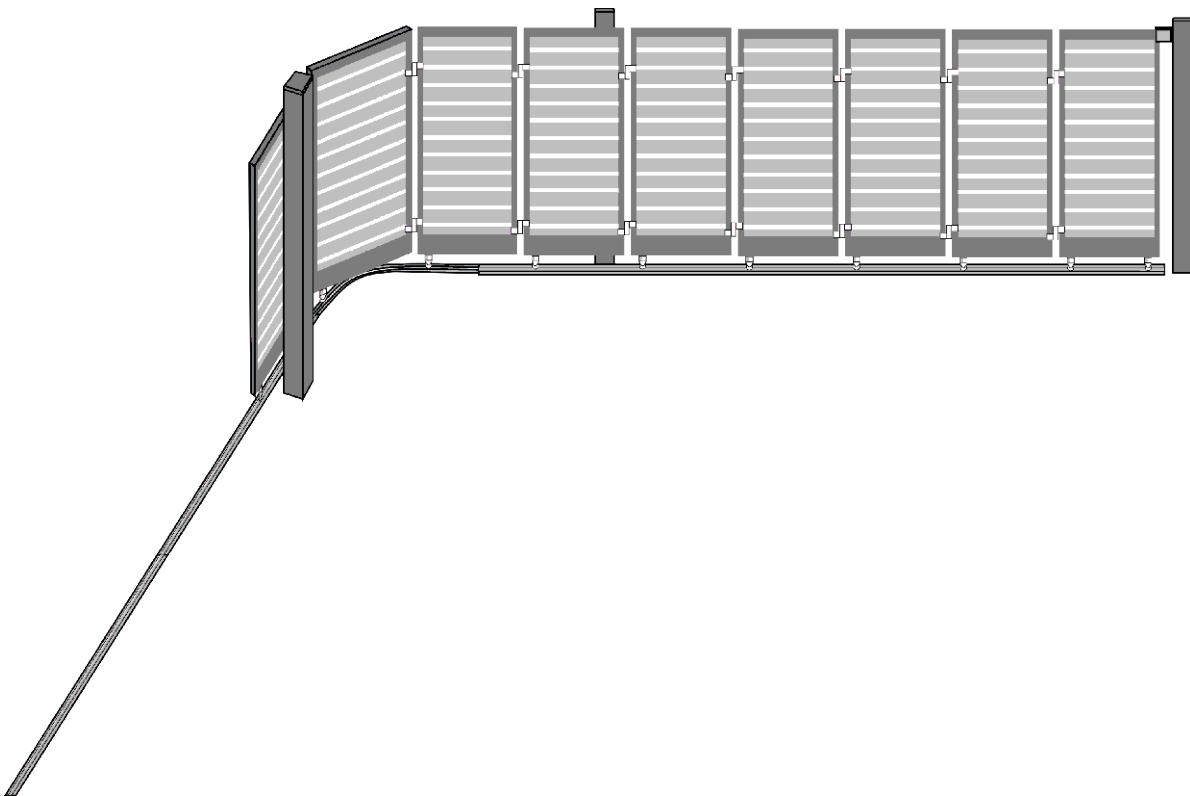# Automation Systems
AUSTRALIA

# Radius/Turning/Sectional Sliding Gate Installation Guideline

This is an engineering product and this booklet is purely a **guideline**, it does not and cannot take into account each site and there specific requirements, this includes but is not limited to exact support post positions, overhangs and other site related matters.

Precautions:

1. The operating plane must be perfectly level, the radius gate hinge systems do not have a tolerance for up/down panel manoeuver greater than 1-2mm.

2. The provided divisions of 500mm/1000mm/1500mm are based on GR5K sliding gear rack with allowance for hinging gap and allowing the joint to stay flush with the gate panel although if required the panels could be slightly shorter/longer with overhang, the maximum supported panel size is 1800mm
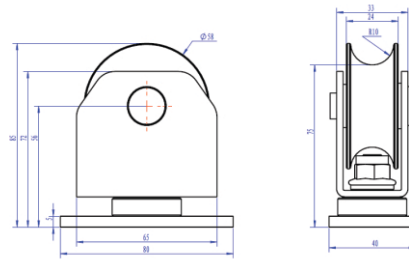
Gate Structure Guideline

Final Height
(-90mm wheel
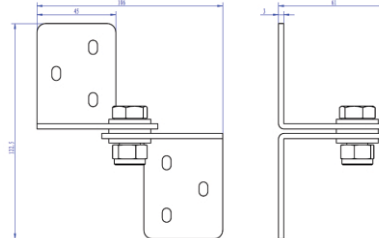& Track)

50x50/40x40

75x50/80x40
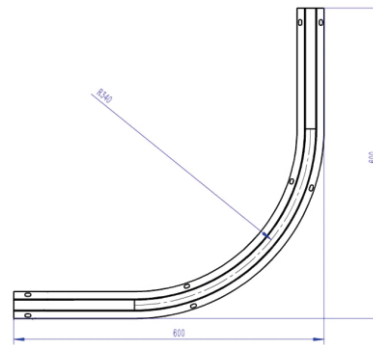
Min. 500mm - Max.1800mm
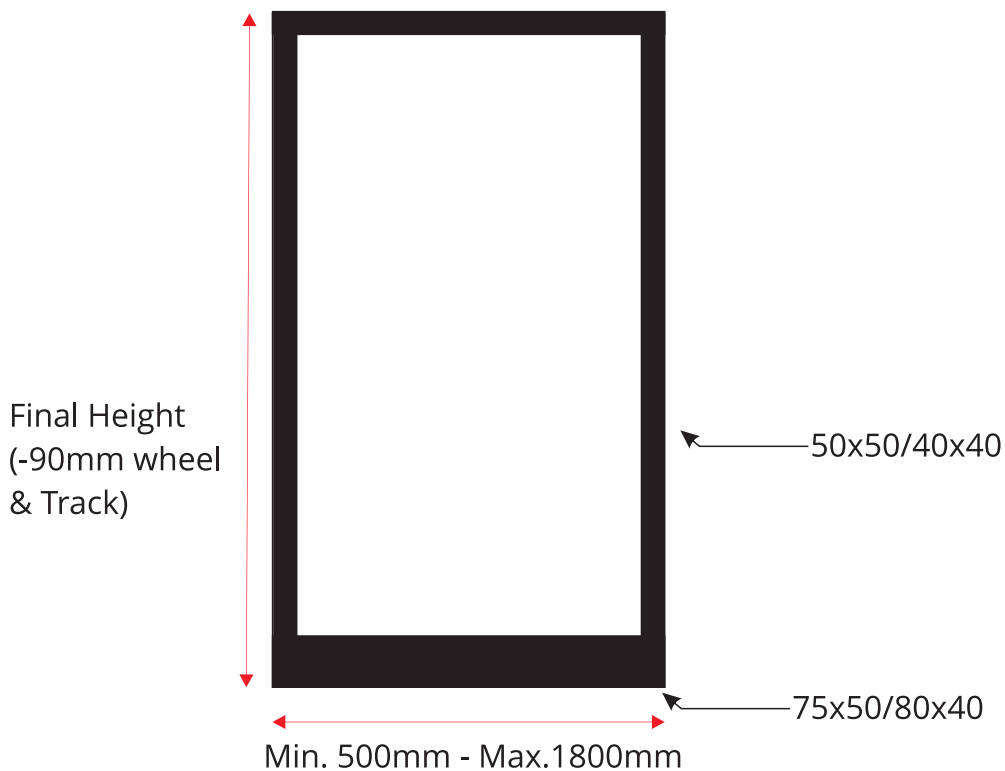
Kit Hardware

RADIUS-WHL

RADIUS-HINGE

SGT-1M-TURN90

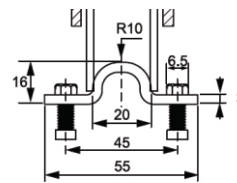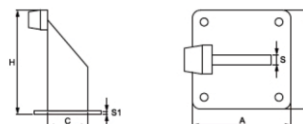NR-WH-3040-BR-60105
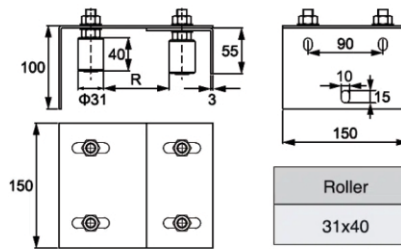
Roller	R(mm)
31x40	60/105

SGT-1M/2M/3M

SGS-145

AxB (mm)	C(mm)	S(mm)	S1(mm)	H(mm)
100x100	60	10	6	145

Step 1 (Perpendicular Method)

Calculating the gate panel sizes (parallel method on next page).

When the sliding gate motor is installed Perpindicular with driveway opening

Driveway Opening /500mm Driveway opening /1000mm Driveway opening /1500mm	= Qty of SLS panels when rounded UP

+

Additional Panel 500/1000/1500 to be SLM

+

+2x Additional Panels for SLS-E
(one across the radius and creating a tail totally perpendicular to driveway)

The last panel can be longer to reach the roller support post

Definitions:
SLM= First panel with two wheels
SLS= Trailing Panels
SLS-E= Extension Panels to achieve perpendicular installation (if applicable)

Y Area (Open total) APPROX.
Qty of SL panels * 15mm= Gaps Total mm
+ measurement of SL panels= SL panels total mm
+ measurement of the SLM panel in mm
+ 1x SLS-E (Longest)

Calculating the gate panel sizes (perpendicular method on previous page).

Each panel MUST clear the upper roller system before beginning its turning manoeuver

P

P

P

P

Upper Roller System

Y
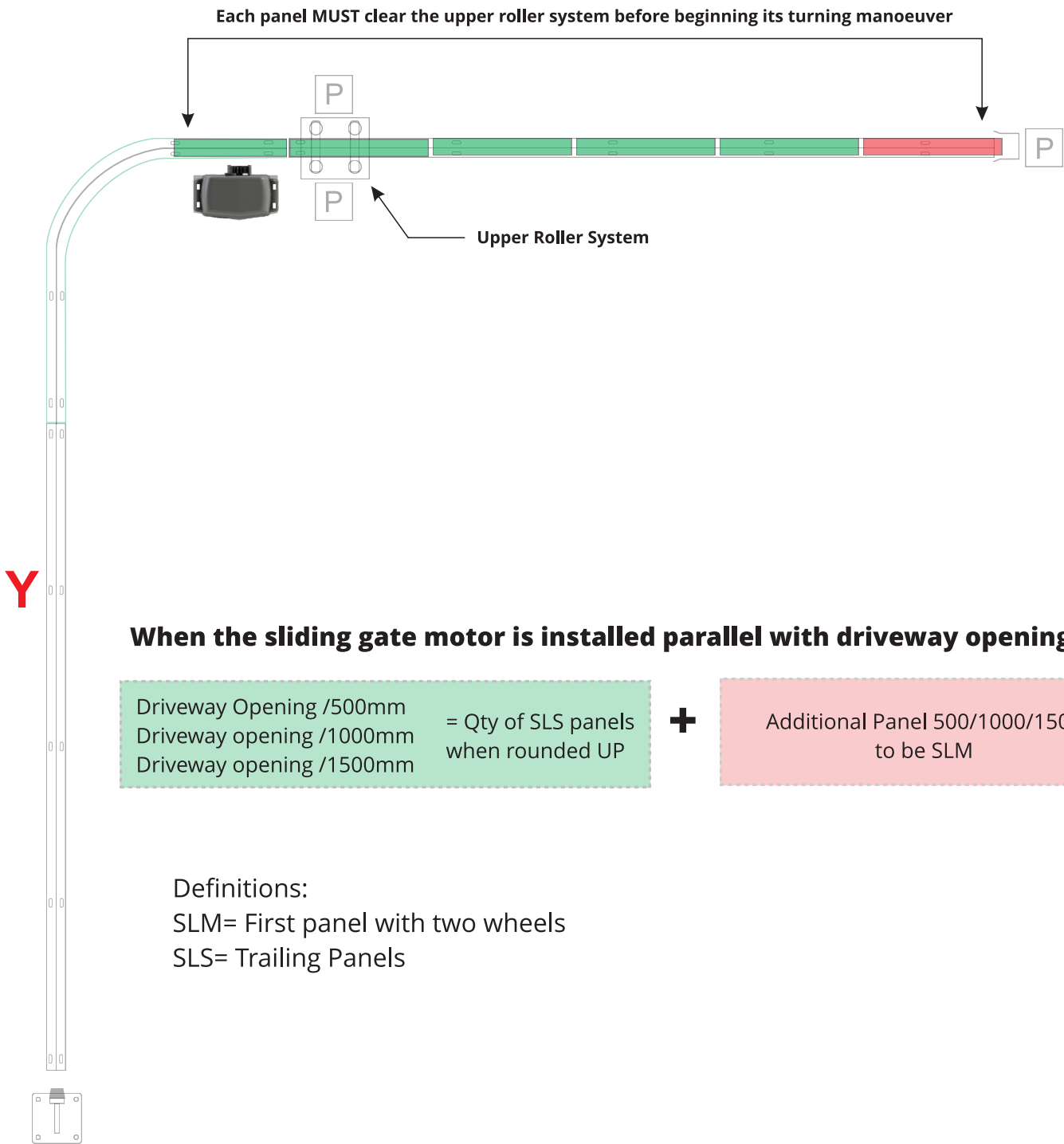
When the sliding gate motor is installed parallel with driveway opening

Driveway Opening /500mm Driveway opening /1000mm Driveway opening /1500mm	= Qty of SLS panels when rounded UP	**+** Additional Panel 500/1000/1500 to be SLM

Definitions:
SLM= First panel with two wheels
SLS= Trailing Panels

Y Area (Open total) APPROX.
Qty of SL panels * 15mm= Gaps Total mm
+ measurement of SL panels= SL panels total mm
+ measurement of the SLM panel in mm

Step 2

Install TWO wheels to SLM panel, this is the first panel against the closed position post.
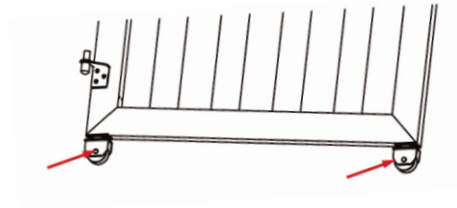
Step 3

Install ONE wheel to the each SLS panel at the opening direction end, if an SLE panel exists use the same technique.

Opening Direction Right

Opening Direction Left
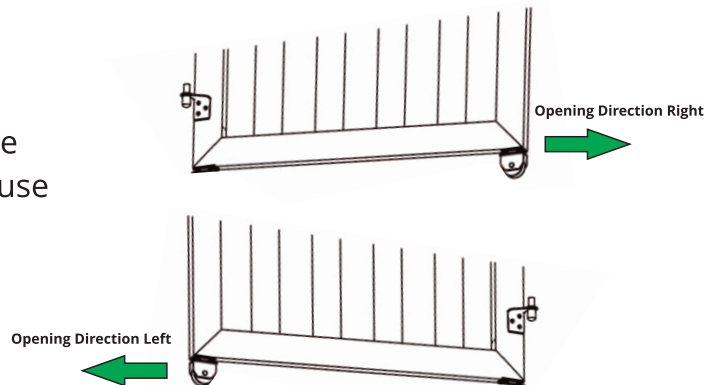
Step 4

Install all gate panels with a 15mm clear hinge gap, ensure top hinge does not conflict with upper roller guide and ensure the bottom hinge does not conflict with the gear rack. A simple rule is to install the hinges 200mm from top and bottom of the panel.

15mm

200mm
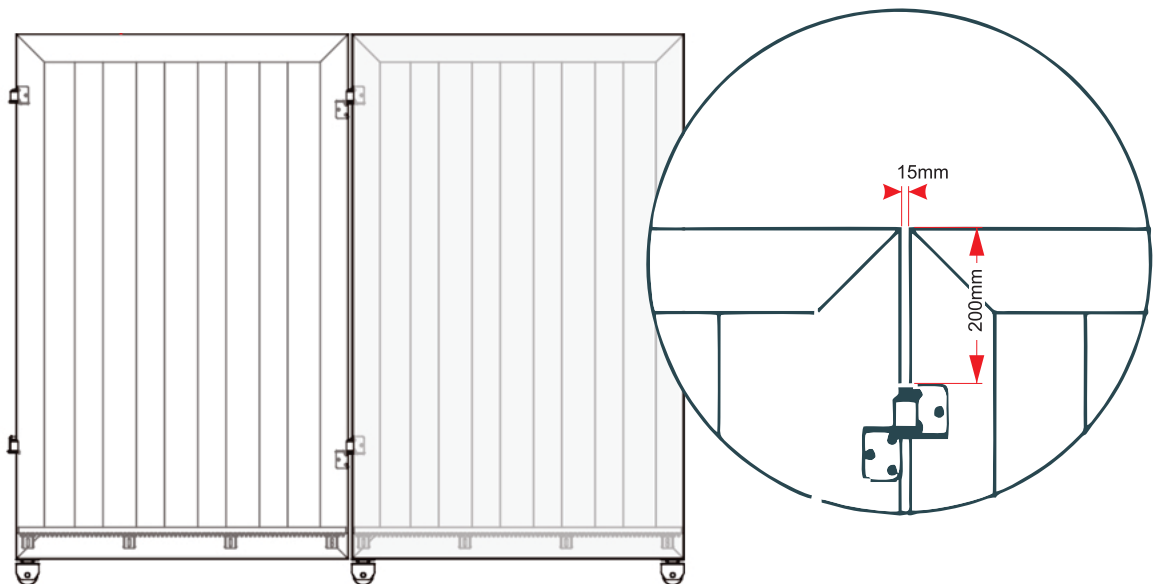
Step 5

Install the open position TALL end stop
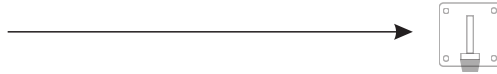
Step 6

Install all panels in place and set the four point roller system

Step 7

6. Install the closed position gate catcher

Perpendicular Position

Parallel Position
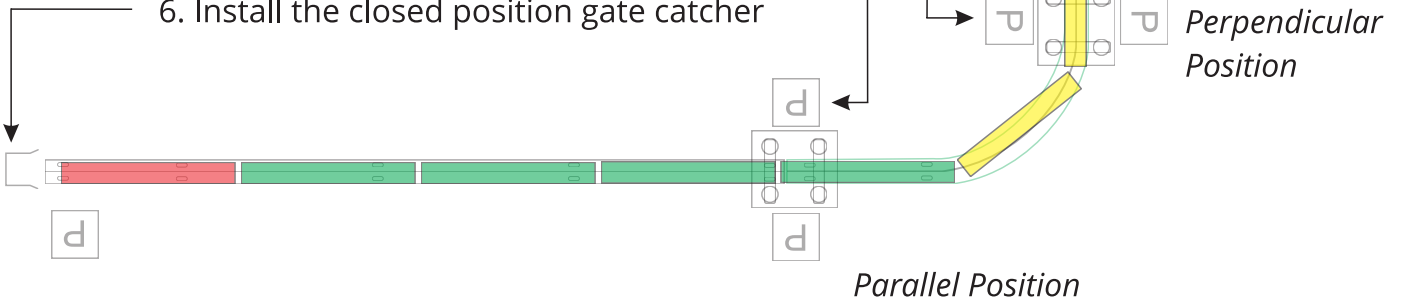
Step 8

Install the Titan 2410 Sliding gate motor following the normal installation steps with a few minor exceptions:

1. A Titan riser kit is required to align with gates bottom rail.

2. A slice through the gear rack at the exact centre of hinge gap, the cut is made after installing the gear rack.

3. FS Setting should be decreased to "04" then calibration is required.