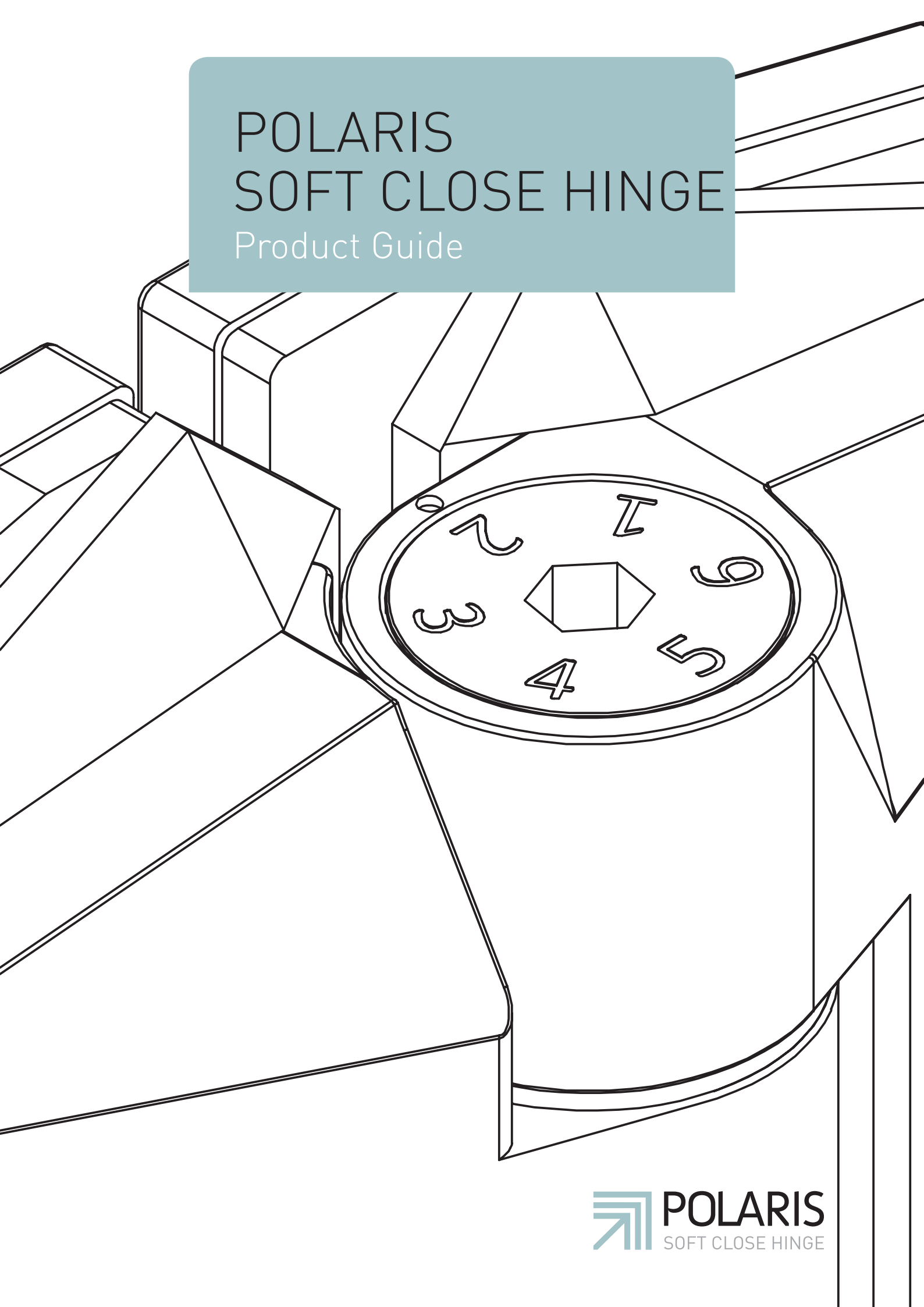


POLARIS SOFT CLOSE HINGE

Product Guide



INTRODUCING POLARIS SOFT CLOSE HINGE

STATE-OF-THE-ART SELF-CLOSING HINGE FOR FRAMELESS GLASS

The Polaris Soft Close Hinge developed by Glass Hardware Australia is a unique self-closing hinge for use in all outdoor and indoor frameless glass applications. It was designed to meet the tough requirements of frameless glass pool fencing in Australia so can be used in all applications where glass doors or gates are needed. The Polaris Soft Close Hinge is designed to be resistant to chemicals, to operate in a wet environment and to withstand constant outdoor use and the harsh Australian weather.

To be used as a glass pool fence hinge meant it had to be durable, reliable and last for at least ten years. The sleek stainless steel construction makes it strong and durable but also makes it stylish and attractive. As an architectural feature it is minimalist and its design geometry is compatible with the toughened glass it supports.

The Polaris Soft Close Hinge uses a spring and shock absorbers to ensure gentle closing every time from any position, position, whether fully or only slightly open. The Polaris Soft Close Hinge closes with a soft and light action not only making it safe but also quiet in operation.

As a glass pool fence hinge it is the safest and most reliable hinge in the industry complying with the stringent Australian Standards AS1926 and AS 2820. Both the Royal Life Saving Society Australia and the Samuel Morris Foundation—organisations dedicated to preventing child drownings—have endorsed the product for use in Australian pools.

In 2010 & 2016 the Polaris Soft Close Hinge was awarded a prestigious Australian International Design Mark™ Award. Presented by Standards Australia, the Australian International Design Awards

is Australia's premier design assessment program. Products were judged for their innovation, visual and emotional appeal, functionality, quality of manufacturing, usability (ergonomics and safety) and environmental sustainability.

Michael Stuart, the CEO of Glass Hardware Australia, is an industry insider with significant, first-hand experience of installation (and materials supply) and understands the needs of installers, customers and other major stakeholders in the industry. His passionate concern for the safety of glass pool fences has driven him to develop a soft close hinge that will not only meet Australia's safety standards for glass pool fences but is suitable for a range of indoor and outdoor applications.

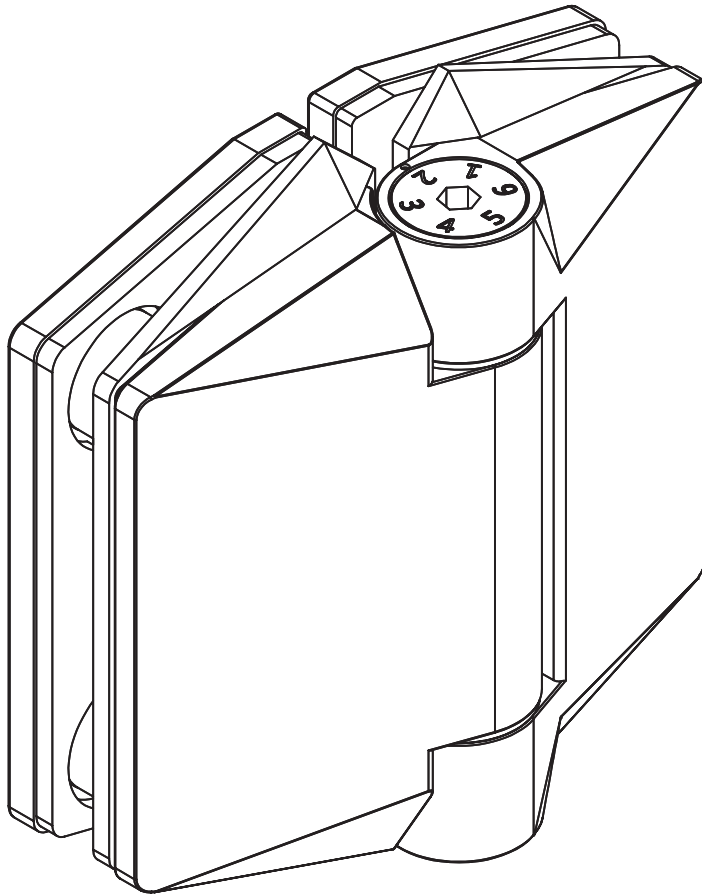
The Polaris Soft Close Hinge is a state-of-the-art product that is ahead of its rivals in design, style and safety.

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	Magnetic Door Handles Glass Gate/Door cut out	
	Magnetic Receiver Glass Panel cut out	
	Spigot & Channel Grout	

120 SERIES POOL HINGE

GLASS TO GLASS



120 SERIES POOL HINGE

- SELF-CLOSING SAFETY HINGE FOR GLASS POOL FENCING
- TO BE USED WITH CHILD PROOF SAFETY LATCH
- COMPLIES WITH AUSTRALIAN STANDARDS FOR POOL GATE HARDWARE
- NATA ACCREDITED AND INDEPENDENTLY TESTED TO 10'000 CYCLES (NATA = NATIONAL ASSOCIATION OF TESTING AUTHORITIES AUSTRALIA)

FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- MATT BLACK
- SINGLEACTION
- SOFTCLOSE
- NON-HOLD OPEN
- ANTI-FOOT-HOLD GASKET



10mm
12mm



MAX.
900mm WIDE x
1500mm HIGH



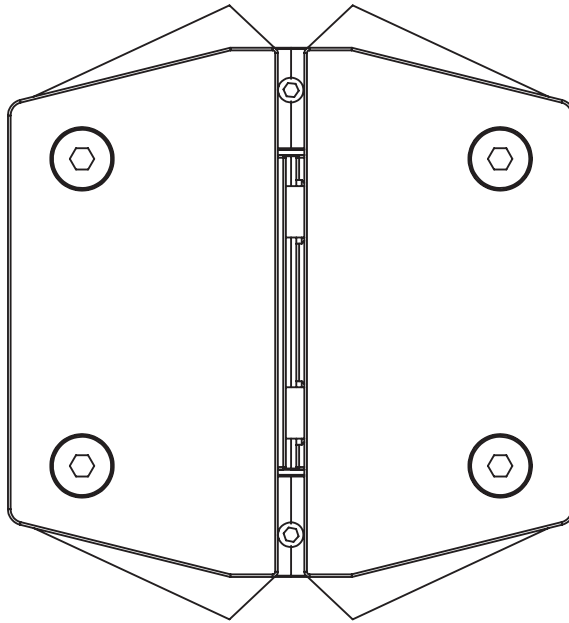
MAX 45kg



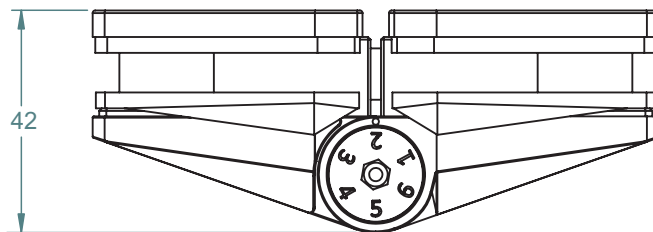
— 10°C
+ 50°C



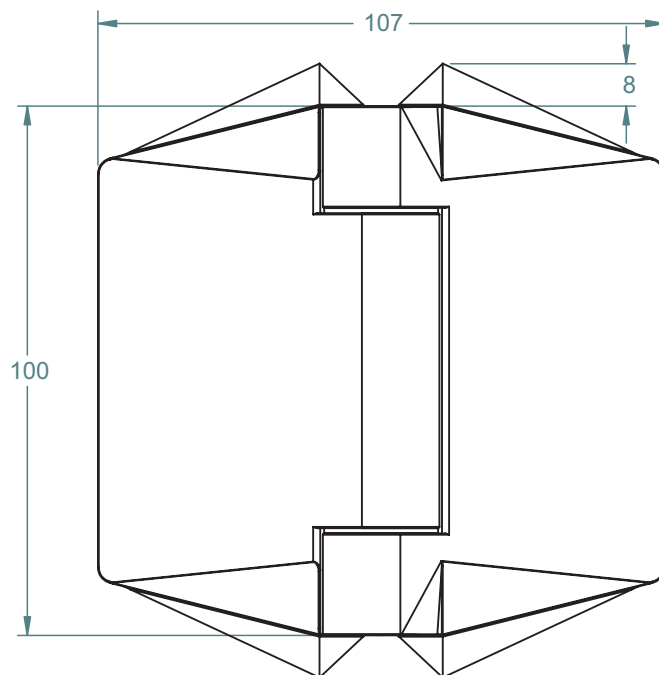
90°



REAR VIEW



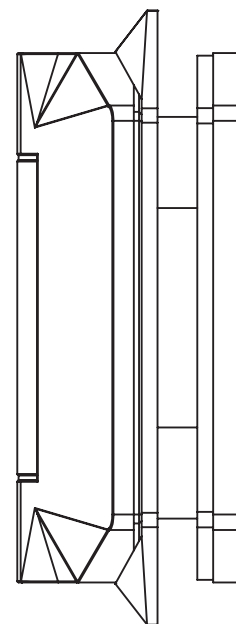
TOP VIEW



FRONT VIEW

TO ORDER SPECIFY:

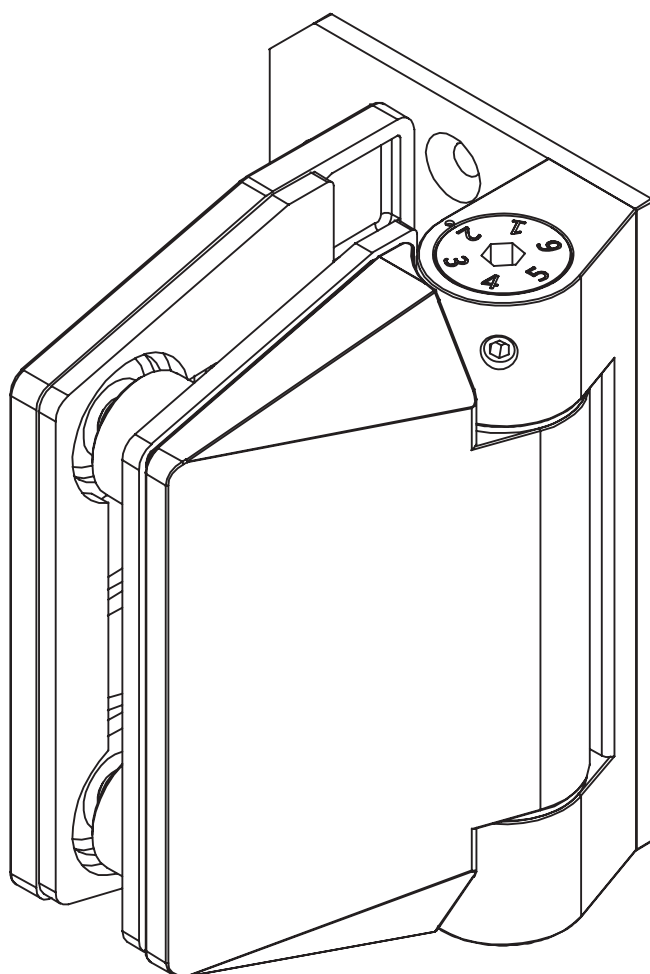
- **120PGGP** POLISHED FINISH
- **120PGGS** BRUSHED FINISH
- **120PGGB** BLACK FINISH



SIDE VIEW

120 SERIES POOL HINGE

GLASS TO WALL



120 SERIES POOL HINGE

- SELF-CLOSING SAFETY HINGE FOR GLASS POOL FENCING
- TO BE USED WITH CHILD PROOF SAFETY LATCH
- COMPLIES WITH AUSTRALIAN STANDARDS FOR POOL GATE HARDWARE
- NATA ACCREDITED AND INDEPENDENTLY TESTED TO 10'000 CYCLES (NATA = NATIONAL ASSOCIATION OF TESTING AUTHORITIES AUSTRALIA)

FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- MATT BLACK
- SINGLEACTION
- SOFTCLOSE
- NON-HOLD OPEN
- ANTI-FOOT-HOLD GASKET



10mm
12mm



MAX.
900mm WIDE x
1500mm HIGH



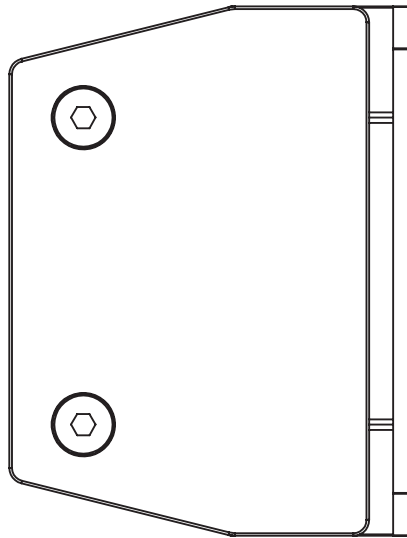
MAX 45kg



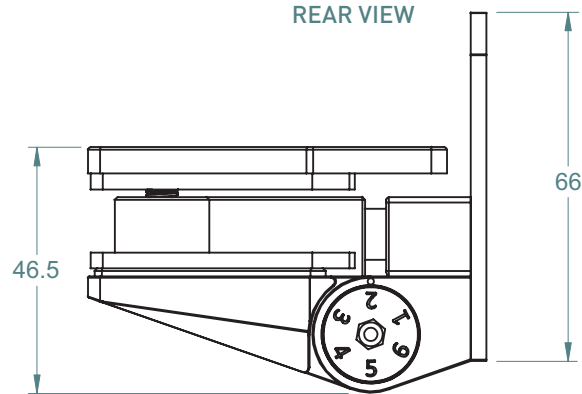
— 10°C
+ 50°C



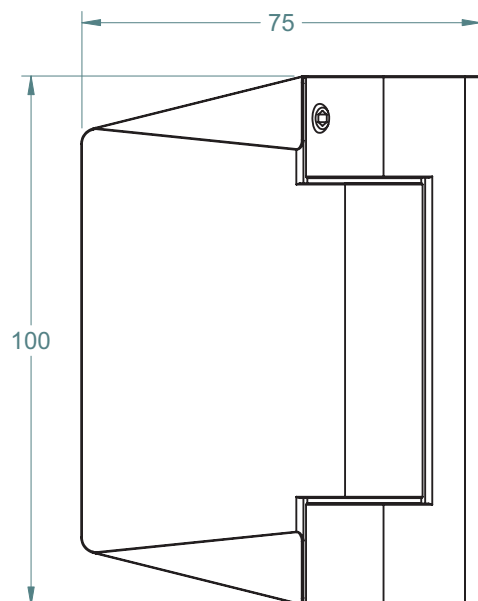
90°



REAR VIEW



TOP VIEW

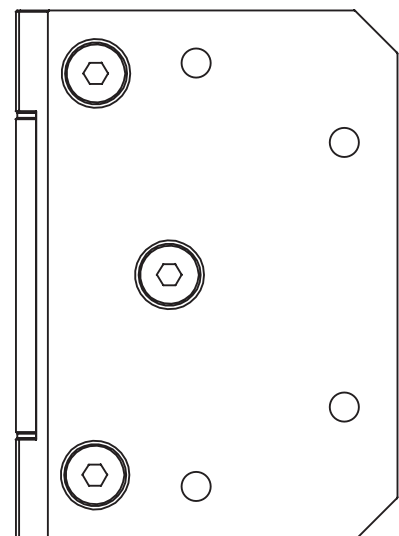


FRONT VIEW

TO ORDER SPECIFY:

- 120PGWP POLISHED FINISH
- 120PGWS BRUSHED FINISH
- 120PGWB BLACK FINISH

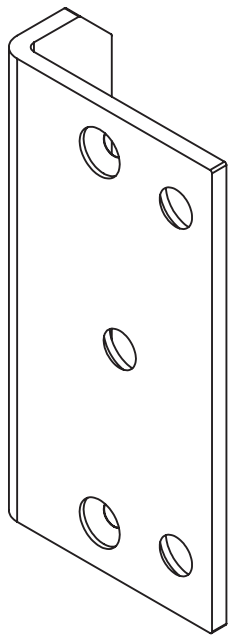
SQUARE OR ROUND
POST BRACKETS
AVAILABLE



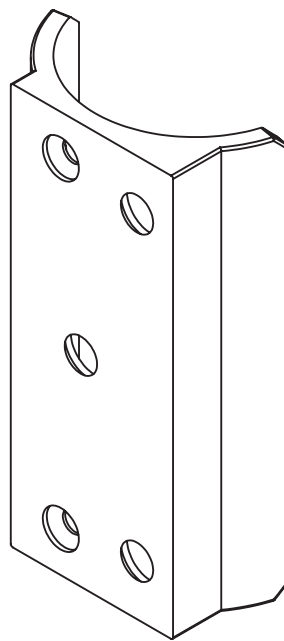
SIDE VIEW

120 SERIES POOL HINGE

GLASS TO POST BRACKETS



**SQUARE POST
BRACKET**
(MODEL 120PSP)



**ROUND POST
BRACKET**
(MODEL 120PRP)

120 SERIES POOL HINGE

- SELF-CLOSING SAFETY HINGE FOR GLASS POOL FENCING
- TO BE USED WITH CHILD PROOF SAFETY LATCH
- COMPLIES WITH AUSTRALIAN STANDARDS FOR POOL GATE HARDWARE
- NATA ACCREDITED AND INDEPENDENTLY TESTED TO 10'000 CYCLES
(NATA = NATIONAL ASSOCIATION OF TESTING AUTHORITIES AUSTRALIA)

FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- MATT BLACK
- DESIGNED TO FIT WITH GLASS TO WALL HINGE (MODEL 120PGW)



10mm
12mm



MAX.
900mm WIDE x
1500mm HIGH



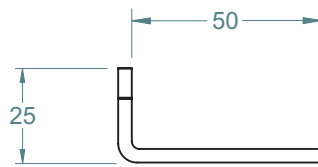
MAX 45kg



— 10°C
+ 50°C



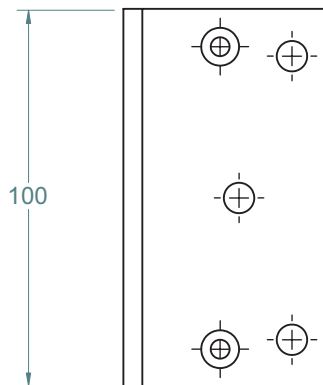
90°



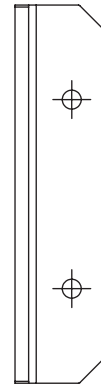
TOP VIEW

SQUARE POST BRACKET
TO ORDER SPECIFY:

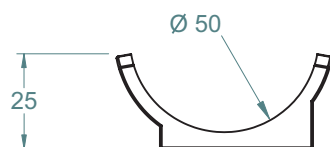
- **120PSPP** POLISHED FINISH
- **120PSPS** BRUSHED FINISH
- **120PSPB** BLACK FINISH



FRONT VIEW



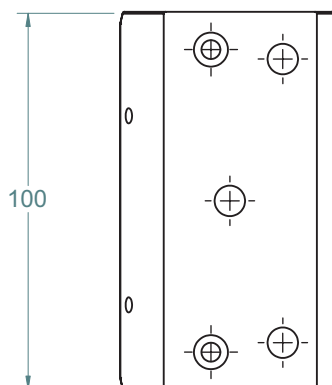
SIDE VIEW



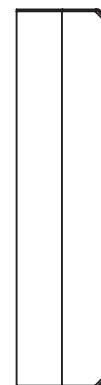
TOP VIEW

ROUND POST BRACKET
TO ORDER SPECIFY:

- **120PRPP** POLISHED FINISH
- **120PRPS** BRUSHED FINISH
- **120PRPB** BLACK FINISH



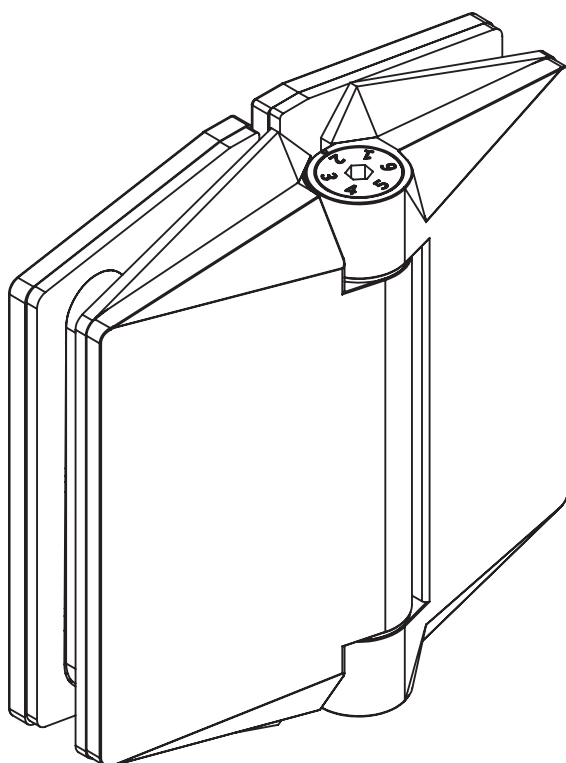
FRONT VIEW



SIDE VIEW

130 SERIES POOL HINGE

GLASS TO GLASS



130 SERIES POOL HINGE

- SELF-CLOSING SAFETY HINGE FOR GLASS POOL FENCING
- TO BE USED WITH CHILD PROOF SAFETY LATCH
- COMPLIES WITH AUSTRALIAN STANDARDS FOR POOL GATE HARDWARE
- NATA ACCREDITED AND INDEPENDENTLY TESTED TO 10'000 CYCLES (NATA = NATIONAL ASSOCIATION OF TESTING AUTHORITIES AUSTRALIA)

FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- SINGLEACTION
- SOFTCLOSE
- NON-HOLD OPEN
- ANTI-FOOT-HOLD GASKET



10mm
12mm



MAX.
900mm WIDE x
1500mm HIGH



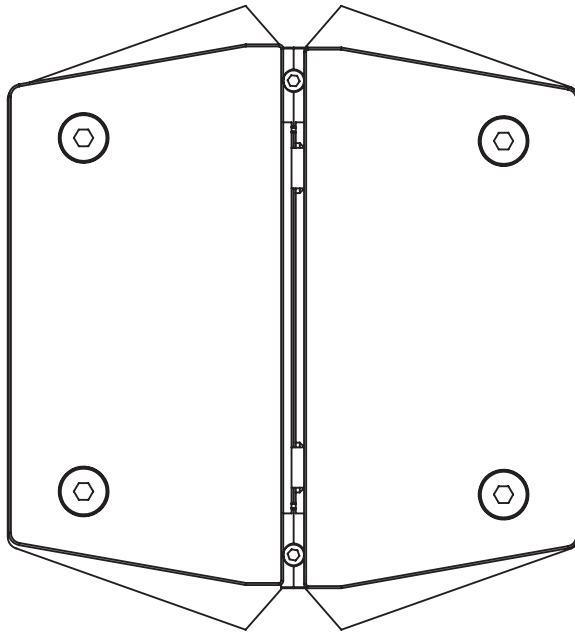
MAX 45kg



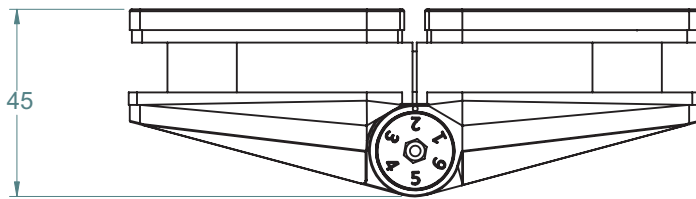
— 10°C
+ 50°C



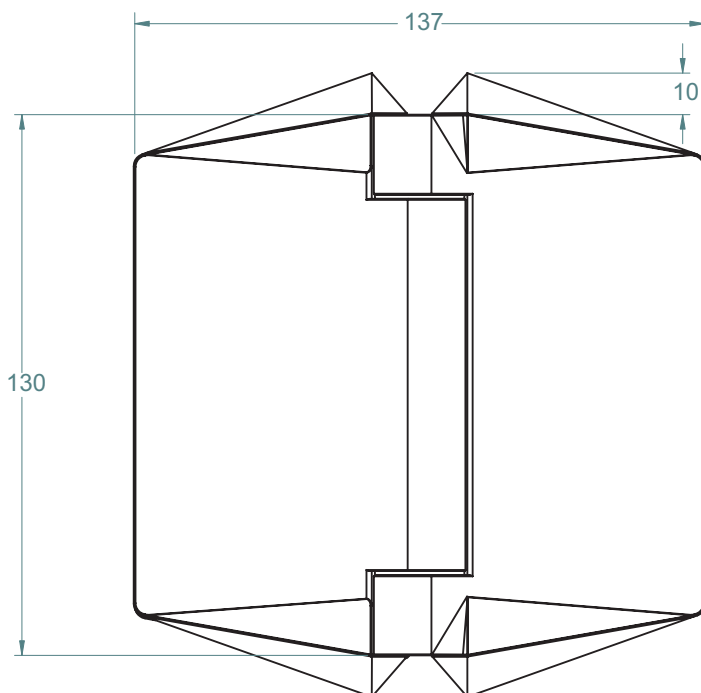
90°



REAR VIEW



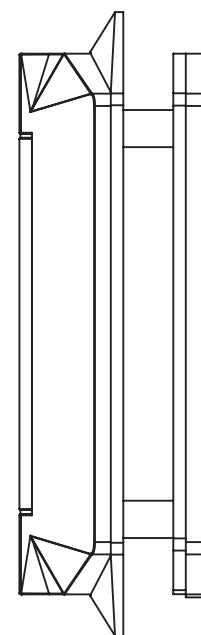
TOP VIEW



FRONT VIEW

TO ORDER SPECIFY:

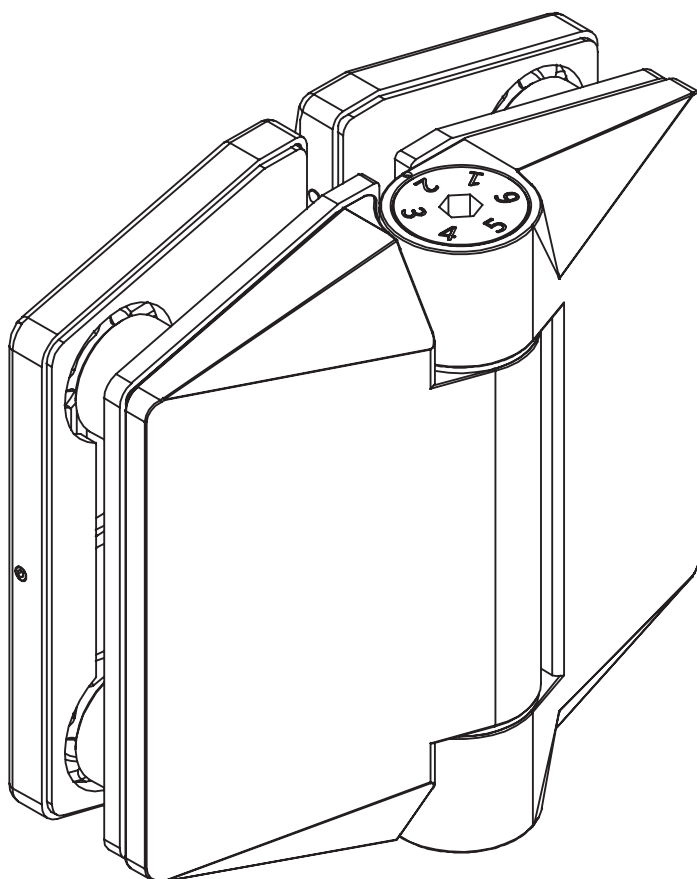
- 130PGGP POLISHED FINISH
- 130PGGS BRUSHED FINISH



SIDE VIEW

220 SERIES INTERNAL HINGE

GLASS TO GLASS



FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- SINGLE ACTION
- SOFT CLOSE
- NON-HOLD OPEN



10mm
12mm



MAX.
900mm WIDE

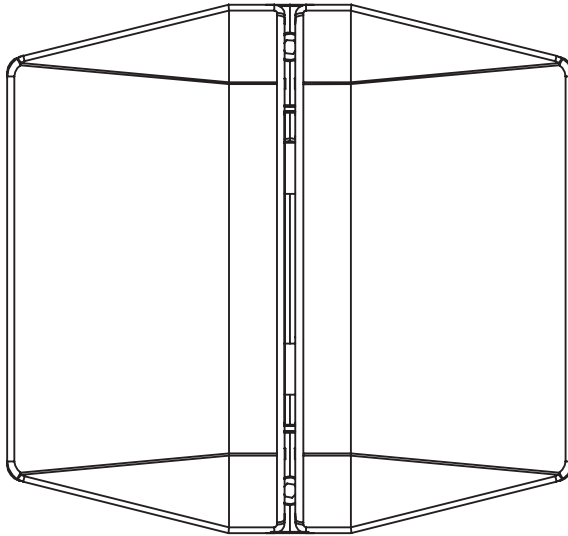


MAX 60kg

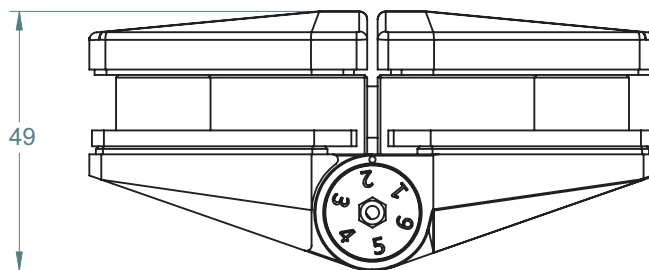


90°

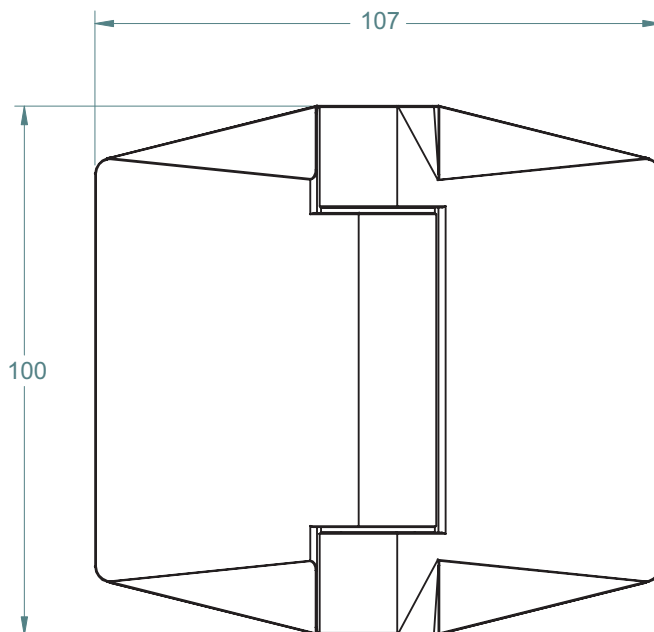
CLOSING FORCE
OPEN 90° = 4Nm
CLOSED 0° = 2Nm



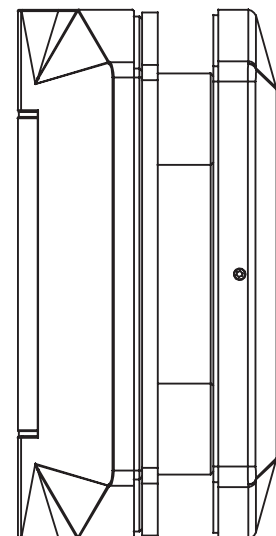
REAR VIEW



TOP VIEW



FRONT VIEW



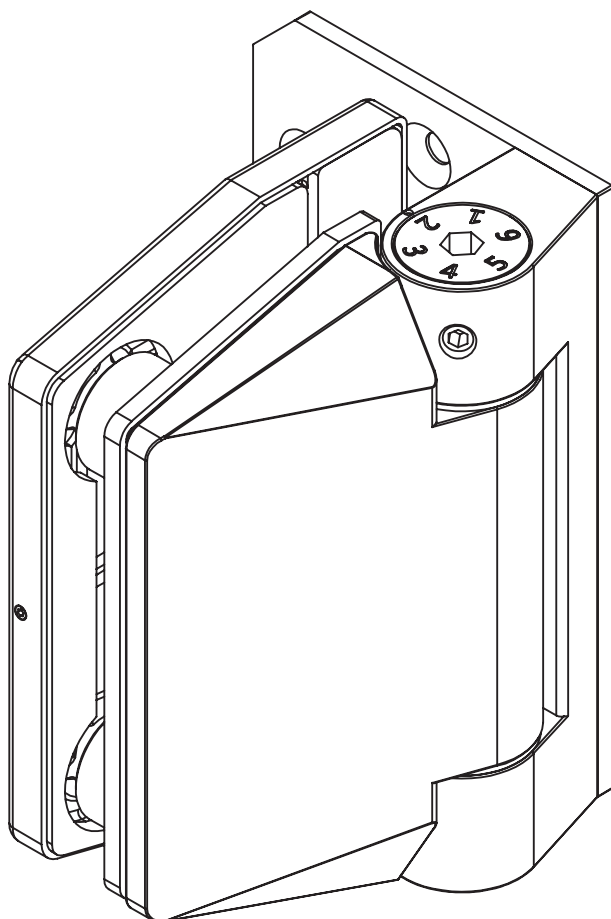
SIDE VIEW

TO ORDER SPECIFY:

- **220IGGP** POLISHED FINISH
- **220IGGS** BRUSHED FINISH

220 SERIES INTERNAL HINGE

GLASS TO WALL



FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- SINGLE ACTION
- SOFT CLOSE
- NON-HOLD OPEN



10mm
12mm



MAX.
900mm WIDE

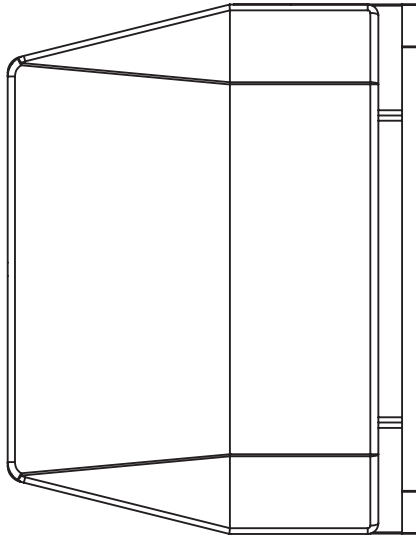


MAX 60kg



90°

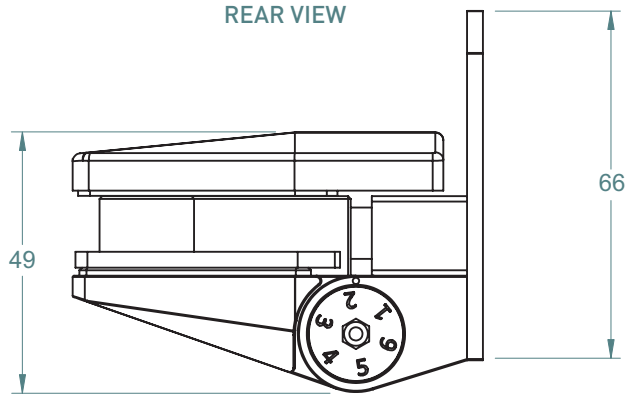
CLOSING FORCE
OPEN 90° = 4Nm
CLOSED 0° = 2Nm



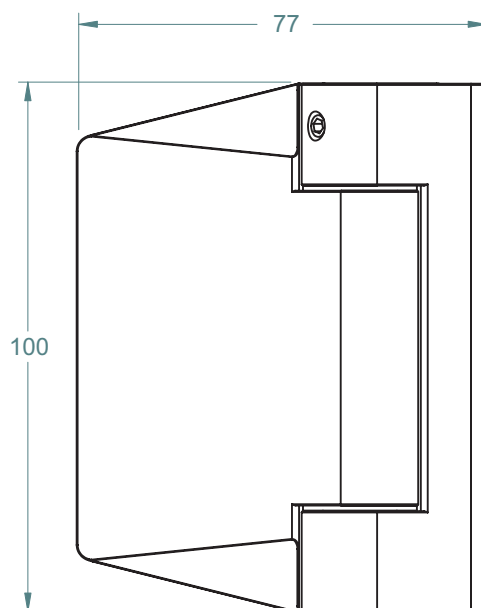
TO ORDER SPECIFY:

- **220IGWP** POLISHED FINISH
- **220IGWS** BRUSHED FINISH

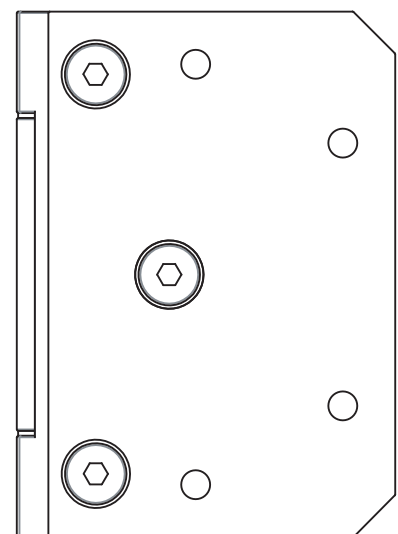
REAR VIEW



TOP VIEW



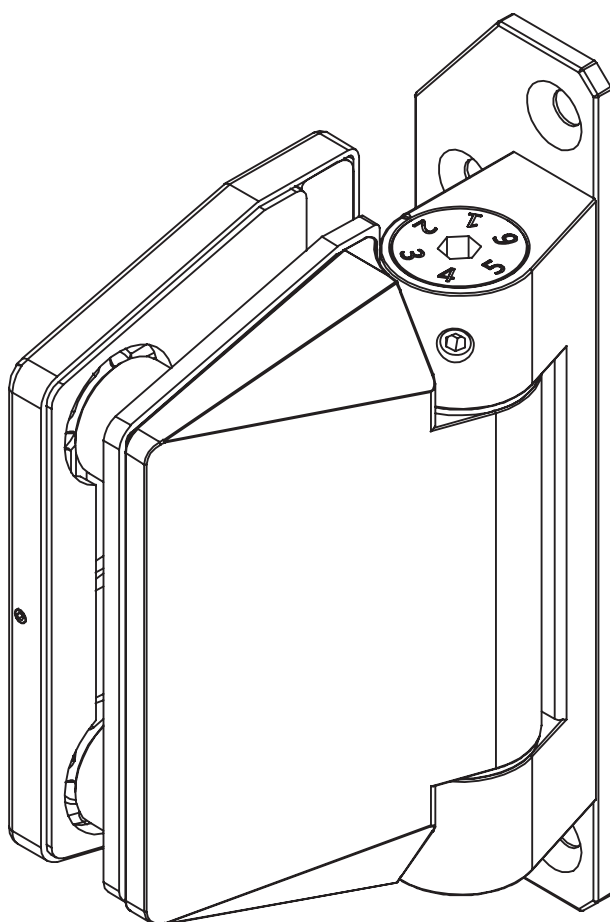
FRONT VIEW



SIDE VIEW

220 SERIES INTERNAL HINGE

GLASS TO DOOR JAMB



FINISHES AND FUNCTIONS

- 2205 GRADE STAINLESS STEEL
- POLISHED STAINLESS
- BRUSHED STAINLESS
- SINGLEACTION
- SOFTCLOSE
- NON-HOLD OPEN



10mm
12mm



MAX.
900mm WIDE

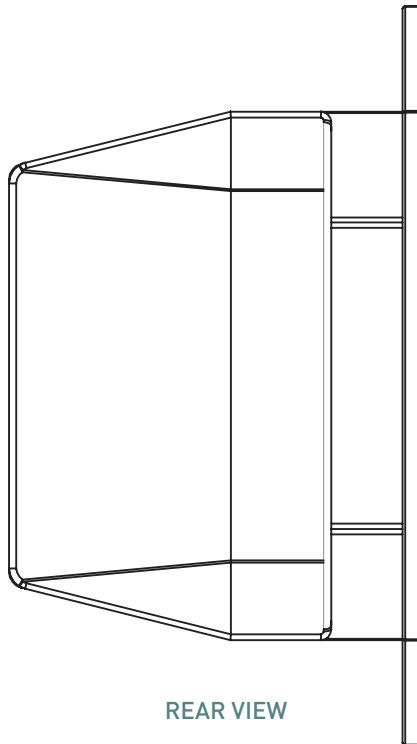


MAX 60kg

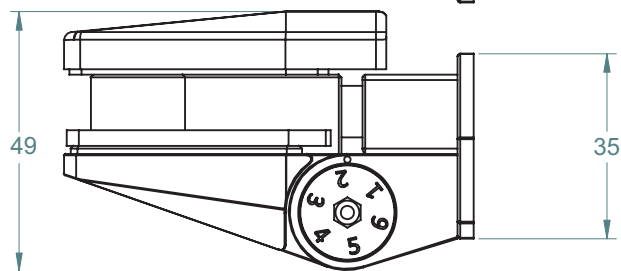


90°

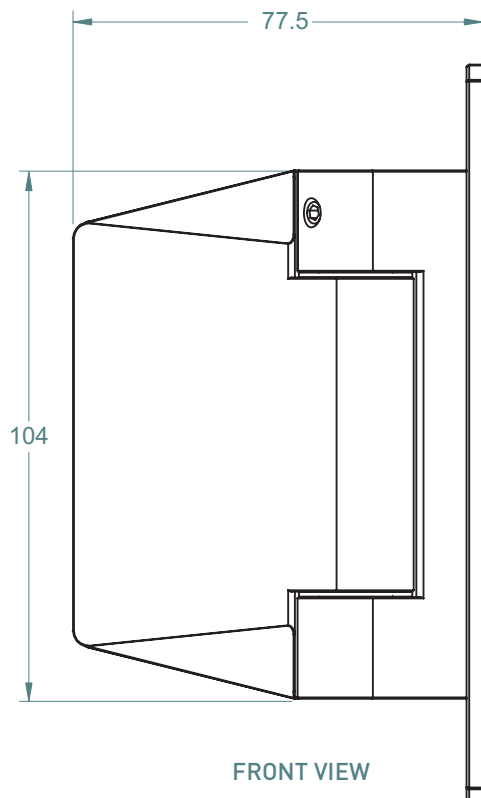
CLOSING FORCE
OPEN 90° = 4Nm
CLOSED 0° = 2Nm



REAR VIEW



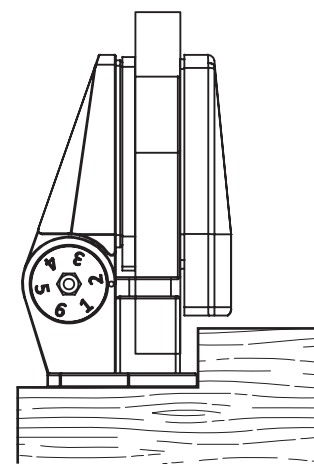
TOP VIEW



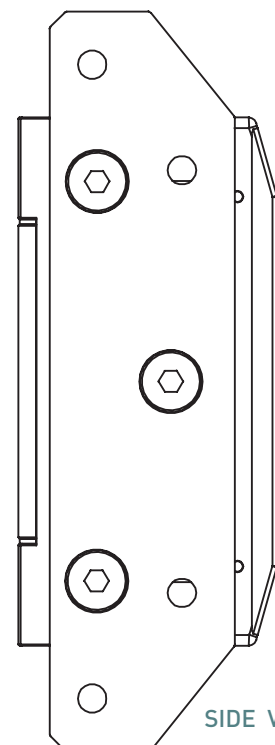
FRONT VIEW

TO ORDER SPECIFY:

- **220IGJP** POLISHED FINISH
- **220IGJS** BRUSHED FINISH



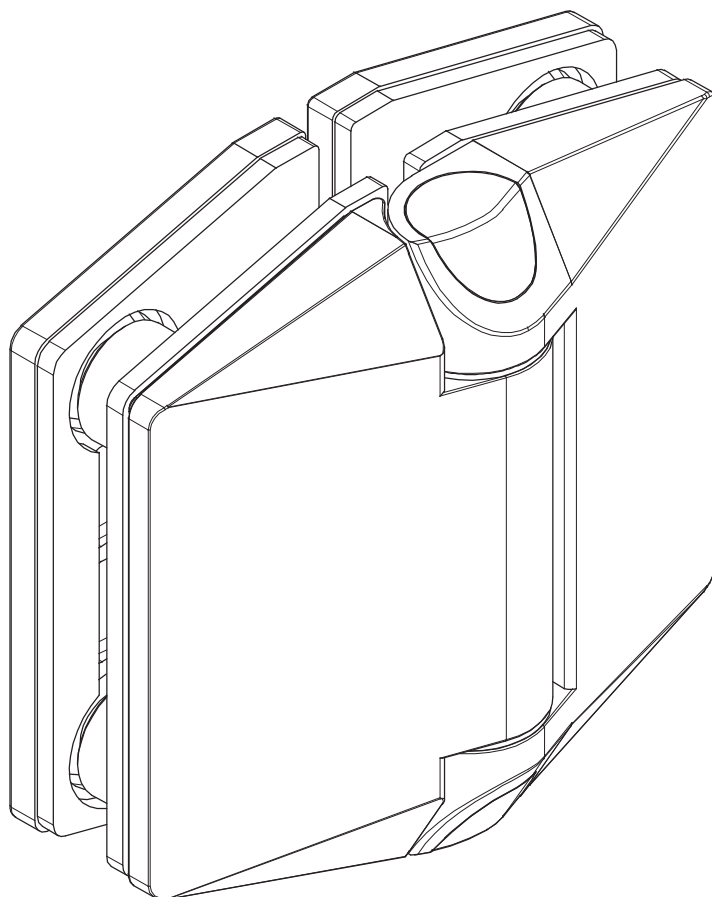
DOOR JAMB ILLUSTRATION



SIDE VIEW

320 SERIES SHOWER HINGE

GLASS TO GLASS



FINISHES AND FUNCTIONS

- SOLID BRASS
- POLISHED CHROME
- BRUSHED SATIN CHROME
- MATT BLACK
- SINGLE ACTION
- SOFT CLOSE
- NON-HOLD OPEN



10mm
12mm



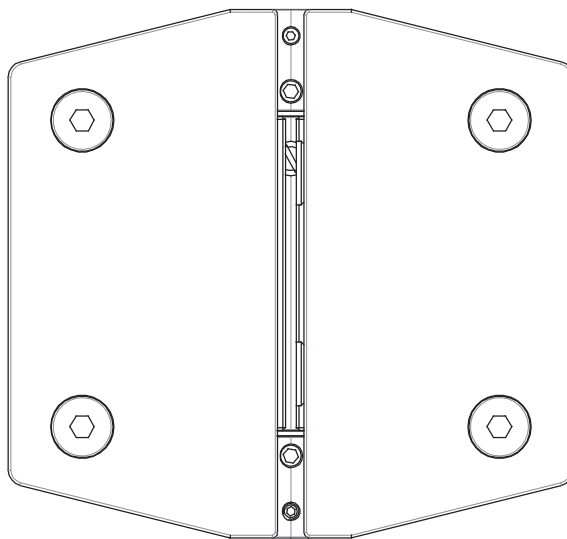
MAX.
800mm WIDE



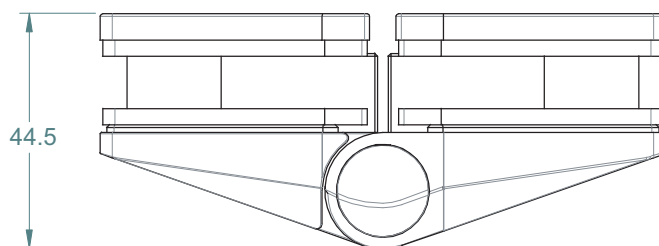
MAX 45kg



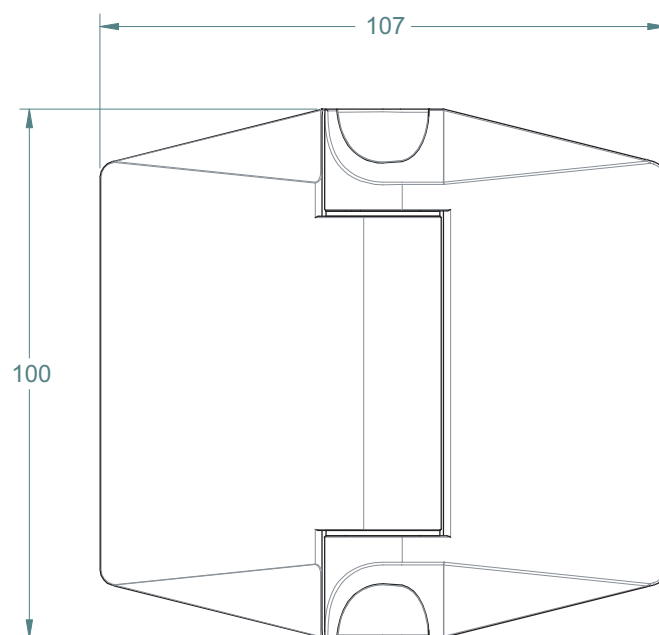
90°



REAR VIEW



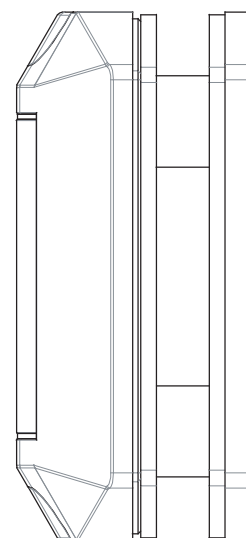
TOP VIEW



FRONT VIEW

TO ORDER SPECIFY:

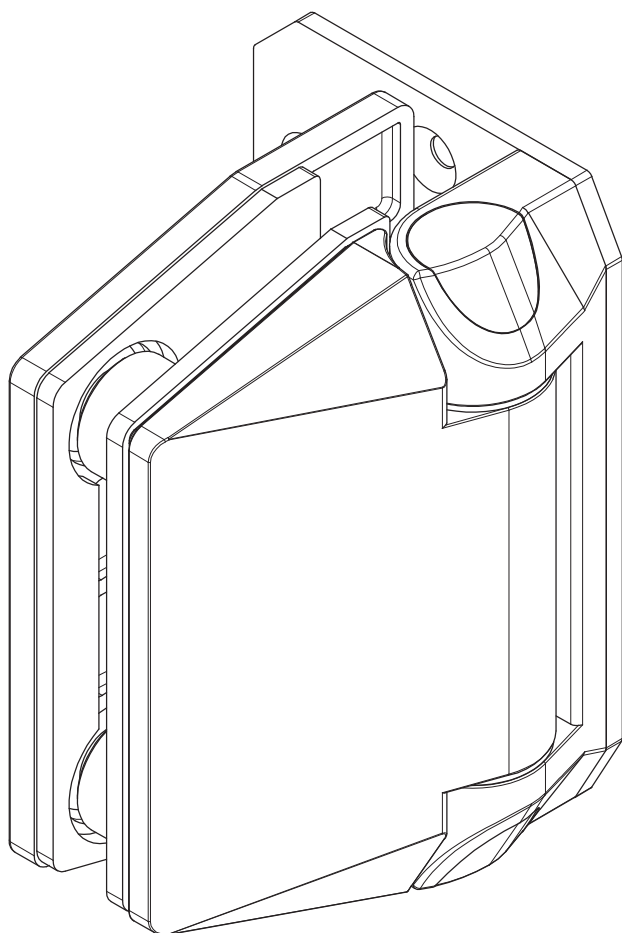
- **320SGGP** POLISHED FINISH
- **320SGGS** BRUSHED FINISH
- **320SGGB** BLACK FINISH



SIDE VIEW

320 SERIES SHOWER HINGE

GLASS TO WALL



FINISHES AND FUNCTIONS

- SOLID BRASS
- POLISHED CHROME
- BRUSHED SATIN CHROME
- MATT BLACK
- SINGLE ACTION
- SOFT CLOSE
- NON-HOLD OPEN



10mm
12mm



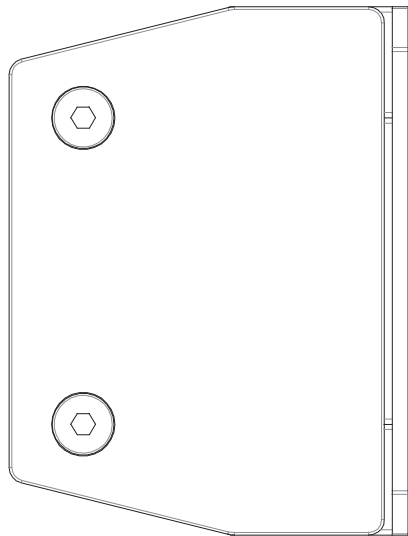
MAX.
800mm WIDE



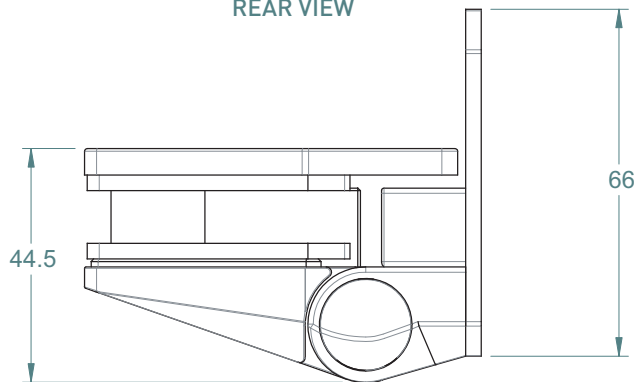
MAX 45kg



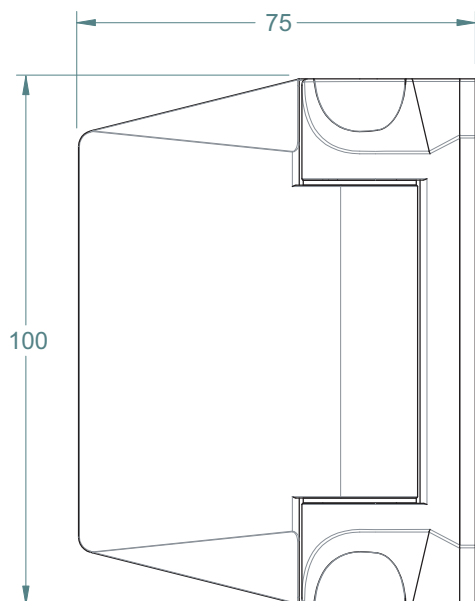
90°



REAR VIEW



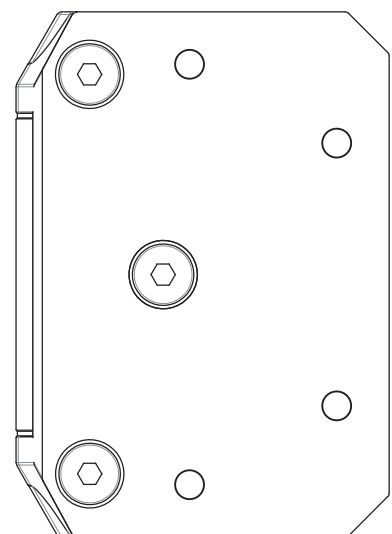
TOP VIEW



FRONT VIEW

TO ORDER SPECIFY:

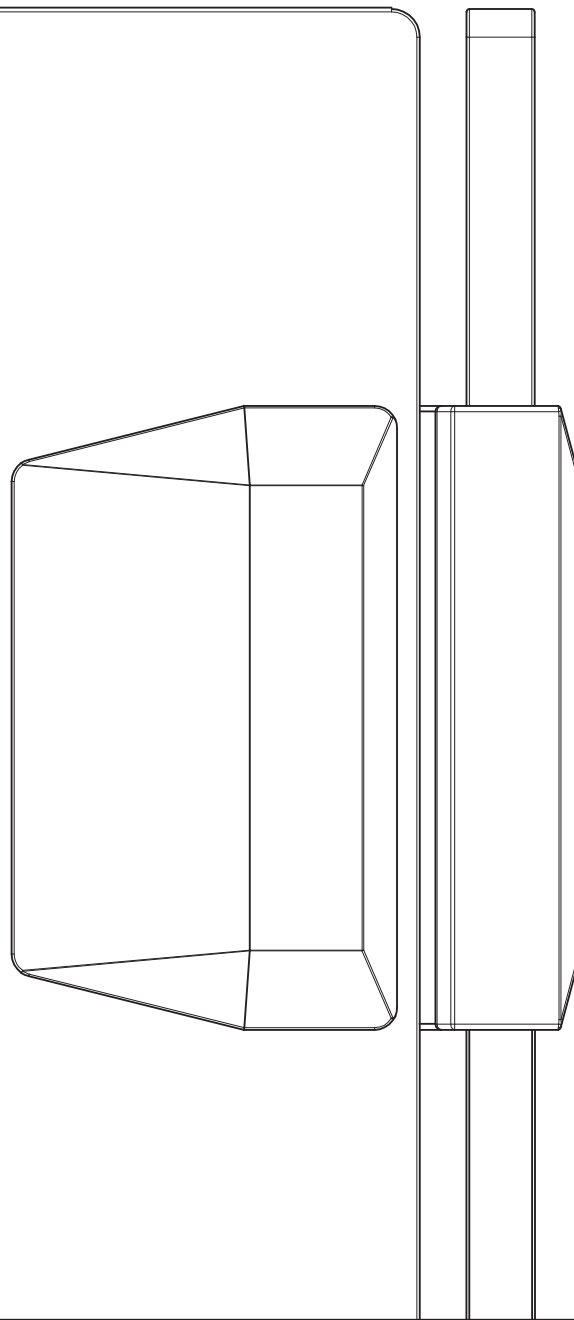
- **320SGWP** POLISHED FINISH
- **320SGWS** BRUSHED FINISH
- **320SGWB** BLACK FINISH



SIDE VIEW

LATCH FOR GLASS FENCE

GLASS TO GLASS 90°

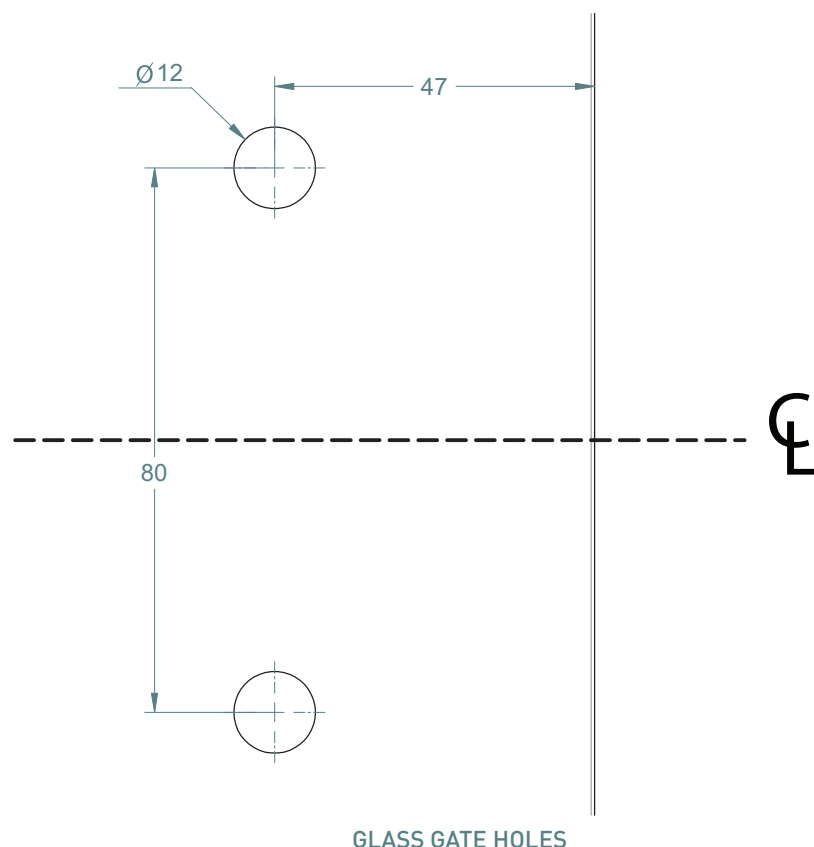
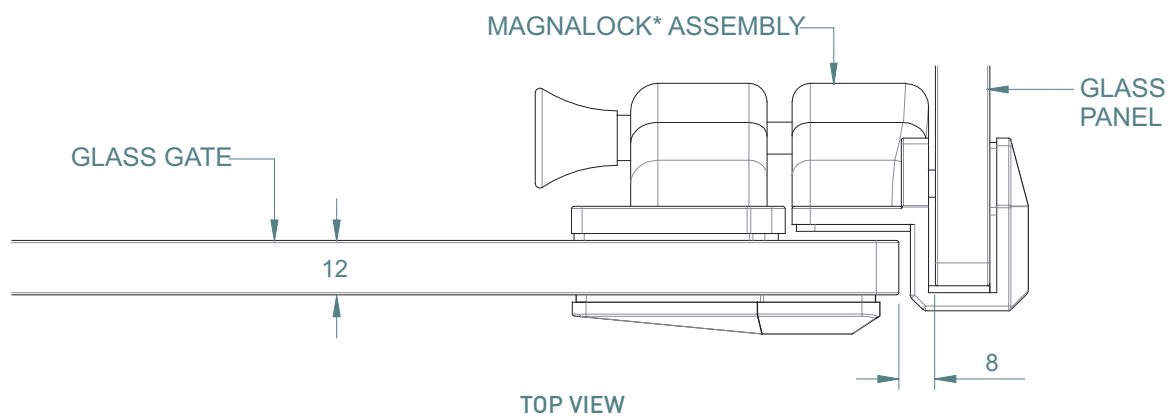


LATCH GLASS TO GLASS 90°

TO ORDER SPECIFY:

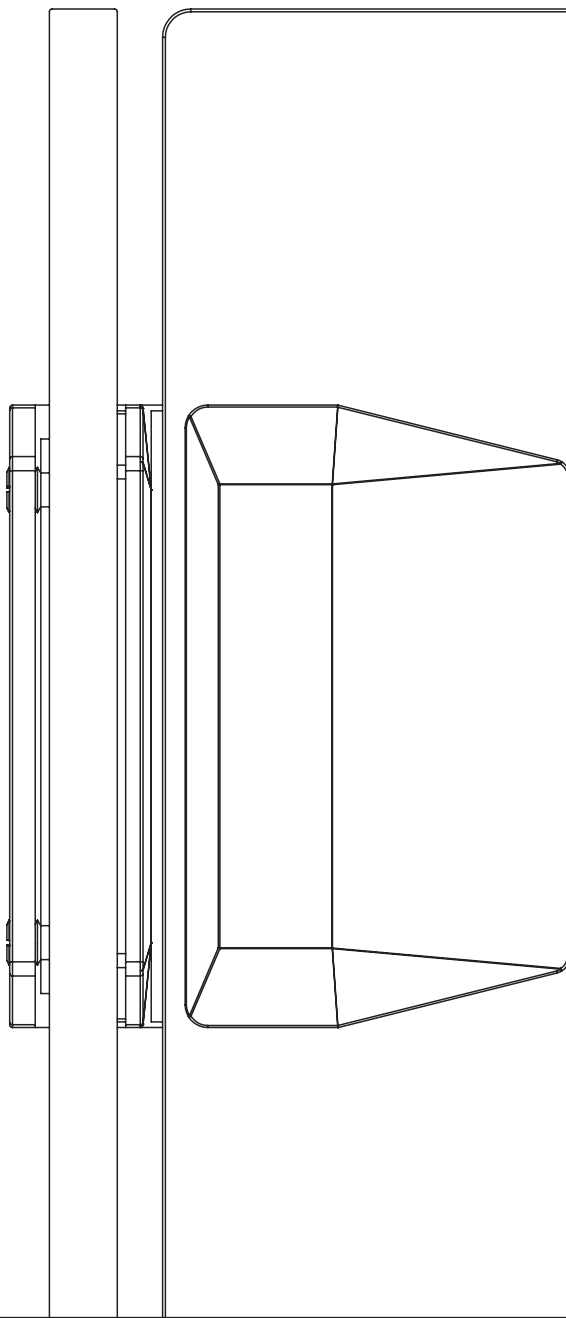
- **LAGG90P** POLISHED FINISH
- **LAGG90S** BRUSHED FINISH
- **LAGG90B** BLACK FINISH

*MAGNALOCK NOT INCLUDED



LATCH FOR GLASS FENCE

GLASS TO GLASS REVERSE 90°

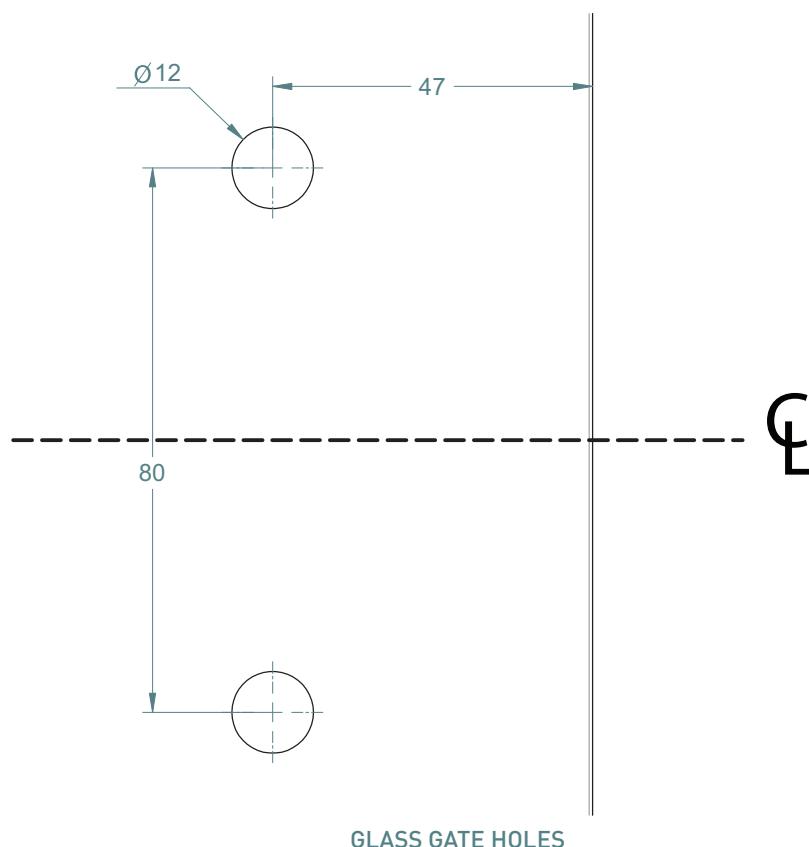
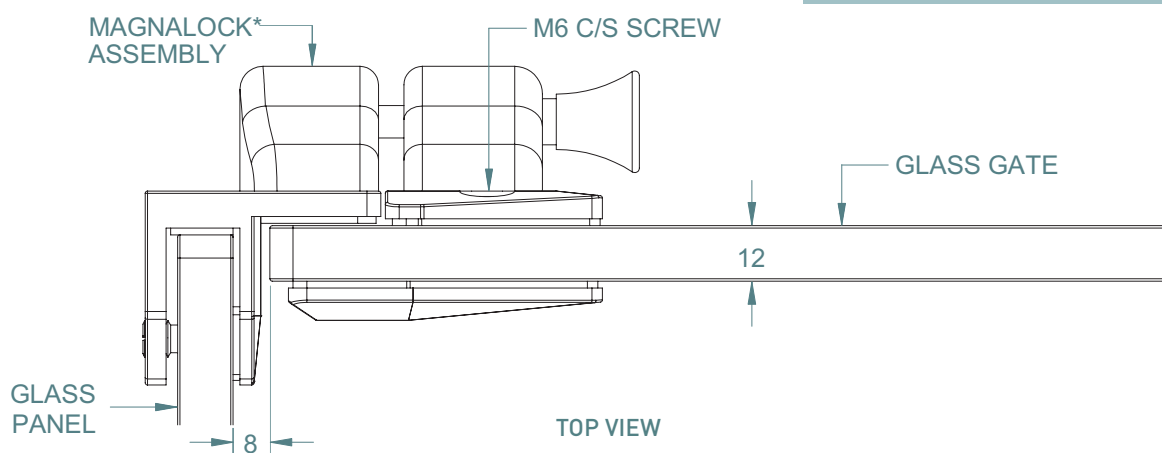


LATCH GLASS TO GLASS REVERSE 90°

TO ORDER SPECIFY:

- LAGGR90P POLISHED FINISH
- LAGGR90S BRUSHED FINISH
- LAGGR90B BLACK FINISH

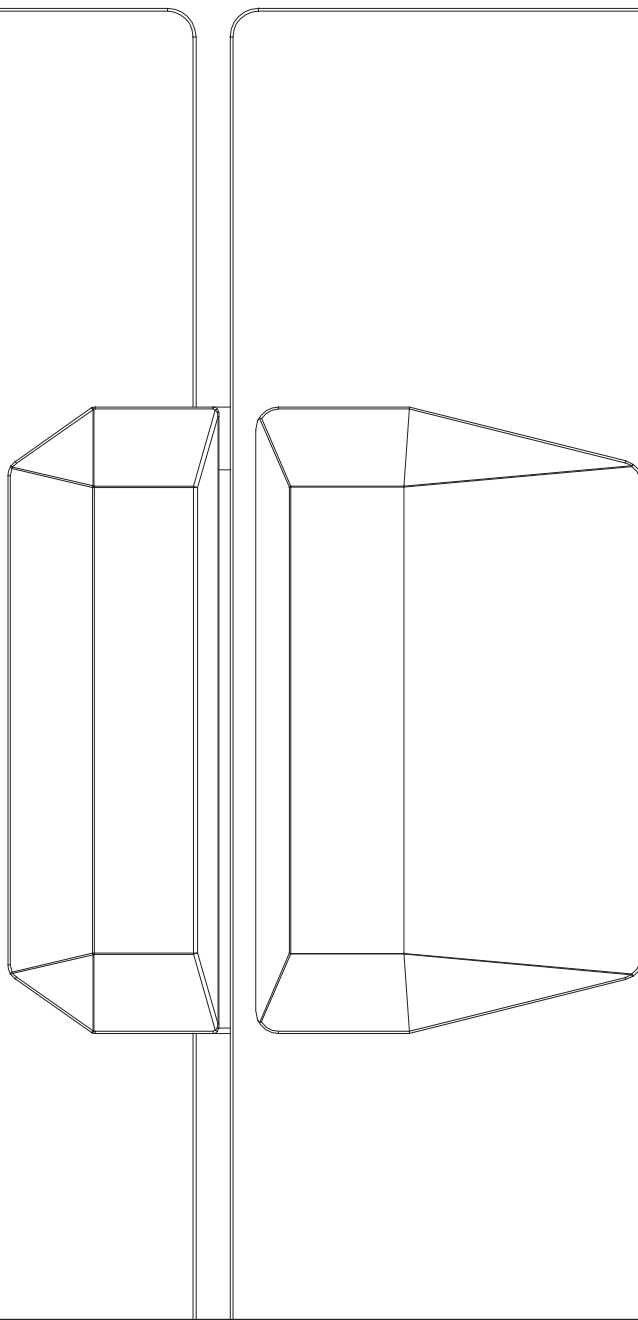
*MAGNALOCK NOT INCLUDED



GLASS GATE HOLES

LATCH FOR GLASS FENCE

GLASS TO GLASS 180°

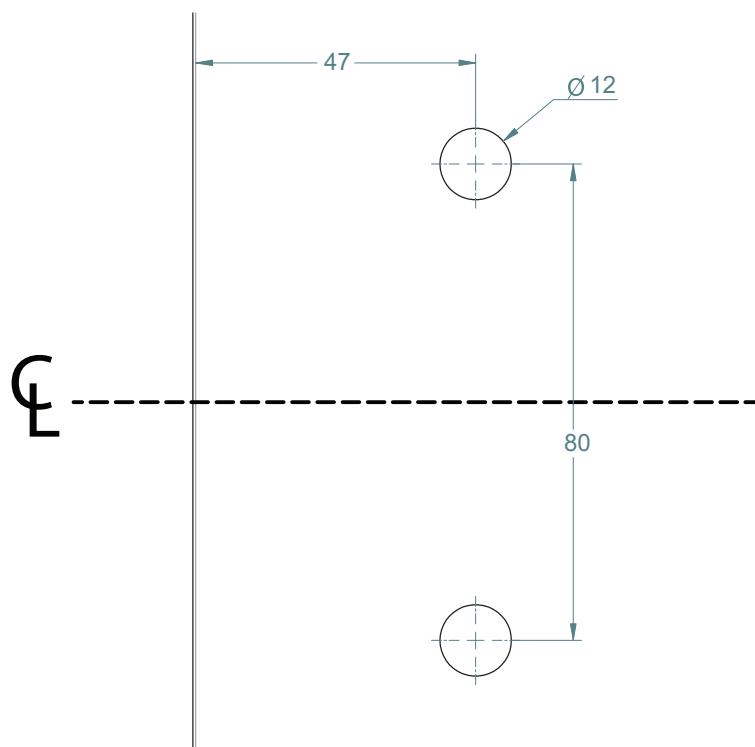
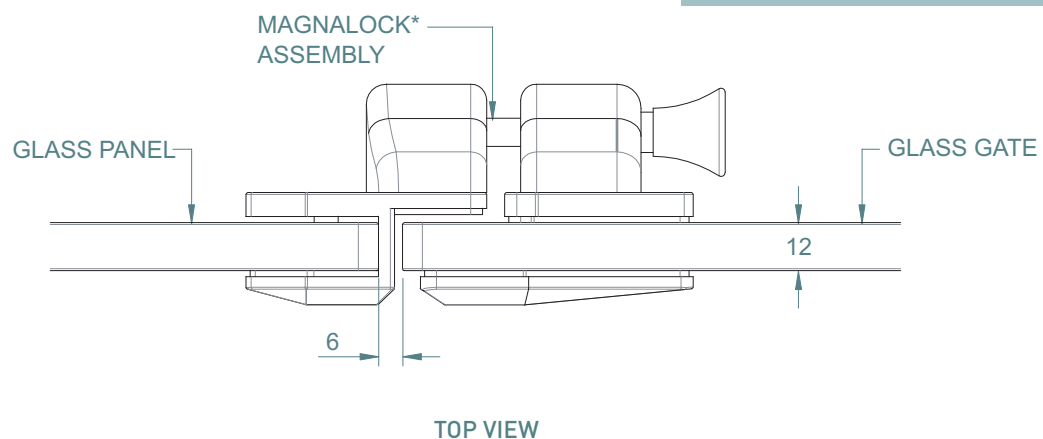


LATCH GLASS TO GLASS 180°

TO ORDER SPECIFY:

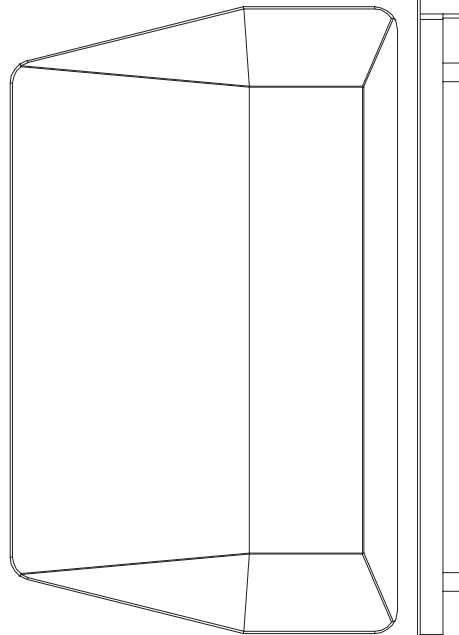
- **LAGG180P** POLISHED FINISH
- **LAGG180S** BRUSHED FINISH
- **LAGG180B** BLACK FINISH

*MAGNALOCK NOT INCLUDED



GLASS GATE HOLES

LATCH FOR GLASS FENCE GLASS TO WALL/POST

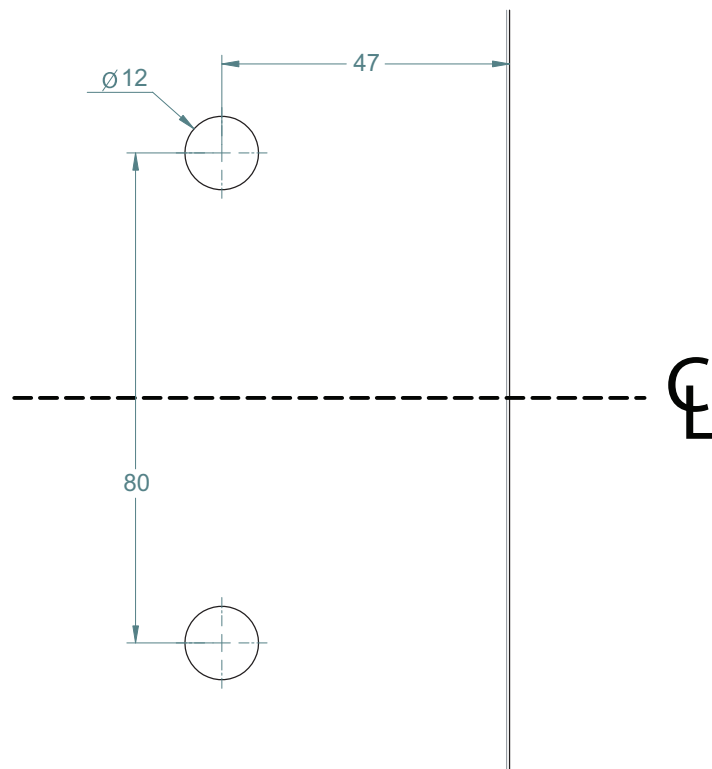
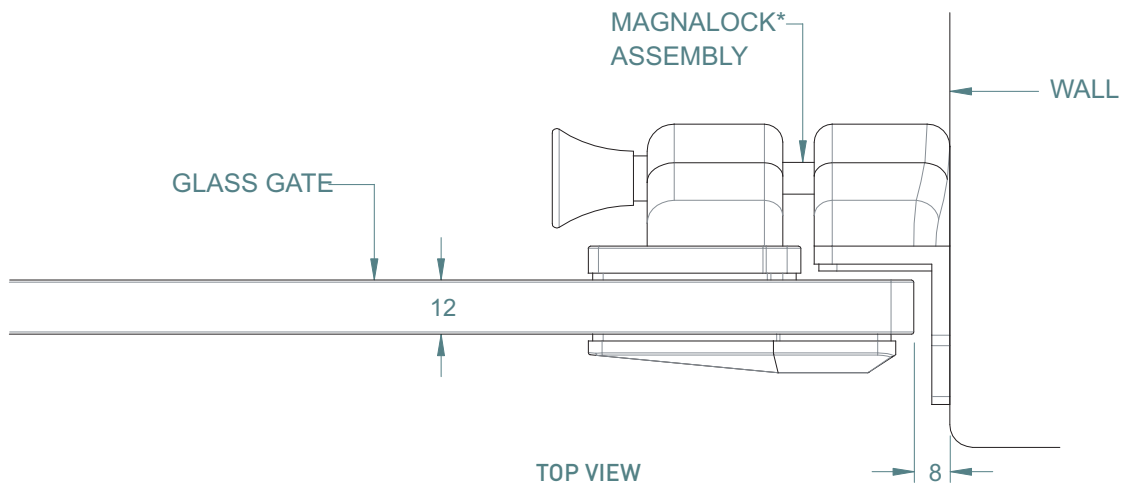


LATCH GLASS TO WALL/POST

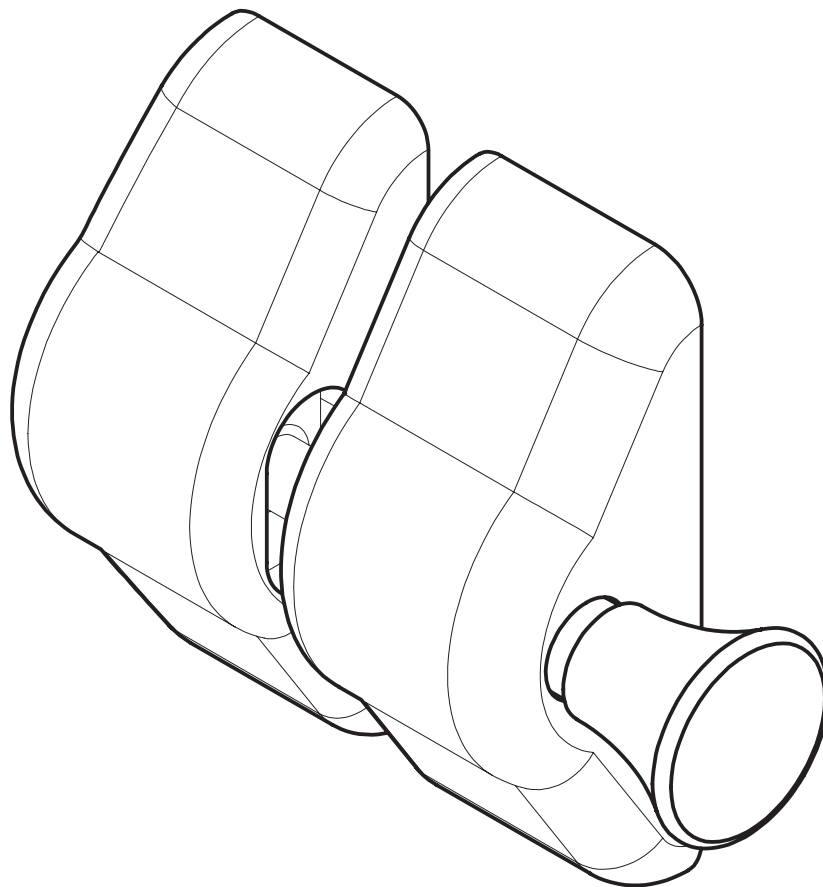
TO ORDER SPECIFY:

- **LAGWP** POLISHED FINISH
- **LAGWS** BRUSHED FINISH
- **LAGWB** BLACK FINISH

*MAGNALOCK NOT INCLUDED



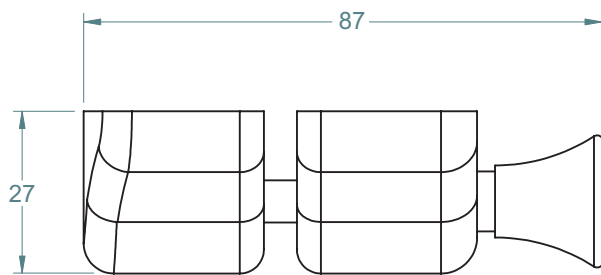
MAGNALOCK ASSEMBLY FOR ALL GLASS LATCHES



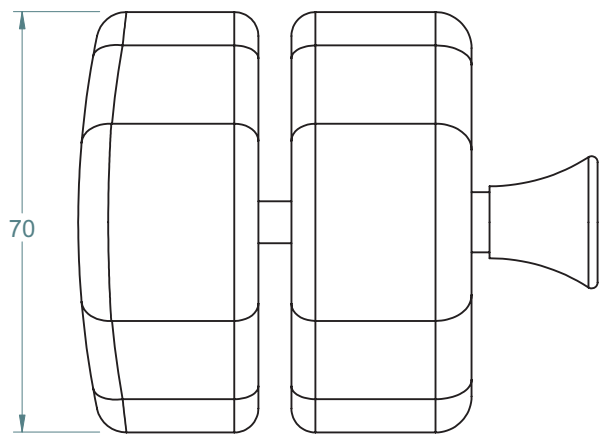
MAGNALOCK FOR LATCHES

TO ORDER SPECIFY:

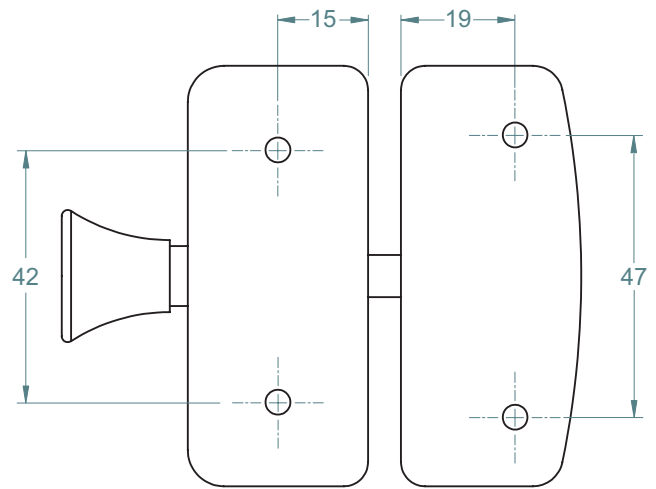
- XXXXX BLACK ONLY



TOP VIEW



FRONT VIEW

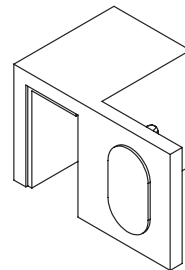
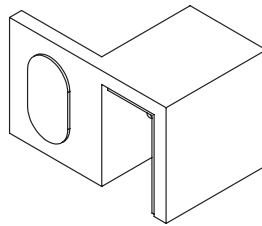


MOUNTING FACES

DOOR/GATE STOPPERS

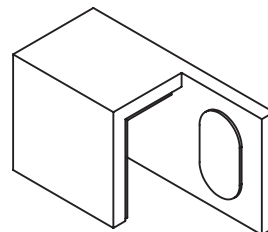
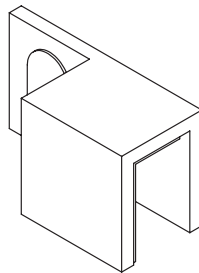
VARIOUS APPLICATIONS

**GLASS TO GLASS
90° STOPPER
LEFT LEG
(MODEL DSGG90L)**



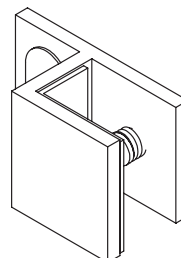
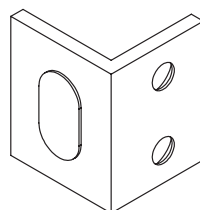
**GLASS TO GLASS
90° STOPPER
RIGHT LEG
(MODEL DSGG90R)**

**GLASS TO GLASS
180° STOPPER
LEFT LEG
(MODEL DSGG180L)**



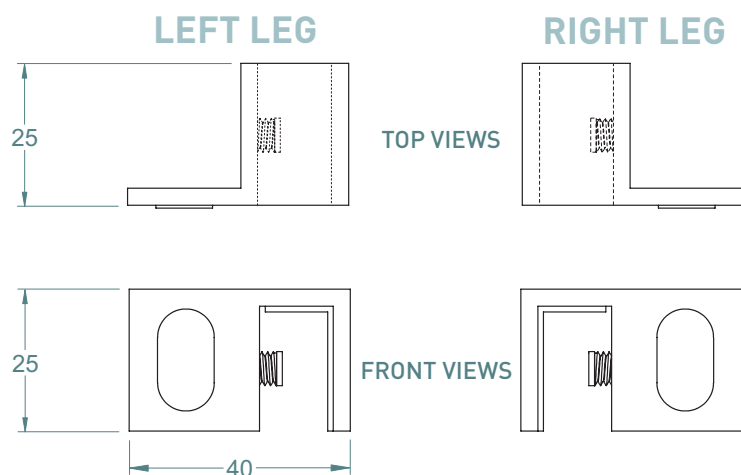
**GLASS TO GLASS
180° STOPPER
RIGHT LEG
(MODEL DSGG180R)**

**GLASS TO WALL
STOPPER
(MODEL DSGW)**



**GLASS TO GLASS
ALTERNATE STOPPER
(MODEL DSGGALT)**

GLASS TO GLASS

90° STOPPER

TO ORDER SPECIFY:

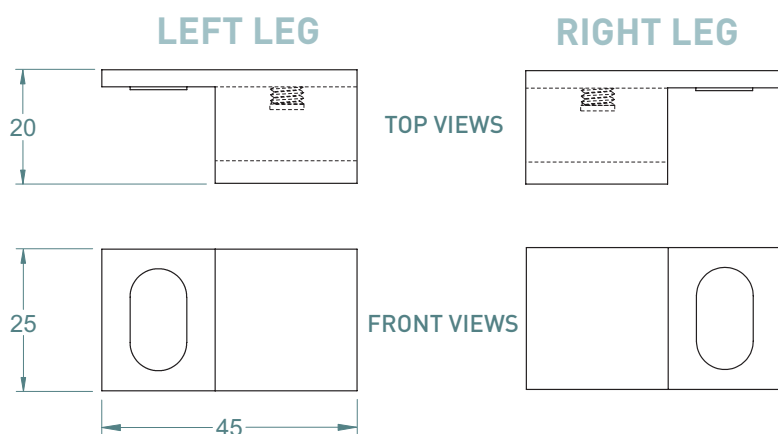
LEFT LEG

- DSGG90PL CHROME FINISH
- DSGG90SL SATIN FINISH
- DSGG90BL BLACK FINISH

RIGHT LEG

- DSGG90PR CHROME FINISH
- DSGG90SR SATIN FINISH
- DSGG90BR BLACK FINISH

GLASS TO GLASS

180° STOPPER

TO ORDER SPECIFY:

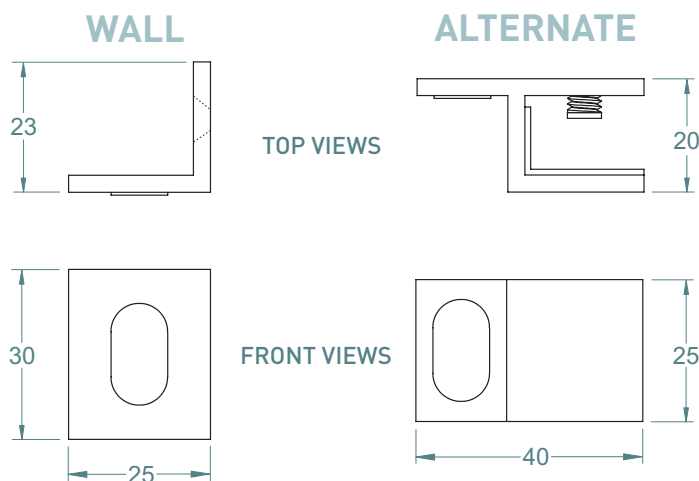
LEFT LEG

- DSGG180PL CHROME FINISH
- DSGG180SL SATIN FINISH
- DSGG180BL BLACK FINISH

RIGHT LEG

- DSGG180PR CHROME FINISH
- DSGG180SR SATIN FINISH
- DSGG180BR BLACK FINISH

GLASS TO OTHER

WALL STOPPER

TO ORDER SPECIFY:

- DSGWP CHROME FINISH
- DSGWS SATIN FINISH
- DSGWB BLACK FINISH

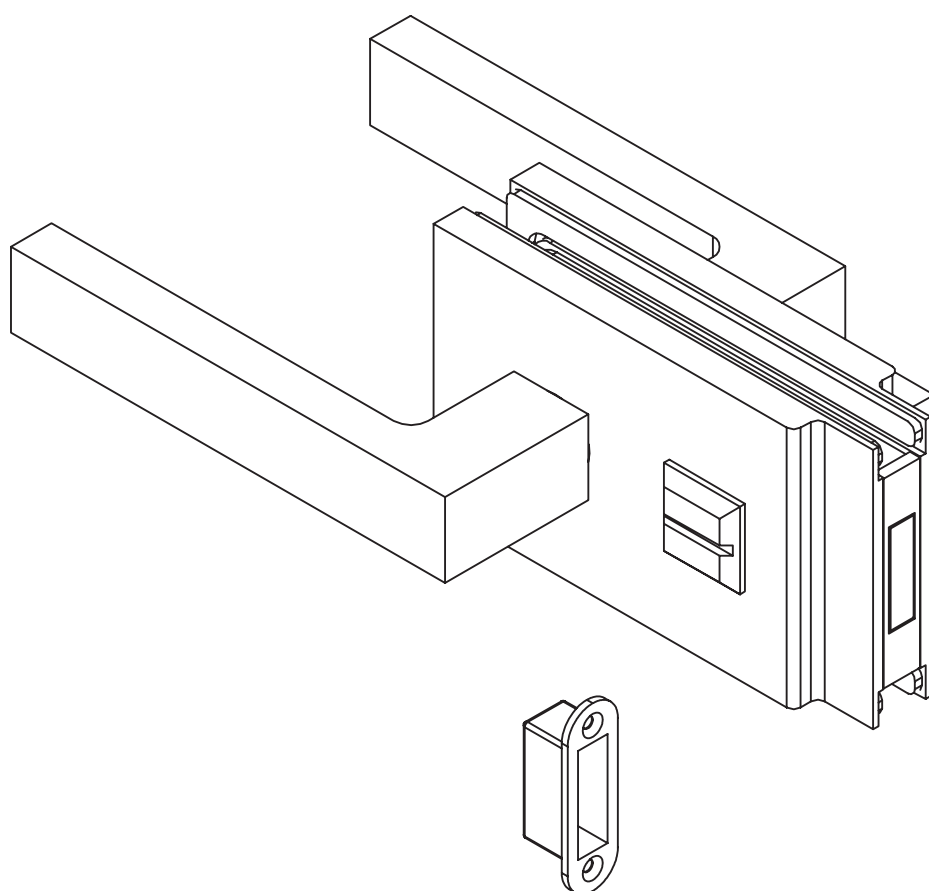
ALTERNATE STOPPER

TO ORDER SPECIFY:

- DSGGALTP CHROME FINISH
- DSGGALTS SATIN FINISH
- DSGGALTB BLACK FINISH

MAGNETIC DOOR HANDLE

GLASS TO DOOR JAMB



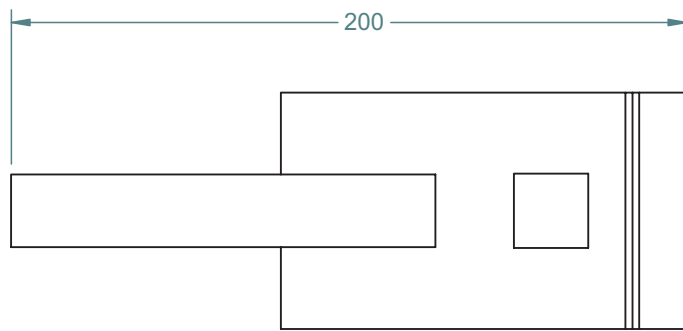
DOOR JAMB INSERT

FINISHES AND FUNCTIONS

- ALUMINIUM BODY
- BRUSHED FINISH
- POLISHED FINISH
- FITS DOOR JAMBS
- NOISELESS



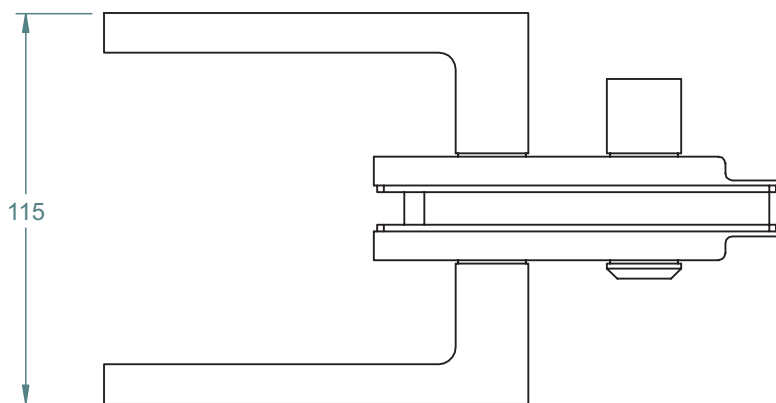
8mm
12.7mm (1/2")



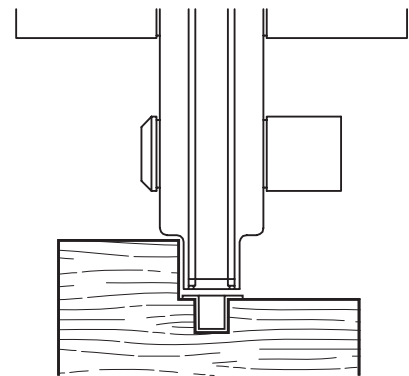
REAR VIEW

TO ORDER SPECIFY:

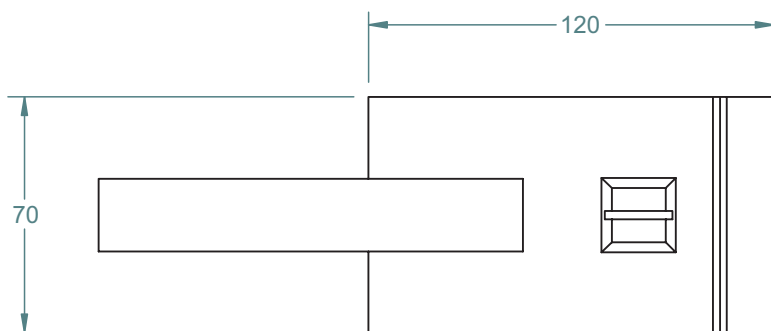
- **MHDJSC** BRUSHED FINISH WITH CYLINDER LOCK
- **MHDJSN** BRUSHED FINISH WITH PRIVACY KNOB
- **MHDJPC** POLISHED FINISH WITH CYLINDER LOCK
- **MHDJPN** POLISHED FINISH WITH PRIVACY KNOB



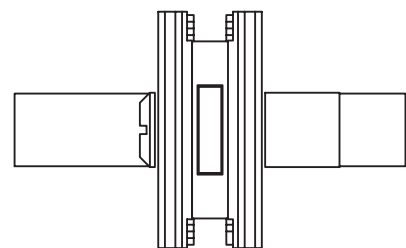
TOP VIEW



DOOR JAMB ILLUSTRATION

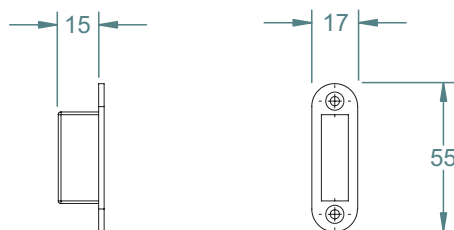


FRONT VIEW



SIDE VIEW

DOOR JAMB INSERT

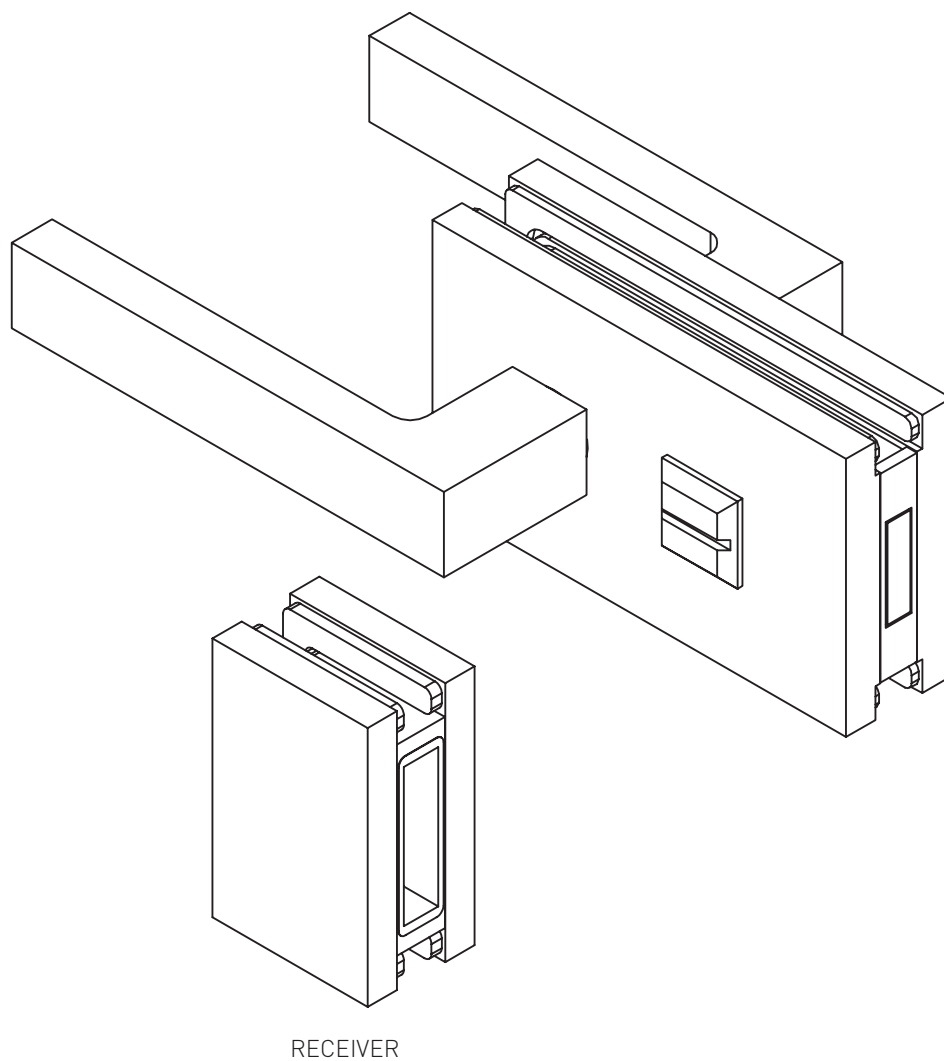


FRONT VIEW

SIDE VIEW

MAGNETIC DOOR HANDLE

GLASS TO GLASS

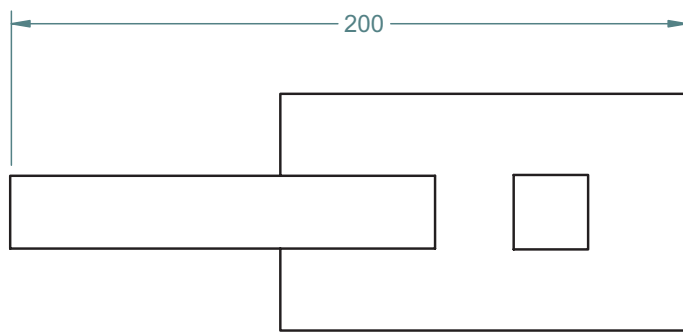


FINISHES AND FUNCTIONS

- ALUMINIUM BODY
- BRUSHED FINISH
- POLISHED FINISH
- NOISELESS



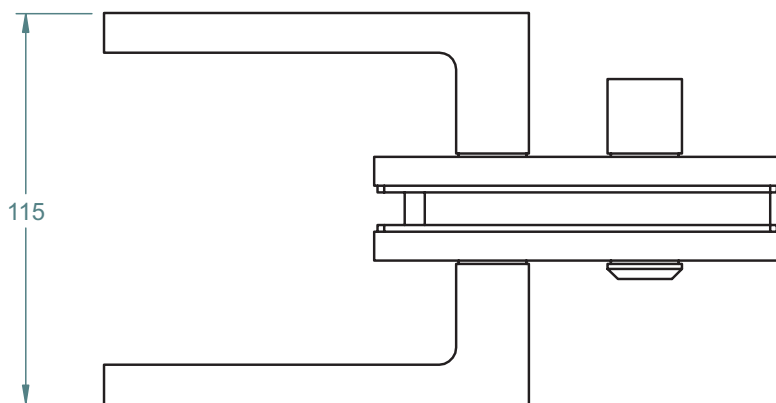
8mm
12.7mm (1/2")



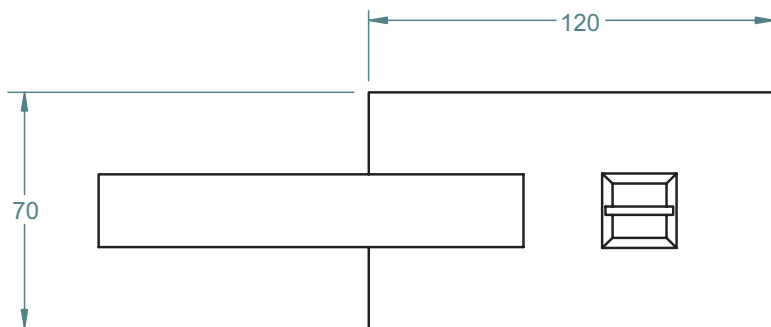
REAR VIEW

TO ORDER SPECIFY:

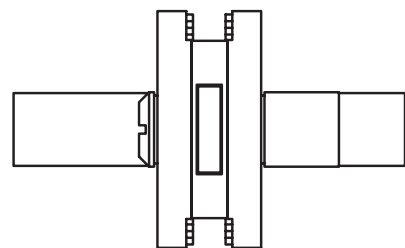
- **MHGSC** BRUSHED FINISH WITH CYLINDER LOCK
- **MHGSN** BRUSHED FINISH WITH PRIVACY KNOB
- **MHGPC** POLISHED FINISH WITH CYLINDER LOCK
- **MHGPN** POLISHED FINISH WITH PRIVACY KNOB



TOP VIEW

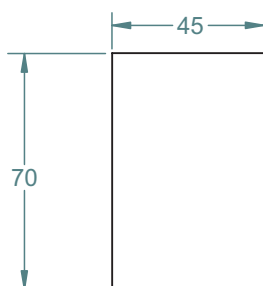


FRONT VIEW

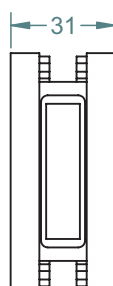


SIDE VIEW

RECEIVER



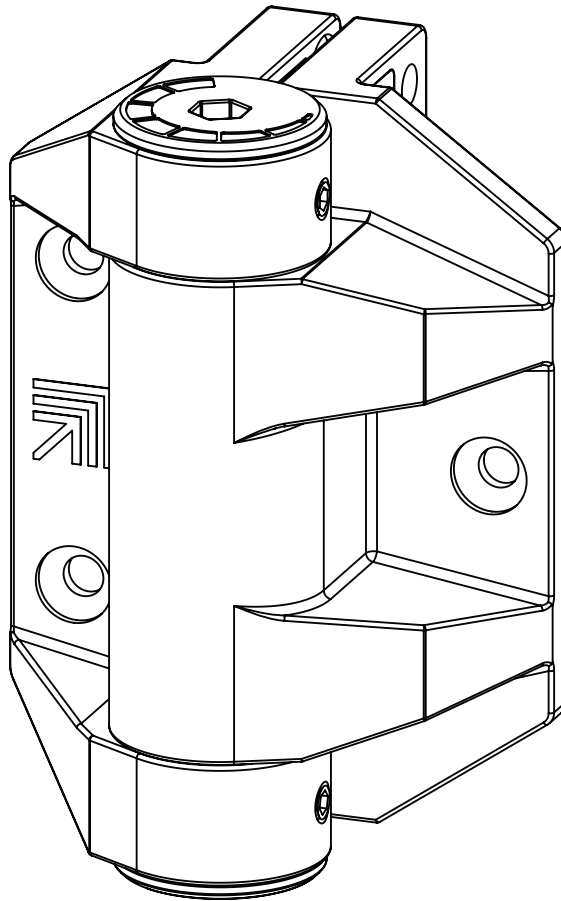
FRONT VIEW



SIDE VIEW

POLY HINGE

SOFT CLOSE SPRING HINGE



FINISHES AND FUNCTIONS

- HEAVY DUTY
GLASS FILLED NYLON
- MATT BLACK
- SINGLE ACTION
- SOFT CLOSE
- NON-HOLD OPEN
- ADJUSTABLE SPRING
FORCE



MAX 20kg



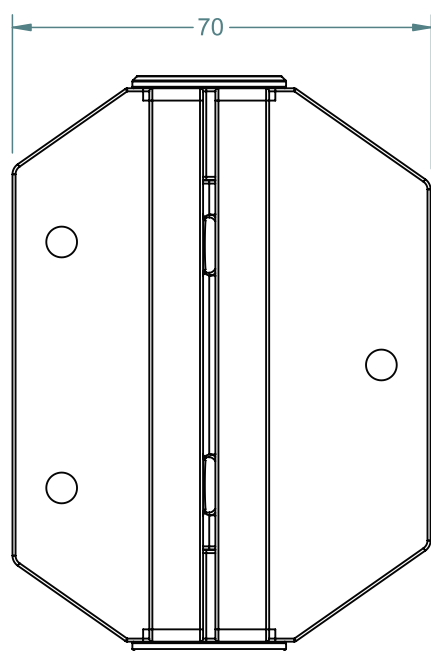
— 10°C
+ 50°C



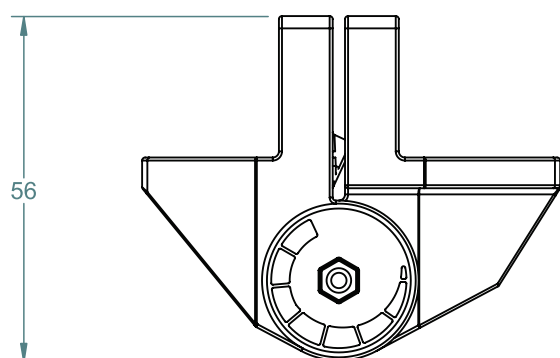
170°

POLY HINGE ADVANTAGES

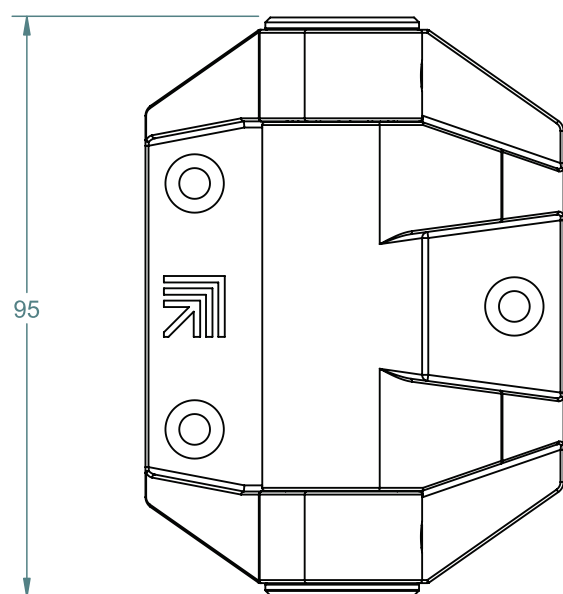
- SELF-CLOSING SAFETY HINGE FOR LIGHT WEIGHT POOL FENCING
- TO BE USED WITH CHILD PROOF SAFETY LATCH
- COMPLIES WITH AUSTRALIAN STANDARDS FOR POOL GATE HARDWARE
- NATA ACCREDITED AND INDEPENDENTLY TESTED TO 10'000 CYCLES
(NATA = NATIONAL ASSOCIATION OF TESTING AUTHORITIES AUSTRALIA)



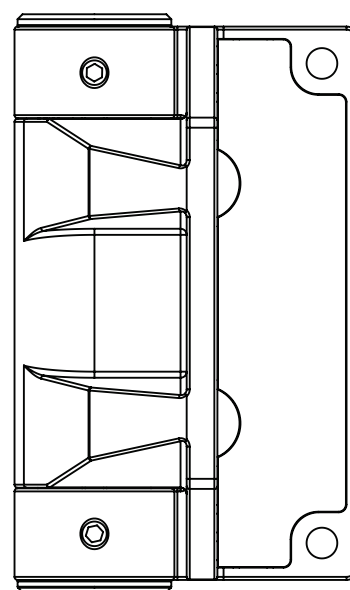
REAR VIEW



TOP VIEW



FRONT VIEW

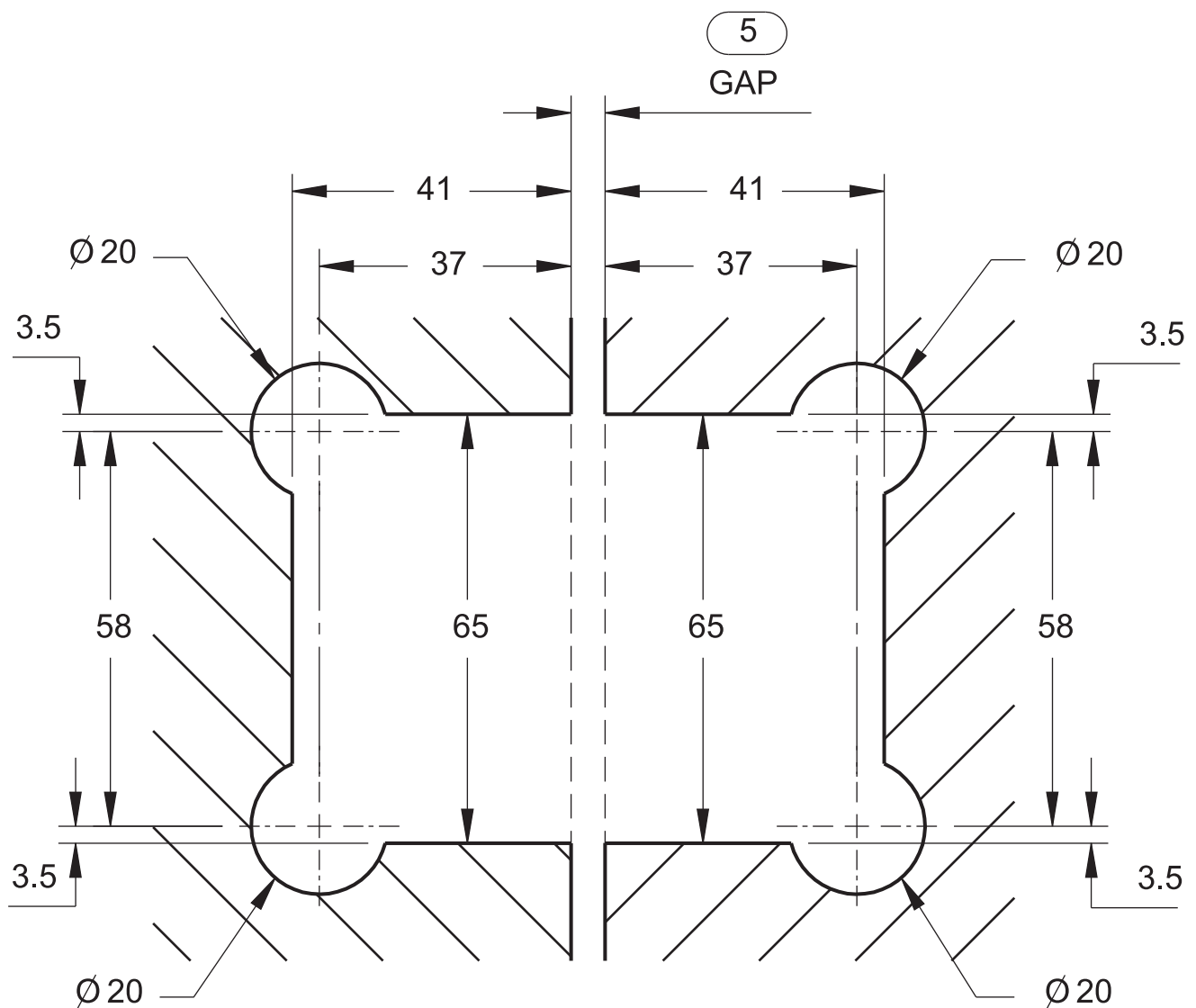


SIDE VIEW

GLASS PREPARATION

120, 220 & 320 SERIES HINGE

GLASS TO GLASS

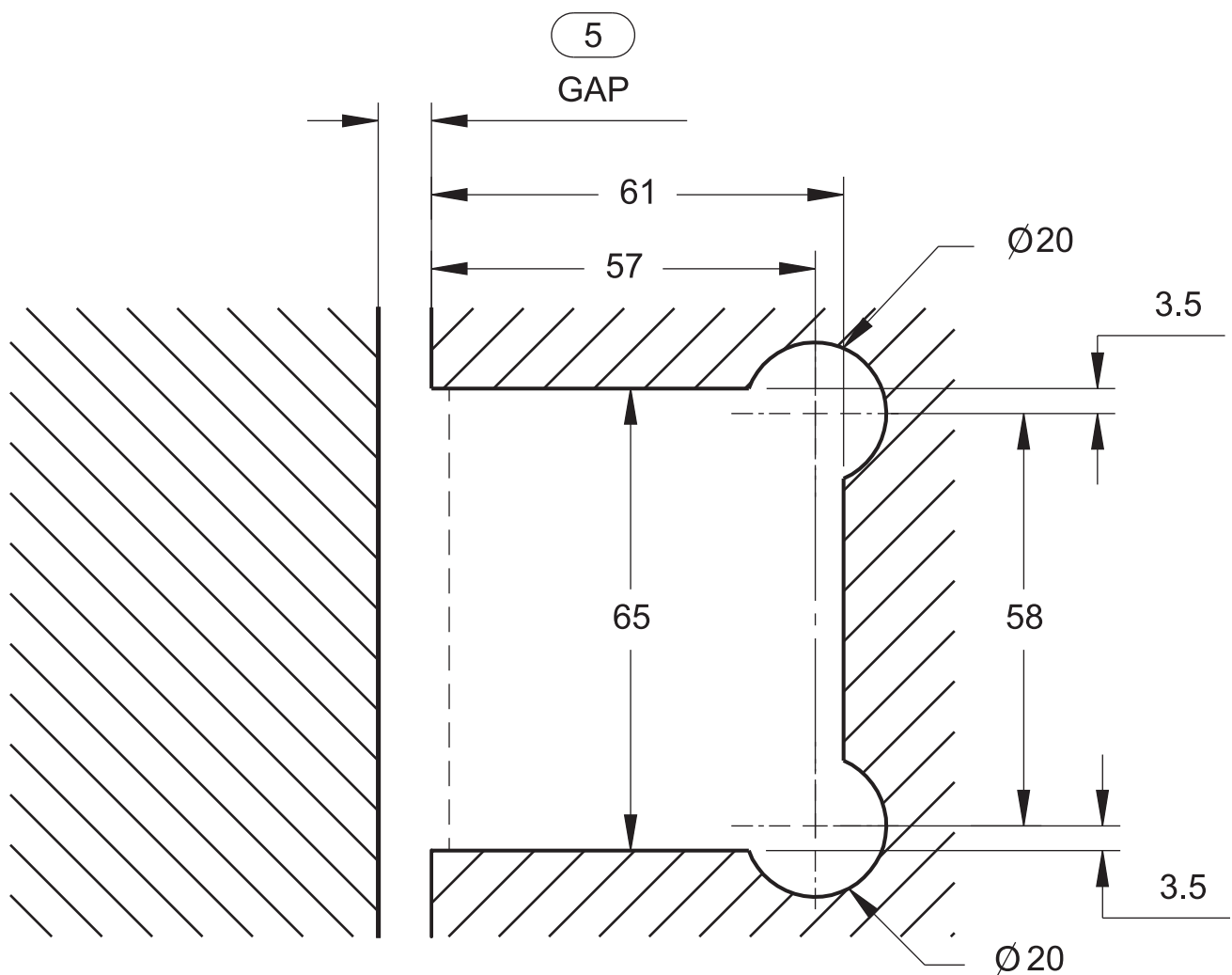


GLASS CUT-OUT TOP AND BOTTOM
(ALL DIMENSIONS IN MILLIMETERS)

GLASS PREPARATION

120, 220 & 320 SERIES HINGE

GLASS TO WALL/POST

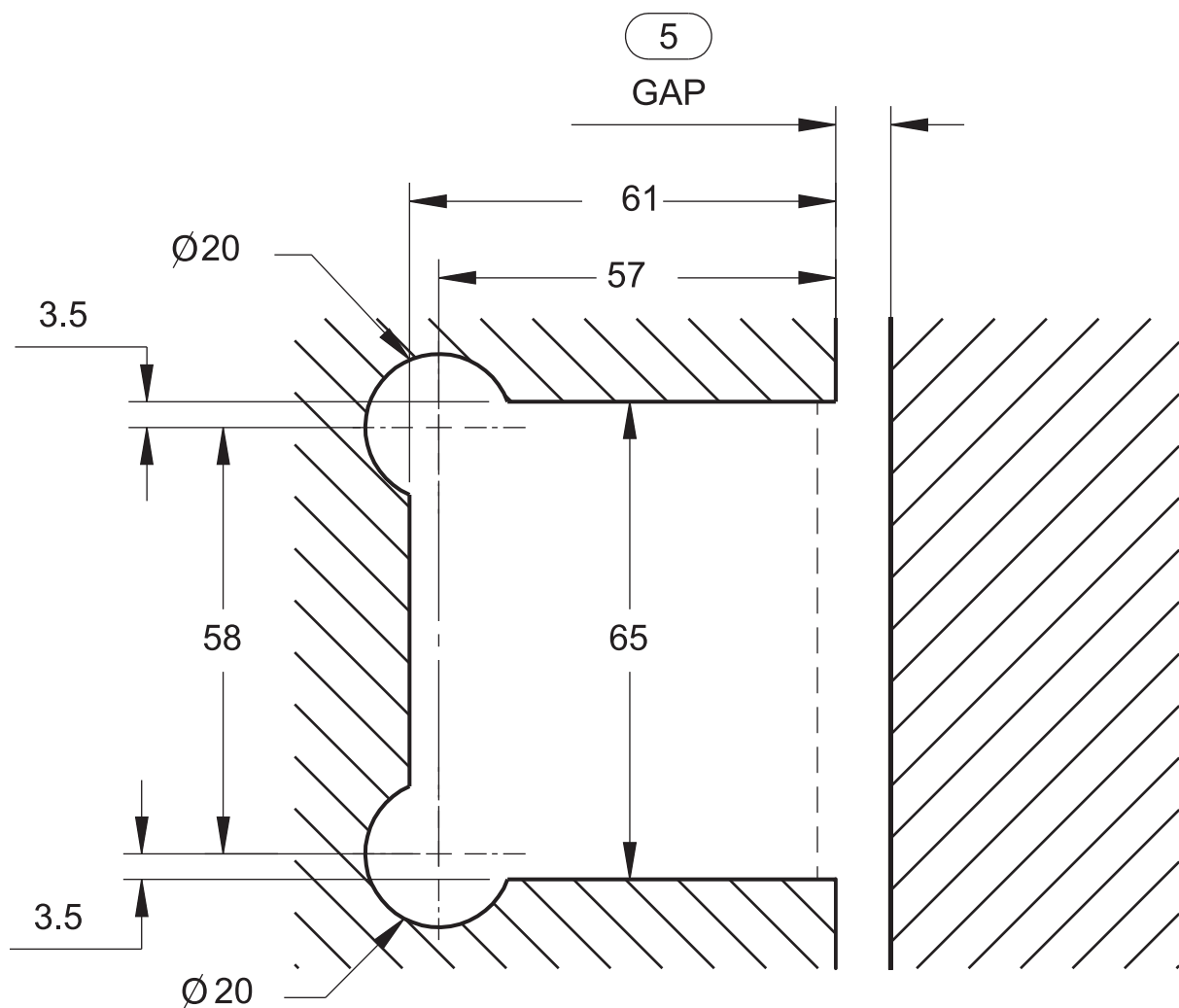


GLASS CUT-OUT TOP AND BOTTOM
(ALL DIMENSIONS IN MILLIMETERS)

GLASS PREPARATION

220 SERIES HINGE

GLASS TO DOOR JAMB

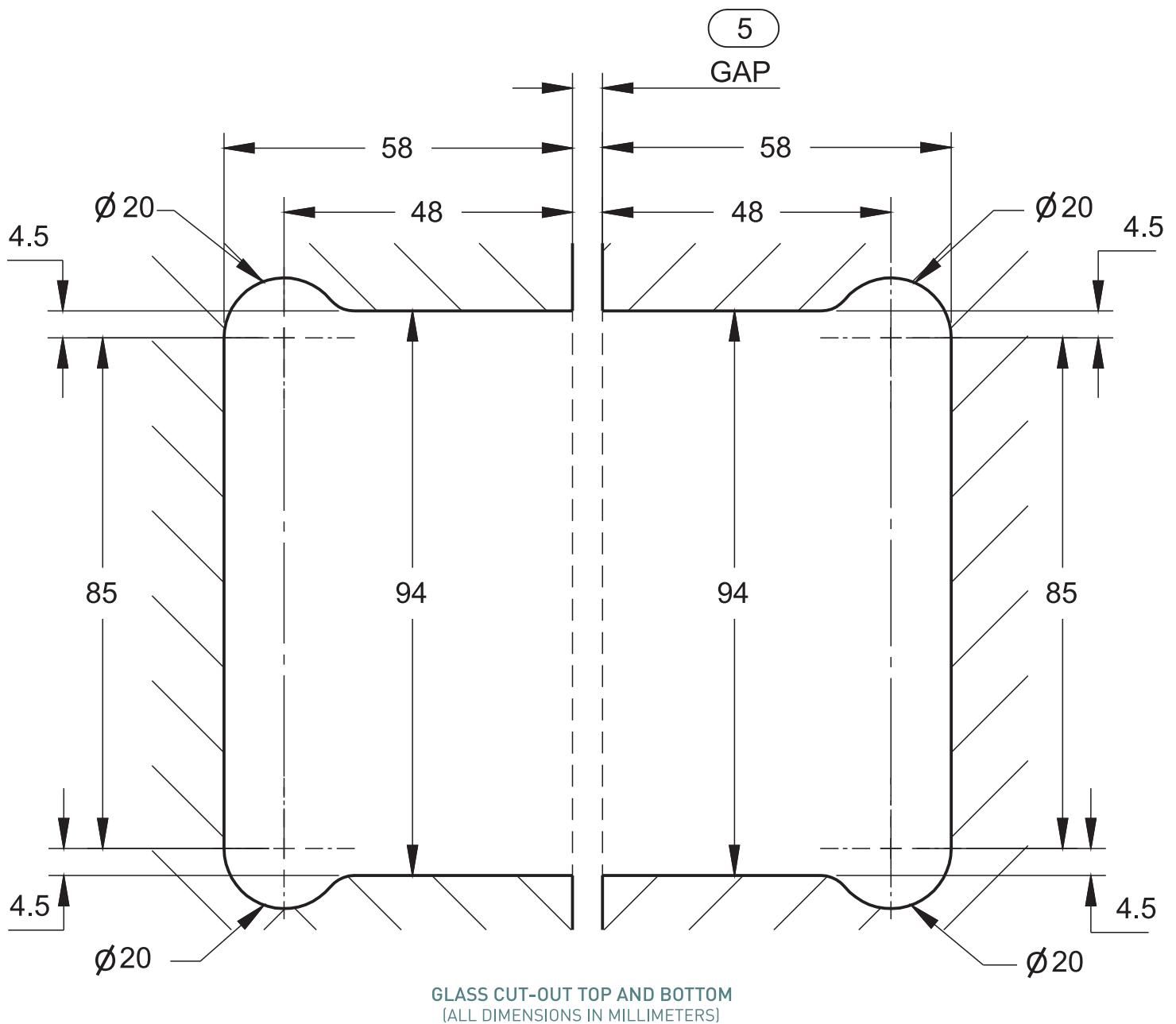


GLASS CUT-OUT TOP AND BOTTOM
(ALL DIMENSIONS IN MILLIMETERS)

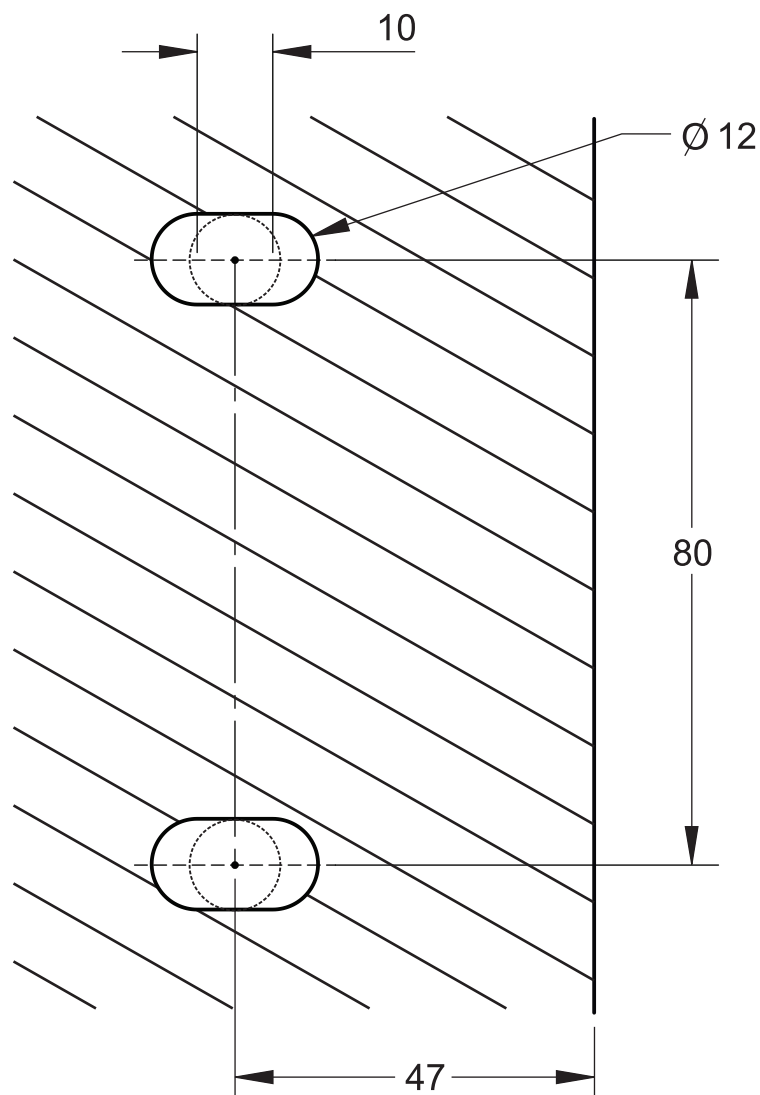
GLASS PREPARATION

130 SERIES HINGE

GLASS TO GLASS

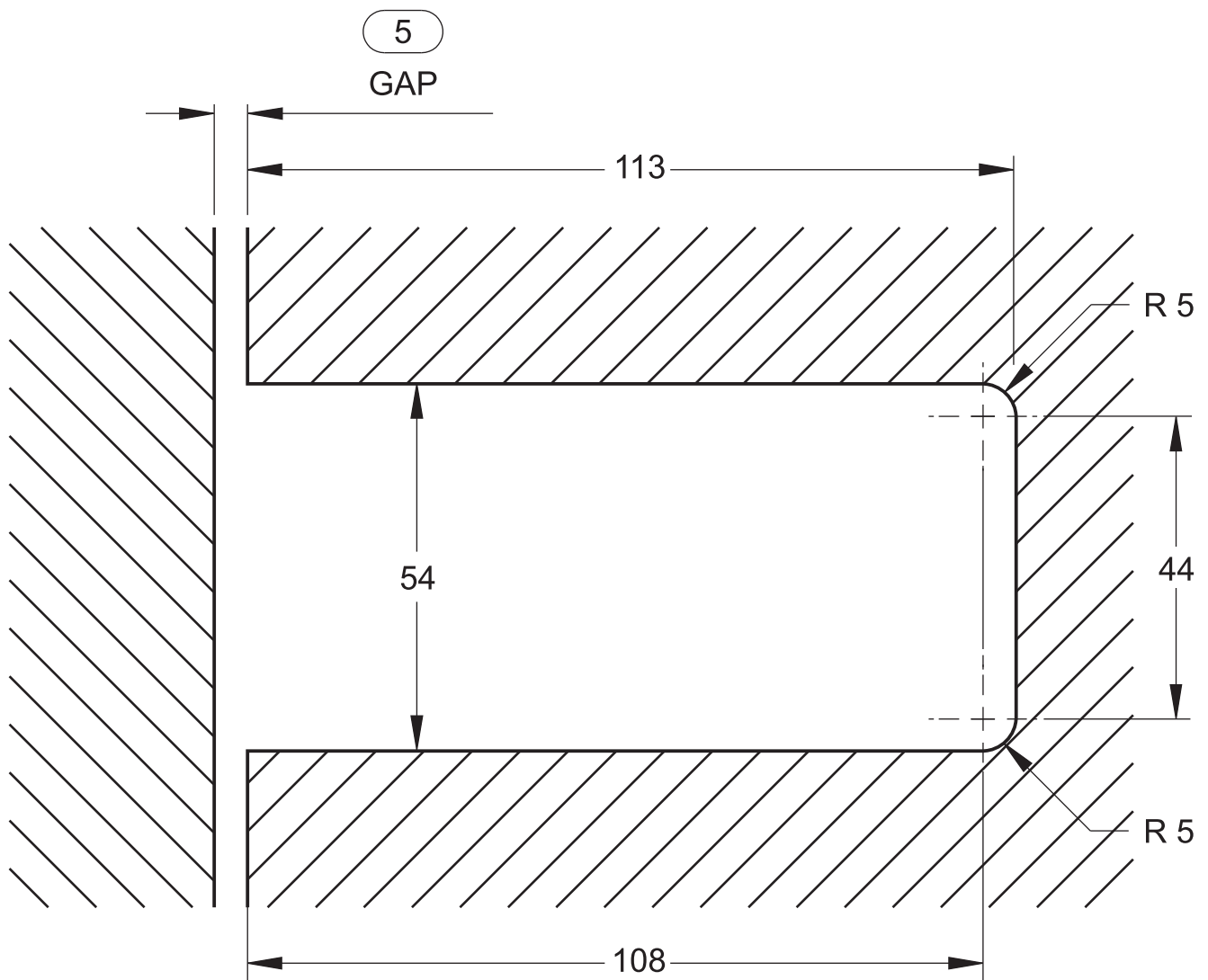


GLASS PREPARATION LATCH SLOTS GLASS GATES/DOORS



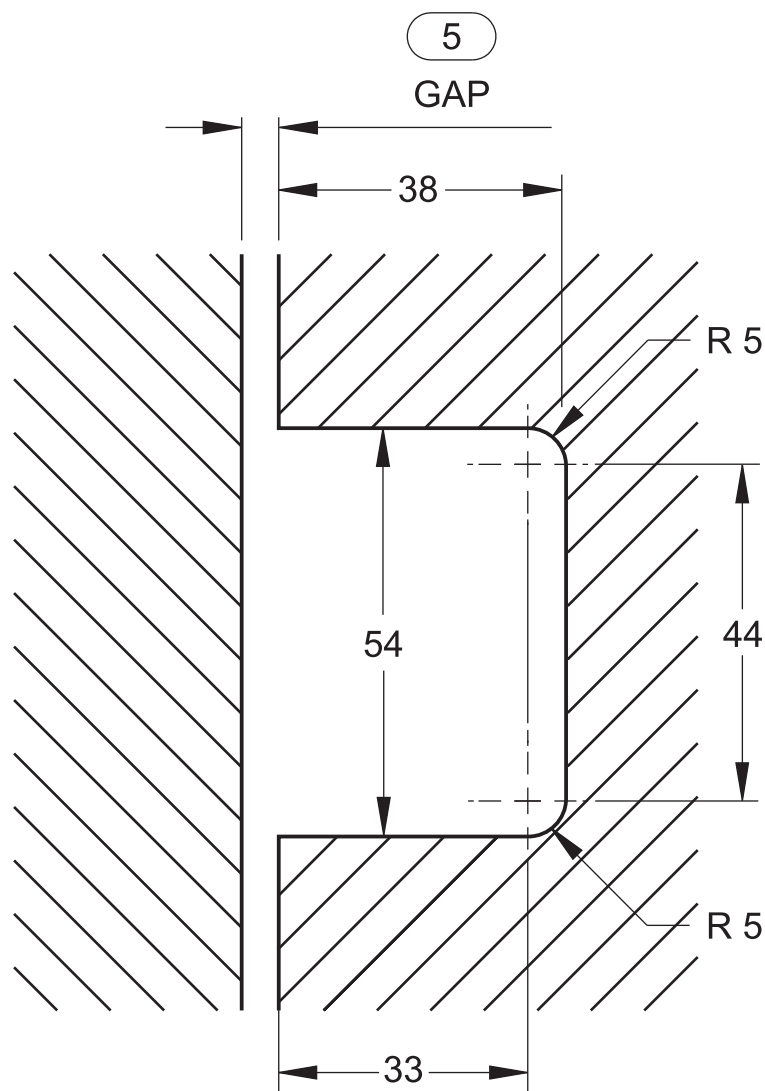
(ALL DIMENSIONS IN MILLIMETERS)

GLASS PREPARATION MAGNETIC DOOR HANDLES GLASS GATES/DOORS



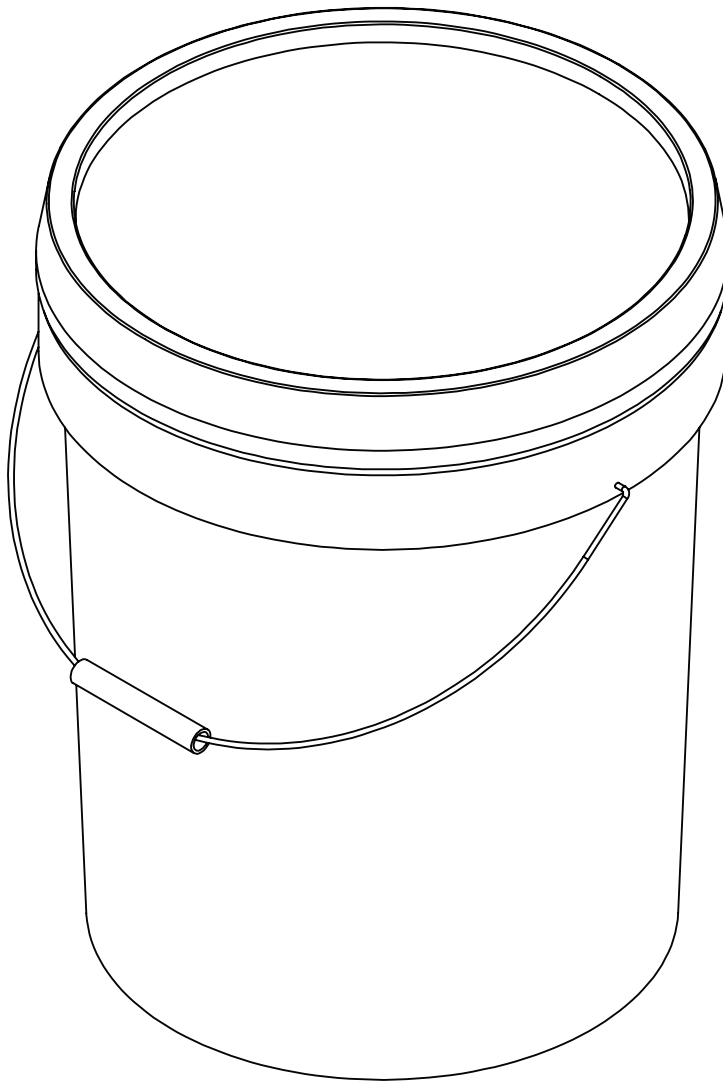
[ALL DIMENSIONS IN MILLIMETERS]

GLASS PREPARATION MAGNETIC RECEIVER GLASS PANEL



(ALL DIMENSIONS IN MILLIMETERS)

SPIGOT & CHANNEL GROUT ANCHORING CEMENT



APPLICATIONS

- SPIGOTS & CHANNEL FIXINGS
- CEMENTITIOUS GROUTING WHERE PARTICULAR RAPID SET TIMES ARE REQUIRED
- ANCHORING FASTENERS, BARS & FITTINGS



20 Kg



MIX RATIO
30% WATER



WET DENSITY
2.0g/cm³



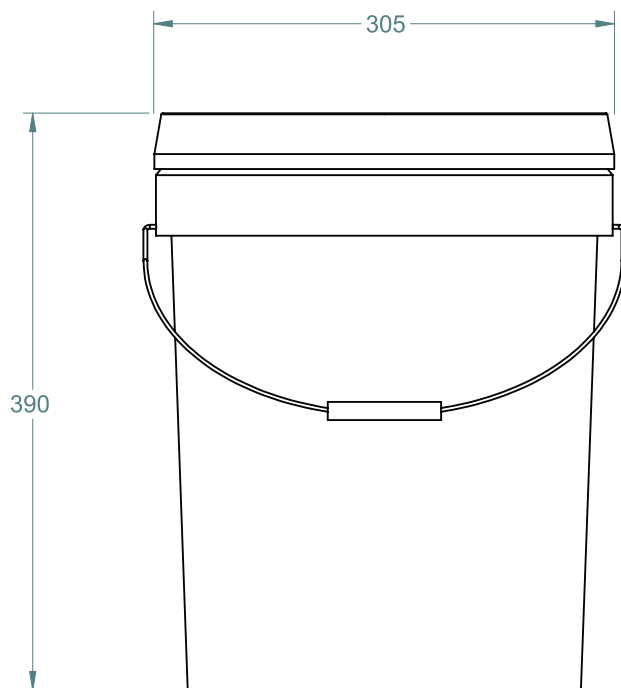
**SEGREGATION
/BLEED**
NONE



STRENGTH
50 Mpa



**TYPICAL SET
TIME**
15 - 20 min
@ 25°C



FRONT VIEW

TO ORDER SPECIFY:

- **PAC PER 20Kg PALE***

*EACH PALE CONTAINS
2x 10Kg BAGS

PROPERTIES

- SPECIFICALLY FORMULATED FOR GLASS INDUSTRY APPLICATIONS
- AGGREGATE FREE
- RAPID STRENGTH GAIN FACILITATES FOR A RAPID INSTALLATION
- READY TO USE, PRE-MIXED FORMULA, ONLY WATER REQUIRED
- CAN BE MIXED FOR STIFF, PLASTIC, FLOWABLE OR FLUID APPLICATION
- DUAL EXPANSION COMPENSATES FOR SHRINKAGE IN PLASTIC & HARDENED STATES
- LOWER WATER/CEMENT RATIO REDUCES DRYING SHRINKAGE, INCREASES DURABILITY AND ALSO REDUCES PERMEABILITY

THE GROUT HAS VARYING FACTORS THAT EFFECT THE SET TIME.
ALL TIMES ARE AN ESTIMATED GUIDE ONLY.

FACTORS TO CONSIDER WHEN USING THE GROUT:

- AMBIENT AIR TEMPERATURE
- WATER TEMPERATURE
- WATER VOLUME
- GROUT POWDER TEMPERATURE
- MIX QUANTITY (LARGER AMOUNTS ACTUAL SPEED UP SET TIME)

SET TIMES

10 - 15 min @ 35°C
15 - 20 min @ 25°C
30 - 40 min @ 10°C

SET TIMES ARE BASED ON THE AIR,
WATER AND POWDER TEMPERATURES
BEING AT 22°C AND THE VOLUME BEING
MIXED IS A 5KG BATCH

STRENGTH TIMES

10 MPa @ 2 hours
30 MPa @ 24 hours
40 MPa @ 7 days
50 MPa @ 28 days

GLASS HARDWARE AUSTRALIA

2A/172 SILVERWATER ROAD
SILVERWATER NSW 2128
AUSTRALIA

MORE PRODUCTS TO BE AVAILABLE SOON
PLEASE, CHECK OUR WEBSITE FOR MORE INFORMATION
www.polarishinge.com.au
