

HIGH PERFORMANCE MULTI-LOCK SLIDING DOOR SYSTEM

Riley is proud to bring to market a sliding-door system that eliminates all of the traditional shortcomings of previous door designs.

The Riley Lift+Glide door represents significant improvements in design, structure, air and water performance, and paramount thermal performance. The improvements are not achieved part and parcel, but part of a harmonious design that considers all of the improvements simultaneously. Never before has a sliding door demonstrated this type of thermal performance at the weak-spot: the interlock of the two panels.



THE SOLUTION

Riley has developed a system that will raise sliding doors up to a product capable of meeting even the most demanding standards for quality of life, style, and comfort. Riley has developed a system of accessories and mechanisms that is both air, water and wind resistant, has low heat conductivity, is sound insulated, and is secure against breaking and entry attempts.

The unique ability of this frame to achieve high air and water performance is also achieved in a frame height much lower than previous door designs, allowing a sill height of only 1 3/4" (45mm)

LIFT+GLIDE

The unique hardware design allows the door to be opened using a European style handle, available in a wide variety of styles. The handle is turned 180 degrees to achieve two results:

1. The multi-point lock is disengaged from locking points all along the frame.
2. The door panel is lifted 1/4" (6mm) up from a position where the gaskets are fully engaged overlapping the frame to a position where the panel is free to glide on two sets of double-wheels.

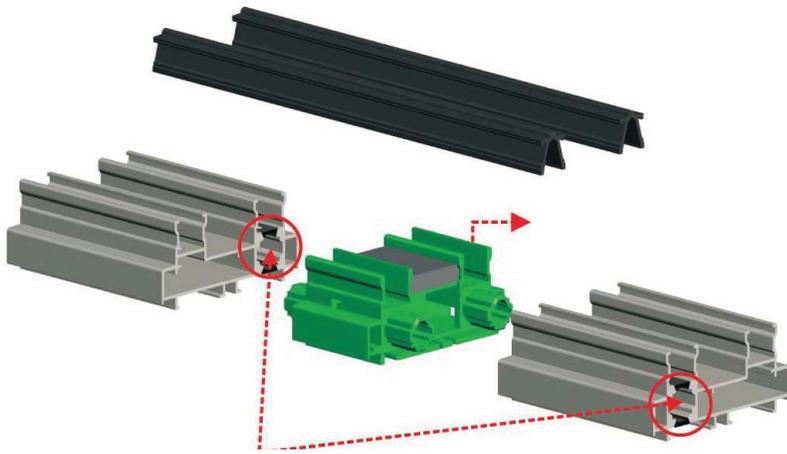
PERFORMANCE

Class R-PG50
Design Pressure 50psf
Water Resistance 15psf
Forced Entry Resistance Grade 10



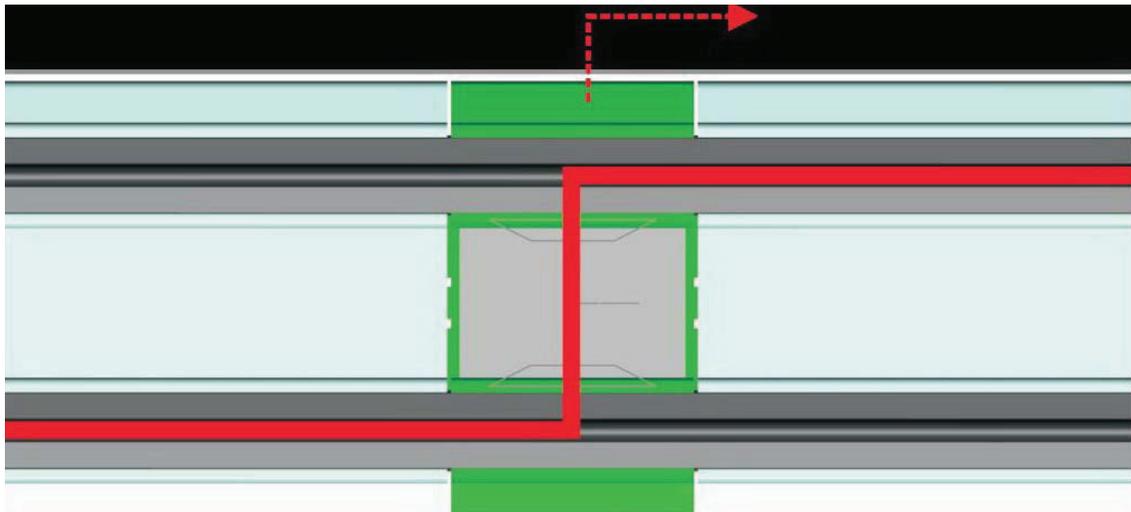
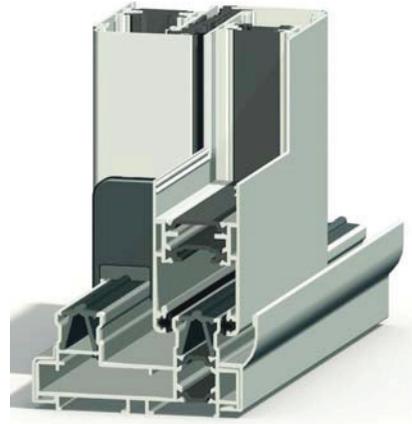
VISION

The frame's face is smaller afforded by a superior weeping system, and thickened aluminum wall thicknesses. The sash face is smaller due to increase wall thicknesses and a tight geometry that accommodates the polyamide struts as well as the multipoint locks and wheel assemblies. The result is MORE GLASS surface area, and a slimmer profile when viewed from inside or out.



UNIQUE THERMAL-JOG

The thermal separation created in the sash panels is mimicked using an asymmetrical sash where the thermal break is aligned to each panel, and switches location at the head and sill.



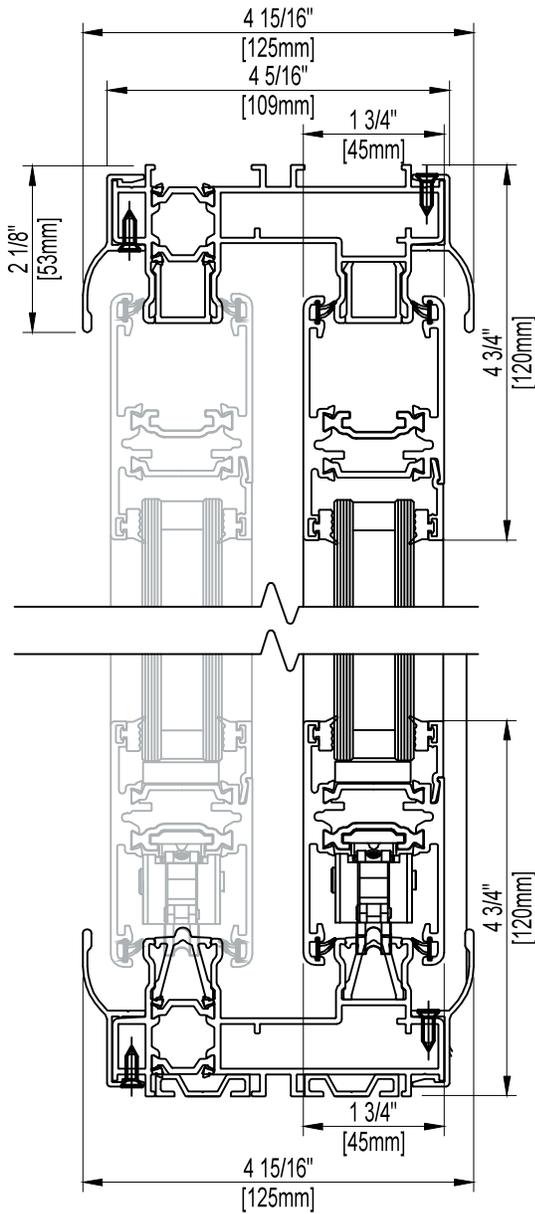
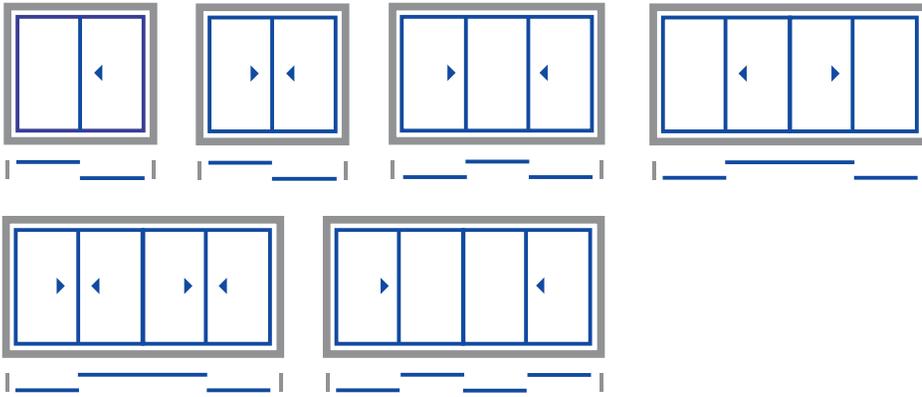
POLYAMIDE STRUTS

The frame and sash utilize polyamide 6-6 glass reinforced nylon (GRP) struts to create a superior thermal barrier. The assembly process is tested to shear value of over 200 lbs force per linear inch. In addition, all of the accessory components: the track, multipoint locking rod, interlock, and moulded parts originate from the same material.

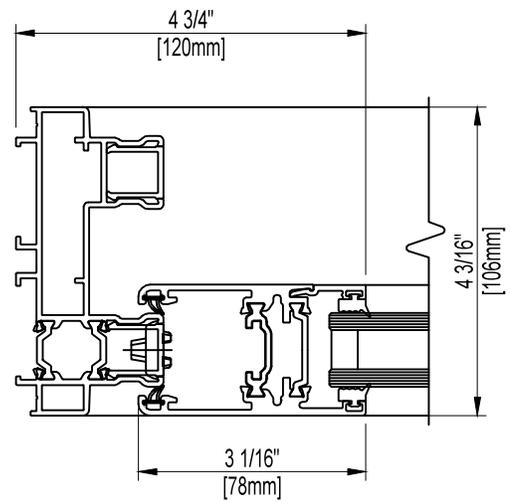
T-REX CORE

The thermal jog and asymmetrical frame are made possible by two different moulded polyamide T-REX pieces. The sill T-REX is responsible not only for helping to achieve the thermal-jog but is a complex system of weeping from the inner track designed to help water out, but at the same time minimize air leakage.

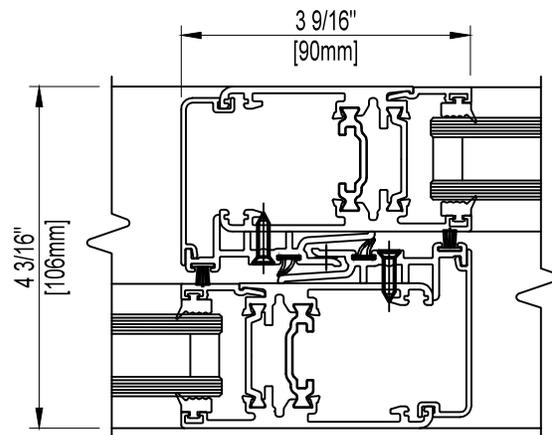
AVAILABLE CONFIGURATIONS



VERTICAL SECTION
HEAD + SILL DETAILS



HORIZONTAL PLAN
JAMB DETAIL



HORIZONTAL PLAN
INTERLOCK DETAIL