see the appropriate Boundary Joist Construction pages for more details
2. All fixings must be Stainless Steel
3. Bond all coachscrews with SIKA Supergrip to full depth.
4. For 10mm, 12mm, 15mm Toughened Glass or ULS wind load 2.39kPa.
5. For detailed Boundary Joist Fixings see the appropriate Boundary Joist Construction page
6. Decking to be as strong as wet MSG 8 timber

Product | Installation/Fitting Instructions
---|---
Substrate Preparation | • A Design engineer must ensure the structure can support the appropriate loads
• All fixings must be Stainless Steel
• All fixings must engage the structural slab

Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
• The above diagram outlines Typical Side Fix to Concrete into Concrete Installation

Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

IMPORTANT NOTE: The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
**AP78 ALUMINIUM BALUSTRADE POST SYSTEM**

**Installation / Fitting Instructions**

**Typical Base Fix to Concrete**

Using Type 3 base plate

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
</tr>
</thead>
</table>
| **Substrate Preparation**         | • A Design engineer must ensure the structure can support the appropriate loads  
                                 | • All fixings must be Stainless Steel  
                                 | • All fixings must engage the structural slab                                                                                                                                                                                      |
| **Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
                                 | • The above diagram outlines Typical Side Fix to Steel Section Installation                                                                                                                                                     |
| **Cleaning**                      | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779. |

**IMPORTANT NOTE:** The guide above is simplified, and should in no way be referenced in isolation. For full comprehensive substrate fixing details please refer through to the technical drawings.
AP78 Aluminium Balustrade Post System

Installation / Fitting Instructions

Typical Base Fix to Steel
Using Type 3 base plate

![Diagram of AP78 Aluminium Balustrade Post System]

Important Installation Notes:
1 - A Design Engineer must ensure the structure can support the appropriate loads
2 - A Rubber, EPDM or Foam Tape layer must be installed between the Baseplate and Steel
3 - All fixings must be Stainless Steel

<table>
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<tr>
<th>Product</th>
<th>Installation/Fitting Instructions</th>
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<tr>
<td>Substrate Preparation</td>
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<tr>
<td></td>
<td>• All fixings must be Stainless Steel</td>
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AP78 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Side Fix to Timber Deck
Using Coach Screws

Product | Installation/Fitting Instructions
---|---
Substrate Preparation | • A Design Engineer must ensure the structure can support the appropriate loads  
• All fixings must be Stainless Steel  
• All fixings must engage the structural slab

Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types  
• The above diagram outlines Typical Side Fix to Concrete into Concrete Installation

Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

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AP78 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Side Fix to Timber Deck
Using bolts or threaded rods

Product | Installation/Fitting Instructions
--- | ---
Substrate Preparation | • A Design engineer must ensure the structure can support the appropriate loads
• All fixings must be Stainless Steel
• All fixings must engage the structural slab

Installation of the Semi Frameless Post to the Supporting Structure | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
• The above diagram outlines Typical Side Fix to Steel Section Installation

Cleaning | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

Important Installation Notes:
1 - A Design Engineer must ensure the structure can support the appropriate loads
2 - A Rubber, EPDM or Foam Tape layer must be installed between the Post and Timber
3 - All fixings must be Stainless Steel
4 - For detailed Boundary Joint Fixings see the appropriate Boundary Joint Construction page
5 - Cladding to be as strong as wet MSG 8 timber

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AP78 ALUMINIUM BALUSTRADE POST SYSTEM

Installation / Fitting Instructions

Typical Side Fix to Concrete

![Diagram of AP78 Aluminium Balustrade Post System]

Important Installation Notes:
1. A Design Engineer must ensure the structure can support the appropriate loads.
2. All fixings must engage into the structural slab.
3. A Rubber, EPDM or Foam Tape layer must be installed between the Post and Concrete slab.
4. All fixings must be Stainless Steel.

**Product** | **Installation/Fitting Instructions**
---|---
**Substrate Preparation** | • A Design engineer must ensure the structure can support the appropriate loads.
• All fixings must be Stainless Steel.
• All fixings must engage the structural slab.

**Installation of the Semi Frameless Post to the Supporting Structure** | • Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types.
• The above diagram outlines Typical Side Fix to Concrete into Concrete Installation.

**Cleaning** | Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

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AP78 ALUMINIUM BALUSTRADE POST SYSTEM
Installation / Fitting Instructions

Typical Side Fix to Steel Section

Important Installation Notes:
1 - A Design Engineer must ensure the structure can support the appropriate loads
2 - A Rubber, EPDM or Foam Tape layer must be installed between the Post and Steel
3 - All fixings must be Stainless Steel

Cleaning
Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

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## AP78 ALUMINIUM BALUSTRADE POST SYSTEM

### Installation / Fitting Instructions

#### Side Fix example to waterproofed Timber Deck

**Installation / Fitting Instructions**

**Substrate Preparation**
- A Design engineer must ensure the structure can support the appropriate loads
- All fixings must be Stainless Steel
- All fixings must engage the structural slab

**Installation of the Semi Frameless Post to the Supporting Structure**
- Please refer to the detailed PS1 which contains fixing details for respective substrates, windzones and occupancy types
- The above diagram outlines Typical Side Fix to Concrete into Concrete Installation

**Cleaning**
- Once everything is correctly in place and the job is complete, the glass and channel needs to be cleaned. Use a non-abrasive glass cleaner on the glass and warm soapy water on the aluminium extrusion. We also recommend a soft sponge or cloth, again to avoid any risk of scratching. For full care and maintenance guidelines please refer to our comprehensive guide. Refer pages 778-779.

### Important Installation Notes:
1. A Design Engineer must ensure the structure can support the appropriate loads
2. All fixings must be Stainless Steel
3. For detailed Boundary Joint Fixings see the appropriate Boundary Joist Construction page
4. Cladding to be as strong as wet MSG 8 timber

### Cladding details
- JVB 125 Spacer
- 50sq x3mm SS Washer
- 2 x SS M10 Threaded Rod or M10 Bolts and 40mm sq x 3mm SS Washers
- Note: Clip on Cover. A little of the Front clip edges may have to be removed to clear the 40sq Washers

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AP78 ALUMINIUM BALUSTRADE POST SYSTEM
Installation / Fitting Instructions

Post Details & Components

Note - Because the Glass Bottom is mounted forward of the Deck Edge, the D Dimension is no longer 99mm.