



SOLAR PANELS PLUS

Conservation Does Not Have To Mean Deprivation

SPP-FP Series Collectors with exclusive -selective "Crystal Clear" inside

Glazing:

Low-Iron tempered glass with a total solar energy transmission of 90%.

Collector Frame and Battens:

Type 6063-T6 extruded aluminum frame and battens with architecture anodized bronze finish that facilitates long life and strength.

Insulation:

Polyisocyanurate foam board insulation. Foil-faced, glass fiber reinforced, rigid board Thermax sheathing (1-1/4" in the bed / 3/4" in the sidewalls).

Mounting Hardware:

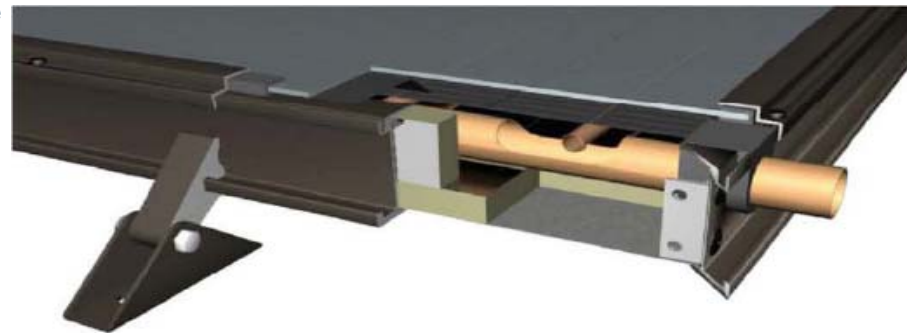
The variable mounting hardware reduces mounting time and makes it simple for anyone to install. The variable mounting system allows the highest flexibility in mounting and is tested to wind load conditions of 175 mph. Mounting possibilities include: Pitched roof, Flat roof, Ground, Balcony, and Facade mounting.

Design Life: 30 Years

Warranty: 10 Years

Working Pressure: 165 PSI

Flow Rate: 0.5 to 1.8 GPM (recommended)



Absorber Plate:

Manufactured in the USA, a 100% copper absorber plate, the fin and riser tube are molecularly bonded by high frequency forge welding.

Absorber Coating:

Exclusively by Thermafin™ Mfg., a Selective "Crystal Clear" Coating. $\alpha = 0.96$ $\epsilon = 0.08$

Gasket Grommets:

A UV durable EPDM, U-channel gasket with molded corners which prohibits water penetration and assures long life. Extruded Silicone Grommet with 1-1/8" Bore.

Corner Bracket:

Architectural aluminum angles inside with aircraft-grade pin grip rivets to ensure high stability.

Fasteners:

5056 Aluminum rivets secure the backsheet. Batten screws are 18-855, 10-24 x 3/8", hex head screws, and black oxide coated.

Backsheet:

Type 3105-H14, 0.019" stucco embossed aluminum sheet (bronze) pop-riveted to aluminum frame.

Collector	SPP-FP26	SPP-FP40
Length (in)	78.0	122.0
Width (in)	48.0	48.0
Height (in)	3.12 5	3.125
Gross Area (ft sq)	26.0	40.7
Transparent Area (ft sq)	23.3	39.6
Dry Weight (lb)	91	151

★ **Made in the USA** ★



CODE APPROVALS

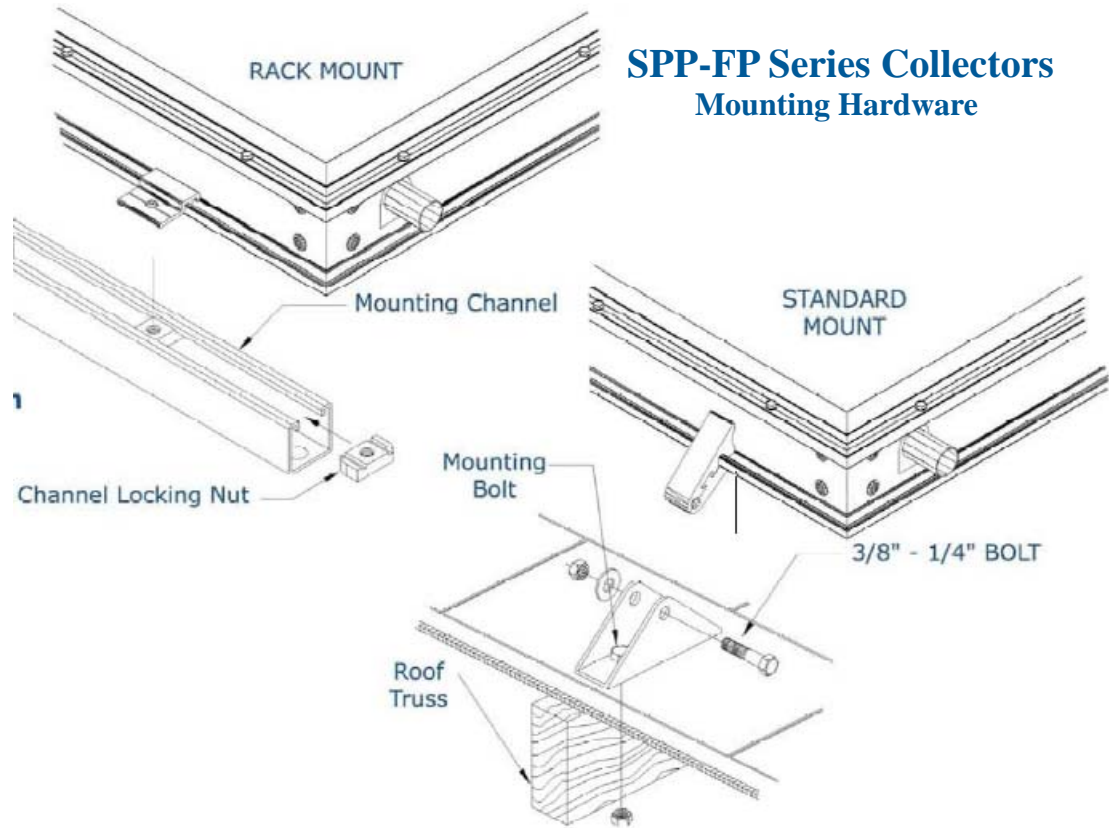
SPP-FP Series Collectors have been designed and constructed to meet major applicable nationwide codes, including the following:

Miami Testing Laboratory
Wind Load Test (ASTM E 330)
File No. 83-854

Florida Solar Energy Center – Test Methods and Minimum Standards For Solar Collectors (ASHRAE Std 93-1986)

Solar Rating And Certification Corporation Mechanical Official (IAPMO)
Uniform Solar Energy Code (USEC)
File No. S-5038

City and County of Honolulu
Approval No. MM 83-18(1)



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SRCC SPP-FP26 collector Rating

COLLECTOR THERMAL PERFORMANCE RATING							
Megajoules Per Panel Per Day				Thousands of BTU Per Panel Per Day			
CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
A (-5 °C)	35.8	27.0	18.3	A (-9 °F)	33.9	25.6	17.4
B (5 °C)	32.6	23.8	15.1	B (9 °F)	30.9	22.6	14.3
C (20 °C)	27.3	18.7	10.2	C (36 °F)	25.8	17.7	9.7
D (50 °C)	16.4	8.7	1.9	D (90 °F)	15.5	8.2	1.8
E (80 °C)	6.4	0.9	0.0	E (144 °F)	6.0	0.9	0.0

SRCC SPP-FP40 collector Rating

COLLECTOR THERMAL PERFORMANCE RATING							
Megajoules Per Panel Per Day				Thousands of BTU Per Panel Per Day			
CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
A (-5 °C)	58.1	43.8	29.7	A (-9 °F)	55.0	41.6	28.2
B (5 °C)	52.8	38.6	24.5	B (9 °F)	50.0	36.6	23.2
C (20 °C)	44.2	30.3	16.5	C (36 °F)	41.9	28.7	15.7
D (50 °C)	26.5	14.1	3.1	D (90 °F)	25.2	13.3	2.9
E (80 °C)	10.3	1.5	0.0	E (144 °F)	9.8	1.5	0.0