



# SunEarth

## SOLAR STRUT

RACKING RAILS

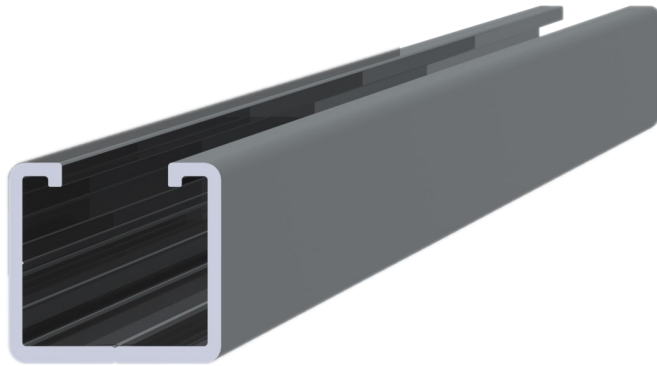
### Applications



Solar Water Heating



Solar Pool Heating



### Technical Specifications

#### Solar Strut-1 5/8"

|           |                 |
|-----------|-----------------|
| Width     | 1.72 in.        |
| Height:   | 1.63 in.        |
| Material: | AA 6063-T6      |
| Finish:   | Bronze Anodized |

### General:

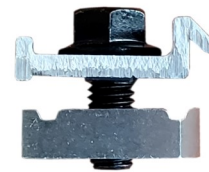
SunEarth's versatile Solar Strut Racking System is the contractor's clean-line choice for installing SunEarth hot water collectors. Solar Strut is available in continuous lengths up to 27" in a bronze anodized finish. Collector attachment clamps are affixed to the Solar Strut Rails with our exclusive stainless-steel sliding nut and bolt assembly. Engineered for use in the world's harshest environments, SunEarth's Solar Strut racking system ensures a safe and secure solar system installation.

### Models:

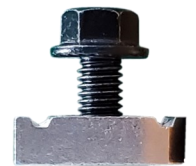
| Part Number        | Description                                |
|--------------------|--------------------------------------------|
| 10070-158-030-BA   | 30" 1-5/8 IN Bronze Anodized SolarStrut    |
| 10070-158-042-BA   | 42" 1-5/8 IN Bronze Anodized SolarStrut    |
| 10070-158-052-BA   | 52" 1-5/8 IN Bronze Anodized SolarStrut    |
| 10070-158-082-BA   | 82" 1-5/8 IN Bronze Anodized SolarStrut    |
| 10070-158-104.5-BA | 104.5" 1-5/8 IN Bronze Anodized SolarStrut |
| 10070-158-120-BA   | 120" 1-5/8 IN Bronze Anodized SolarStrut   |
| 10070-158-158-BA   | 158" 1-5/8 IN Bronze Anodized SolarStrut   |
| 10070-158-244-BA   | 244" 1-5/8 IN Bronze Anodized SolarStrut   |
| 10070-158-324-BA   | 324" 1-5/8 IN Bronze Anodized SolarStrut   |

### Accessories:

| Part Number | Description                       |
|-------------|-----------------------------------|
| C-SSN-BA    | 3/8" Strut Nut Assembly-With Clip |
| SSN-3/8     | 3/8" Strut Nut Assembly           |
| SSN-5/16    | 5/16" Strut Nut Assembly          |
| SSN-1/4     | 1/4" Strut Nut Assembly           |



C-SSN Strut Nut Assembly with Clip



SSN Strut Nut Assembly

*Due to SunEarth's policy of continuous product improvement, specifications are subject to change without notice.*



# SunEarth

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[www.sunearthinc.com](http://www.sunearthinc.com)

June 2020



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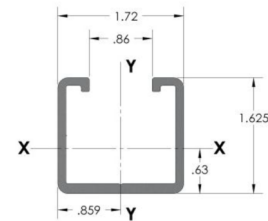
### Uniform Loads:

| Beam Span (in.) | Max. Uniform Load (lbf) | Uniform Load at Deflection = $L/240$ (lbf) | Max. Fixed Column Load (lbf) | Cantilever Distance (in.) | Max. Cantilever Uniform Load (lbf) |
|-----------------|-------------------------|--------------------------------------------|------------------------------|---------------------------|------------------------------------|
| 24              | 1273                    | 811                                        | 6259                         | 20                        | 381                                |
| 36              | 848                     | 359                                        | 2782                         | 25                        | 304                                |
| 48              | 635                     | 201                                        | 1565                         | 30                        | 253                                |
| 60              | 507                     | 127                                        | 1001                         | 35                        | 216                                |
| 72              | 422                     | 87                                         | 695                          | 40                        | 188                                |
| 84              | 361                     | 63                                         | 511                          | 45                        | 167                                |
| 96              | 315                     | 47                                         | 391                          | 50                        | 149                                |
| 108             | 279                     | 36                                         | 309                          | 55                        | 135                                |
| 120             | 250                     | 28                                         | 250                          | 60                        | 123                                |

### Technical Specifications Continued:

| Solar Strut-1 5/8"     |                       |
|------------------------|-----------------------|
| Moment of Inertia (X): | 0.219 in <sup>4</sup> |
| Moment of Inertia (Y): | 0.287 in <sup>4</sup> |
| Distance to Centroid:  | 0.955 in              |
| Young's Modulus:       | 10007604              |
| Yield Stress:          | 25000 psi             |

### Cross Section Dimensions:



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