

StoVentec® Fiber Cement

Pre-Engineered Fiber Cement System Quick Start Guide

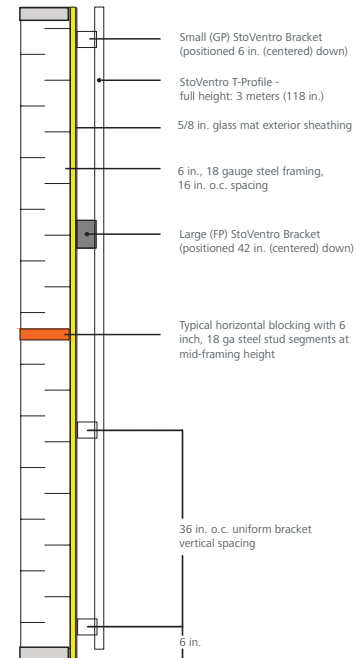
Our pre-engineered StoVentec® Fiber Cement (SVFC) system makes it easy to install a durable, high performance, ventilated Rainscreen based on your design pressure requirements. This guide is a concise summary of some of the prescriptive options for visibly-fixed SVFC. Please also refer to the Fiber Cement Design Guide, Installation Guide, and Fabrication and Maintenance Guide for complete information.



Prescriptive StoVentec™ Sub-construction

Wall Framing	Steel Studs: min. 18 gauge, 6 in., 1-5/8 in. flange, min 33 ksi yield	16 or 24 in. o.c. spacing	5/8 in. exterior glass mat sheathing	Typical lateral blocking/ bracing
StoVentec™ Brackets	Vertical spacing: 36 in. Horizontal spacing: 16 or 24 in.	One Large (FP) and Three Small (GP) brackets per 118" Profile, or One Large and Two Small per 96" Profile	Depth Choices: 40mm-160mm* (in 20mm increments) (1-1/2 to 6-1/4 in. in 3/4 in. increments)	Material Choices: Zn- Al-Mg coated steel or Aluminum
StoVentec Profiles	96 or 118 inch L and T-Profiles, oriented vertically	Horizontal Spacing: 16 or 24 in.	Min. one Large (FP) Bracket near center of rail	Fixed point and sliding point fastening required at connections to StoVentec Brackets.
Fastening	Bracket to Steel Studs: 1/4-14 x 2 in. Bi-Met self-drilling, hex-head screws w/ washers	Bracket to Concrete: Engineering required	T-Profiles to Brackets: StoVentec Screws (5.5x 22mm) - stainless	Two (min.) steel stud screws** and two StoVentec Screws per bracket

StoVentec System Build Up



*Note: Larger brackets up to 360mm available require project-specific engineering.

**Net allowable fastener withdrawal capacity per bracket must meet panel/system design pressure requirements.

System Components and Accessories

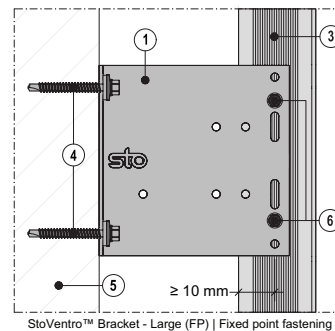
Components	Accessories
FP (large) bracket	SVFC Rivet - Fixed Point Sleeves
GP (small) bracket	Bracket extensions
Steel stud screws	Thermal blocking elements
StoVentec screws	Cut-edge sealer and touchup paint
T profile (120mm) - 8 or 10 ft	Ventilation Profile
L profile - 8 or 10 ft	EPDM Foam Tape
8 or 10mm Fiber Cement	StoSeal™ STPE
SVFC Rivets	Sto Lamella fire break and Intumescent Tape

These prescriptive assemblies apply only to flat, vertical walls.

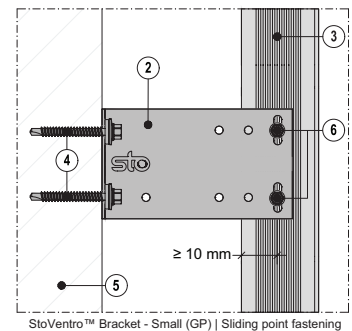
Soffits and radiused walls require project-specific engineering.

Deviations from the prescriptive Fiber Cement configurations will change the allowable wind design pressure and could result in product failure. Substantial changes to the prescriptions require project-specific engineering.

For any project, always comply with local building code and/or registered design professional for structural adequacy requirements of exterior walls.



StoVentec™ Bracket - Large (FP) | Fixed point fastening



StoVentec™ Bracket - Small (GP) | Sliding point fastening

StoVentec Fastener Connections

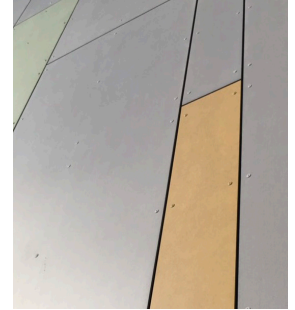
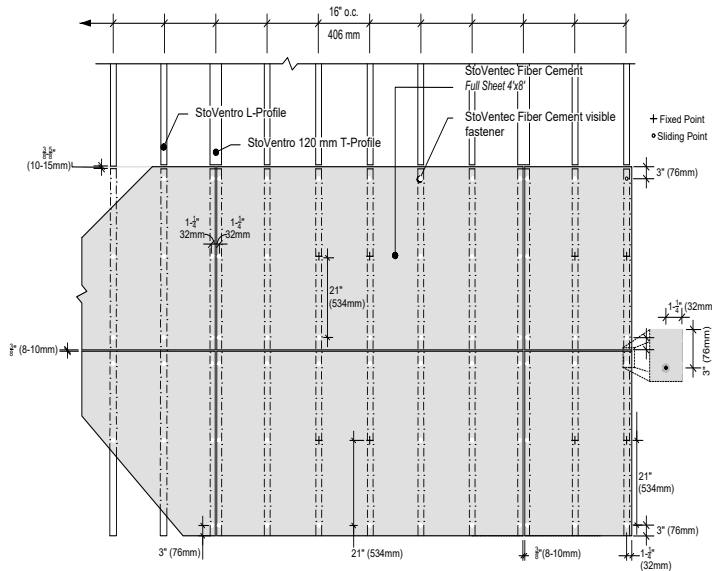
- 1 Large/Fixed Point (FP) Bracket
- 2 Small (GP) Sliding Bracket
- 3 L-Profile or 120mm T-Profile
- 4 Bracket-to-wall (steel stud or other) anchors
- 5 StoVentec Screw
- 6 Framing Member

Fiber Cement Panel Layout and Fastening

Refer to the elevation details [90.Fc.001-009](#) for the various prescriptive wind load fastening configurations. StoVentro L-Profiles are used in the field of each panel and at terminations, while 120mm T-Profiles are needed at vertical joints. The ratio of L's to T's varies depending on the panel layout (vertical or horizontal, stacked versus running/staggered). Maximum fastener spacing is the key to fiber cement wind load ratings. A wind load rating is achieved for panels of any size so long as the maximum fastener spacing for that rating is not exceeded.

66.5 psf Design Pressure Wall Layout

SVFC Panel Fastening - 21" max screw spacing for allowable 66.5 psf wind design pressure (ultimate load capacity: 133 psf) - Detail 90.Fc.003.



StoVentec Fiber Cement Panels Are Made to Last

SVFC panels are high density, complying with ASTM C1186 Type A, Grade IV and **non-combustible per ASTM E136**. Formulated to endure most climates, SVFC is vetted against harsher winters and severe weather. Paired with StoVentro sub-construction, SVFC is an open-joint back-ventilated rainscreen system. Tested to Florida's High Velocity Hurricane Zone standards, our panels own an industry-leading allowable design pressure of +/-115 psf. Further, SVFC panels are fully factory pre-finished with high-quality paints. After 4000 hours of QUV-B testing, which simulates 6-12 years of natural weathering (depending on climate and exposure), Primara Line colors have a delta E of less than one - change imperceptible to the human eye.

Estimated accessory quantities based on design pressure/application, stacked panel layout on a 1000 ft² clear wall area with 16 in. o.c. framing

Accessory	66.5 psf	80 psf	95 psf	Price ²	
Steel Stud Screws ¹	600	600	600	\$159.54 - \$216.00	Per bag of 250, priced by quantity*
FP Bracket	100	100	100	\$3.41 - \$8.00	Priced per piece and by quantity* (sold by box)
GP Bracket	200	200	200	\$2.66 - \$5.63	Priced per piece and by quantity* (sold by box)
L Profile (8ft)	87	87	87	\$9.66 - \$13.13	Priced per piece and by quantity*
T Profile 120mm (8ft)	13	13	13	\$21.83 - \$33.87	Priced per piece and by quantity*
StoVentro Screw (Bracket to Profile)	600	600	600	\$153.88 - \$209.27	Per box of 500, priced by quantity*
SVFC Panels (8mm x 4x8 feet)	32	32	32	\$94.13 - \$388.50	Priced per panel and by quantity* (sold by pallet)
SVFC Rivet (Panel to Profile)	672	896	1120	\$300.56 - \$466.38	Per box of 250, priced by quantity*
Aluminum Fixed Point Sleeves for Rivets	70	70	70	\$214.02 - \$332.09	Per bag of 200, priced by quantity*
EPDM Foam Tape Rolls	19	19	19	\$12.56 - \$19.49	Per roll of 50 feet, priced by quantity*

1. Net allowable fastener withdrawal capacity per bracket must meet panel/system design pressure requirements. Additional fasteners may be necessary.

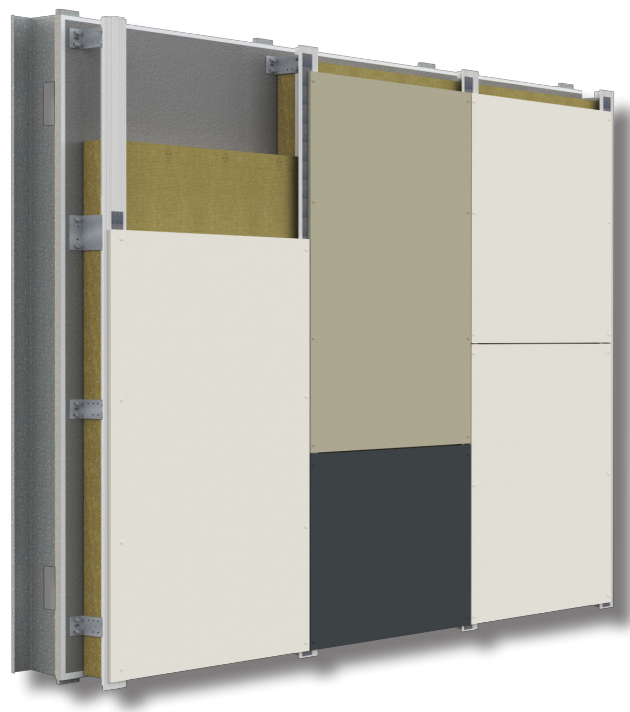
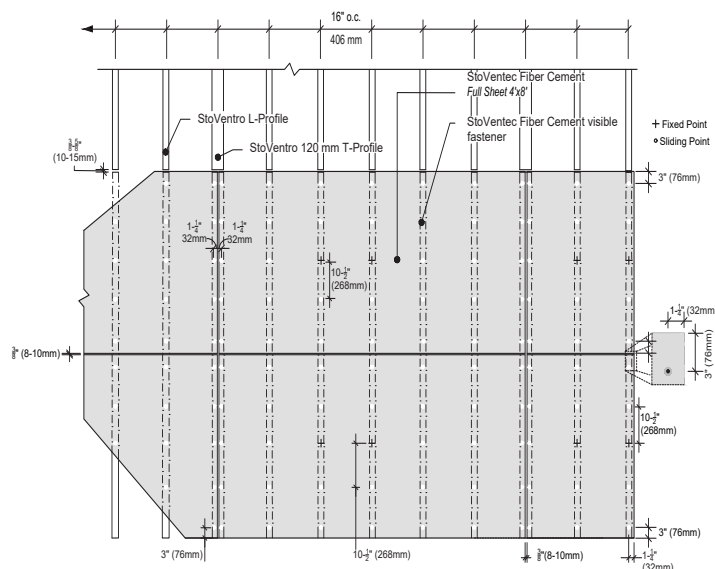
2. Prices for Spring 2025.

*Talk to your Rainscreen Specialist for detailed pricing. Volume pricing available and subject to change, depends on panel line and dimensions, bracket size and metal type.

Note: These are gross approximations that do not take into account windows, openings, transitions, corners, etc. It's for rough order of magnitude estimates only. Please conduct a full take-off for accurate material count.

95 psf Design Pressure Wall Layout

SVFC Panel Fastening - 10-1/2" max screw spacing for allowable 95 psf wind design pressure (ultimate load capacity: 190 psf) - Detail 90.Fc.001.



Estimated accessory quantities based on design pressure/application, 1/2 stagger panel layout on a 1000 ft² clear wall area with 16 in. o.c. framing

Accessory	66.5 psf	80 psf	95 psf	Price ²	
Steel Stud Screws ¹	600	600	600	\$159.54 - \$216.00	Per bag of 250, priced by quantity*
FP Bracket	100	100	100	\$3.41 - \$8.00	Priced per piece and by quantity* (sold by box)
GP Bracket	200	200	200	\$2.66 - \$5.63	Priced per piece and by quantity* (sold by box)
L Profile (8ft)	69	69	69	\$9.66 - \$13.13	Priced per piece and by quantity*
T Profile 120mm (8ft)	28	28	28	\$21.83 - \$33.87	Priced per piece and by quantity*
StoVentec Screw (Bracket to Profile)	600	600	600	\$153.88 - \$209.27	Per box of 500, priced by quantity*
SVFC Panels (8mm x 4x8 feet)	32	32	32	\$94.13 - \$388.50	Priced per panel and by quantity* (sold by pallet)
SVFC Rivet (Panel to Profile)	672	896	1120	\$300.56 - \$466.38	Per box of 250, priced by quantity*
Aluminum Fixed Point Sleeves for Rivets	76	76	76	\$214.02 - \$332.09	Per bag of 200, priced by quantity*
EPDM Foam Tape Rolls	20	20	20	\$12.56 - \$19.49	Per roll of 50ft, priced by quantity*

1. Net allowable fastener withdrawal capacity per bracket must meet panel/system design pressure requirements. Additional fasteners may be necessary.

2. Prices for Spring 2025.

*Talk to your Rainscreen Specialist for detailed pricing. Volume pricing available and subject to change, depends on panel line and dimensions, bracket size and metal type.

Note: These are gross approximations that do not take into account windows, openings, transitions, corners, etc. It's for rough order of magnitude estimates only. Please conduct a full take-off for accurate material count.

For even more detail, scan the QR Code.

Access a wide variety of specs, code and test reports, design and install guides, details, installation videos and more.



For any project, always comply with local building code and/or registered design professional for structural adequacy requirements of exterior walls.

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