

# SYSTEM 21 PASSENGER LIFTS NEW CAR FINISHES INSTALLATION GUIDE PICCOLO 2800219



#### **SYSTEM 21 PASSENGER LIFTS**

#### **PICCOLO**

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#### <u>Introduction</u>

This guide is to help Installers understand the new installation requirements of the New System 21 Piccolo Car Finishes. It is not intended to be exhaustive in detail and assumes that the installer already has a sound working knowledge of Stannah Passenger Lift installations or has at least been trained to the appropriate standard for installing System 21 Car Finishes. The guide can be used as a whole document or each section can be used in isolation as technical data sheets. All dimensions shown are based upon an 8 person Lift example only. If further dimension are required then call the number given below.

If in doubt call Stannah Lifts Ltd Mechanical Design Department 01264 339090



SYSTEM 21 PASSENGER LIFTS

CAR PANEL ASSEMBLY GUIDE

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#### Refer to Piccolo Car Panel Assembly Drawing 2800223-1

#### **Preparation**

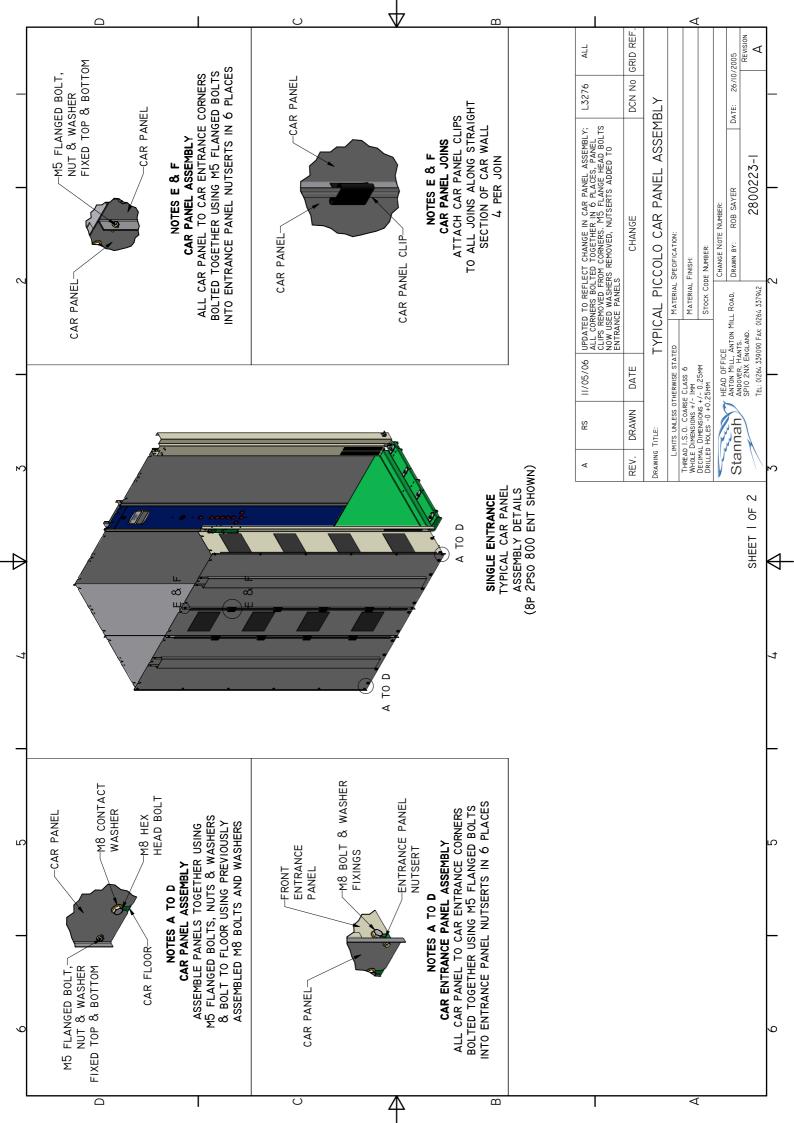
A) Screw loosely into the **Floor** vertical edge faces the **M8 Bolt and Washer fixings** in the required Car Panel positions. Ensure there is sufficient gap between the Washers and the Floor to fit in each Panel.

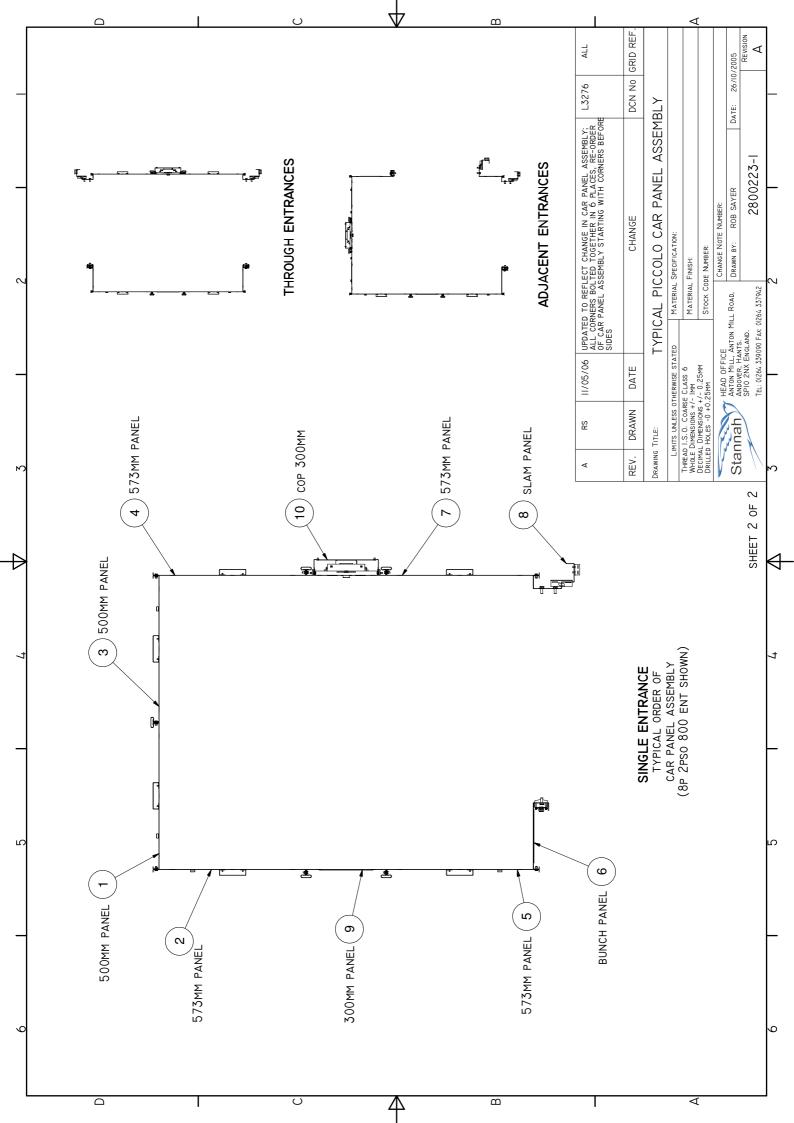
#### **Panel Assembly**

It is recommended that all bolts are fully tightened at the end of the car assembly process once all Panels and the Roof/Ceiling Assembly are in place.

- B) Starting with the corner Car Panels, Bolt the corner Car Panels to Car Panels and Car Panels to Car Entrance Panels together.
- C) For the Car Panel to Car Panel corner assemblies use M5 Flange Head Bolts, Washer and Nut fixings in 6 positions. For the Car Panel to Car Entrance Panel assemblies use M5 Flange Head Bolts only in 6 positions. All Entrance Panels have nutsert fixings therefore nuts and washers are not required.
- D) Once assembled, place corner Car Panel assemblies in position and bolt to the car floor using previously assembled M8 fixings.
- E) Bolt the remaining panels into position using the M8 floor bolts, four **Car Panel Clips** equispaced per join and **M5 Flange Head Bolts, Washer and Nut fixings** at the top and bottom.
- F) The **COP** is bolted to the Floor and its supporting panels in exactly the same way as described above in E).
- G) Bolt the **Roof/Ceiling Assembly** in position followed by the **Entrance Header Panel** (See Roof Assembly Guide for further details).
- H) Then tighten up all Bolt Fixings around the floor, panels and roof of the car.
- I) Note: Adjacent Entrance Panels do not have nutsert fixings in them, but clearance holes for the **M5 Flange Head Bolts** to attach to the other entrance and wall panels.

THE ABOVE DESCRIBES THE ASSEMBLY OF A SINGLE ENTRANCE CAR, THE PRINCIPLE OF ASSEMBLY IS THE SAME FOR THROUGH AND ADJACENT ENTRANCES ALSO.







## **SYSTEM 21 PASSENGER LIFTS**

**ROOF ASSEMBLY GUIDE** 

**PICCOLO** 





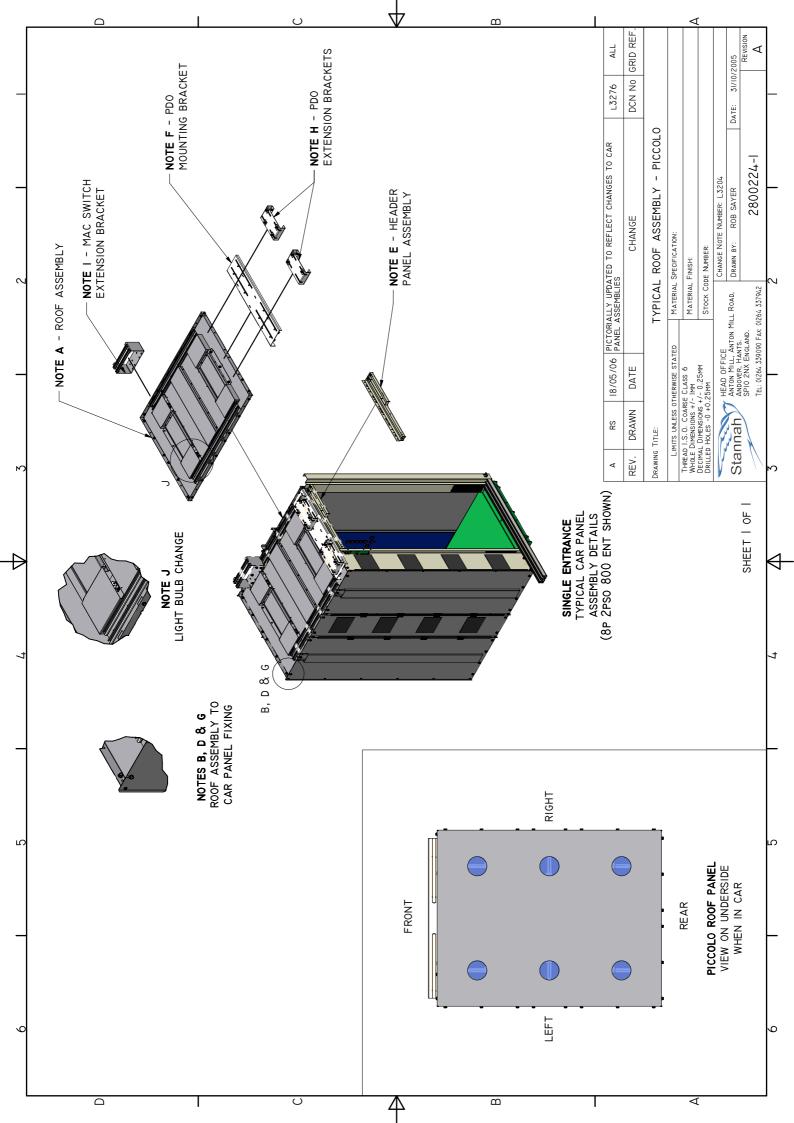
#### Refer to Piccolo Roof Assembly Drawing 2800224-1

- A) The **Roof Assembly** is supplied assembled ready to install. It requires a minimum of two persons to lift it.
- B) Screw loosely into the Roof-edge vertical faces, **M8 Bolt and Washer Fixings** in the required **Car Panel** positions ensuring there is sufficient gap between the Washers and the Roof to slide down on to the Car Panels. Do **not** place these fixings in the COP position as they are not required.
- C) It is recommended that once the **Sling and Car Floor Assembly** has been completed; the **Roof Assembly** is moved up to a higher landing so that once the Car Panels have been assembled, the Roof Assembly can be lowered into position. We recommend using a block and tackle arrangement attached to the **Lifting Beam** to do this.
- D) Upon completion of the Car Panel Assembly, the **Roof Assembly** can be lowered onto the Car Panels ensuring that the Car Panel slots slide in between the M8 Bolt and Washer fixings and the Roof-edge vertical face.
- E) Bolt the **Header Panel Assembly** to the Entrance Panels using **M8 Bolt and Washer Fixings.**
- F) Bolt the **PDO Mounting Bracket** to the Roof Assembly using the M8 Bolt and Washer Fixings in the required positions in the Roof-edge vertical faces.
- G) Tighten up all **Car Panel M8 Bolts** around the Roof Assembly, Header Panel Assembly and PDO Mounting Bracket. Remember to attach the remaining **Car Panel Clips** to the Panel joins.
- H) Bolt the **PDO Extension Brackets** to the PDO Mounting Bracket using Halfen bolt assemblies.
- I) Bolt the MAC Switch Extension Bracket to the Roof Assembly using Halfen bolt assemblies.

#### **NOTE**

J) **Light Bulbs** can be replaced by accessing each light bulb holder via the top of the Roof Assembly.

THE ABOVE DESCRIBES THE ASSEMBLY OF A SINGLE ENTRANCE CAR, THE PRINCIPLE OF ASSEMBLY IS THE SAME FOR THROUGH AND ADJACENT ENTRANCES ALSO.





## **SYSTEM 21 PASSENGER LIFTS**

HANDRAIL ASSEMBLY
AND FIXING GUIDE

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#### **SYSTEM 21 PASSENGER LIFTS**

## HANDRAIL ASSEMBLY TO CAR PANEL

#### Refer to Piccolo Handrail Assembly and Fixing Drawing 2800225-1

#### Handrail Mounting for Wall 1 and Wall 2 Car Panels

- A) Adhere the **Handrail Mounting Plates** to the external side of the Car Panels. Ensure the M8 Nutsert holes of the Handrail Mounting Plates are fully visible through the Handrail mounting holes in the Car Panel.
- B) Screw the **15mm 'Nuppsy' Fixings** through the Car Panel into the Handrail Mounting Plates until tight. Then, unscrew the 'Nuppsy' fixing by 1½ rotations back from the Panel to leave a 2mm gap between the 'Nuppsy' body face and the Panel.
- C) Attach the **Left and Right Handrail Ends to the Handrail** ensuring that the End faces are flush with each other and orientated in the same direction.
- D) Loosen off the **M6 x 12LG 'Grub' Screw** in each Handrail End.
- E) Slide the **Handrail Assembly** onto the wall-mounted 'Nuppsy' Fixings and up to the Car Panel ensuring the 'Grub' Screw holes are located downwards underneath the Handrail Ends.
- F) Tighten the 'Grub' Screws until the Handrail Assembly is locked in position.

#### Handrail Mounting for Wall 2 – ADJ/Wall 3 (COP Walls)

Follow A) and B) above for Handrail End mountings then;

- G) Locate the **M8 x 35LG SS Button Head Socket Screw** through the **Spigot** to protrude out of the 'closed' end. Using a socket screwdriver or Allen key, screw this assembly through the Car Panel into the Handrail Mounting Plate until tight ensuring the 'Grub' Screw holes are located downwards underneath the Spigot.
- H) Insert an **M8 Nutsert** into the Ø8.5 hole in the Handrail tubing and screw a **15mm 'Nuppsy' fixing** into this assembly. Then, unscrew the 'Nuppsy' fixing by 1½ rotations back from the Handrail to leave a 2mm gap between the 'Nuppsy' body face and the Handrail.
- I) Push a **Handrail End Cap** onto the end nearest the 'Nuppsy' Fixing assembled in H).
- J) Attach the **Left and Right Handrail Ends to each Handrail** ensuring that the End faces are flush with each other and orientated in the same direction as the 'Nuppsy' Fixings in the Handrails.
- K) Loosen off the M6 x 12LG 'Grub' Screw in each Handrail End and the M5 x 6LG 'Grub' Screw in each Spigot.



- L) Slide each **Handrail Assembly** onto the wall-mounted 'Nuppsy' Fixing and Spigot Assembly and up to the Car Panel. Ensure the 'Grub' Screw holes are located downwards underneath the Handrail End and Spigot.
- M) Tighten the 'Grub' Screws in each position until the Handrail Assembly is secured in position





## HANDRAIL ASSEMBLY TO 'C' SECTION MIRROR SPACER

#### Refer to Piccolo Handrail Assembly and Fixing Drawing 2800225-1

#### Handrail Mounting for Wall 1 and Wall 2 Car Panels

- A) Adhere the **Handrail Mounting Plates** to the external side of the Car Panels. Ensure that the M8 Nutsert holes of the Handrail Mounting Plates are fully visible through the Handrail mounting holes in the Car Panel.
- B) Mount the **Mirror and 'C' Section Mirror Spacer Assembly** in accordance with the Mirror Assembly instructions.
- C) Screw the **25mm 'Nuppsy' Fixings** through the 'C' Section Mirror Spacer and the Car Panel mounting holes and into the Handrail Mounting Plates until tight. Then, unscrew the 'Nuppsy' fixing by 1½ rotations back from the Mirror Spacer to leave a 2mm gap between the 'Nuppsy' body face and the Mirror Spacer.
- D) Attach the **Left and Right Handrail Ends to the Handrail** ensuring that the End faces are flush with each other and orientated in the same direction.
- E) Loosen off the M6 x 12LG 'Grub' Screw in each Handrail End.
- F) Slide the **Handrail Assembly** onto the Mirror Spacer 'Nuppsy' Fixings and up to the Mirror Spacer ensuring the 'Grub' Screw holes are located downwards underneath the Handrail Ends.
- G) Tighten the 'Grub' Screws until the Handrail Assembly is locked in position.

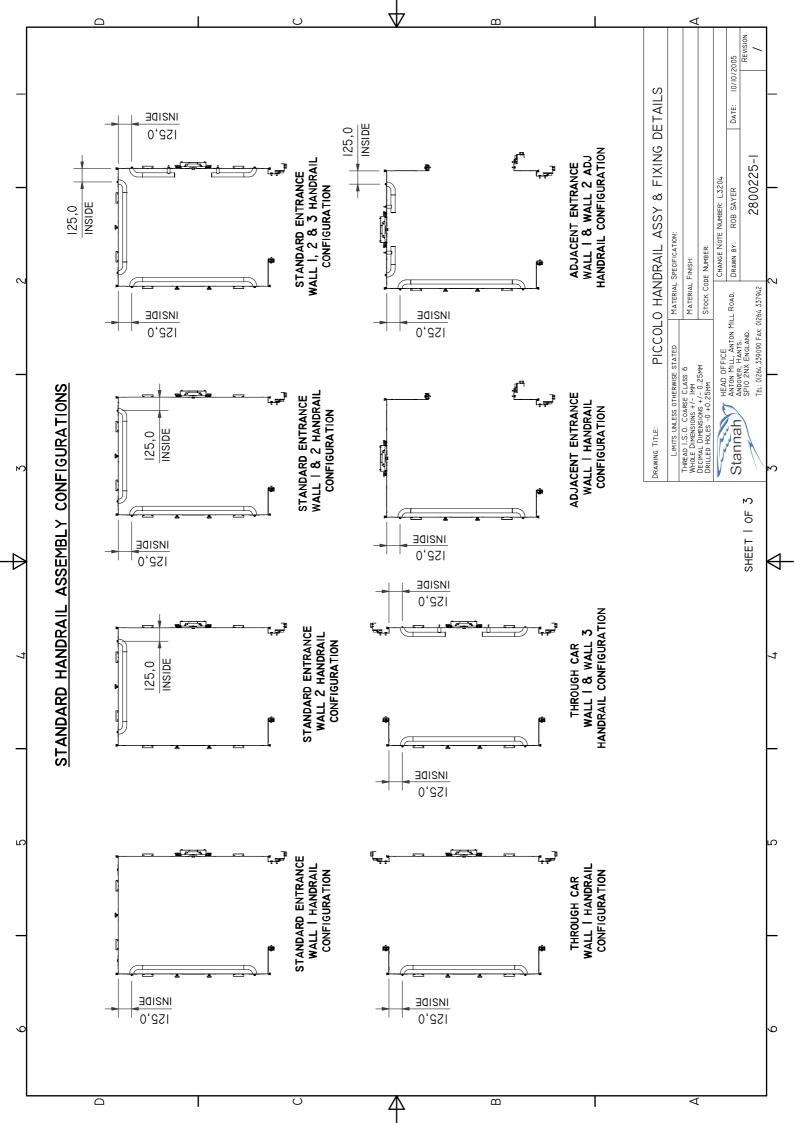
#### Handrail Mounting for Wall 2 – ADJ/Wall 3 (COP Walls)

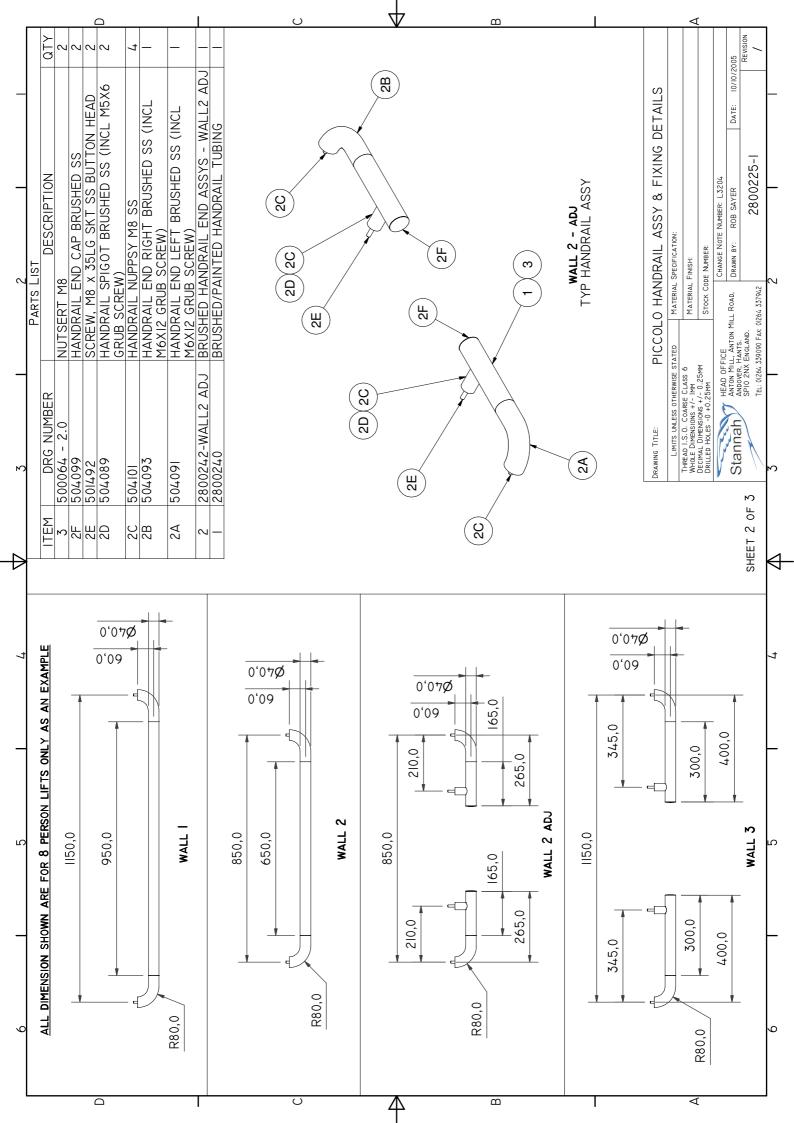
Follow A) and B) above for Handrail End mountings then;

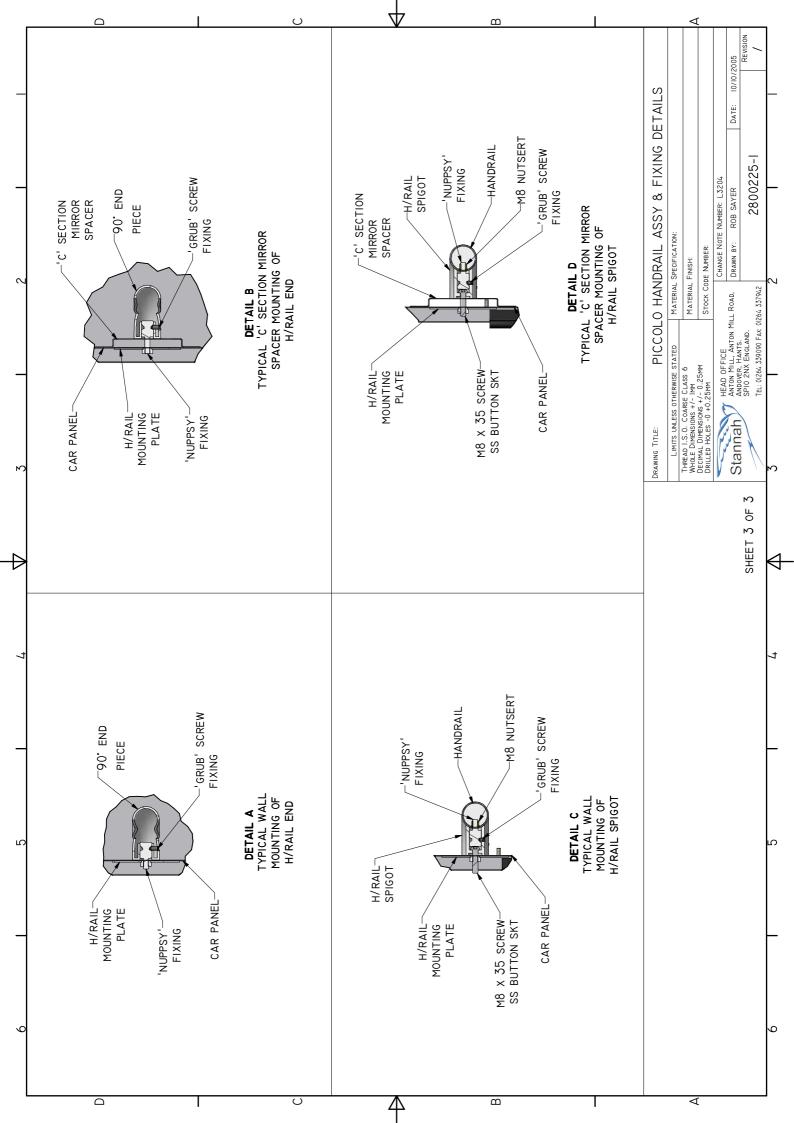
- H) Locate the **M8 x 35LG SS Button Head Socket Screw** through the **Spigot** to protrude out of the 'closed' end. Using a socket screwdriver or Allen key, screw this assembly through the 'C' Section Mirror Spacer and Car Panel mounting holes and into the Handrail Mounting Plates until tight ensuring the 'Grub' Screw holes are located downwards underneath the Spigot.
- I) Insert an **M8 Nutsert** into the Ø8.5 hole in the Handrail tubing and screw a **15mm 'Nuppsy' fixing** into this assembly. Then, unscrew the 'Nuppsy' fixing by 1½ rotations back from the Handrail to leave a 2mm gap between the 'Nuppsy' body face and the Handrail.
- J) Push a **Handrail End Cap** onto the end nearest the 'Nuppsy' Fixing assembled in I).
- K) Attach the **Left and Right Handrail Ends to each Handrail** ensuring that the End faces are flush with each other and orientated in the same direction as the 'Nuppsy' Fixings in the Handrails.



- L) Loosen off the M6 x 12LG 'Grub' Screw in each Handrail End and the M5 x 6LG 'Grub' Screw in each Spigot.
- M) Slide each **Handrail Assembly** onto the wall-mounted 'Nuppsy' Fixing and Spigot Assembly and up to the Mirror Spacer. Ensure the 'Grub' Screw holes are located downwards underneath the Handrail End and Spigot.
- N) Tighten the 'Grub' Screws in each position until the Handrail Assembly is secured in position.









## **SYSTEM 21 PASSENGER LIFTS**

**MIRROR ASSEMBLY GUIDE** 

**PICCOLO** 





#### Refer to Piccolo Mirror Finishes Drawing 2800226-1

#### If ½ Height Mirror Fitted – Refer to Drawing 2800226-1 Top Mirror Assembly only

- A) Fit the lower **Mirror Trim** in the position shown using the self tapping screws in the holes provided.
- B) Fit the upper **Mirror Trim** in the position shown using the self tapping screws in the holes provided.
- C) Insert the **8mm Spacers** into the lower Mirror Trim.
- D) Fix strips of **Self-adhesive Foam** (supplied) to the Car Panels from top to bottom between the upper and lower Mirror Trims; to be located behind the Mirror when fitted.
- E) Lift the **Mirror** and locate it into the upper Mirror Trim and then gently lower it until the Mirror sits onto the 8mm Spacers in the lower Mirror Trim. The Mirror should back onto the self-adhesive foam behind.
- F) Ensure the **Mirror** and the **Mirror Edging** is flush with the **Mirror Trim** once fitted.

#### If Full Height Mirror Fitted – Refer to Drawing 2800226-1 Top & Bottom Mirror Assemblies

- A) Fit the 'C' Section Mirror Spacer in position behind the Top Mirror Assembly's lower Mirror Trim and the Bottom Mirror Assembly's upper Mirror Trim using the self tapping screws in the holes provided.
- B) Fit the remaining **Mirror Trims** in positions shown using the self tapping screws in the holes provided.
- C) Insert the **8mm Spacers** into the lower Mirror Trims of the Top and Bottom Mirror Assemblies.
- D) Fix strips of **Self-adhesive Foam** (supplied) to the Car Panels from top to bottom between the upper and lower Mirror Trims of each assembly; to be located behind the Mirrors when fitted.
- E) Lift in each **Mirror** and locate it into the upper Mirror Trim and then gently lower it until the Mirror sits onto the 8mm Spacers in the lower Mirror Trim. The Mirrors should back onto the self-adhesive foam behind.
- F) Ensure each **Mirror** and **Mirror Edging** is flush with the **Mirror Trim** once fitted.

