

# The AE Collector - Series

## CORNER BRACKETS

Architectural aluminum angles inside with special pin grip rivets insure high stability. An additional corner seal produces the water tightness.

## ALUMINUM FRAME AND LIGHTWEIGHT CONSTRUCTION

...this facilitates long life and strength. The frame is electrostatically coated in an attractive medium bronze color.

## ALUMINUM EXTRUDED BATTEN

No silicon is used! Ribbed aluminum extrusions and a smooth compressed EPDM gasket provide water tightness. This allows easy access to the collector for repair or maintenance at any time or location.

## GLASS GASKET

...a UV durable EPDM channel with molded corners assures long life and avoids all water penetration.

## "QUICK LOCK" MOUNTING FRAME

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 180 mph. Mounting possibilities include: Pitched-roof, Flatroof, Ground, Balcony, and Facade mounting.

## LOW-IRON TEMPERED GLASS

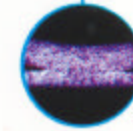
Exclusively using the new "High-T" tempered glass with an iron oxide content of less than 1%.

## COATINGS

- Crystal Clear  
 $\tau_{\text{CR}} \approx 0.94 - 0.96$   
 $\epsilon \approx 0.09 - 0.12$
- Non-Metallic, ceramic coating  
 $\tau_{\text{CR}} \approx 0.92$   
 $\epsilon \approx 0.15$

## FULL COPPER ABSORBER

The heat transfer is optimized by the high frequency forge weld which creates a crystalline homogenous connection between the fin and the riser.



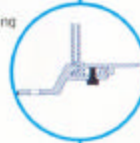
Absorber joint - Magnified 800 times

## FOIL-FACED POLY-ISOCYANURATE INSULATION

## EPDM GROMMETS

## EMBOSSED ALUMINUM BACKSHEET

Quick Lock Mounting



ALTERNATE ENERGY TECHNOLOGIES, LLC

## SPECIFICATIONS

| Collector                           | AE-21<br>AE-21E   | AE-24<br>AE-24E   | AE-26<br>AE-26E   | AE-28<br>AE-28E   | AE-32<br>AE-32E   | AE-40<br>AE-40E  |
|-------------------------------------|---|---|---|---|---|--|
| Gross Area (ft <sup>2</sup> )       | 20.82   | 23.75   | 25.29   | 27.92   | 31.85   | 39.71  |
| Dimensions (in)                     | 85 <sup>3</sup> / <sub>16</sub> X 35 <sup>3</sup> / <sub>16</sub> | 97 <sup>3</sup> / <sub>16</sub> X 35 <sup>3</sup> / <sub>16</sub> | 77 <sup>3</sup> / <sub>16</sub> X 47 <sup>3</sup> / <sub>16</sub> | 85 <sup>3</sup> / <sub>16</sub> X 47 <sup>3</sup> / <sub>16</sub> | 97 <sup>3</sup> / <sub>16</sub> X 47 <sup>3</sup> / <sub>16</sub> | 121 <sup>3</sup> / <sub>16</sub> X 47 <sup>3</sup> / <sub>16</sub> |
| Transparent Area (ft <sup>2</sup> ) | 19.20   | 21.90   | 23.60   | 26.10   | 29.90   | 37.40  |
| Weight (lb)                         | 74  | 84  | 90  | 99  | 113   | 153  |

Tested: TUV (DIN 4757), RAPPERSWILL, ONORM M7714, FSEC, SRCC, Metropolitan Dade County, Miami Test Lab