

## MSC-Series Collectors

with exclusive - selective "Crystal Clear" inside

### Absorber Plate:

Manufactured by Thermafin™ Mfg., 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:

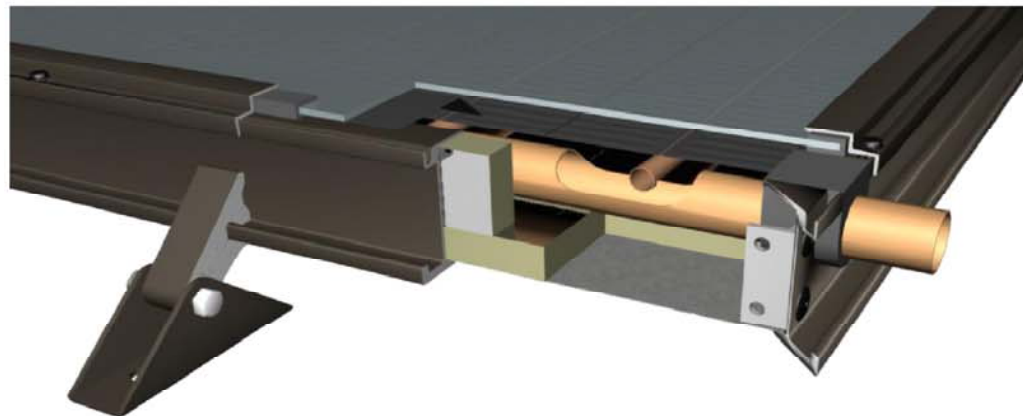
Architectural aluminum angles inside with aircraft-grade pin grip rivets to ensure high stability.

### Fasteners:

5056 Aluminum rivets secure the backsheet. Batten screws are 18-8 SS, 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.



	SPECIFICATIONS					
Collector	MSC-21	MSC-24	MSC-26	MSC-28	MSC-32	MSC-40
Length (in)	86.0	98.0	78.0	86.0	98.0	122.0
Width (in)	36.0	36.0	48.0	48.0	48.0	48.0
Height (in)	3.125	3.125	3.125	3.125	3.125	3.125
Gross Area (ft <sup>2</sup> )	21.5	24.5	26.0	28.5	32.7	40.7
Transparent Area (ft <sup>2</sup> )	18.9	21.6	23.3	25.8	29.5	36.9
Dry Weight (lb)	76	87	91	102	116	151

### Glazing:

Low-Iron tempered glass, exclusively using our "High-T" 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 "Quick Lock" mounting hardware reduces mounting time and makes it simple for anyone to install. The Quick Lock 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)

## CODE APPROVALS

**MSC-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**

SRCC Standard 100-Tested Methods and  
Minimum Standards for Certifying Solar  
Collectors (ASHRAE Std 93-1986)

### **International Association of Plumbing 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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## Mounting Hardware

