

# Orion Soft Close Hinge



Patented Damping Mechanism and Tension Adjustment

Special Designed Locator Prevents Gate From Sagging

Dampers Are Vertically Oriented to Prevent Hydraulic Fluid Leaking

Damping Angle Adjustment Mechanism Enables Accurate Closing Time Adjustment

Patented Roller Designed Ensures Smooth Soft-closing Action At Any Angle of Release  
Independently Test to 25,000+ Cycles (2.5 Times the Australian Standard Requirement) by  
NATA Accredited Laboratory

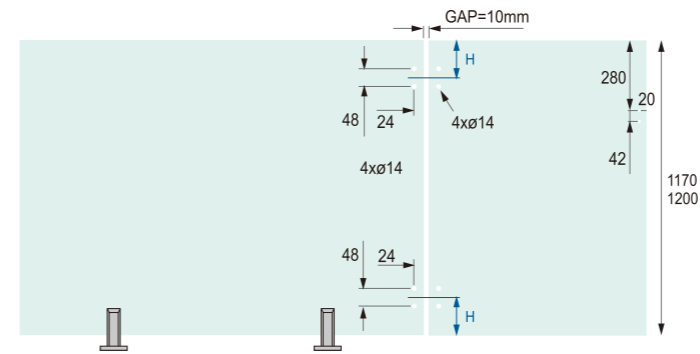
## Patents & Certificate



## Advantages of Installation Through Holes

Orion Soft Close Hinge is compatible with glass gates with fixing holes or cut-outs, with installation through holes being the preferred installation method with several advantages:

- 1 Installation through holes guarantee that the gate will never sag.
- 2 Installation through holes is quicker and more convenient.
- 3 Gates with fixing holes are more rigid than gates with cut-outs.
- 4 Glass panel with holes is cheaper compare to glass panel with cut-outs.
- 5 All our glass panels with holes are compatible with our Orion soft close hinge and spring hinge range.
- 6 Installation through holes allows the distance between the top hinge and bottom hinge to be maximize, which provides a steadier grip and better performance for the hinge.



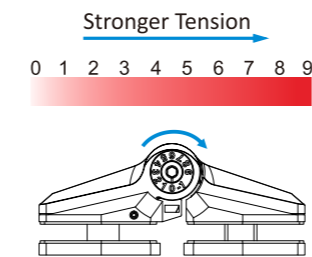
For optimal gate performance, the distance between the two hinges should be as far apart as possible. The traditional distance(H) from hinge center to glass edge (top and bottom) is 200mm, we recommend to make it 90-100mm which ensures the distance between top and bottom hinges is greater than 900mm to eliminate the need for safety cap while the hinges provide a better grip and even distribution of force to the gate, ensuring better closing action and longevity of hinges.



Normally there is a tolerance when drill holes in the glass so we designed oval studs working with special washers and arched packers to correct the off center hole position to make the top and bottom hinges to be perpendicularly aligned and working co-axially.

Orion Hinge also can be fixed through cut-outs. We designed a removable and adjustable adaptor insert which can be adjusted vertically and horizontally by a wrench to fit into cutouts. This adaptor insert also works as a locator to prevent gate from sagging.

If fine-tune adjustment in closing time is required, adjust the damper stroke through the damper adjustment mechanism. Screw downwards to reduce the damper engagement angle to speed up closing time and un-screw to extend the damper engagement angle to slow down closing time



As for the adjustment of self-closing tension (closing speed), we have come up with a different approach to overcome all the hassles associated with adjusting conventional gate hinges – Orion Hinge offers a quick and easy tension adjustment with just an Allen Key.



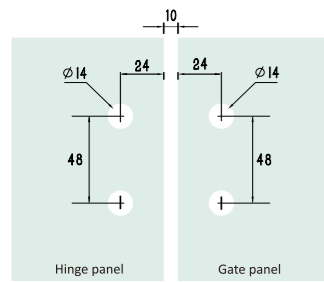
Pursuant to Australian safety standard, if the distance between top and bottom hinges is less than 900mm, a safety cap has to be installed to prevent children from climbing. Orion Hinge is equipped with a quick and convenient safety cap which can be installed when needed.

## Glass to Glass Orion Hinge

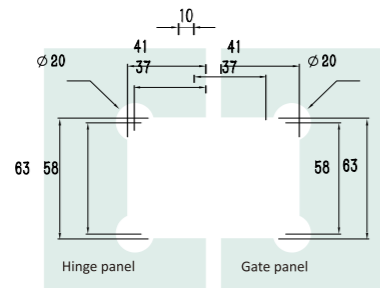
Patented soft close hinge-Glass to Glass application  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented tension adjustment (closing speed adjustment) with just an Allen key  
Special designed locator to prevent gate from sagging  
**Multi fit, compatible with glass gates with fixing holes or cut-outs**



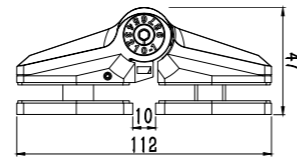
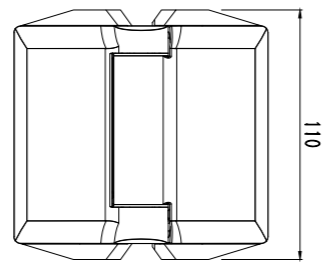
Code	Finish
SHC4811M5	Polished
SHC4811S5	Satin
SHC4811B5	Matt Black



Holes Specification in The Glass  
(measured in millimeter)



Holes Specification in The Glass  
(measured in millimeter)

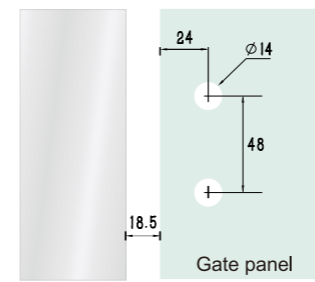


## Glass to Square Post Orion Hinge

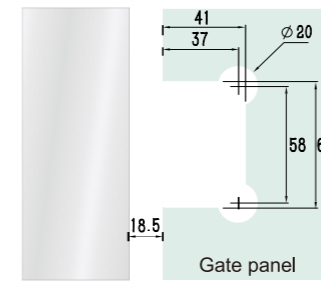
Patented soft close hinge-Glass to Square Post application  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented tension adjustment (closing speed adjustment) with just an Allen key  
Special designed locator to prevent gate from sagging  
**Multi fit, compatible with glass gates with fixing holes or cut-outs**



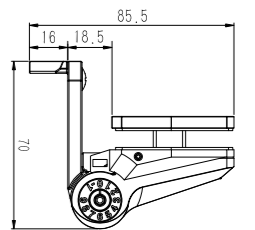
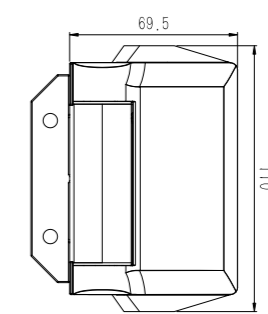
Code	Finish
SHC4841M5	Polished
SHC4841S5	Satin
SHC4841B5	Matt Black



Holes Specification in The Glass  
(measured in millimeter)



Holes Specification in The Glass  
(measured in millimeter)

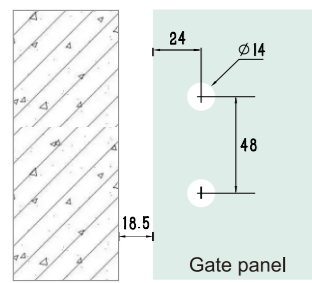


## Glass to Wall Orion Hinge

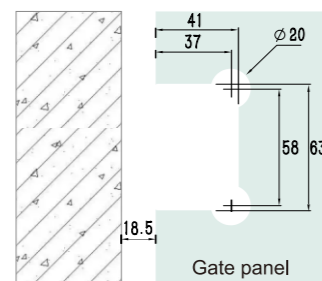
Patented soft close hinge-Glass to Wall application  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented tension adjustment (closing speed adjustment) with just an Allen key  
Special designed locator to prevent gate from sagging  
**Multi fit, compatible with glass gates with fixing holes or cut-outs**



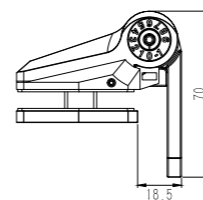
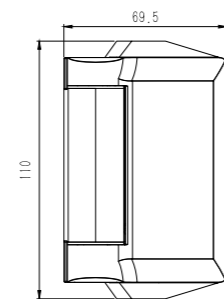
Code	Finish
SHC4821M5	Polished
SHC4821S5	Satin
SHC4821B5	Matt Black



Holes Specification in The Glass  
(measured in millimeter)



Holes Specification in The Glass  
(measured in millimeter)

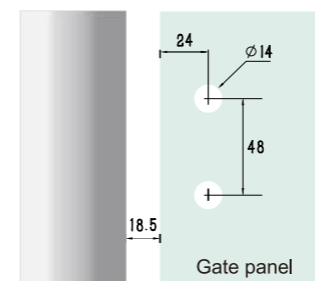


## Glass to ø50.8 Post Orion Hinge

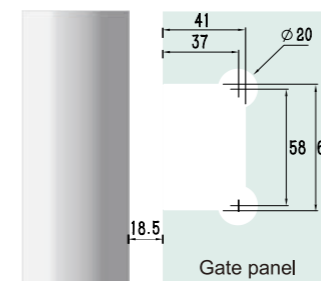
Patented soft close hinge-Glass to ø50.8 Round Post application  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented tension adjustment (closing speed adjustment) with just an Allen key  
Special designed locator to prevent gate from sagging  
**Multi fit, compatible with glass gates with fixing holes or cut-outs**



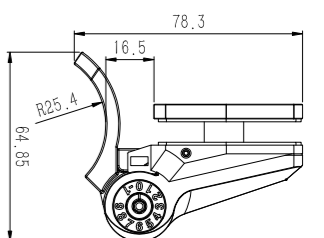
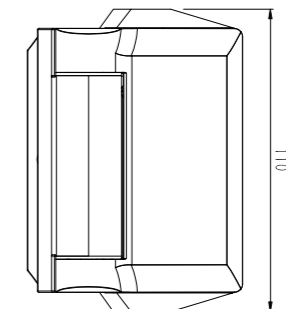
Code	Finish
SHC4851M5	Polished
SHC4851S5	Satin
SHC4851B5	Matt Black



Holes Specification in The Glass  
(measured in millimeter)



Holes Specification in The Glass  
(measured in millimeter)





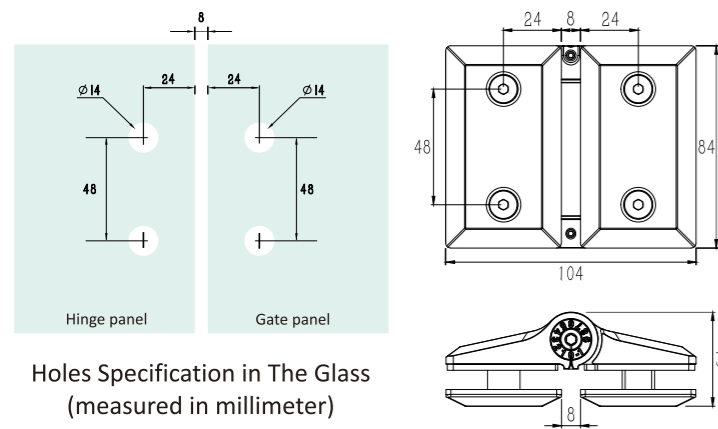
# Glass to Glass Spring Hinge

Heavy duty spring hinge- glass to glass application  
Self close at any release angles  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented easy tension adjustment (closing speed adjustment) just with an Allen key  
Weight capacity: 45 kgs  
Special designed oval studs and curved packers to correct the off center hole position



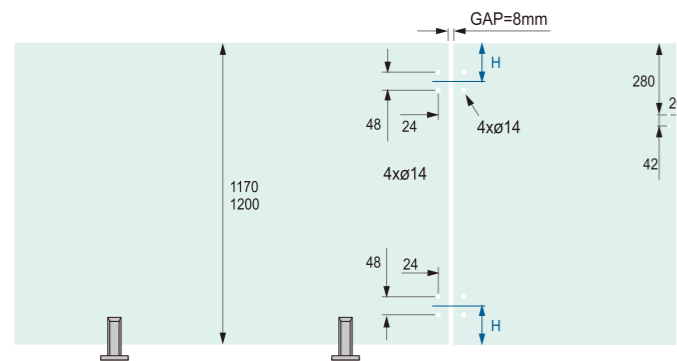
Code	Finish
SHC2414M5	Polished
SHC2414S5	Satin
SHC2414B5	Matt Black

Installation through holes is preferred for a more rigid and non-sagging gate



## Our Recommendation

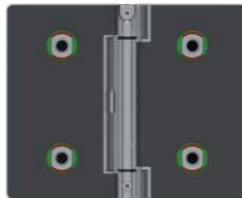
For optimal gate performance, the distance between the two hinges should be as far apart as possible. The traditional distance(H) from hinge center to glass edge is 200mm, we recommend to make it 90-100mm which ensures the distance between top and bottom hinges is greater than 900mm to eliminate the need for safety cap while the hinges provide a better grip and even distribution of force to the gate, ensuring better closing action and longevity of hinges.



## Feature 1

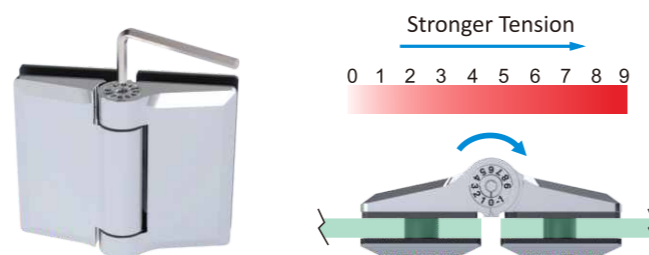
Often there is a tolerance when holes are drilled in the glass, which will cause misalignment in the height of hole positions in hinge panel and gate panel. In order to overcome this, we designed oval studs working with arched packers to correct the off center hole position.

Arched packers (shown in red) are used in the gaps between stud and washer (shown in green) to correct the off center hole position and allow the top and bottom hinges to be perpendicularly aligned and working co-axially.



## Feature 2

Our heavy duty spring hinge offers quick and easy tension adjustment with just an Allen key. And there is a spring protection mechanism in the hinge to stop the tension adjustment over the maximum setting "9" to prevent over-tensioning of the spring.



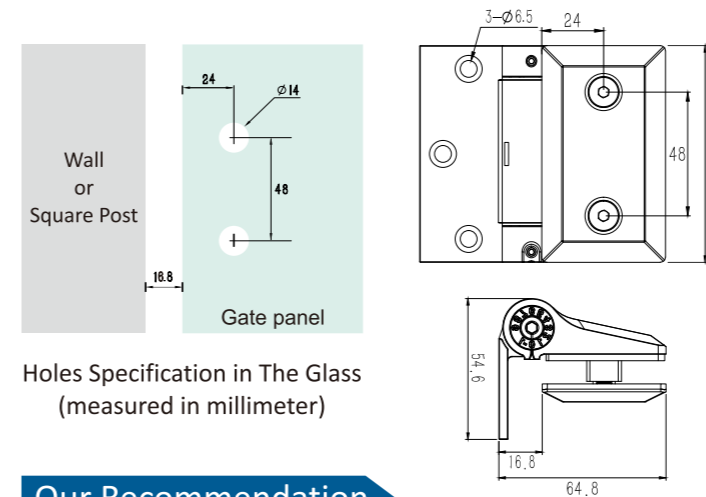
# Glass to Wall Spring Hinge

Heavy duty spring hinge- glass to wall / square post application  
Self close at any release angles  
Complies with Australian standards for pool fencing  
Robust and corrosion resistant construction made of duplex 2205 stainless steel  
Suitable for 8mm, 10mm and 12mm glass gates  
Patented easy tension adjustment (closing speed adjustment) just with an Allen key  
Weight capacity: 45 kgs  
Special designed oval studs and curved packers to correct the off center hole position



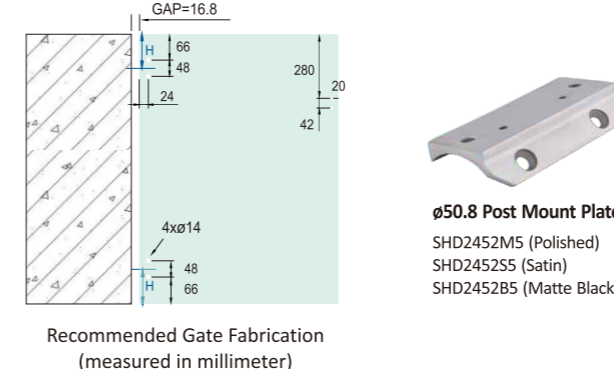
Code	Finish
SHC2424M5	Polished
SHC2424S5	Satin
SHC2424B5	Matt Black

Installation through holes is preferred for a more rigid and non-sagging gate



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The standard gap between the wall surface and gate panel is 16.8 mm. If a narrower gap is required, the hole position relative to the gate edge can be changed to achieve this, the minimum gap is 6 mm.

## Feature 1

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