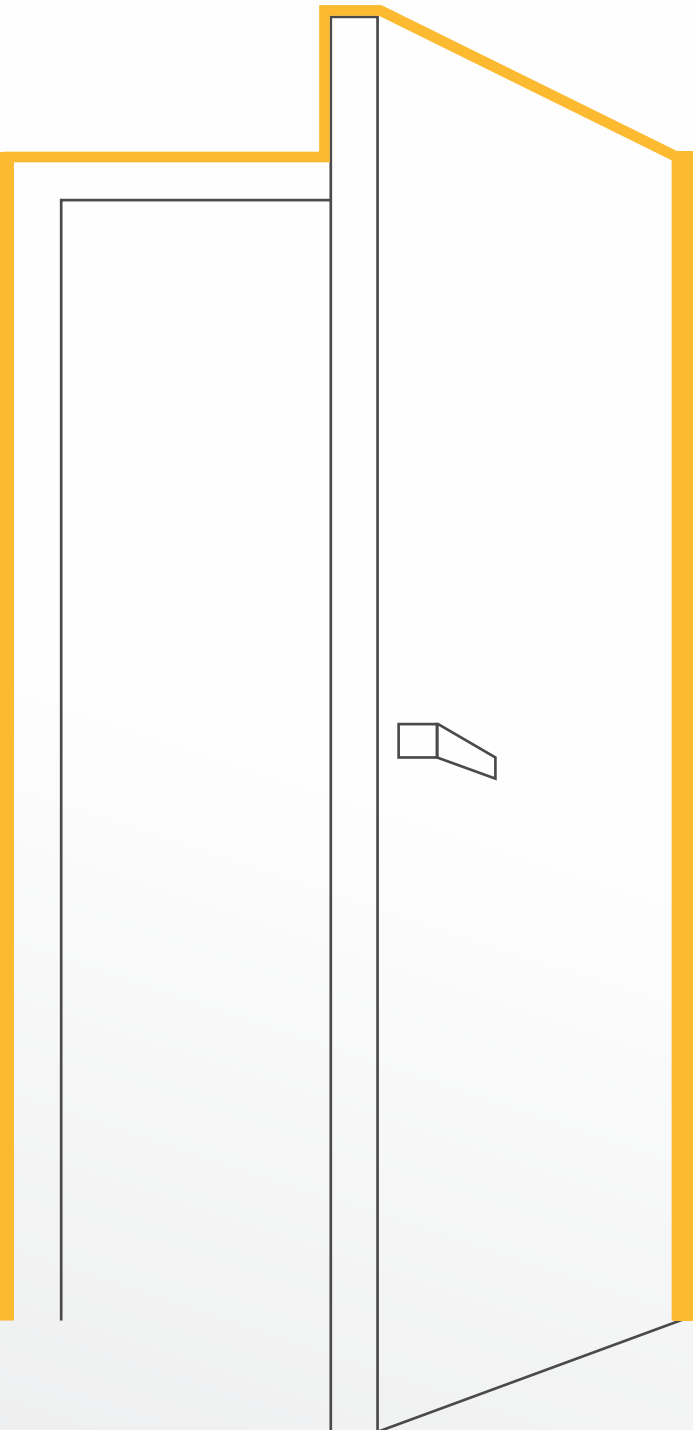




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# McCoy Magnum Series Friction Stay

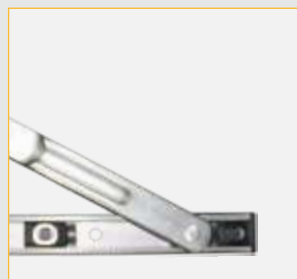
Heavy Duty Friction Stay, SS304 Grade

# McCoy Magnum Series

Heavy Duty Friction Stay (SS304 Grade)

## Highlights:

- Heavy Duty 4 Bar Friction Hinges made from Austenitic SS 304 Steel for Durability and long Service life.
- SS304 (EN 1.4301) is composed of 17.5-20% Chromium, 8-11% Nickel, < 0.08% Carbon, 2% Manganese, 1% Silicon, 0.045% Phosphorous and 0.03% Sulphur and has Hardness of up to 360 BHN, high Fatigue Strength of up to 440 MPa, Young's Modulus of 200 GPa, Ultimate Tensile Strength up to 1180 MPa, Shear Strength up to 690 MPa.
- With a Pitting Resistance Equivalent Number (PREN) of 20, and good resistance to Inter-Granular Corrosion, SS 304 is well serviceable in corrosive environments.
- 18 mm Base Channel Width.
- 16.5 mm. Stack Height suitable for both Aluminium as well as PVC-U applications.
- Specially designed for Side Hung and Top Hung Vents for Aluminium as well as PVC-U Windows.
- Self Balancing with excellent weather sealing capabilities.
- Pressure adjustment screw for catering to different sash weights.
- Capable of withstanding positive as well as negative wind loads in closed condition.
- Vent openable up to 88°.
- Suitable options available for Top Hung Vent sizes also.
- Suitable options available for Side Hung Vent sizes upto 700 mm x 1400 mm. and Vent weights up to 23 kg.
- Easy to clean outside glass surface as the sash shifts sufficiently away from the jamb.
- 24x7 Technical Support.
- Grade V Corrosion Resistance – Successfully tested for 500 Hours in Neutral Salt Spray solution for Corrosion resistance. (Certificate available on request)
- Guaranteed for 10 years.



Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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### Certification



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	Feature	Advantage	Benefit
	Symmetrical Arrow Head End Point and End Cap	Symmetrical Arrow Head End Point and Cap enable opening of the Hinge on either side, universally.	Precludes the spoiling of Hinge on inadvertant opening on the wrong side.
	Composite Stainless Steel and Plastic Slider	Smoother and Stick – Slip free movement of Vent, low wear and tear due to no Metal to Metal contact and Self Cleaning of debris.	Longer Service Life and low maintenance.
Made from High Quality Austenitic SS304 Stainless Steel.	Young's Modulus of 200 GPa, Ultimate Tensile Strength up to 1180 MPa, Shear Strength up to 690 MPa.	Very good Mechanical Properties leading to ease of Load Carrying capacity.	Longer Service Life
	Hardness of up to 360 BHN	Low Wear and Tear due to low abrasion.	Longer Service Life
	Fatigue Strength of up to 440 MPa	Can withstand repeated loading and unloading cycles, so more Cycles of Operation can be achieved.	Longer Service Life
	PREN = 20	Very Good resistance to Corrosion.	Can be used in corrosive environment like proximity to Sea Shore or Chemical factories.
	18 mm Base Channel Width	Fits into most profiles and no further machining may be required.	Easier and faster fitment, saves time and increases Productivity.
	Friction Adjustment	Regulates the amount of Force required to open and close the window.	Comfortable and easy to operate for the user.
	Self Balancing capabilities	Precludes the automatic closure of sash due to its own weight.	Safer as there is no chance of the sash closing down accidentally.
	Vent openable up to 88°	Better ventilation and easy to clean outer glass surface.	Keeps room fresh and ventilated and makes cleaning easier. Also possibility of Emergency egress.

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**Technical Data**



Product Name	Stack Height	Bar Thickness	Number of Arm	Hung	Height (mm)	Width (mm)	Weight Capacity	Opening Angle*
McCoy Magnum FS - 10"	16.5 mm	2.5 mm	4	Side Hung	1400	500	15 Kg	43° / 88° ± 2°
McCoy Magnum FS - 12"	16.5 mm	2.5 mm	4	Side Hung	1400	600	20 Kg	53° / 88° ± 2°
McCoy Magnum FS - 14"	16.5 mm	2.5 mm	4	Side Hung	1400	650	22 Kg	43° / 88° ± 2°
McCoy Magnum FS - 16"	16.5 mm	2.5 mm	4	Side Hung	1400	700	23 Kg	53° / 88° ± 2°

\* Shows the recommended range of opening angles.

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