

**Fræm**

Fraser

Passive House Standard Tripple Glazed Wood Windows & Operable Glazed Wall Systems






# Embrace the View

Open up your space to Embrace the View  
with Fraem Sliders and Windows.

Fraem systems integrate seamless minimal  
design to ensure high performance is  
matched with elegance.







All Fraem systems feature sustainably sourced Wood along with German Glass and Hardware. All components and systems are designed and fabricated in the EU under strict adherence to regulatory guidelines and are Passivehaus Certified.

Unobstructed openings with the Fraem Sliders integrate glazing and sizes not readily available in North America. As a result, large oversized unincumbered openings can be achieved up to 6 m in width or up to 5 m in height.



Fraem Sliders feature patented Lift & Slide technology which ensures effortless access to the outdoors to create open air connections. Take a deep breath and open your space up to the natural environment.









Fraem Sliders are the clear alternative to bi-folding glass doors. They create spectacular massive openings up to 4.7 m tall or up to 6 m wide and come in a wide range of standard sizes with the ability to order custom sizes to accommodate a variety of configurations and sizes which allow users to truly “embrace the view”

Fraem Sliders are manufactured in the EU and incorporate a proprietary system of high strength laminated wood profiles which have been engineered to allow for the ability to create an expansive glass wall opening with massive panels up to 4.7 metres in height.

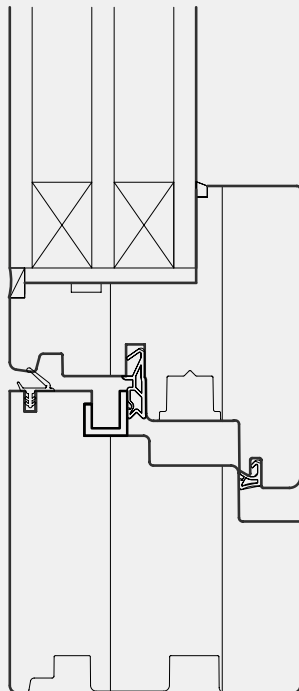
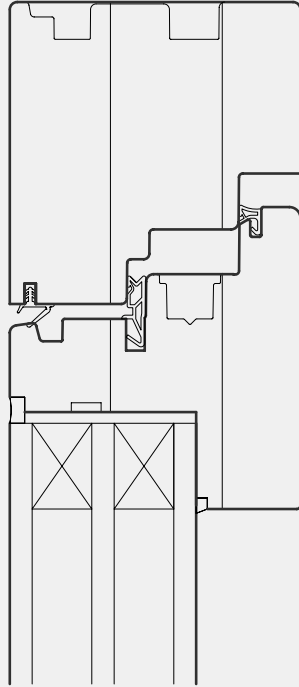
Fraem Sliders maximum area is 8.4 m<sup>2</sup> due to weight requirements. These high-performance systems meet European Passivehouse (Passivhaus) standards.





# The Black Line

Fraem Black Line Windows are characterized by a modern design, which is seamlessly incorporated into modern architecture. Windows can be completely aligned from the inside and outside, which allows the installation to be flush with the facade.



### Wood

Three-layer laminated wood of the highest quality is used in all Fraem products. Siberian Larch and Oak are available with other species available upon special request. All wood consists of 78mm laminations with seamless joints and premium surfacing. Fraem wood comes standard with a water-based varnish, and can also be delivered with opaque lacquer or a hand-oiled surface if desired.

The surface treatment is using the Remmers system, which, due to the four times application, provides the greatest protection against external factors.

### Glass & Seals

Three-layer insulated German glass with thermal spacers are fabricated in EU.

High quality plastic seals are installed in between the Glass & Frames. The integration of plastic seals is superior to conventional rubber seals as they allow long-term flexibility between internal materials.

<b>U<sub>g</sub></b>	0,6 W/m <sup>2</sup> K
<b>U<sub>f</sub></b>	1,3 W/m <sup>2</sup> K
<b>U<sub>w</sub></b>	0,9 W/m <sup>2</sup> K
<b>Thickness</b>	78 mm



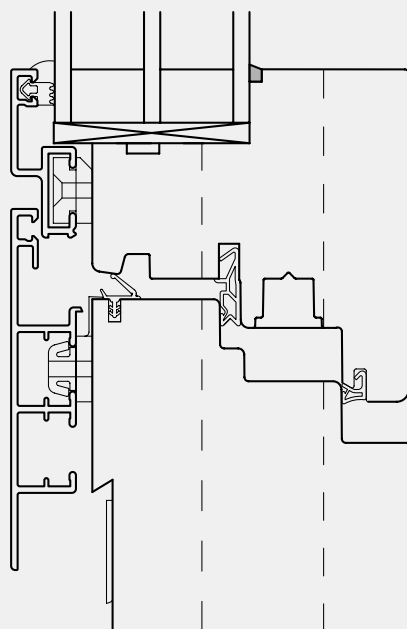
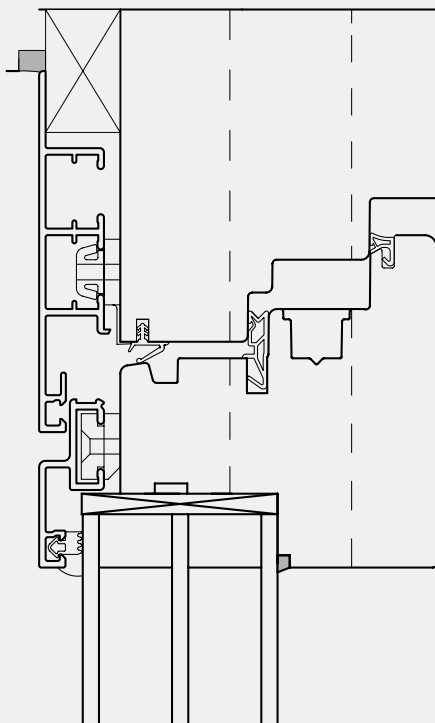




# The Alu Line

Alu Line stays true to Fraem's modern design and wood frame base with the addition of external aluminum cladding for durability & protection against severe weather conditions and external impacts.





### Wood

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The surface treatment is using the Remmers system, which, due to the four times application, provides the greatest protection against external factors.

### Alu Coating Add-on

The purpose of the aluminium coating is to protect the window from decaying. The choice of alu coatings is varied, since each has its own design. Thus, windows can be adapted to the building's guidelines.

Color samples across the entire RAL colour scale are available.

### Glass & Seals

Three-layer insulated German glass with thermal spacers are fabricated in EU.

High quality plastic seals are installed in between the Glass & Frames. The integration of plastic seals is superior to conventional rubber seals as they allow long-term flexibility between internal materials.

<b>U<sub>g</sub></b>	0,5 W/m <sup>2</sup> K
<b>U<sub>f</sub></b>	1,3 W/m <sup>2</sup> K
<b>U<sub>w</sub></b>	0,82 W/m <sup>2</sup> K
<b>Thickness</b>	78 mm







# Frameless Glazing

Frameless glazings provide the same performance and appearance in a fixed window profile. Given Frameless Glazings do not need hardware; they can be constructed to our maximum glass dimensions and also contain triple glazed sizes not available to the North American Market.







## **Lift&Slide Technology**

Fraem Sliders feature integrated patented European Lift & Slide system which has been designed and engineered to accommodate very large openings which open quietly and effortlessly.

The hardware lifts the door panel by engaging the wheels which allow the door to slide smoothly along the track. This eliminates friction associated with conventional sliding systems.

The Fraem Lift & Slide System allows the panels to rest solely on the wheels which ensure the longevity and overall integrity of the entire system. This technology eliminates long term wear on the system and most importantly maintains the integrity of the wear on the weather-stripping seals.

Fraem Sliders rest on tracks made of hardened, anodized aluminum which are proven and tested in harsh weather environments. These self draining flush track systems are tested to be reliable and secure in severe weather conditions year-round.

# Fraem

## **European Quality**

Fraem Sliders and Windows components are designed and Fabricated in the EU under the strictest guidelines and to Passivhaus EU standards. All products are fabricated, assembled in the EU to ensure the highest quality and Energy Benchmark for your next project. Precision and Craftsmanship are the basis of design for all Fraem components.

Our systems are a result of iterative engineering and ongoing refinement which is focused on ingenuity, accuracy and overall quality. All Fraem components are manufactured under certified quality management system.

## **Hardware**

European hardware allows panels weighing up to 480 kg to be opened easily and effortlessly. Fraem Sliders have an integrated multi-point locking system which is engineered to secure the door panel in a locked position.

Multiple locking points results in an increased security compared to standard door locks with only one point of contact.









### **Fixed Glazing**

Fraem Fixed Glazings provide the same performance and appearance in a fixed window profile. Given Fraem Fixed Glazings do not need hardware; they can be constructed to our maximum glass dimensions and also contain triple glazed sizes not available to the North American Market.



### **Entry Doors**

Your Front Door defines your home. Fraem Entry Doors are fully customizable and can be created to match the Windows and Sliders in your home. Standard Doors and Profiles are available as well as the option to create your own unique identity.



## **Commercial Facades & Retail**

Fraem Sliders and Windows are the perfect fit for Retail and commercial applications where large clear spans are desired.



## **Residential**

Fraem Sliders are ideal for single family homes where unobstructed views and connections are desired. Unlike bulky folding glass wall systems; Fraem Sliders provide unparalleled clear span capabilities with minimal visual interruption from unwanted mullions and

styles. Fraem systems are ideal for those who are in search of a contemporary high performance European built system. Fraem Systems are also ideal for multi-family developments.





## **Public & Civic Buildings**

Public facilities often require flexible spaces which can respond to a variety of programming needs. Fraem systems are ideal for public and civic buildings that want to connect spaces visually and still allow for direct connections when they are open.

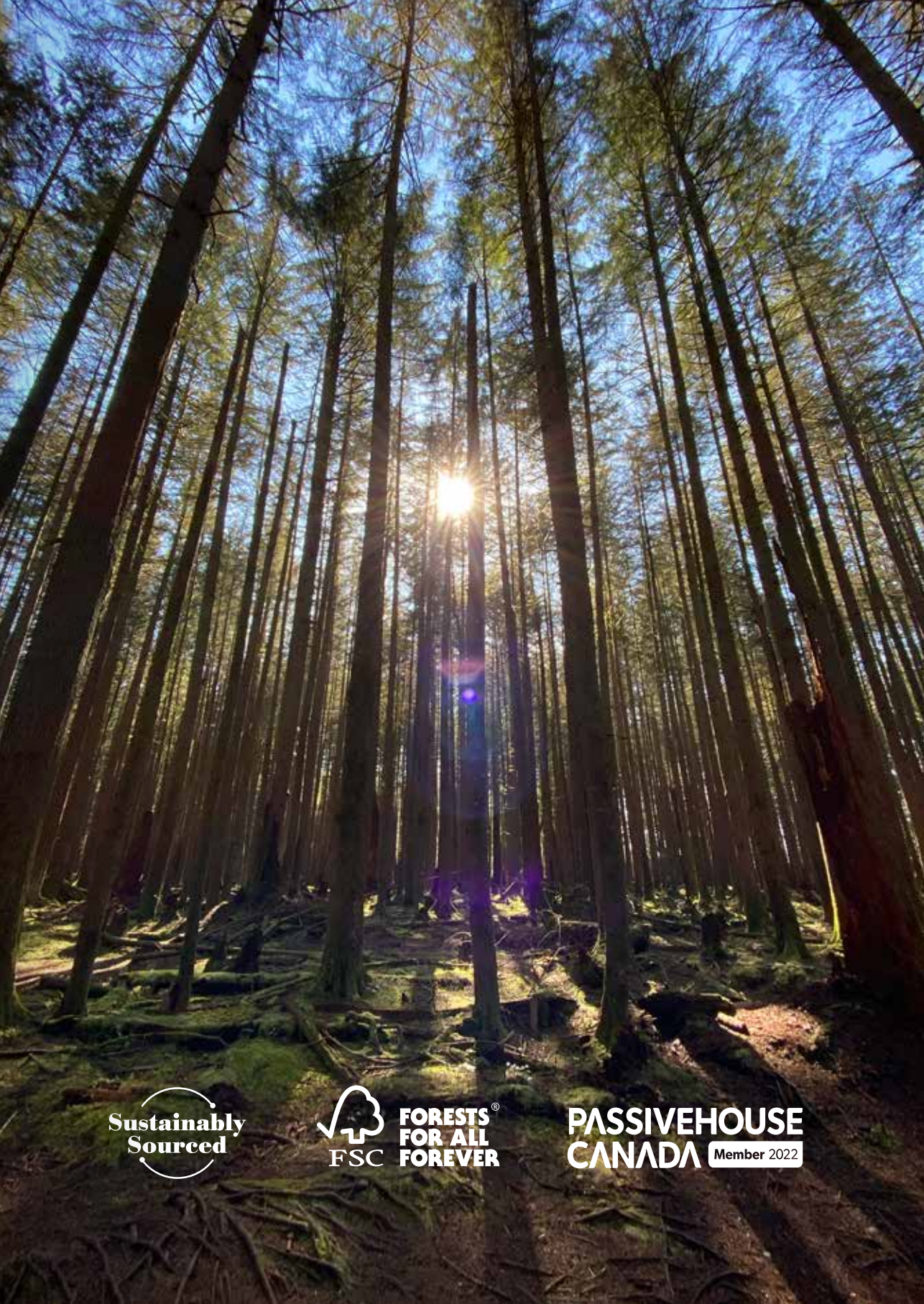


## **Schools & Institutional**

Classroom design has evolved with the development of 21st Century Learning initiatives and open concept plans. The modern school or post secondary institution typically requires multi-

functioning spaces which allow rooms to be closed off and acoustically separated while still maintaining visual connection. Fraem Sliders are the ideal option for these applications.





### **Sustainably Sourced Wood**

The wood used by Fraem are sourced from FSC certified sustainable forests. Our manufacturing processes achieve the highest EU standards with respect to environmental stewardship as it relates

to forest harvesting, management and cultivation of our raw materials; as we work directly with the regional forestry industry.





































**Fræm**

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