

FS System

- Conforms to UL SUB 2703¹
- Certified to ULC/ORD STD C1703
- High level of pre-assembled components
- Industry leading installation time
- Made of high quality sustainable aluminum
- Highly adjustable



The Schletter **FS System** has a proven product performance and installation history, with over 8 GW installed worldwide. When purchasing an FS System, be confident in knowing product performance and safety are designed into every Schletter system.

Project specific engineering is available while optimized material usage addresses the ever-increasing need to reduce costs. When ordering a Schletter system, complete structural calculations are provided for the design, assuring compliance with current building codes and regulations.

The FS System is the result of experience gained through years of project planning and implementation. The system is enhanced with new support designs that includes the highest level of pre-fabrication and can accommodate nearly any type of PV module currently on the market. **The result is a durable attractive system installed quickly and efficiently.**

The FS System purlins feature a profile geometry that is designed for optimal distribution of forces. Purlins are attached to the girder by means of special mounting claws that are pre-assembled in the exact position required for the chosen module. Bolt channels are integrated in all profiles for more efficient field installation.

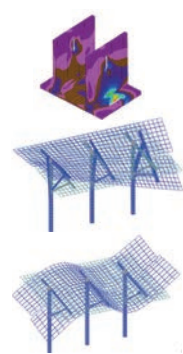
Design Process

Thorough soil investigation and pull out test of post at the project site.

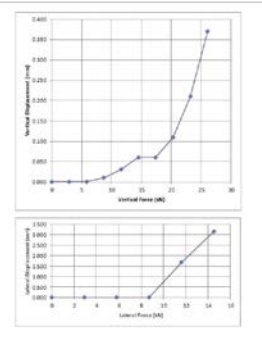
Layout planning using **Helios 3D™** layout software.

What to Expect from Schletter

- When other mounting providers say it can't be done, with Schletter, it can
- 100% NBC code compliant systems, with PE wet stamps available in most provinces
- Exceeding the competition in providing quality steel and aluminum products
- Team of engineers offering full in-house services
- In-house geotechnical services
- Highly automated production for the fastest turnaround time in the industry
- Over 20-years solar mounting engineering and manufacturing experience



Project Name:			
Project Location:			
Project Number:			
Post No.	1		
Test Post Location:	Latitude (N)	Longitude (W)	
	39°21'45.50"	98°12'29.80"	
Test Post Size:	Maximum Pull Out Pressure (kN)	Maximum Lateral Pressure (kN)	
	180	100	
FGI ²	180	100	
Vertical Loading Test Data			
Vertical Pressure (kPa)	Vertical Force (kN)	Vertical Displacement (mm)	
0	0	0.000	
20	2.0	0.000	
40	4.0	0.000	
60	6.0	0.010	
80	8.0	0.030	
100	10.0	0.060	
120	12.0	0.100	
140	14.0	0.150	
160	16.0	0.210	
180	18.0	0.290	
Lateral Resistance Test Data			
Lateral Pressure (kPa)	Lateral Force (kN)	Lateral Displacement (mm)	
0	0	0.000	
20	2.0	0.000	
40	4.0	0.000	
60	6.0	0.000	
80	8.0	0.000	
100	10.0	0.000	
120	12.0	0.000	
Surface Conditions			
Height of Capable (mm)	Height of Soil (mm)	Embedment Length (mm)	
90	400	1000	






Kinny Construction

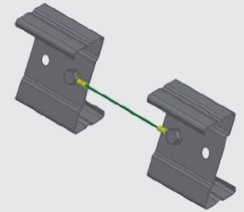
Quick, On-Site System Installation

- Foundation posts are quickly installed using GAYK hydraulic ram
- Place the support on post attachment head and bolt lower strut
- Insert locking wedge into attachment head
- Install purlins
- Install module using adapted versions of Schletter’s grounding Rapid2+™ clamps

Connect Multiple Racks

For PV installations with more than one mounting system, electrically bonding individual racks is easy and affordable with Schletter’s **Bonding Jumper**.

- Connects directly to purlin
- Available in 6-inch to 48-inch lengths
- Electrically bonds adjacent systems forming a continuous ground path



Technical Data

Material	<ul style="list-style-type: none"> • Fastening elements, bolts: Stainless steel 304 and 316 • Profiles (rails): Aluminum alloy 6105 T5 • High life-expectancy, high residual value, no disposable cost • Pile-driven support posts: Steel, galvanized, ASTM A123 Grade 75
Structural Analysis	<ul style="list-style-type: none"> • Structural analysis based on a geotechnical investigation for local terrain condition • P.E. stamped drawings and calculations • Individual systems analysis based on local load values • Design loads according to current NBC and provincial codes • Highly efficient, material-saving profile geometries • Verification of all construction components based on FEM-calculation
Warranty and Certifications	<ul style="list-style-type: none"> • 20-year limited warranty • Conforms to UL SUB 2703 • Certified to UL/ORD STD C1703

For more information or a quote, please contact technical sales at 519-946-3800 or at sales@schletter.ca. More information on all Schletter products can be found online at www.schletter.ca.

¹The FS System is evaluated for electrical bonding only. The FS System meets all NBC and provincial requirements for structural loading; it has not been evaluated for loading under UL 2703.