TEST REPORT

Report No.: D8050.03-301-44

Rendered to:

SOLATUBE INTERNATIONAL, INC.
Vista, California

SERIES/MODEL: M74 DS
PRODUCT TYPE: Open Ceiling Tubular Daylight Device

SPECIFICATION: Occupational Safety and Health Administration/U.S. Department of Labor Regulations Standards – 29 CFR 1926 Subpart M (Fall Protection) 1926.501(b)(4)(i); 1926.501(i)(2); 1926.501(b)(4)(ii)

Test Date: 05/15/14
Report Date: 07/14/14
Test Record Retention Date: 05/15/18
1.0 Report Issued To: Solatube International, Inc.
2210 Oak Ridge Way
Vista, California 92081

2.0 Test Laboratory: Architectural Testing, Inc.
4 Rancho Circle
Lake Forest, California
949-460-9600

3.0 Project Summary:

3.1 Series/Model: M74 DS

3.2 Product Type: Open Ceiling Tubular Daylight Device

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test methods.

3.4 Test Date: 05/15/14

3.5 Test Location: Architectural Testing, Inc. test facility in Lake Forest, California.

3.6 Test Sample Source: The specimens were selected by Architectural Testing, Inc. personnel. The specimens were witnessed during production and tagged prior to shipment on May 12, 2014, (Reference Architectural Testing Test Specimen Selection Report No. D8051.03-301-44, dated July 14, 2014). Representative samples of the test specimens will be retained by Architectural Testing for a minimum of four years from the test completion date.

3.7 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimens reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.8 List of Official Observers:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeff Robertson</td>
<td>Solatube International, Inc.</td>
</tr>
<tr>
<td>John Calvanico</td>
<td>Solatube International, Inc.</td>
</tr>
<tr>
<td>Chris Stevens</td>
<td>Solatube International, Inc.</td>
</tr>
<tr>
<td>Jarod Hardman</td>
<td>Architectural Testing, Inc.</td>
</tr>
</tbody>
</table>

www.archtest.com
4.0 Test Specifications:

Occupational Safety and Health Administration/U.S. Department of Labor Regulations Standards – 29 CFR 1926 Subpart M (Fall Protection) 1926.501(b)(4)(i); 1926.501(i)(2); 1926.501(b)(4)(ii)

A 700 lbf. weight, fabricated from a bag filled with sand, was placed on the center of the dome for a minimum of 60 seconds. The bag was removed and the test unit was inspected for any signs of damage or failure. The bag was then dropped from a 2' height above the dome, any visible damage was noted.

The static test was performed to demonstrate that a M74 DS tubular daylight device system, installed according to the manufacturer's instructions and in new or undamaged condition can support a 350-Pound weight at any one time based on 1926.502(i)(2).

The impact test was performed to demonstrate the adequacy of the 700 lb. static test results.

5.0 Test Specimen Description:

5.1 Product Sizes:

<table>
<thead>
<tr>
<th>Overall Area: 0.84 m² (9.01 ft²)</th>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Millimeters</td>
<td>Inches</td>
</tr>
<tr>
<td>Overall size</td>
<td>915</td>
<td>36</td>
</tr>
<tr>
<td>Outside curb dimension</td>
<td>873</td>
<td>34-3/8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum dome thickness</td>
<td>1.3</td>
<td>0.05</td>
</tr>
<tr>
<td>Dome height</td>
<td>152</td>
<td>6</td>
</tr>
<tr>
<td>Dome diameter</td>
<td>797</td>
<td>31.38</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mass</th>
<th>Kilograms</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dome weight</td>
<td>1.9</td>
<td>4.23</td>
</tr>
</tbody>
</table>
5.0 Test Specimen Description: (Continued)

5.2 Frame Construction:

<table>
<thead>
<tr>
<th>Frame Member</th>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner bracket</td>
<td>Zinc/aluminum alloy-coated steel</td>
<td>P/N: 210210</td>
</tr>
<tr>
<td>Curb cap flashing</td>
<td>Zinc/aluminum alloy-coated steel</td>
<td>P/N: 210225</td>
</tr>
<tr>
<td>Tube collar</td>
<td>Aluminum w/ reflective film</td>
<td>P/N: 410420</td>
</tr>
<tr>
<td>24&quot; extension tube</td>
<td>Aluminum w/ reflective film</td>
<td>P/N: 320325</td>
</tr>
<tr>
<td>48&quot; extension tube</td>
<td>Aluminum w/ reflective film</td>
<td>P/N: 300475</td>
</tr>
<tr>
<td>Diffuser collar</td>
<td>Aluminum w/ reflective film</td>
<td>P/N: 420725</td>
</tr>
<tr>
<td>Diffuser panel</td>
<td>Acrylic</td>
<td>P/N: 420985</td>
</tr>
<tr>
<td>Insulation</td>
<td>Rigid foam</td>
<td>P/N: 500375</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Joinery Type</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>All corners</td>
<td>Corner brackets (P/N: 210210) are secured to metal curb cap (P/N: 210225) using four 1/8&quot; x 1/4&quot; aluminum rivets with steel mandrel through predrilled 1/8&quot; river holes.</td>
</tr>
<tr>
<td>Rigid foam insulation</td>
<td>Formed from four pieces of nominal 1&quot; thick insulation board, each with a radius cut to fit the contours of the reflective tube; adhered directly to the inside of the curb cap using sealant; seams sealed with foil tape.</td>
</tr>
<tr>
<td>Tube collar</td>
<td>Secured to fold down tabs on metal curb cap (P/N: 210225) using six 1/8&quot; x 1/4&quot; aluminum rivets with steel mandrel through predrilled holes every 60 degrees around circumference of opening.</td>
</tr>
</tbody>
</table>
5.0 Test Specimen Description: (Continued)

5.2 Frame Construction: (Continued)

<table>
<thead>
<tr>
<th>Joinery Type</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube extension</td>
<td>Secured to tube collar (P/N: 410420) and diffuser collar (P/N: 420725) by engaging tab locks to hooks on corresponding hooks and fitting tube belt (P/N: 400395) over tube joint.</td>
</tr>
<tr>
<td>Diffuse collar</td>
<td>Secured to either extension tube (P/N: 320325 or 300475) by engaging tab locks to hooks on collar and securing to diffuser panel (P/N: 420985) by inserting tabs through precut holes bending tab projections over to secure and fitting tube belt (P/N: 400395) over the assembly.</td>
</tr>
</tbody>
</table>

5.3 Weatherstripping:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; wide by 3/16&quot; thick closed cell foam gasket</td>
<td>1 row</td>
<td>Adhered full perimeter to the rigid insulation so that it is compressed against the curb.</td>
</tr>
<tr>
<td>Urethane foam seal &quot;L&quot; profile with polymeric skin</td>
<td>1 row</td>
<td>Adhered to the metal around the circumference of the curb cap turret at the TDD aperture and compressed against the outer dome.</td>
</tr>
<tr>
<td>EPDM foam profile dress ring seal</td>
<td>1 row</td>
<td>Clipped over edge of diffuser panel (P/N: 420985) around the full circumference of the diffuser panel.</td>
</tr>
</tbody>
</table>

5.4 Glazing:

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Glazing</th>
<th>Glazing Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monolithic</td>
<td>Min. 0.05&quot; thick vacuum formed polycarbonate</td>
<td>Secured with dome clamp assembly onto the formed metal curb cap opening.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Quantity</th>
<th>Daylight Opening Diameter</th>
<th>Glass Bite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer dome</td>
<td>1</td>
<td>724</td>
<td>Outer dome</td>
</tr>
</tbody>
</table>
6.0 Installation:

The specimen was installed into a Douglas-Fir wood buck. The rough opening allowed for a 1/2" shim space.

<table>
<thead>
<tr>
<th>Location</th>
<th>Anchor Description</th>
<th>Anchor Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>One anchor through each of the precut holes in the vertical apron of the curb cap assembly</td>
<td>#10 x 2&quot; Phillips truss head screw</td>
<td>Four anchors were located on each side at 2-1/2&quot; and 10&quot; on center from each corner.</td>
</tr>
</tbody>
</table>

7.0 Test Results: The results are tabulated as follows:

7.1 OSHA Safety Test

<table>
<thead>
<tr>
<th>Test</th>
<th>Load Location</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 lbf</td>
<td>Center of dome</td>
<td>Dome indented, no visible damage to tube collar retention or compromising of dome</td>
</tr>
</tbody>
</table>

Note: The 700 lbf weight was gently applied perpendicular to the center of each dome. After 60 seconds of rest time, there was no visible damage to either skylight.

7.2 OSHA Safety Drop Test

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Load Location</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 lbf-ft (2' drop height)</td>
<td>Center of dome</td>
<td>Dome indented and indenting from corners to dome ring, no visible damage to tube collar retention or compromising of dome</td>
</tr>
</tbody>
</table>
The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimens can be made. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

[Signatures]

Jarod S. Hardman
Laboratory Manager

Tyler Westerling, P.E.
Senior Project Engineer

JSH: ss

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Photographs (1)
Appendix-B: Drawings (70)
Appendix A

Photographs
Photo No. 1
OSHA Safety Test

Photo No. 2
OSHA Safety Drop Test

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Appendix B

Drawings
<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
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<td>124100</td>
<td>300681</td>
<td>210210</td>
<td>200925</td>
<td>200965</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210225</td>
<td>210235</td>
<td>200965</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>400395</td>
<td>504000</td>
<td>300485</td>
<td>504010</td>
<td>200975</td>
<td></td>
<td></td>
</tr>
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<td>504025</td>
<td>520025</td>
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<tr>
<td>400685</td>
<td>220210</td>
<td>410420</td>
<td>300495</td>
<td>350980</td>
<td></td>
<td></td>
</tr>
<tr>
<td>350460</td>
<td>350820</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>500375</td>
<td>410140</td>
<td>501625</td>
<td>501895</td>
<td>501990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>504205</td>
<td>504215</td>
<td>508015</td>
<td>400801</td>
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<td></td>
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<td>600325</td>
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<td>601090</td>
<td>700300</td>
<td>700445</td>
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<td>700635</td>
<td>700740</td>
<td>700480</td>
<td></td>
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</tr>
</tbody>
</table>

M74 DS Single Dome Assy
Corner Bracket M74 DS
Disk Scrap
Sheet Zincum Large Plus
M74 DS Curb Cap Flashing
M74 DS Curb Cap Punched
Sheet Zincum Large Plus
Tube Belt
Metal Belt
Sheet Zincum Galvanized 26Ga
Metal Belt Hasp M74 DS
Sheet Zincum Large Plus
Torsion Spring
Dome Edge Protection Bnd M74
Sheet Zincum Stl 26Ga
Tube Collar M74 DS
Aluminum Blank 0.018 48"x90.3"
Coil 49.5" 3M 0.018 Coated
Reflective Film
Aluminum Coil 0.018 Coated
M74 DS Retainer Band Assy
M74 DS Retainer Band Blank
Sheet Stainless Steel 304 22Ga
M74 DS Dome Retainer Clip
Dome Retainer Clip Blank
Sheet Stainless Steel 304 18Ga
Insulation Section M74 DS Curb
Sheet Rigid Insulation
Part ID Label M74 DS
Label STU-K M74 DS
Outer Dome Warning Label
Rivet Nut #10-24 Closed
Screw #10-24 x 5/8" Hex Washer
M74 DS Outer Dome
Sheet Polycarbonate Clear
Closed Cell Foam 3/16" x 3/8"
Foam Seal
Foil Tape 150'
Roofing Sealant Grey
Washer Bonded #10 x 3/8"
Rivet 1/8" x 1/4" Blind Multi
330/750 Flashing Fastener Kit
Screw #10 x 2" Self Pierce Phil
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>126100</td>
<td>M74 DS Dual Dome Assy</td>
</tr>
<tr>
<td>300671</td>
<td>M74 DS Dual Dome Assy</td>
</tr>
<tr>
<td>210210</td>
<td>Corner Bracket M74 DS</td>
</tr>
<tr>
<td>200925</td>
<td>Disk Steel Scrap</td>
</tr>
<tr>
<td>200965</td>
<td>Sheet Steel Zincalume Plus</td>
</tr>
<tr>
<td>210225</td>
<td>M74 DS Curb Cap Flashing</td>
</tr>
<tr>
<td>210235</td>
<td>M74 DS Curb Cap Punched</td>
</tr>
<tr>
<td>200965</td>
<td>Sheet Steel Zincalume Plus</td>
</tr>
<tr>
<td>500400</td>
<td>Tube Belt</td>
</tr>
<tr>
<td>300485</td>
<td>Metal Belt</td>
</tr>
<tr>
<td>504010</td>
<td>Sheet Steel Galvanized 26Ga</td>
</tr>
<tr>
<td>200975</td>
<td>Metal Belt Hasp M74 DS</td>
</tr>
<tr>
<td>520025</td>
<td>Sheet Steel Zincalume Plus</td>
</tr>
<tr>
<td>400685</td>
<td>Torsion Spring</td>
</tr>
<tr>
<td>220210</td>
<td>Dome Edge Protection Bnd M74</td>
</tr>
<tr>
<td>410420</td>
<td>Sheet Zincalume Stl 26Ga</td>
</tr>
<tr>
<td>300495</td>
<td>Tube Collar M74 DS</td>
</tr>
<tr>
<td>350980</td>
<td>Aluminum Blank 0.018 48&quot;x90.3&quot;</td>
</tr>
<tr>
<td>350460</td>
<td>Coil 49.5&quot; 3M 0.018 Coated</td>
</tr>
<tr>
<td>350820</td>
<td>Reflective Film</td>
</tr>
<tr>
<td>480045</td>
<td>Aliminum Coil 0.018 Coated</td>
</tr>
<tr>
<td>504031</td>
<td>M74 DS Retainer Band Assy</td>
</tr>
<tr>
<td>220230</td>
<td>M74 DS Retainer Band Blank</td>
</tr>
<tr>
<td>700315</td>
<td>Sheet Stainless Steel 304 22Ga</td>
</tr>
<tr>
<td>480060</td>
<td>M74 DS Dome Retainer Clip</td>
</tr>
<tr>
<td>220240</td>
<td>Dome Retainer Clip Blank</td>
</tr>
<tr>
<td>500375</td>
<td>Sheet Stainless Steel 304 18Ga</td>
</tr>
<tr>
<td>410140</td>
<td>Insulation Section M74 DS Curb</td>
</tr>
<tr>
<td>501625</td>
<td>Sheet Rigid Insulation</td>
</tr>
<tr>
<td>501895</td>
<td>Part ID Label M74 DS</td>
</tr>
<tr>
<td>501990</td>
<td>Label STU-K M74 DS</td>
</tr>
<tr>
<td>504205</td>
<td>Outer Dome Warning Label</td>
</tr>
<tr>
<td>504215</td>
<td>Rivet Nut #10-24 Closed</td>
</tr>
<tr>
<td>508015</td>
<td>Screw #10-24 x 5/8&quot; Hex Washer</td>
</tr>
<tr>
<td>400801</td>
<td>M74 DS Outer Dome</td>
</tr>
<tr>
<td>510510</td>
<td>Sheet Polycarbonate Clear</td>
</tr>
<tr>
<td>420290</td>
<td>Inner Thermal Disk M74 DS</td>
</tr>
<tr>
<td>600325</td>
<td>Sheet PETG Clear</td>
</tr>
</tbody>
</table>
| 600420    | Closed Cell Foam 3/16" x 3/8"
| 601090    | Foam Seal |
| 700300    | Foil Tape 150' |
| 700445    | Roofing Sealant Grey |
| 700635    | Washer Bonded #10 x 3/8"
| 700740    | Rivet 1/8" x 1/4" Blind Multi |
| 700480    | 330/750 Flashing Fastener Kit |
|           | Screw #10 x 2" Self Pierce Phil |
DETAIL A
SCALE 1 : 2
(6 PLACES)

DETAIL B
SCALE 1 : 2
(6 PLACES)

NOT ON SAMPLE TESTED
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:

1.1 POWDER COAT SPEC ACCORDING TO PARTS BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE. FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY BAR AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY *XXX*
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

5. GENERAL NOTES:

D 8050 JUL 11 2014

Report #

Tech Date

NOT ON SAMPLE TESTED

UNLESS OTHERWISE SPECIFIED:

TOLERANCES
ANGULAR: ±0.5°
INCH MILLIMETER
X ± .01 1X ± .3
XX ± .005 1XX ± .12
XXX ± .002 1XXX ± .05

STAINLESS STEEL ROD FORMED

Proprietary and Confidential

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Material
480050

Drawing by
STEVENS

Date
4/23/13

Finished

Checked by

Date

480036IN WORK
1. NOTES: UNLESS OTHERWISE SPECIFIED.
2. FINISH:
   1.1 POWDER COAT SPEC ACCORING TO PART BARE
   1.2 BREAK ALL CORNERS AND SHARP EDGES
3. QUALITY ASSURANCE REQUIREMENTS:
   2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
   2.2 FIRST ARTICLE FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.
4. MARKING:
   3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
   3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY TAG AND/OR TAG METHOD.
5. GENERAL REQUIREMENTS:
   4.1 CRITICAL DIMENSIONS ARE DENOTED BY *.*
   4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

---

**DETAIL A**

**SCALE 1:2**

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>QTY.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>700315</td>
<td>M74 DS DOME BAND CLAMP</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>504031</td>
<td>M74 DS DOME RETAINER BAND</td>
</tr>
</tbody>
</table>

---

**UNLESS OTHERWISE SPECIFIED:**

<table>
<thead>
<tr>
<th>TOLERANCES</th>
<th>PROPRIETARY AND CONFIDENTIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGULAR: ±0.5°</td>
<td>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.</td>
</tr>
<tr>
<td>INCH: ±0.03</td>
<td></td>
</tr>
<tr>
<td>MILLIMETER: ±0.075</td>
<td></td>
</tr>
<tr>
<td>XX: ±0.01</td>
<td></td>
</tr>
<tr>
<td>XXX: ±0.003</td>
<td></td>
</tr>
<tr>
<td>XXXX: ±0.125</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL:** SEE BOM

**DRAWN BY:** STEVENS

**DATE:** 14 MAR 14

**CHECKED BY:** STEVENS

**APPROVED BY:**

**SIZE:** B

**DATE:** 2D

**DWG. NO.:** 480045

**REV:** A

**UNIT MM (INCH):** SCALE: 1:4 SHEET 1 OF 1
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:
1. POWDER COAT SPEC ACCORDING TO PART
2. BARE

QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 700015 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY < XXX >.
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

ARCHITECTURAL TESTING, INC.
Test sample, comply with these details.
D 8 0 5 0 JUL 1 1 2014

Report # [Signature] Date
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:

1.1 POWDER COAT SPEC ACCORDING TO PART
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH S00170 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY ___.
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

---

**Table of Parts**

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<th>ITEM NO.</th>
<th>QTY</th>
<th>PART NO.</th>
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<tr>
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<td>METAL BELT HASP M74 DS</td>
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<td>TORSION SPRING</td>
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**SOLATUBE**

M74 DS AMPLIFIER BELT ASSEMBLY

---

**Material Information**

- DRAWN BY: STEVENS
- DATE: 10/30/13

---

**Factory Details**

Solatube, Inc.
2345 Oak Ridge Way
Sunnyvale, CA 94086
408-752-5633

---

**Notes:**

- SOLATUBE PROPRIETARY AND CONFIDENTIAL
- MATERIAL: __
- DRAWN BY: __
- DATE: __
- FINISH: __
- CHECKED BY: __
- APPROVED BY: __
- DRAWN BY: __
- DATE: __
- FINISH: __
- CHECKED BY: __
- APPROVED BY: __

---

**Scale:** 1:6

---

**Sheet:** 1 of 2

---

**Date:** JUL 11 2014

---

**Report No.**

---

**Architectural Testing, Inc.**

---

**Not on Sample Tested**
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**Drawing Information:**
- **Drawing No.:** 500175
- **Scale:** 1/16
- **Date:** JUL 11, 2014

**Drawing Notes:**
- **Proprietary and Confidential Information:**
  - Not to be reproduced or distributed without written permission.
- **Drawing Scale:** 1/16
- **Drawing Date:** JUL 11, 2014

**Diagram:**
- Diagram of a component labeled 1, 2, 3.
GENERAL NOTES:

1. LABEL MATERIAL: PET
2. THICKNESS: 0.003"
3. LABEL IS CLEAR AND TEXT COLOR IS BLACK
4. TEXT FONT: ARIAL; TEXT SIZE: 10 POINT
5. ACRYLIC BASED PRESSURE SENSITIVE ADHESIVE

UNLESS OTHERWISE SPECIFIED:

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DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

TITLED:

SOLATUBE
2200 DARE RIDGE WAY
VISTA, CALIFORNIA 92084-1241
PHONE: (760) 397-4400

NFRC M74 DS LABEL

D 8050
JUL 11, 2014

Architectural Testing, Inc.
Test sample complies with these details
Deviations are noted

Approved

2013-06-04
STEVENV

INTERPRET DRAWINGS IN ACCORDANCE WITH:
ASME Y14.5 - 1994
GENERAL NOTES:

1. MATERIAL: PET
2. THICKNESS: 0.003"  
3. THE LABEL IS CLEAR AND TEXT COLOR IS REFERENCED ON DRAWING.
4. ACRYLIC BASED, PRESSURE SENSITIVE ADHESIVE
NOTES: UNLESS OTHERWISE SPECIFIED.

1. FINISH:
   1.1 POWDER COAT SPEC ACCORDING TO PART BARE
   1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
   2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPCTION ON CRITICAL PARAMETERS DURING PRODUCTION.
   2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
   3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELBILE INK AT LOCATION SHOWN.
   3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH MATERIAL NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
   4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXXX.
   4.2 PART DIMENSIONED PER ANSI Y14.10M:2000 STANDARDS

ARCHITECTURAL TESTING, INC.
Test sample complies with these details
Deviations are noted

D 8050 JUL 11 2014

Tech

NOT ON SAMPLE TESTED

UNLESS OTHERWISE SPECIFIED:

TOLERANCES

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MATERIAL: 3004BS5

PROPRIETARY AND CONFIDENTIAL

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DRAWN BY STEVENS 10/1/13
CHECKED BY

AMPLIFIER METAL BELT
M74 DS

INTERPRET DRAWINGS AS:
ASME Y14.5M - 1994

UNIT MIN (INCH) SCALE: 1:5 SHEET 1 OF 3
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 504000 PART NUMBER AND REVISION LEVEL BY TAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXX
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC: ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELBLY INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 504031 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY "XX".
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS.

M74 DS DOME
RETAINER BAND BLANK

UNLESS OTHERWISE SPECIFIED:

TOLERANCES:

INCH: ±0.05
MILLIMETER: ±0.125

PROPRIETARY AND CONFIDENTIAL

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DETAIL B
SCALE 4 : 1

NOTE: WELD ENTIRE LENGTH OF BUTT WELD, BOTH SIDES;
HAMMER FLAT AS REQUIRED

SECTION A-A

BUTT WELD OPERATION

M74 DS DOME RETAINER BAND BLANK

ARCHITECTURAL TYPING, INC.
Test sample complies with these details
Deviations are noted

REPORT 

DATE

D 8 0 5 0  JUL 1 3 2 0 1 4

ARCHITECT

DATE

SHEET 3 OF 4
NOTE:
ENDS SHOULD BE SQUARE FOR BUTT WELD

DETAIL A
SCALE 2 : 1
(4 PLACES)

M74 DS DOME RETAINER BAND BLANK

ARCHITECTURAL TESTING, INC.
Test sample complies with these details
Deviations are noted

D 8 0 5 0
JUL 11 2014

Report # Test Date

FILE:
M74 DS DOME RETAINER BAND BLANK

SIZE: 504031

REV: A

SCALE: 1:1
SHEET 4 OF 4
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:

1.1 EXTERIOR SURFACES: SMOOTH PER SPI A-3 OR EQUIVALENT. ADD TEXTURE ONLY AFTER FIRST ARTICLE APPROVAL.
1.2 ALL OTHER SURFACES: SMOOTH PER SPI B-2 OR EQUIVALENT.

2. MECHANICAL REQUIREMENTS:

2.1 NO SHRINK MARKS, HAZE MARKS, BLEMISHES, WELD UNIQUES, OR DRAG MARKS PERMITTED WITHOUT WRITTEN APPROVAL FROM SOLATUBE INTL.

3. QUALITY ASSURANCE REQUIREMENTS:

3.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
3.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

4. MASS PROPERTIES

4.1 MATERIAL WEIGHT: 4.53 GRAMS
4.2 PART VOLUME: 105.45 IN^3

5. MARKING:

5.1 PART NUMBER AND CURRENT REVISION LEVEL DIAL AND DATE DIAL SHALL BE EMBOSSED ABOVE THE SURFACE IN LOCATION SHOWN.
5.2 IDENTIFY PARTS THAT CAN NOT BE MOLDED WITH PART NUMBER AND REVISION LEVEL BY BAR AND/OR TAG METHOD.

6. GENERAL REQUIREMENTS:

6.1 CRITICAL DIMENSIONS ARE DENOTED BY XXX
6.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS
6.3 ALL DIMENSIONS ARE AFTER PART HAS COOLED AND STABILIZED PER INSPECTION PROCEDURES APPROVED BY SOLATUBE INTL.
6.4 REF. MODEL DOME M74 DS FOR DIMENSIONS NOT SPECIFIED

ARCHITECTURAL TESTING, INC.
Test sample complies with these details
Deviation are noted

D 8 0 5 0
JUL 11 2014

SOLATUBE
2210 CHAIN MEED WAY
VERT. CALIFORNIA 90051-2341
PH: (714) 507-4825

M74 DS
OUTER DOME

UNLESS OTHERWISE SPECIFIED:

TOLERANCES

AXIS ANGULAR: ±0.5°

INCH

X ± .01

XX ± .03

XXX ± .010

MILLIMETER

X ± 2.5

XX ± 7.5

XXX ± 2.5

PROPRIETARY AND CONFIDENTIAL

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MATERIAL: 400801

DRAWN BY

DATE 14 FEB 14

CHECKED BY

APPROVED BY

REV

508015 A

UNIT MM (INCH) SCALE: 1:8 SHEET 1 OF 2
1.1 Dry powder coat specific according to part
1.2 Break all corners and sharp edges

2. Quality Assurance Requirements:
2.1 The supplier must maintain Statistical Process Control (SPC) or 100% inspection on critical parameters during production.
2.2 First article, first article verification is required prior to initial tool approval or approval of a tool change.

3. Marking:
3.1 Part number and current revision level shall be stamped in contrasting indelible ink at location shown.
3.2 Identify parts that cannot be stamped with 510510 part number and revision level by bag and/or tag method.

4. General Requirements:
4.1 Critical dimensions are denoted by XXX.
4.2 Part dimensioned per ANSI Y14.100-2000 Standards

5. General Requirements:
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:
1.1 POWDER COAT SPEC ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY ***
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS


UNLESS OTHERWISE SPECIFIED:

TOLERANCES
ANGULAR: ±0.5°
INCH: XXX ± 0.03
MILLIMETER: XXX ± 0.005

PROPRIETARY AND CONFIDENTIAL:
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MATERIAL: STAINLESS STEEL 302
36 GA ASTM A313

DRAWN BY: S. WU
DATE: 5 JAN 13

CHECKED BY:
DATE:

DRAWING INTERPRETATIONS:
ASME Y14.5 - 1994

DO NOT SCALE DRAWING

REV: 52002
PROJ NO: IN WORK

SOLATUBE
2200 OAK RIDGE WAY
VACAVILLE, CALIFORNIA 95688
TEL: (707) 459-8400

TITLE: TORSION SPRING
M74 DS

ATURE: B
UNIT M/M INCH
SCALE: 1:1
SHEET 1 OF 2
NOTES: UNLESS OTHERWISE SPECIFIED.

1. FINISH:
   1.1 POWDER COAT SPEC ACCORDING TO PART BARE
   1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
   2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
   2.2 FIRST ARTICLE. FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
   3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
   3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 70031: PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
   4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXX.
   4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

Architectural Testing, Inc.
Test sample complies with these details

D8050  JUL 11 2014

UNLESS OTHERWISE SPECIFIED:

TOLERANCES
   ANGULAR: ±0.5
   INCH: ±.03
   MILLIMETER: ±.075
   XXX: ±.075

MATERIAL: 400060

FINISH

PROPRIETARY AND CONFIDENTIAL

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DRAWN BY: STEVENS  DATE: 15 MAR 14
CHECKED BY:  DATE: 
APPROVED BY:  DATE:

DO NOT SCALE DRAWING

SOLATUBE

TITLE: M74 DS DOME RETAINER CLIP

SIZE: B
PROJECTION: (3rd)
DWG. NO: 700315
REV: A
UNIT MM(INCH) SCALE 1:1 SHEET 1 OF 2
MILLED "FLAT" END

\[ 7.00 \pm 0.05 \]

\[ \text{(R, 4)} \]

120° ± 3°

"PINCHED-CUT" END

\[ 7.00 \]

\[ 6.44 \]

Architectural Testing, Inc.
Test sample complies with these details
Dimensions are noted

D 8050
JUL 11 2014

Report #

Data

NOT ON SAMPLE TESTED

STAINLESS STEEL ROD
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC ACROSS TO PAINT BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY "XXX".
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

5. GENERAL NOTES:

Architectural Testing, Inc.
Test sample samples with these details

D 8050 JUL 11 2014
Report #
Tech Date

overrides are noted

NOT ON SAMPLE TESTED
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:
1.1 POWDER COAT SPEC ACCORDING TO PART BARE
1.2 BAKE ALL CORNERS AND SHARP EDGES

QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY TAG AND/OR TAG METHOD.

GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY *SHAD*
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

D 8050 JUL 1 2014

REPORT #

Architectural Testing, Inc.
Test sample complies with these details. Deviations are noted.

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
- ANGULAR: ±0.5
- INCH: ±0.03
- MILLIMETER: ±0.075

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

MATERIAL
SEE BOM

DRAWN BY
STEVEN
DATE
14 MAR 14

DRAWN BY
DATE
14 MAR 14

CHECKED BY
DATE

APPROVED BY
DATE

UNLESS OTHERWISE SPECIFIED:

ITEM NUMBER QTY. PART NUMBER DESCRIPTION
1 4 700315 M74 DS DOME BAND CLAMP
2 1 504031 M74 DS DOME RETAINER BAND

SOLATUBE
2225 OAK RIDGE WAY
VISTA, CALIFORNIA 92083
760.726.8600

M74 DS DOME RETAINER BAND ASSY

UNIT MM (INCH)
SCALE: 1:1 SHEET 1 OF 1

REV
A

DWG. NO
480045
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:

1.1 POWDER COAT SPEC ACCORDING TO PART. BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE. FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 70001 SPART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY \textless XXX\textgreater .
4.2 PART DIMENSIONED PER ANS/ Y14.100-2000 STANDARDS
NOTES: UNLESS OTHERWISE SPECIFIED.

**FINISH:**

1.1 POWDER COAT SPEC ACCORDING TO PART
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELEBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 500170 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXX
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

---

**REVISIONS**

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**ITEM NO.** | **QTY.** | **PART NO.** | **DESCRIPTION**
--- | --- | --- | ---
1 | 1 | 503990 | M74 DS AMPLIFIER METAL BELT
2 | 1 | 504010 | METAL BELT HASP M74 DS
3 | 1 | 520025 | TORSION SPRING

---

**SOLATUBE**

M74 DS AMPLIFIER BELT ASSEMBLY

UNLESS OTHERWISE SPECIFIED:

TOLERANCES
- ANGULAR: ±0.5°
- INCH: ±.003
- MILLIMETER: ±.008

PROPRIETARY AND CONFIDENTIAL

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MATERIAL

DRAWN BY

CHECKED BY

APPROVED BY

DATE: 10/30/13

DO NOT SCALE DRAWING

---

**ARCHITECTURAL TESTING, INC.**

Test sample complies with these details. Deviations are noted.

D 8 0 5 0 JUL 11 2014

Report #

NOT ON SAMPLE TESTED
GENERAL NOTES:
1. MATERIAL: P.E.T
2. THICKNESS: 0.0028"
3. THE LABEL IS CLEAR AND TEXT COLOR IS BLACK ON DRAWING
4. TEXT: SINGLE SPACING
5. SOLVENT BASED PRESSURE SENSITIVE ADHESIVE
6. DIMENSIONS IN "( )" ARE INCH UNITS AND FOR REFERENCE ONLY, FOR ALL PRODUCTION AND CONTROL REFER TO METRIC DIMENSIONS
GENERAL NOTES:
1. LABEL MATERIAL: PET
2. THICKNESS: 0.003"
3. LABEL IS CLEAR AND TEXT COLOR IS BLACK
4. TEXT FONT: ARIAL; TEXT SIZE: 10 POINT
5. ACRYLIC BASED PRESSURE SENSITIVE ADHESIVE

DO NOT SCALE DRAWING

unless otherwise specified:
TOLERANCES

<table>
<thead>
<tr>
<th>INCH</th>
<th>MILLIMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>± .005</td>
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<td>± .002</td>
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<tr>
<td>XXXX</td>
<td>± .050</td>
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</table>

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

SOLATUBE
2238 OAK RIDGE WAY
VISTA, CALIFORNIA 92081-0241
P: (760) 207-1400

NFRC M74 DS LABEL

UNLESS OTHERWISE SPECIFIED:
TOLERANCES

<table>
<thead>
<tr>
<th>INCH</th>
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</thead>
<tbody>
<tr>
<td>XX</td>
<td>± .005</td>
</tr>
<tr>
<td>XXX</td>
<td>± .002</td>
</tr>
<tr>
<td>XXXX</td>
<td>± .050</td>
</tr>
</tbody>
</table>

MATERIAL:
PET

FINISH:

DO NOT SCALE DRAWING
GENERAL NOTES:

1. MATERIAL: PET
2. THICKNESS: 0.003"  
3. THE LABEL IS CLEAR AND TEXT COLOR IS REFERENCED ON DRAWING.
4. ACRYLIC BASED PRESSURE SENSITIVE ADHESIVE

Architectural Testing, Inc.
Test sample complies with these details. Deviations are noted.

D 8 0 5 0  JUL 1 1 2014
Report # Tech.

UNLESS OTHERWISE SPECIFIED:

TOLERANCES

INCH  MILLIMETER

X ± .01  ± .3
XXX ± .005  ± .12

PROPRIETARY AND CONFIDENTIAL

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DRAWN BY CHECKED BY
S. WU 5/12/08

DATE DATE

TITLE:

OUT DOME WARNING LABEL

INTERPRET DRAWINGS AS:
ASME Y14.3 - 1994

DO NOT SCALE DRAWING

SOLATUBE
27100 DAK RIDGE WAY
VITAL, CALIFORNIA 92691-8341
PH: (949) 497-4420

OUT DOME WARNING LABEL

REV 501990  C
SCALE: 2:1  SHEET 1 OF 1

UNIT MM(INCH) 📁 📀
NOTES: UNLESS OTHERWISE SPECIFIED.

1. FINISH:
   1.1 POWDER COAT SPEC ACCORDING TO PART BARE
   1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
   2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
   2.2 FIRST ARTICLE, FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
   3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
   3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 50400 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
   4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXXX.
   4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS
FLAT PATTERN

ARCHITECTURAL TESTING, INC.
Test sample complies with these details
Departures are normal

D 8 0 5 0
JUL 11 2014

Report # Tech

AMPLIFIER METAL BELT
M74 DS

B 503990
B

SCALE: 1:2

SHEET 3 OF 3
NOTES: UNLESS OTHERWISE SPECIFIED.

1. FINISH:
1.1 POWDER COAT SPEC ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 504000/PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY X.XXX
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

Architectural Testing, Inc.
Test sample complies with these details

D 8 0 5 0  JUL 11  2014

Report #

UNLESS OTHERWISE SPECIFIED:

TOLERANCES

INCH

X.X ± 0.5
XX ± 0.005
XXX ± 0.002

MILIMETER

X ± 0.1
XX ± 0.3
XXX ± 0.12

COMMERCIAL & CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

MATERIAL: 300485
DRAWN BY: S. WU
DATE: 2013/01/08

FINISH
CHECKED BY

DO NOT SCALE DRAWING

INTREPRET DRAWINGS IN:
ASME Y14.5-1994

SOLATUBE
22120 OAK RIDGE WAY
VISTA, CALIFORNIA 92083-8541
PHONE (760) 597-5200

METAL BELT
M74 DS

REV.
ECO
DATE
REVISED
CHECKED
APPROVED
A 2.193-1 5/7/13 STEVENS
B 2.229-1 7/25/2013 STEVENS
C 2.266-1 10/15/2013 STEVENS

504000

SCALE 1-5

SHEET 1 OF 3
NOTES: UNLESS OTHERWISE SPECIFIED.

1. FINISH:
   1.1 POWDER COAT SPEC ACCORDING TO PART BARE
   1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
   2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
   2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
   3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
   3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
   4.1 CRITICAL DIMENSIONS ARE DENOTED BY XXXX
   4.2 PART DIMENSIONED PER ANSI Y14.10-2000 STANDARDS

Architectural Testing, Inc.
Test sample complies with these details
Deviations are noted

D 8050 JUL 11 2014

UNLESS OTHERWISE SPECIFIED:
TOLERANCES
ANGULAR: ±10.5'

INCH
<table>
<thead>
<tr>
<th>TOLERANCE</th>
<th>MILLIMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>± .01</td>
<td>± 0.3</td>
</tr>
<tr>
<td>± .02</td>
<td>± 0.5</td>
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</tr>
<tr>
<td>± .03</td>
<td>± 0.8</td>
</tr>
</tbody>
</table>

M74 DS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

METAL BELT HASP
MATERIAL: 20975
FINISH

DO NOT SCALE DRAWING

INTERPRET DRAWINGS AS:
ASME Y14.5 - 1994

REV. 504010 A
DATE: 3/5/2013
CHECKED BY DATE: 3/5/13
DRAWN BY DATE: 3/5/13

SOLATUBE
2220 OAK RIDGE WAY
VISTA, CALIFORNIA 92081-8349
TEL (866) 557-5400

UNIT MM (INCH) SCALE 3:2 SHEET 1 OF 3

REV
B

PROJECT

DWG. NO

TITLE

REV

DRAWINGS
NOTES: UNLESS OTHERWISE SPECIFIED.

FINISH:
1.1 POWDER COAT SPEC. ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH SD4031 PART NUMBER AND REVISION LEVEL BY TAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY *XXX*
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

M74 DS DOME RETAINER BAND BLANK

UNLESS OTHERWISE SPECIFIED:

TOLERANCES:
- ANGULAR: ±3.6
- INCH: ±0.05
- MILLI: ±0.0

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE TRADE SECRET OF SOLATUBE, ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

MATERIAL:
220230

DRAWN BY:
STEVENS

DATE:
4/24/14

CHECKED BY:

DATE:

APPROVED BY:

DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

UNLESS OTHERWISE SPECIFIED:

TOLERANCES:
- ANGULAR: ±3.6
- INCH: ±0.05
- MILLI: ±0.0

PROPRIETARY AND CONFIDENTIAL

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22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

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- INCH: ±0.05
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DATE:

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22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

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DATE:

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22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
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220230

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STEVENS

DATE:
4/24/14

CHECKED BY:

DATE:

APPROVED BY:

DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

UNLESS OTHERWISE SPECIFIED:

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STEVENS

DATE:
4/24/14

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DATE:

APPROVED BY:

DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

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STEVENS

DATE:
4/24/14

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DATE:

APPROVED BY:

DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

UNLESS OTHERWISE SPECIFIED:

TOLERANCES:
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STEVENS

DATE:
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DATE:

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DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

UNLESS OTHERWISE SPECIFIED:

TOLERANCES:
- ANGULAR: ±3.6
- INCH: ±0.05
- MILLI: ±0.0

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220230

DRAWN BY:
STEVENS

DATE:
4/24/14

CHECKED BY:

DATE:

APPROVED BY:

DATE:

SOLATUBE
22600 ONE ROBINS WAY
VEGA, CALIFORNIA 90291-5541
PH: (760) 297-4400

SCALE: 1:4

UNLESS OTHERW
NOTE: WELD ENTIRE LENGTH OF BUTT WELD, BOTH SIDES; HAMMER FLAT AS REQUIRED.

SECTION A-A

DETAIL B
SCALE 4:1

BUTT WELD

M74 DS DOME RETAINER BAND BLANK

ARCHITECTURAL TYPING, INC.
Test sample complies with these details, deviations are noted.

D 8 0 5 0
JUL 1 1 2 0 1 4

BUTT WELD OPERATION

DEVIATIONS
### NOTES: UNLESS OTHERWISE SPECIFIED.

#### FINISH:
- **1.1** Exterior Surfaces:Smooth per SPI A-3 or Equivalent.
- **1.2** All Other Surfaces:Smooth per SPI B-2 or Equivalent.

### MECHANICAL REQUIREMENTS:
- **2.1** No Shrink Marks, Haze Marks, Blemishes, Weld Unions, or Drag Marks permitted without written approval from Solatube Intl.

### QUALITY ASSURANCE REQUIREMENTS:
- **3.1** The Supplier must maintain statistical process control (SPC) or 100% inspection on critical parameters during production.
- **3.2** First Article: First Article verification is required prior to initial tool approval or approval of a tool change.

### MASS PROPERTIES
- **4.1** Material Weight: 4.53 grams
- **4.2** Part Volume: 303.45 in³

### MARKING:
- **5.1** Part number and current revision level dial and date dial shall be embossed above the surface in location shown.
- **5.2** Identify parts that can not be molded with part number and revision level by bag and/or tag method.

### GENERAL REQUIREMENTS:
- **6.1** Critical dimensions are denoted by "XXX".
- **6.2** Part dimensioned per ANSI Y14.100-2000 Standards.
- **6.3** All dimensions are after part has cooled and stabilized per inspection procedures approved by Solatube Intl.
- **6.4** Ref. model dome M74 DS for dimensions not specified
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC. ACCORDING TO PART
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE, FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBILE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH S10510 PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY X XXX
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

5. GENERAL REQUIREMENTS:
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC ACCORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

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3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY 
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS
NOTES: UNLESS OTHERWISE SPECIFIED.

1.1 POWDER COAT SPEC ACcORDING TO PART BARE
1.2 BREAK ALL CORNERS AND SHARP EDGES

2. QUALITY ASSURANCE REQUIREMENTS:
2.1 THE SUPPLIER MUST MAINTAIN STATISTICAL PROCESS CONTROL (SPC) OR 100% INSPECTION ON CRITICAL PARAMETERS DURING PRODUCTION.
2.2 FIRST ARTICLE: FIRST ARTICLE VERIFICATION IS REQUIRED PRIOR TO INITIAL TOOL APPROVAL OR APPROVAL OF A TOOL CHANGE.

3. MARKING:
3.1 PART NUMBER AND CURRENT REVISION LEVEL SHALL BE STAMPED IN CONTRASTING INDELIBLE INK AT LOCATION SHOWN.
3.2 IDENTIFY PARTS THAT CANNOT BE STAMPED WITH 70031: PART NUMBER AND REVISION LEVEL BY BAG AND/OR TAG METHOD.

4. GENERAL REQUIREMENTS:
4.1 CRITICAL DIMENSIONS ARE DENOTED BY \[ XXX \]
4.2 PART DIMENSIONED PER ANSI Y14.100-2000 STANDARDS

ARCHITECTURAL TESTING, INC.
TEST SAMPLE COMPLIES WITH THESE DETAILS
PROPELLERS ARE NAMED

D 8050        JUL 11 2014

REPORT #        TECH

UNLESS OTHERWISE SPECIFIED:

TOLERANCES ANGULAR: ±0.5° INCH: ±0.005 MILLIMETER: ±0.01

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOLATUBE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOLATUBE IS PROHIBITED.

M74 DS DOME RETAINER CLIP

MATERIAL: 490060

DRAWN BY: STEVENS          DATE 15 MAR 14

CHECKED BY:                APPROVED BY:               DATE

DO NOT SCALE DRAWING

REV.  RCD  DATE  #REVISED  #CHECKED  #APPROVED
A     2245-1  4/4/2014  700315  B  (3rd)  1/1  SHEET 1 OF 2

SOLATUBE
2250 CANYON RIDGE WAY
VISTA, CALIFORNIA 92081-5531
PH (760) 557-4400
ARCHITECTURAL TESTING, INC.
Test sample complete with these details
Deviations are noted

D 8 0 5 0  JUL 11 2014

NOTES:
1. K FACTOR: .425
2. INSIDE RADIUS: .095".
3. BENDS ARE 90 DEG.

SECTION A-A

M74 DS DOME RETAINER CLIP

SIZE | DWG. NO. | REV.
-----|----------|-----
B    | 700315   | A   

SCALE: 1:1
SHEET 2 OF 2