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CASEMENT WINDOW HINGES - VARIOUS

Inside:

- Yale Window Friction Hinge
- Yale Window Egress Friction Hinge
- Securistyle Side Hung Friction Hinge for Rehau Rio only
- Securistyle Side Hung Egress Friction Hinge for Rehau Rio only
- Securistyle Restrictor Friction Hinge
- Securistyle Heavy Duty Friction Hinge
- NICO Atlas Heavy Duty Egress Friction Hinge
- NICO Atlas Heavy Duty Top & Side Hung Hinge
- NICO Atlas Quad Multi-function Hinge
- Trojan Mega Egress Friction Hinge - For Residence Flush Windows Only
- 70mm Casement Butt Hinge

For further assistance, call 01702 613733

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YALE WINDOW FRICTION HINGE

- Versatile hinge to suit a variety of applications
- Made from ferritic stainless steel
- 16mm stack heights
- Size requirements:

  Top Hung: 8” 10” 12” 16” 20” 24”
  Side Hung: 12” 16”

- Tested to Industry approved standards

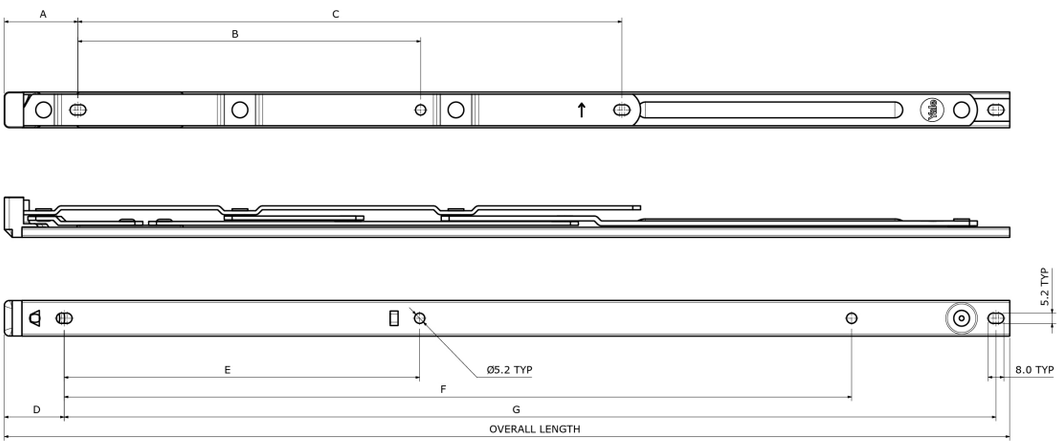




Sizes and Capacities

Hinge Size (Top Hung) mm	Max Vent Weight kg	Max Vent Height mm	Min Vent Height mm	Opening Angle +/- 2.5°
209.9 (8”)	12	350	200	60°
261 (10”)	16	400	275	58°
313.5 (12”)	20	550	350	65°
416.5 (16”)	21	780	500	52°
512 (20”)	24	1000	700	42°
617 (24”)	35	1200	850	38°

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Min Vent Width mm	Opening Angle +/- 2.5°
313.5 (12”)	22	600	300	65°
412 (16”)	24	700	400	60°



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YALE WINDOW EGRESS FRICTION HINGE

- Available as standard egress or egress/easy clean option
- Made from ferritic stainless steel
- Size requirements:

  Egress only & Egress Easy Clean: 12” 16”
  Side Hung and 17mm stack height

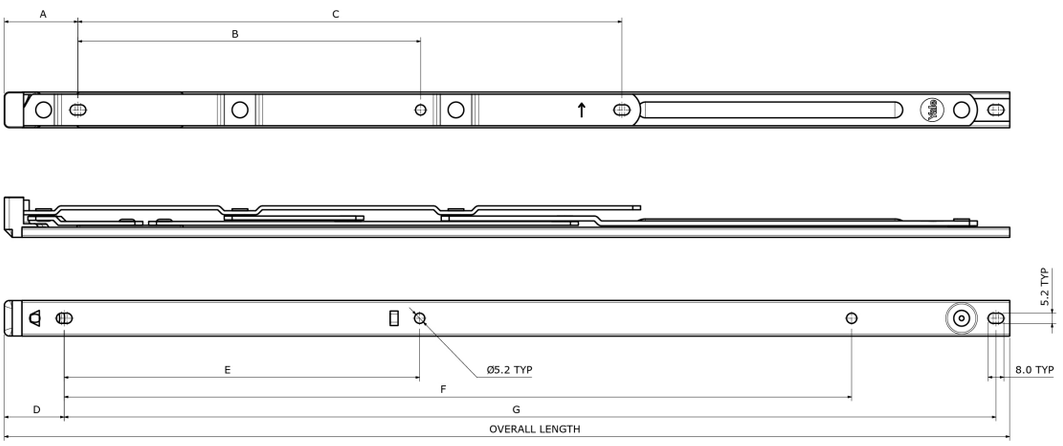
- Tested to Industry approved standards





Sizes and Capacities

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Min Vent Width mm	Opening Angle +/- 2.5°
EGRESS ONLY				
306.5 (12”)	22	600	300	81°
409.1 (16”)	24	700	400	84°
EGRESS EASY CLEAN				
317.5 (12”)	22	600	300	81°
420.1 (16”)	24	700	400	84°



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SECURISTYLE SIDE HUNG FRICTION HINGE



- Side Hung option only for Rehau Rio windows
- Available in sizes 12” and 16”
- Side hung. 17mm stack height
- Designed for consistent reliability and accuracy of closure.
- High performance and long life.
- Provides proven weather-sealing and security of closure.

TECHNICAL SPECIFICATION

- Corrosion resistance - Meets the requirements of BS EN 1670: 1998
- Performance - Meets the requirements of BS6375 Pt 1:1989. Tested to 40,000 cycles of opening.
- Operation - Meets the requirements of BS6375 Pt2:1987.

MATERIAL SPECIFICATION

- Bars, Arms & Rivets - Stainless Steel BS EN 10088 Pt 2:1995.
  Ferritic - 1.4016 (S430 S17).
  Austenitic - 1.43.1 (304 S15).
- End Cap - Grey Nylon
- Mouldings - Grey Nylon
- Friction Screw - Brass

Sizes and Capacities

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Min Vent Width mm	Opening Angle +/- 2.5°	Dimension ‘L’ mm
310 (12”)	22	600	300	60°	172
412 (16”)	24	700	400	60°	170

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SECURISTYLE SIDE HUNG EGRESS FRICTION HINGE



DEFENDER EGRESS FRICTION HINGE

- Side Hung option only for Rehau Rio windows
- Available as standard egress or egress/easy clean option
- Easy clean has built in second slider that is invisible when the window is closed but gives easy clean facility at the press of a lever.
- Available in sizes 12” and 16”. Side Hung and 17mm stack height.
- Specifically developed to meet PSA regulations and to satisfy the increased safety requirements including emergency exit now demanded by local authorities and other public bodies for side hung windows.
- The 12” has an opening angle of 80 degrees for emergency exit whilst the 16” has an opening angle of 90 degrees.
- Unique controllable friction device negates need for a peg stay to hold the window open.
- Unique locating system for reliable closing.
- Extended enclosed end cap to enhance weather sealing.
- Long and reliable working life tested to 20,000 cycles.
- Asymmetric location system for reliable weather sealing to BS6375 Part 1.
- Easy friction adjustement without metal to metal contact.
- Manufactured in ferritic 430* steel.

Sizes and Capacities

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Min Vent Height mm	Dim ‘A’ mm	Dim ‘B’ mm	Opening Angle +/- 2.5°
310 (12”)	22	600	300	54	163	80°
412 (16”)	24	700	400	57	268	90°

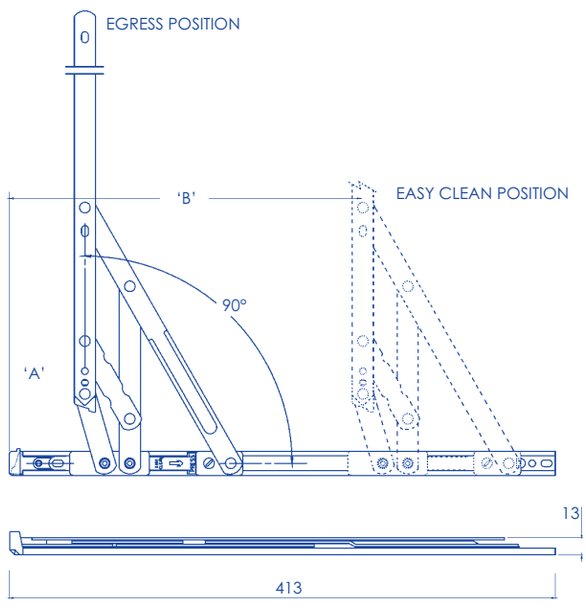
TECHNICAL SPECIFICATION

- ❖ Corrosion resistance - Meets the requirements of BS EN 1670: 1998
- ❖ Performance - Meets the requirements of BS6375 Pt 1:1989. Tested to 40,000 cycles of opening.
- ❖ Operation - Meets the requirements of BS6375 Pt2:1987. Complies with BS5588 part 1:1990

MATERIAL SPECIFICATION

- ❖ Bars, Arms & Rivets - Stainless Steel BS EN 10088 Pt 2:1995.
  Ferritic - 1.4016 (S430 S17).
  Austenitic - 1.43.1 (304 S15).
- ❖ End Cap - Black Nylon
- ❖ Mouldings - Black Nylon
- ❖ Friction Screw - Brass

Defender 16” Easy Clean Egress Hinge



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SECURISTYLE RESTRICTOR FRICTION HINGE



- Available in sizes 12”, 16”, 20” and 24”.
- Top hung and side hung. 16mm stack height
- Friction hinge for child safety.
- Child resistant lever limits window opening for maximum safety.
- Quick release function allowing window to be fully opened for easy cleaning or emergency escape.
- Provides proven weather-sealing and security of closure.

TECHNICAL SPECIFICATION

- Corrosion resistance - Meets the requirements of BS EN 1670: 1998
- Performance - Meets the requirements of BS6375 Pt 1:1989. Tested to 40,000 cycles of opening.
- Operation - Meets the requirements of BS6375 Pt2:1987. Designed to meet the requirements of BS8213 Pt 1:1991

MATERIAL SPECIFICATION

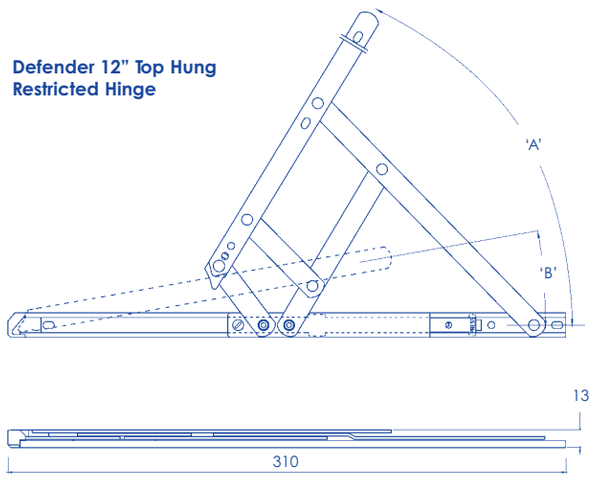
- Bars, Arms & Rivets - Stainless Steel BS EN 10088 Pt 2:1995.
  Ferritic - 1.4016 (S430 S17).
  Austenitic - 1.43.1 (304 S15).
- End Cap - Grey Nylon
- Mouldings - Grey Nylon
- Friction Screw - Brass

Sizes and Capacities

Hinge Size (Top Hung) mm	Max Vent Weight kg	Max Vent Height mm	Min Vent Height mm	Opening Angle ‘A’	Restricted Angle ‘B’
310 (12”)	20	550	350	65°	15°
412 (16”)	21	750	500	60°	10°
513 (20”)	24	1000	700	50°	8°
615 (24”)	35	1200	850	37.5°	7°

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Min Vent Width mm	Opening Angle ‘A’	Opening Angle ‘B’
310 (12”)	22	600	300	60°	13°
412 (16”)	24	700	400	60°	12°

Defender 12” Top Hung Restricted Hinge



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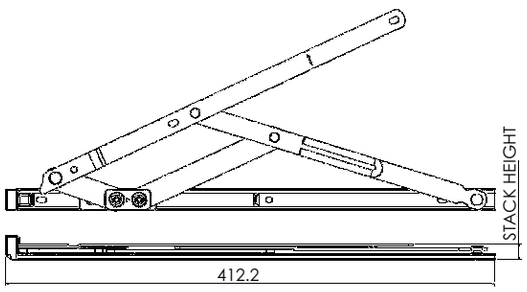
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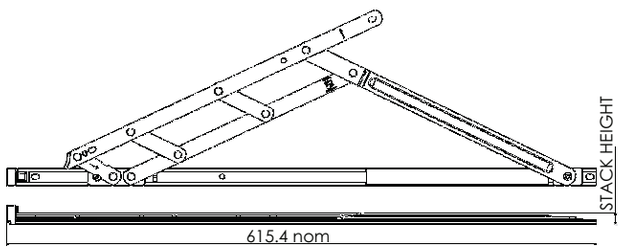
SECURISTYLE HEAVY DUTY FRICTION HINGE

The Defender Plus Heavy Duty Hinge is an ideal solution for large and heavy sashes up to 50kg.



- Ability to carry a load of up to 50kg top-hung and 40kg side hung
- Asymmetric location systems for reliable and accurate closure
- Improved weather sealing and draught proofing performance from asymmetrical vent arm form
- Enclosed end cap to prevent ingress of debris and provide increased cavity tolerance
- Long and reliable working life tested to 30,000 full cycles
- Top Hung available in 24”/615mm
  Side Hung available in 16”/412mm- Austenitic only.





Sizes and Capacities

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Height (mm)	Min Vent Length (mm)	Opening Angle
Top Hung 24/615	50	1500	850	27°

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Width (mm)	Min Vent Width (mm)	Opening Angle
Side Hung 16/412	40	1000	400	60°

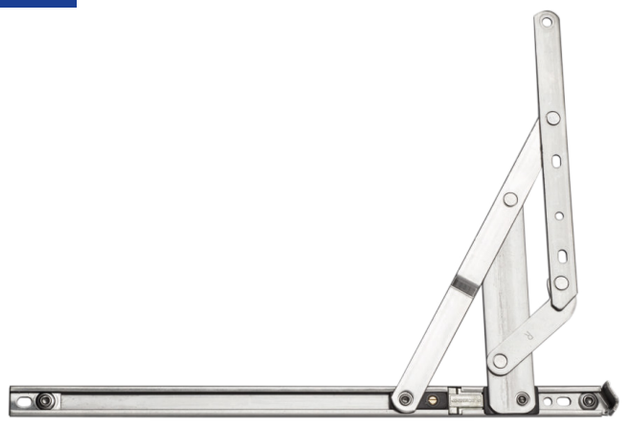
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NICO ATLAS HEAVY DUTY FRICTION HINGE - EGRESS & EGRESS EASY CLEAN



The Nico Atlas HD friction hinge is ideal for accommodating sash weights of up to 50kg and sash widths up to 1000mm

- Rigorously tested and complies with Building Regulations Part B 2013 for Fire Escape. Also complies with BS9991:2011 for Fire Escape and BS8213-1:2004 for Easy Cleaning.
- 3 benefits in 1 hinge - Heavy Duty, Egress and Easy Clean
- Carries heavy weights (up to 50kg) and is suitable for large sashes (up to 1000mm)
- Unique geometry provides greater clear opening even on small windows
- Unique geometry provides greater and more user friendly easy clean
- Button operation for easy clean is simple with automatic reset upon closure of the window
- Stainless steel construction has exceptional corrosion resistance
- 12”, 14” and 16” Side Hung variants available.

Easy Clean Position



Egress Only Version



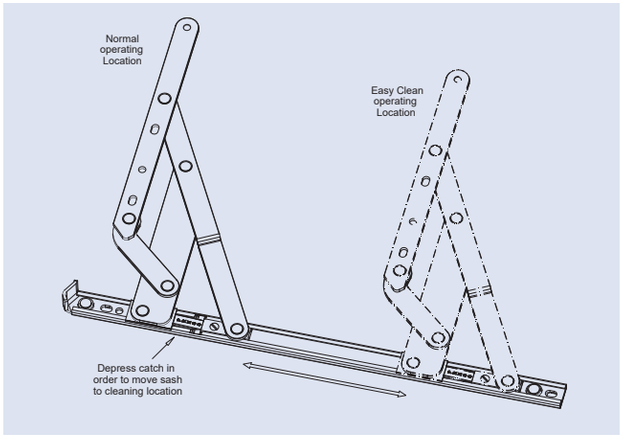
Sizes and Capacities

SIDE HUNG EGRESS ONLY

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Width (mm)	Opening Angle
12/300	35	700	87°
14/350	45	900	87°
16/400	50	1000	87°

SIDE HUNG EGRESS EASY CLEAN

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Width (mm)	Opening Angle
12/300	35	700	90°
14/350	45	900	90°



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NICO ATLAS TOP & SIDE HUNG HEAVY DUTY HINGE

The Nico Atlas heavy duty hinge meets the increasing demand for larger and heavier windows. Increased bar thicknesses and additional fixing holes provide maximum stability and allow easy adjustment.

- Carries heavier weights than standard hinges
  - Max Vent Weight of 35kg for Side Hung
  - Max Vent Weight of 60kg for Top Hung

- Stainless steel riveted nose cap gives strength and reliability

- 3 stage counterbore process improves resistance to wear

- Glass reinforced nylon slide eliminates breaking and wear

- 4.8mm stainless steel rivets improve load carrying

- Stainless construction has exceptional corrosion resistance

- Brass adjustment screw provides adjustable friction

- 16” and 24” Side hung & Top hung variants available.



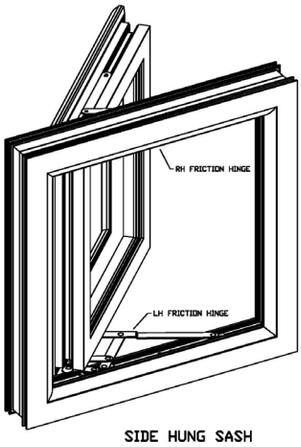
Testing:

- Successfully security tested with Nico Xtra Bolts as a critical component within PAS24:2016

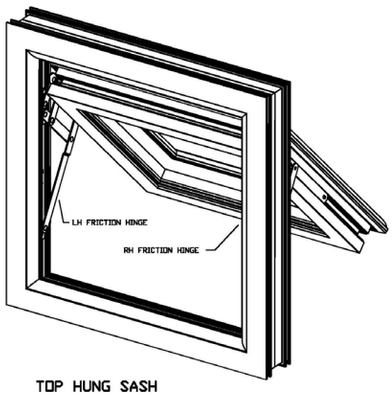
- Successfully cycle tested as a critical component within BS EN 6375 Pt 2 (resistance to repeated opening and closing).

- Successfully weather tested as a critical component within BS EN 6375 Pt 1 (Air, wind and water testing)

- Corrossion tested to BS EN 1670 Grade 5 - 480 hours.



SIDE HUNG SASH



TOP HUNG SASH

Sizes and Capacities

SIDE HUNG

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Width (mm)	Opening Angle
16/400	35	900	50°

TOP HUNG

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Height (mm)	Opening Angle
16/400	45	1000	50°
24/600	60	1500	38°

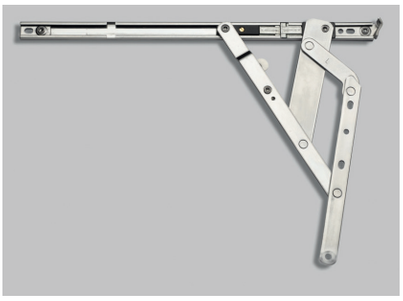
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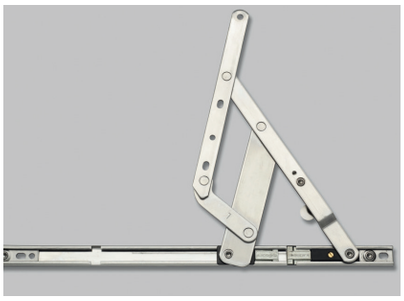
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NICO ATLAS QUAD MULTI-FUNCTION HINGE





With 4 solutions in 1 hinge, the Atlas Quad provides restriction, egress and easy clean functions on a 14" heavy duty side hung friction hinge.

- 4 benefits in 1 hinge – Restriction, Heavy Duty, Egress and Easy Clean
- Restricts initial window opening
- Child resistant catch release for full opening, with automatic reset on closure
- Carries heavy weights up to 45kg
- Unique geometry provides greater clear opening for escape
- Unique geometry provides greater and more user friendly easy clean
- Simple easy clean button operation with automatic reset upon closure of the window
- Stainless Steel riveted nose cap gives strength and reliability
- 3 stage counterbore process improves resistance to wear
- Glass reinforced nylon slide eliminates breaking and wear
- 4.8mm Stainless Steel rivets improve load carrying
- Stainless construction has exceptional corrosion resistance
- Brass adjustment screw provides adjustable friction

Testing:

- Meets the requirements of BS EN14351 Load Bearing Capacity of Safety Devices
- Complies with BS 6375-2 : 2009 Strength and Operation Characteristics
- Complies with Building Regulations Part B: 2013 for Fire Escape
- Complies with BS 9991:2011 for Fire Escape
- Complies with BS8213-1:2004 for Easy Cleaning
- Successfully security tested with Nico Xtra Bolts as a critical component within PAS 24 : 2016
- Secured By Design Approved as a Police Preferred Specification
- Successfully cycle tested as a critical component within BS EN 6375 Pt 2 (Resistance to repeated opening and closing)
- Successfully weather tested as a critical component within BS EN 6375 Pt 1 (Air, wind and water testing)
- Corrosion tested to BS EN 1670 Grade 5 – 480 hours

Sizes and Capacities

SIDE HUNG

Hinge Size Length (in/mm)	Max Vent Weight (kg)	Max Vent Width (mm)	Opening Angle
14/350	45	650	12° Restricted / 80° Open

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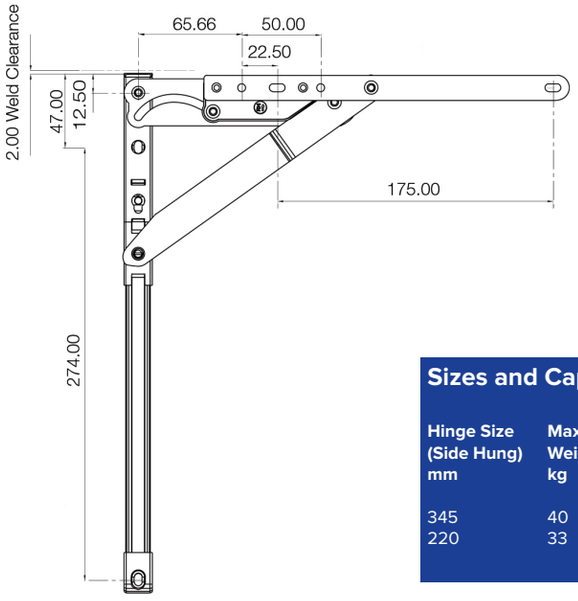
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TROJAN MEGA EGRESS FRICTION HINGE - RESIDENCE ONLY

- For use with Residence Flush Windows only.
- Maximum weight load 40kg
- The Mega Egress friction hinge is suitable for side hung applications
- 345mm for egress, easy clean and 220mm for egress only
- True 90° opening for egress compliance
- In open position the sash is moved outside the frame to maximise the escape aperture
- Due to its superior integral strength, one hinge covers all frame widths up to 900mm
- Reduced possibility of finger entrapment
- Tested to BS EN 1670 and has exceeded Grade 5 classification for ultimate corrosion resistance
- Tested to EN1191 over 25,000 cycles under 40kg operational load (345mm version) and 33kg operational load (220mm version)









Sizes and Capacities

Hinge Size (Side Hung) mm	Max Vent Weight kg	Max Vent Width mm	Opening Angle
345	40	900	90°
220	33	600	90°

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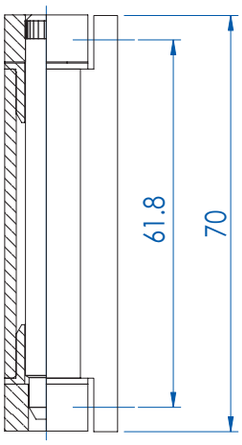
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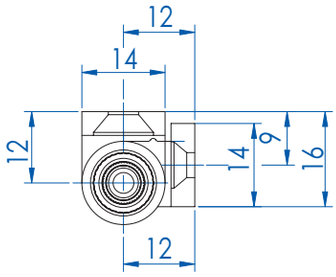
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70MM CASEMENT BUTT HINGE

- Components made of aluminium (extruded profile)
- Pin made of stainless steel
- Maintenance-free through high-quality plastic bearings
- Can be used on right- and left-wing PVC windows
- Typically used on open-in bottom hung windows
- Can only be used on casement Tilt & Turn Sash
- White only.







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