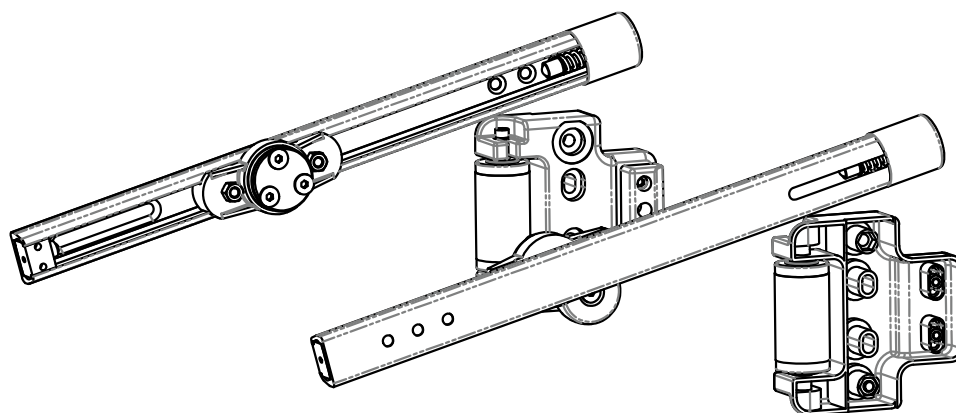


# **SLIDING** SYSTEMS

## **Slide and Tilt System Technical Reference**



### **Sliding Systems**

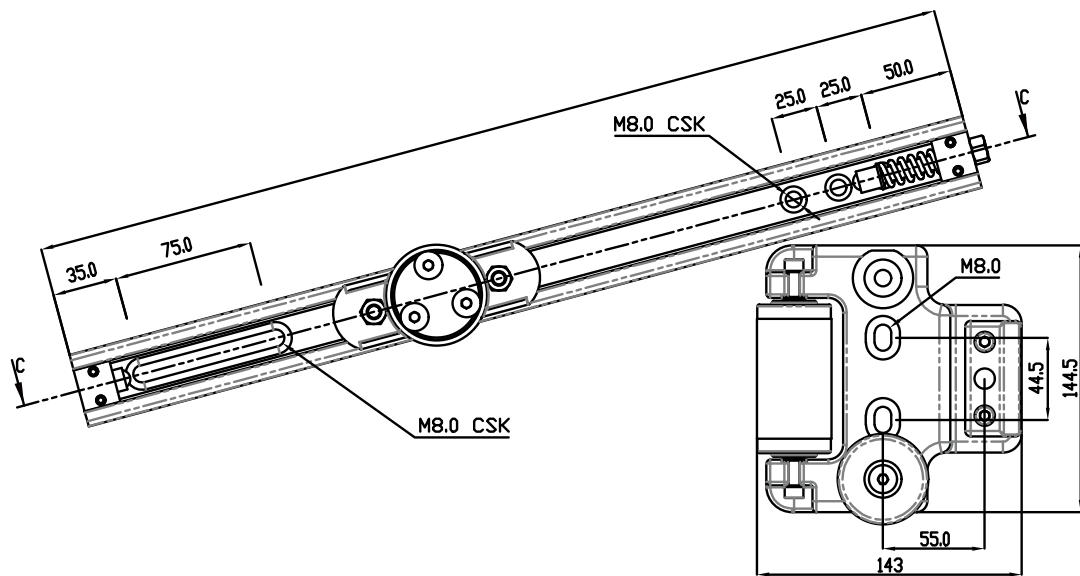
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## Slide and Tilt System Overview Technical Drawing

Developed from polymers and aluminum, Sliding Systems' unique slide and tilt system is 50% lighter than previous components, yet it is stronger, requires less maintenance and lasts longer than steel systems.

The following functional requirements were tested and satisfied

- Typical temperature range -20°C ~ 40°C
- Short term exposure; -20°C for 24 hours, +100°C for 15 minutes
- 20 years lifetime
- 100% relative humidity
- Immersion in water
- Ability to withstand shock loads
- 90kg load (including drawer) – Tested up to 140kg with a minimum tensile strength of 80 MPa
- Withstand extended vibration without damage

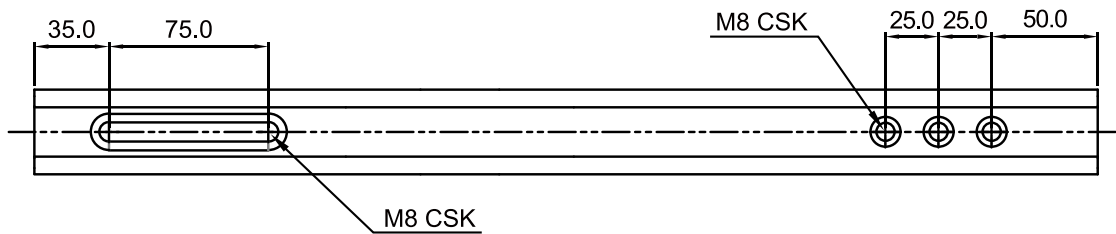
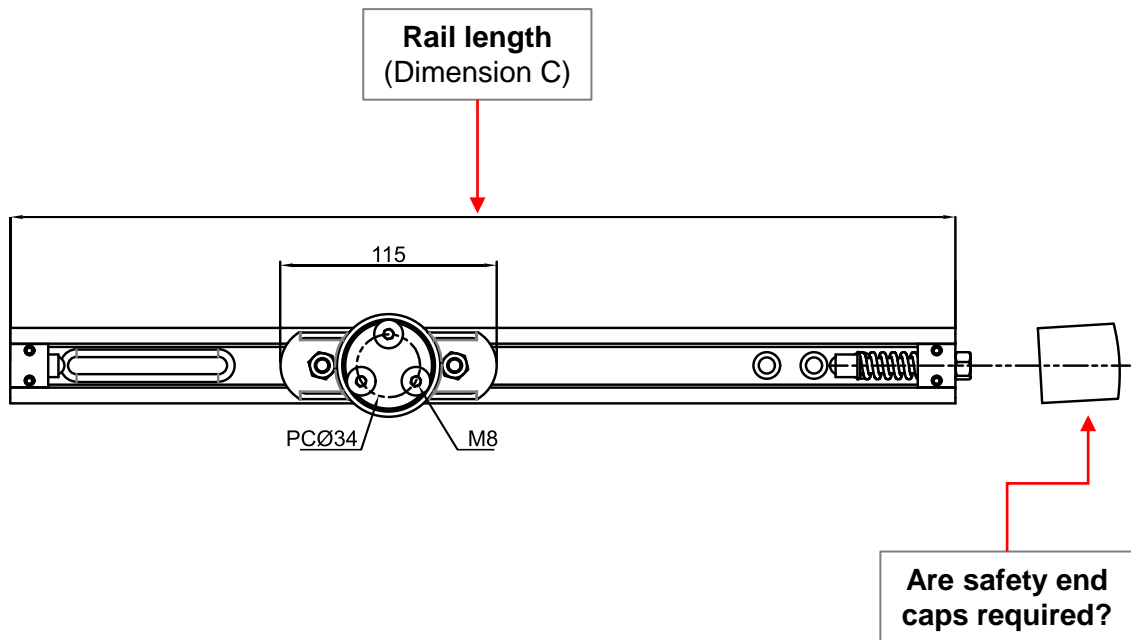
\*Subject to conditions of use. 20 years defined as 20,000 cycles carrying a 32kg load.

## Linear Rail Assembly

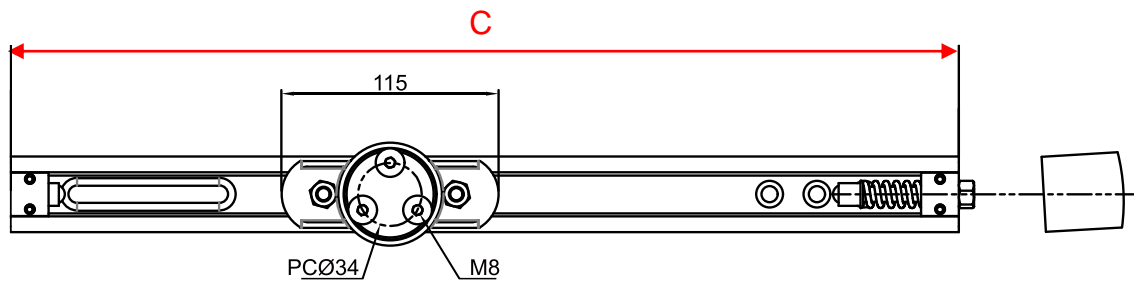
The rail is produced from a high-grade aluminum extrusion, supplied with an anodized finish.

An injection molded composite carrier that includes two fully shielded ball bearing action rollers and a machined aluminum pivot.

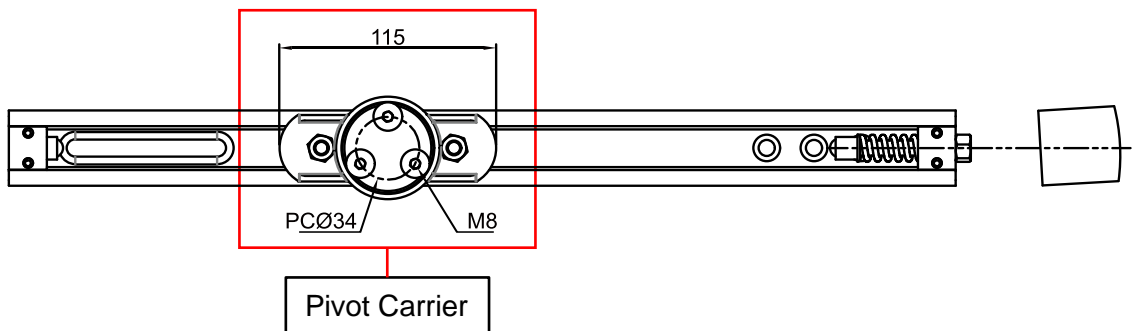
High impact spring stops are equipped within the rail.



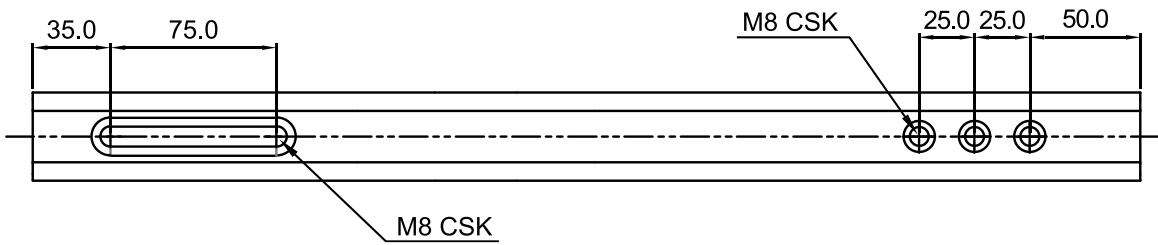
Standard fixing pattern



Dimension “C” is the minimum dimension for setting the front spring stops. These stops can be moved along rails to alter the amount of drawer movement.

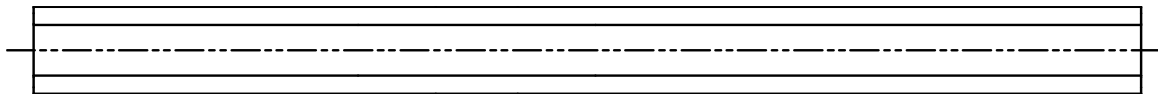


The mounted position of the pivot is to be approximately 150mm from the rear of the drawer. This position can be set to suit individual requirements.



The fixing hole pattern on the rail shown is the standard format. Special patterns can be supplied on request. If you require a special hole pattern, please use the drawing below to mark your specific needs and email (or fax) this page back to Sliding Systems.

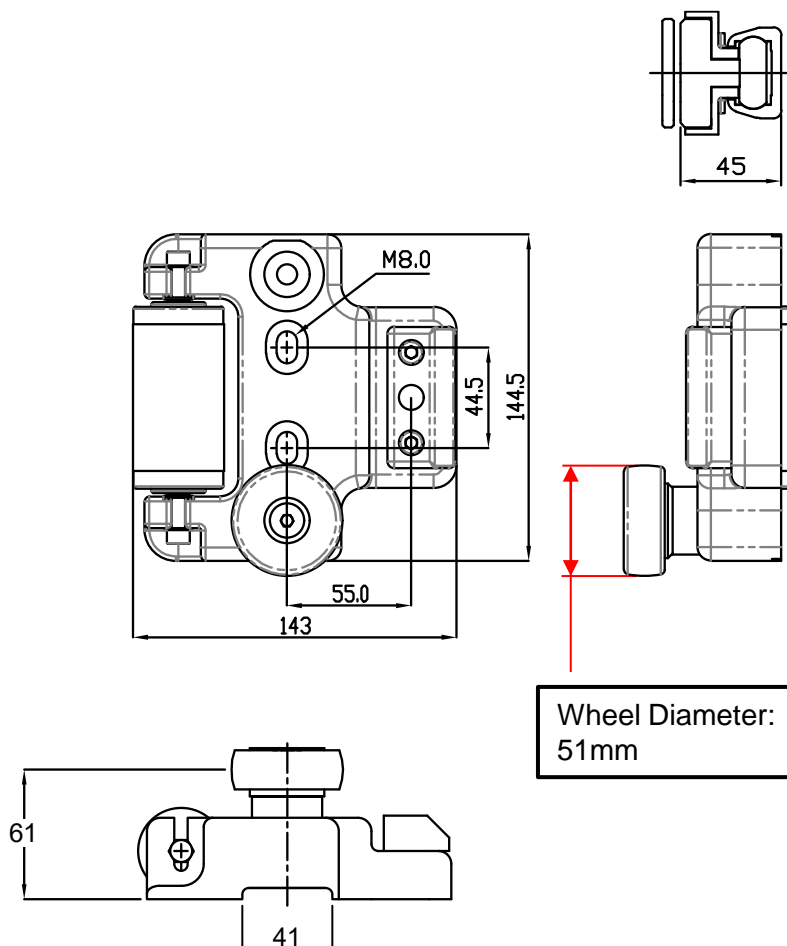
Fixings for the rails are not supplied.

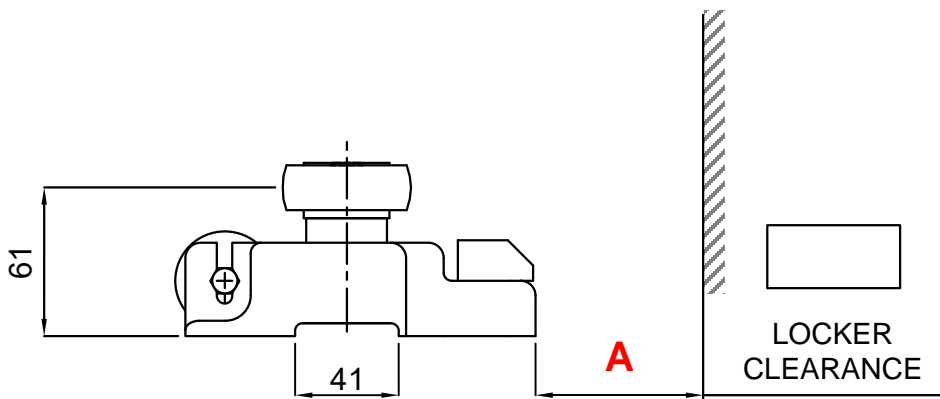


## Bracket Assembly

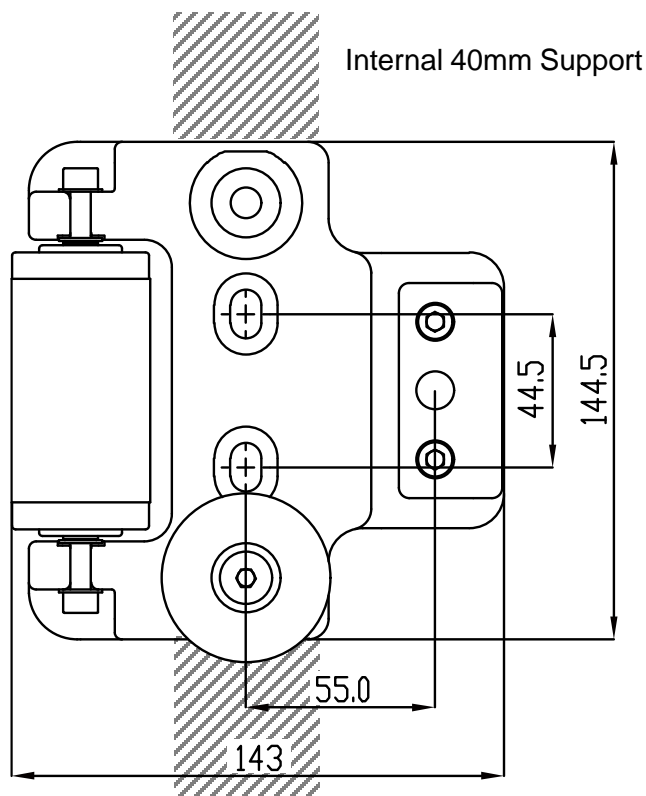


The tray support bracket assembly is produced from an injection molded glad fiber filled plastic and is supplied fitted with an adjustable side support roller and drawer lock block.



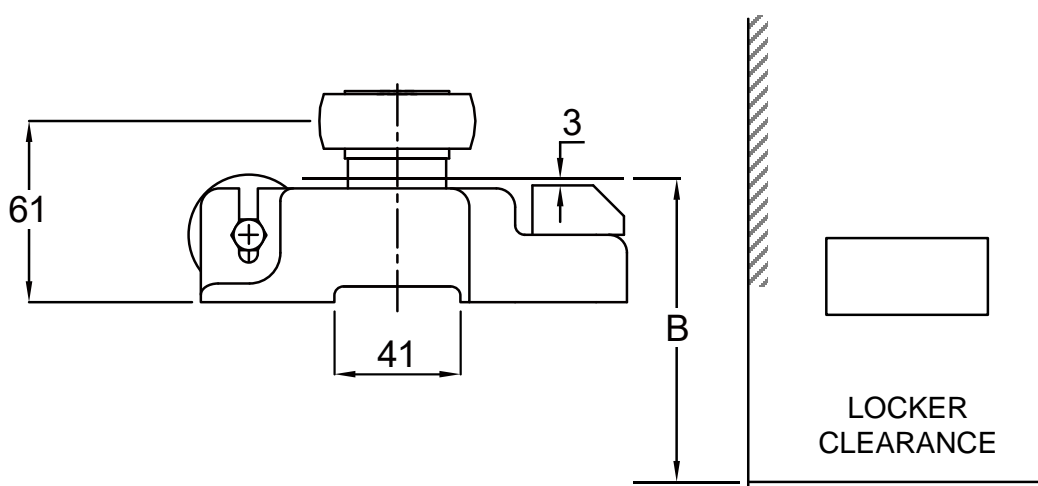
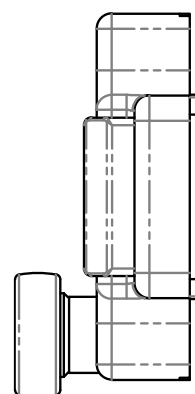
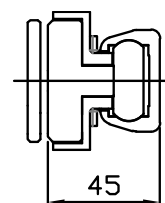


Locker assembly for drawer and drawer front. Dimension “A” is the distance between the front of the bracket and the inside of the vehicle shutter. This space has to be sufficient to accommodate a front handle for the drawer.



The front bracket assembly can be fixed to the flat face of a locker wall or mounted onto an internal upright support beam within the locker. The mounting screws should be torqued to a recommended 20Nm (Maximum torque 25Nm).

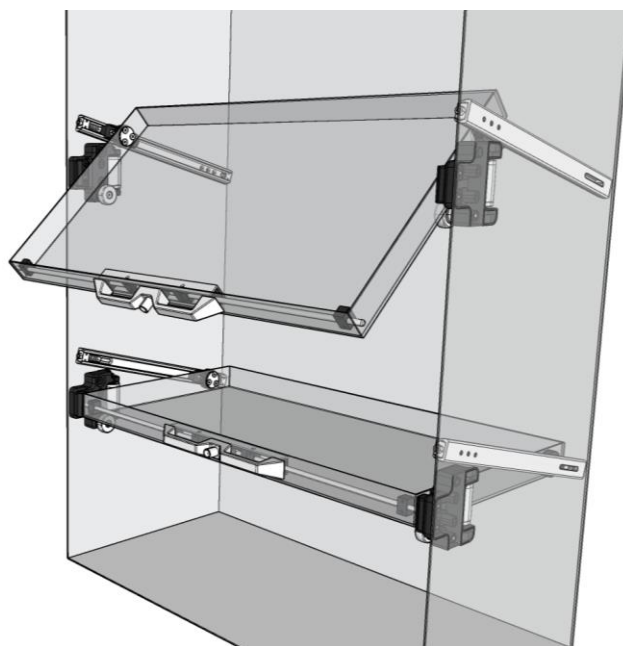
The sliding rail must be mounted on the same face / locker wall or internal upright support as the front bracket assembly.



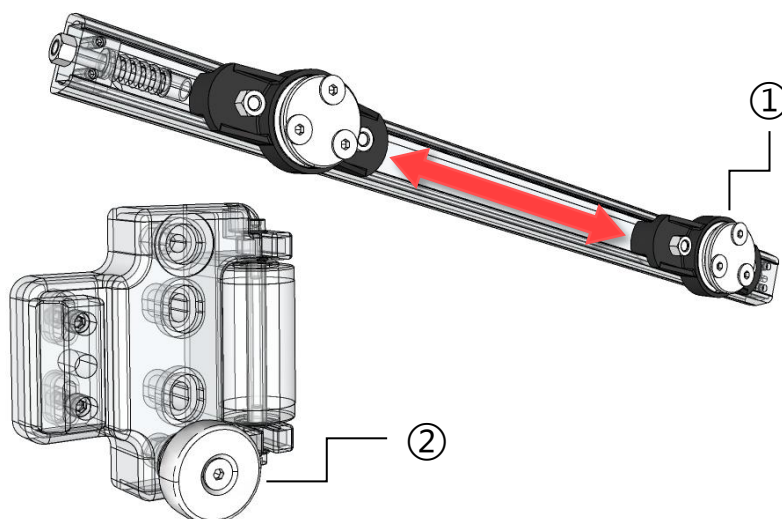
Dimension "B" is the distance from the edge of the drawer to the outside edge of the shutter channels. Both left- and right-hand edges.



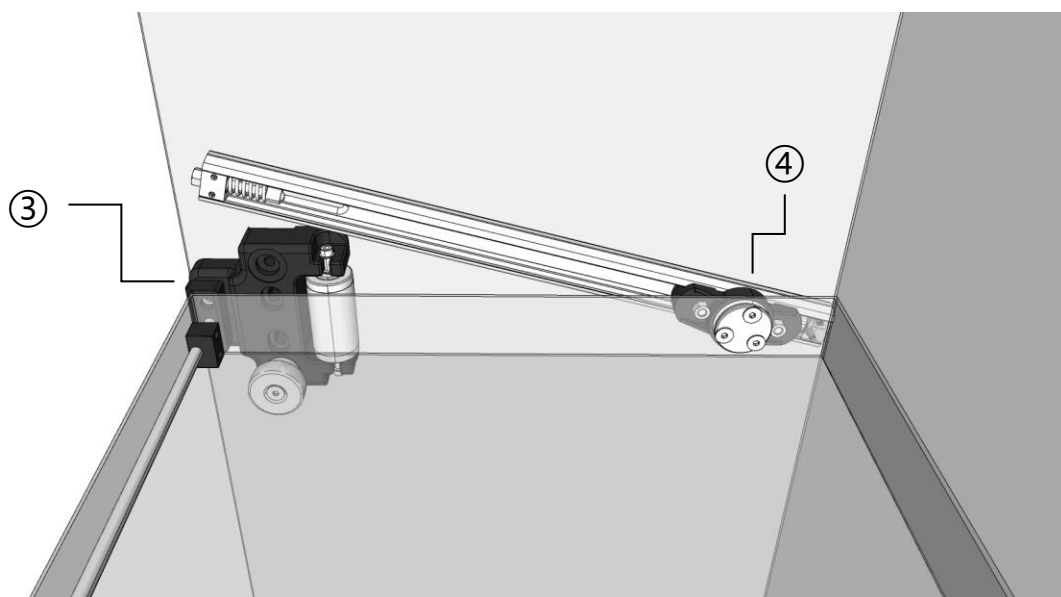
## Demonstration



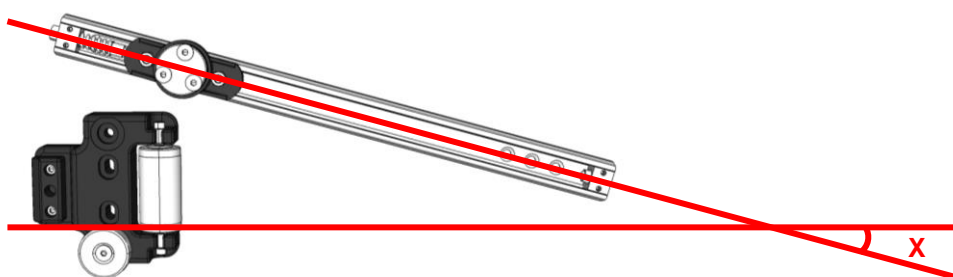
Demonstration of closed and opened drawers equipped with slide and tilt system.



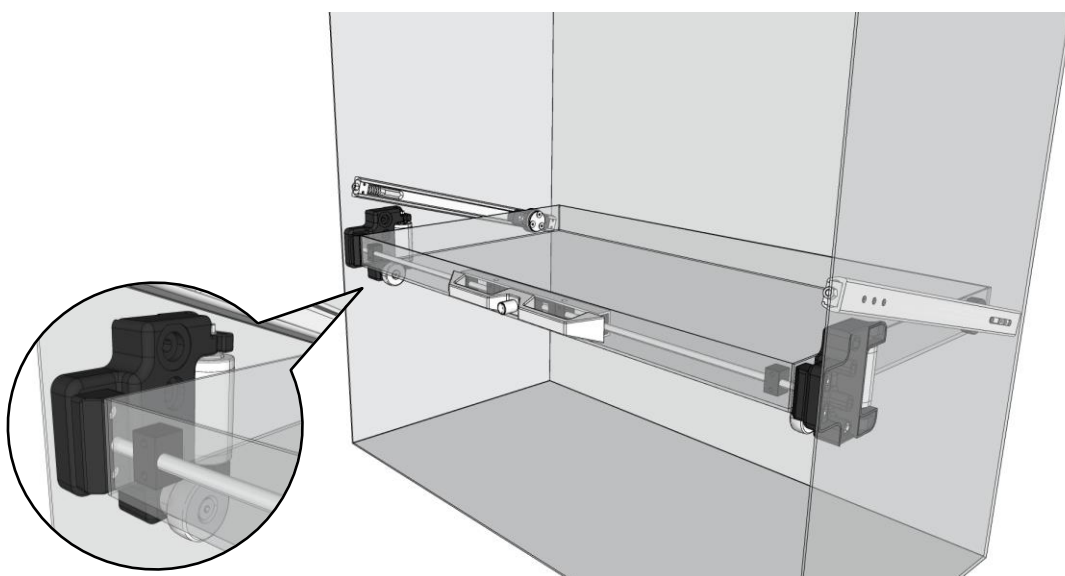
- ① One movable **slider** is installed within an angled aluminum channel, which is to be mounted to rear part of drawer.
- ② **Roller** is to support the drawer bottom, and as the crucial mechanism to make drawer tilt outward.



- ③ During installation, firstly installed the **bracket** to ideal **drawer height**.
- ④ Then, adjust the aluminum channel to ideal angle, and fix the **slider** with **rear part of drawer**.

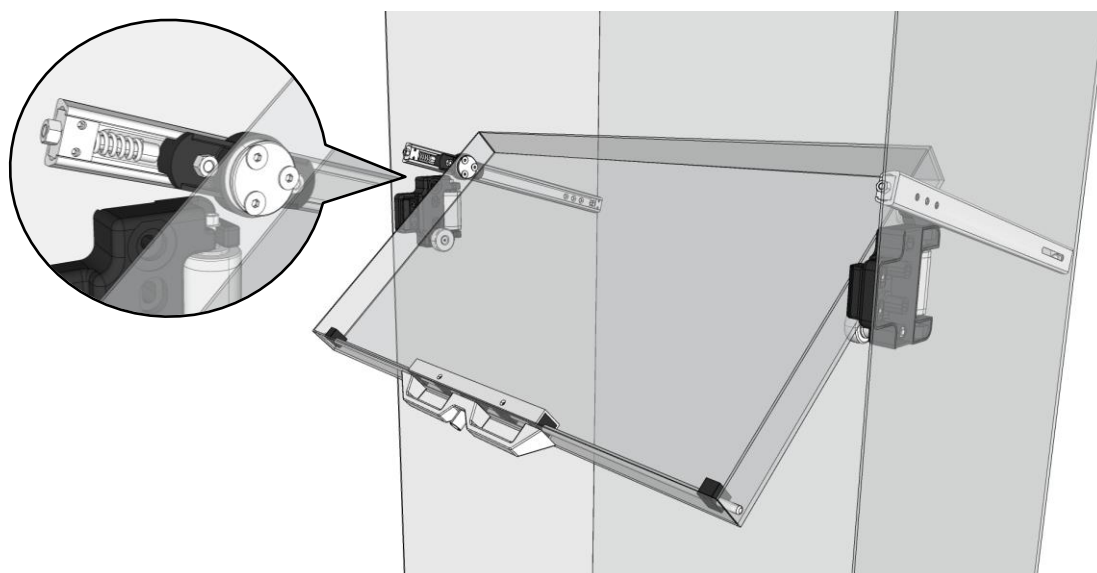


「X」 represent the angle between aluminum channel and horizontal drawer. The angle can be adjusted based on individual preference. Generally, **15° ~ 20°** would be the ideal value.



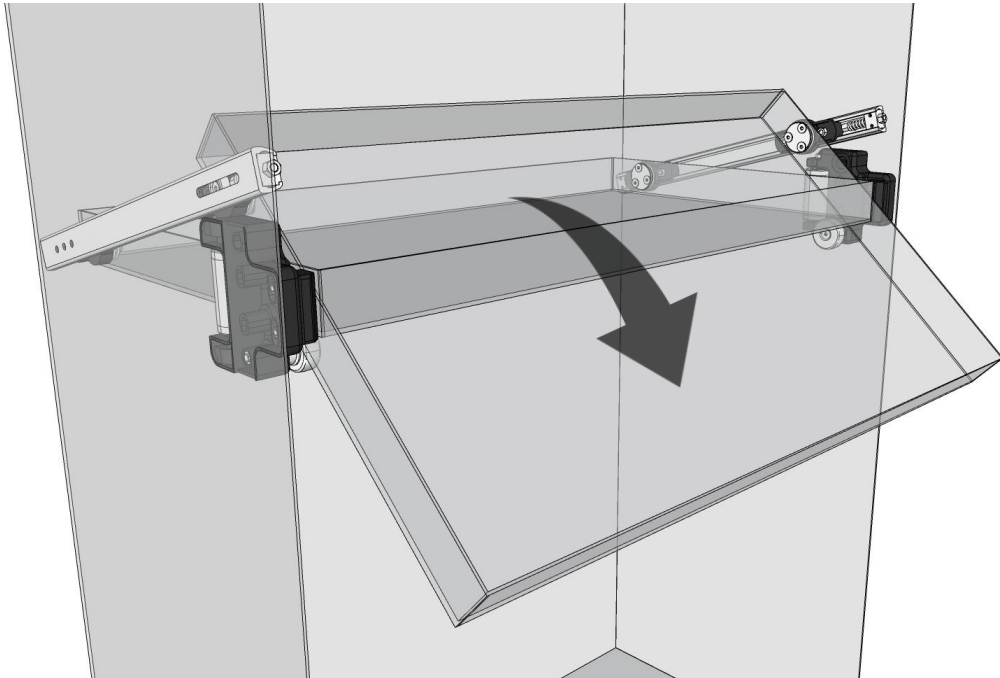
**Closed position**

Stainless rods are fix with bracket's slots, which locks the drawer firmly.



**Opened position**

The shock absorption mechanism stops the drawer, which makes the drawer remain tilting position.



Sliding System's award-winning slide and tilt system sets the standard for flexible and modular slide out and tip down drawers used in fire and rescue vehicles and other similar applications. Where a high reach drawer is difficult to access, this system can tip down towards the user. The Slide & Tilt is sold as a complete LH & RH system with all components fitted drilled ready for use.