# ICC-ES PMG Product Certificate

**PMG-1551**

*Effective Date: September 2024*

*This listing is subject to re-examination in one year.*

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CSI: DIVISION: 22 00 00 — PLUMBING
Section: 22 05 29 — Hangers and Supports for Plumbing Piping and Equipment

DIVISION: 23 00 00 — HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
Section: 23 05 29 — Hangers and Supports for HVAC Piping and Equipment

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Hangers for Pipe, Duct and Conduit Supports

Listee: CEAS Attachments / ISAT Total Support – Divisions of Tomarco Contractor Specialties
14848 Northam Street
La Mirada, CA 90638
www.CEASattachments.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Mechanical Code®* (IMC)
2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code®* (IPC)
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Mechanical Code®* (UMC)*
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code®* (UPC)*
2022, 2019, 2016, 2013 and 2010 *California Plumbing Code* (CPC)
2022, 2019, 2016, 2013 and 2010 *California Mechanical Code* (CMC)
2023, 2020 and 2017 *City of Los Angeles Plumbing Code*
2023, 2020 and 2017 *City of Los Angeles Mechanical Code*
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Compliance with the following standards:

MSS SP-58-2018, Pipe Hangers and Supports Materials, Design, Manufacture, Selection, Application, and Installation
ANSI/CAN/UL 203, Pipe Hanger Equipment for Fire Protection Service (11th Ed.)
UL 2239, Hardware for the Support of Conduit, Tubing and Cable (2nd Ed.)
ICC-ES PMG LC 1041 (February 2017) Listing Criteria for Pipe, Duct, Conduit Support and Hangers
IAPMO PS 95-2018e3, Drain, Waste, and Vent Hangers and Plastic Pipe Support Hooks
SMACNA HVAC Duct Construction Standards 4th edition, Chapter 5, Tables 5-1, 5-1M and 5-2

Identification:

The product or package must bear the manufacturer's name, model number, and the ICC-ES PMG logo.

The product and/or its associated packaging or documentation shall identify the maximum load rating.

Installation:

Hangers for Pipe, Duct and Conduit Supports recognized in this report shall be installed in accordance with manufacturer's published installation instructions and applicable codes.

Fastener options shall be in accordance with the manufacturer's recommendations.

Maximum load ratings shall be in accordance with this report.

Duct installation shall be in accordance with Figures 1-3 of this report and in accordance with Chapter 5 of the SMACNA HVAC Duct Construction Standards, 3rd Edition.

Hangers and supports for exposed cabling are outside the scope of this report and are certified under UL E240801.

Models:

**Table 1 – WEDGY MODELS**

| Part # | Connection Type | Cable Dia. | Max. Capacity |
|---|---|---|---|
| Fig 900[1,2,3,4,6] | Wedgy Loop Hanger | No. 2 (3/32") | ≤ 2" NPS[9] |
| | | No. 3 (1/8") | ≤ 3-1/2" NPS[9] |
| Fig 901[1,2,3,4,6] | Wedgy Clevis Hanger | No. 2 (3/32") | ≤ 2" NPS[9] |
| | | No. 3 (1/8") | ≤ 3-1/2" NPS[9] |
| Fig 902[1,2,3,4,6] | Wedgy J-Hanger | No. 2 (3/32") | ≤ 2" NPS[9] |
| | | No. 3 (1/8") | ≤ 3-1/2" NPS[9] |
| WEDGY12[4,5] | Adjustable Device for #1 Cable | No. 1 (1/16") | 77 Lbs. |
| WEDGY12[1,2,3,4,5,7] | Adjustable Device for #2 Cable | No. 2 (3/32") | 158 Lbs. |
| WEDGY23[1,2,3,4,5,7] | Adjustable Device for #2 and #3 Cable | No. 2 (3/32") | 158 Lbs. |
| | | No. 3 (1/8") | 314 Lbs. |
| SW2[1,2,3,4,5,7] | Single Wedgy into 16g CRC | No. 2 (3/32") | 150 Lbs. |
| SW3[1,2,3,4,5,7] | | No. 3 (1/8") | 150 Lbs. |
| SW2[1,2,3,4,5,7] | Pressed into 12g Strut | No. 2 (3/32") | 163 Lbs. |
| SW3[1,2,3,4,5,7] | | No. 3 (1/8") | 300 Lbs. |
| SWP2[1,2,3,4,5,7] | Slotted 12g Strut | No. 2 (3/32") | 163 Lbs. |
| SWP3[1,2,3,4,5,7] | | No. 3 (1/8") | 289 Lbs. |
| DSCN[5,8] | Lower Connection | No. 1 (1/16") | 77 Lbs. |
| | | No. 2 (3/32") | 173 Lbs. |
| | | No. 3 (1/8") | 173 Lbs. |
| | Top Connection | No. 1 (1/16") | 77 Lbs. |
| | | No. 2 (3/32") | 103 Lbs. |
| | | No. 3 (1/8") | 103 Lbs. |
| DSCL2N[5,8] | Lower Connection | No. 2 (3/32") | 173 Lbs. |
| DSCL3N[5,8] | | No. 3 (1/8") | 173 Lbs. |
| DSCU2N[5,8] | Top Connection | No. 2 (3/32") | 103 Lbs. |
| DSCU3N[5,8] | | No. 3 (1/8") | 103 Lbs. |

*Notes: All Models listed in this table are compliant with ICC LC 1041. Maximum load rating based on all components in the system (cable and connection type)*
*1 - Compliant with ANSI/MSS SP-58*
*2 - Compliant with UL 203*
*3 - Compliant with IAPMO PS-95*
*4 - Compliant with UL 2239*
*5 - SMACNA verified as support alternative. See TYPICAL HVAC DUCT INSTALLATION DETAILS included in this document for limitations.*
*6 - Connection to structure must meet the load requirements set forth in Table 2 of this report.*
*7 – UL 203 and ANSI/MSS SP-58 compliant only when used for trapeze installations or "Multiple Supports." (See ANSI/MSS SP-58 Sect. 7.3 for additional information)*
*8 - Device capacities shown are into a minimum 24-gauge sheet metal with 4ea #10 HWH screws.*
*9 - Sizes referenced are for pipe only. Hanger sizes may be increased to accommodate insulation.*

**Table 2 – DESIGN LOAD RATINGS FOR PIPE SIZES[1]**

| Pipe Diameter | Min. Design Load Ratings[1] |
|---|---|
| 3/8" - 2-1/2" NPS | 150 Lbs. |
| 3" NPS | 200 Lbs. |
| 3-1/2" NPS | 210 Lbs. |

*Note 1 - Per ANSI/MSS SP-58, the values shown in this table apply to the entire assembly including pipe attachment, rod, fixtures, and building attachment. (See ANSI/MSS SP-58 - Table 1)*

**Table 3 – ANGLE LOAD RATING[1]**

| Part # | Connection Type | Cable Dia. | Maximum Load an at angle from vertical (lbs.) | | | | |
|---|---|---|---|---|---|---|---|
| | | | 0° | 15° | 30° | 45° | 60° |
| Fig 900 | Wedgy Loop Hanger | No. 2 (3/32") | 163 Lbs. | 156 Lbs. | 140 Lbs. | 114 Lbs. | 82 Lbs. |
| | | No. 3 (1/8") | 289 Lbs. | 277 Lbs. | 249 Lbs. | 202 Lbs. | 145 Lbs. |
| Fig 901 | Wedgy Clevis Hanger | No. 2 (3/32") | 163 Lbs. | 156 Lbs. | 140 Lbs. | 114 Lbs. | 82 Lbs. |
| | | No. 3 (1/8") | 289 Lbs. | 277 Lbs. | 249 Lbs. | 202 Lbs. | 145 Lbs. |
| Fig 902 | Wedgy J-Hanger | No. 2 (3/32") | 163 Lbs. | 156 Lbs. | 140 Lbs. | 114 Lbs. | 82 Lbs. |
| | | No. 3 (1/8") | 289 Lbs. | 277 Lbs. | 249 Lbs. | 202 Lbs. | 145 Lbs. |
| WEDGY12 | Adjustable Device for #1 and #2 Cable | No. 1 (1/16") | 77 Lbs. | 74 Lbs. | 66 Lbs. | 54 Lbs. | 39 Lbs. |
| | | No. 2 (3/32") | 158 Lbs. | 152 Lbs. | 136 Lbs. | 111 Lbs. | 79 Lbs. |
| WEDGY23 | Adjustable Device for #2 and #3 Cable | No. 2 (3/32") | 158 Lbs. | 152 Lbs. | 136 Lbs. | 111 Lbs. | 79 Lbs. |
| | | No. 3 (1/8") | 314 Lbs. | 301 Lbs. | 270 Lbs. | 220 Lbs. | 157 Lbs. |
| SW2 | Pressed into 16g CRC | No. 2 (3/32") | 150 Lbs. | 144 Lbs. | 129 Lbs. | 105 Lbs. | 75 Lbs. |
| SW3 | | No. 3 (1/8") | 150 Lbs. | 144 Lbs. | 129 Lbs. | 105 Lbs. | 75 Lbs. |
| SW2 | Pressed into 12g Strut | No. 2 (3/32") | 163 Lbs. | 156 Lbs. | 140 Lbs. | 114 Lbs. | 82 Lbs. |
| SW3 | | No. 3 (1/8") | 300 Lbs. | 288 Lbs. | 258 Lbs. | 210 Lbs. | 150 Lbs. |
| SWP2 | Slotted 12g Strut | No. 2 (3/32") | 163 Lbs. | 156 Lbs. | 140 Lbs. | 114 Lbs. | 82 Lbs. |
| SWP3 | | No. 3 (1/8") | 289 Lbs. | 277 Lbs. | 249 Lbs. | 202 Lbs. | 145 Lbs. |
| DSCN | Lower Connection | No. 1 (1/16") | 77 Lbs. | 74 Lbs. | 66 Lbs. | 54 Lbs. | 39 Lbs. |
| | | No. 2 (3/32") | 173 Lbs. | 166 Lbs. | 149 Lbs. | 121 Lbs. | 87 Lbs. |
| | | No. 3 (1/8") | 173 Lbs. | 166 Lbs. | 149 Lbs. | 121 Lbs. | 87 Lbs. |
| | Top Connection | No. 1 (1/16") | 77 Lbs. | 74 Lbs. | 66 Lbs. | 54 Lbs. | 39 Lbs. |
| | | No. 2 (3/32") | 103 Lbs. | 99 Lbs. | 89 Lbs. | 72 Lbs. | 52 Lbs. |
| | | No. 3 (1/8") | 103 Lbs. | 99 Lbs. | 89 Lbs. | 72 Lbs. | 52 Lbs. |
| DSCL2N | Lower Connection | No. 2 (3/32") | 173 Lbs. | 166 Lbs. | 149 Lbs. | 121 Lbs. | 87 Lbs. |
| DSCL3N | | No. 3 (1/8") | 173 Lbs. | 166 Lbs. | 149 Lbs. | 121 Lbs. | 87 Lbs. |
| DSCU2N | Top Connection | No. 2 (3/32") | 103 Lbs. | 99 Lbs. | 89 Lbs. | 72 Lbs. | 52 Lbs. |
| DSCU3N | | No. 3 (1/8") | 103 Lbs. | 99 Lbs. | 89 Lbs. | 72 Lbs. | 52 Lbs. |

*Note 1 – For hanging cable suspended at angle, the angle between the cable and vertical position shall not exceed 60 degrees. When installed outside of vertical, the load capacity of the overall suspension is reduced as shown in table 3.*

## TYPICAL HVAC DUCT INSTALLATION DETAILS[1]

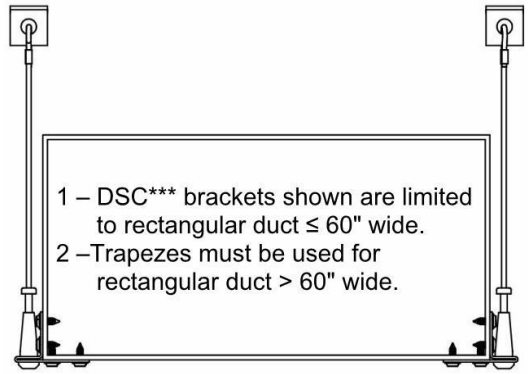



**FIGURE 1**

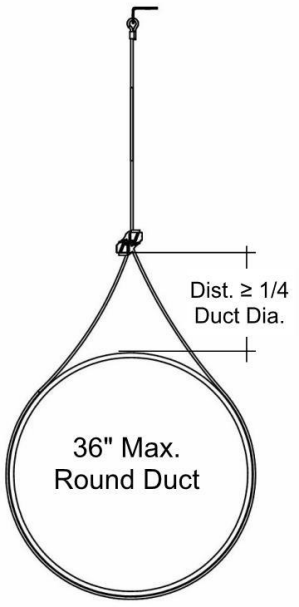



**FIGURE 2**

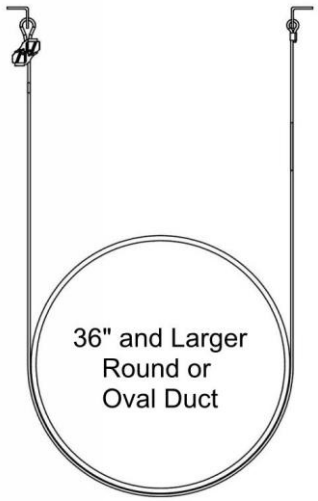



**FIGURE 3**

*Note 1 - Details shown per SMACNA DCS Ch. 5 Figure 5-5*

## TYPICAL SINGLE HUNG PIPE INSTALLATION DETAILS[1]

Fig 900
Wedgy Loop Hanger

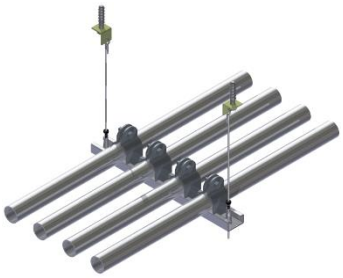
**FIGURE 4**

Fig 901
Wedgy Clevis Hanger

**FIGURE 5**

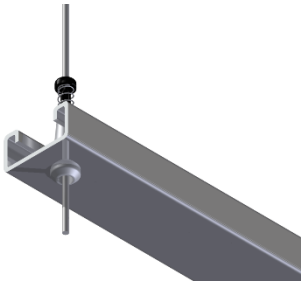
Fig 902
Wedgy J-Hanger

**FIGURE 6**



Typical Trapeze "Multiple Support"

**FIGURE 7**



Typical SW2 or SW3 Installation

**FIGURE 8**

Typical SWP2 or SWP3 Installation

**FIGURE 9**

*Note 1 - Details shown are compliant with ICC LC 1041, ANSI/MSS SP-58, UL 203, IAPMO PS-95 and UL 2239. Dimensions and Connections to structure will vary based on project requirements. Refer to Tables 1 and 2 for capacities and limitations of use.*

Conditions of listing:

1. Hangers for Pipe, Duct and Conduit Supports recognized in this report shall be installed in accordance with manufacturer's published installation instructions and applicable codes.
2. Hangers and supports for exposed cabling are outside the scope of this report and are certified under UL E240801.
3. Hangers for Pipe, Duct and Conduit Supports recognized in this report are under a quality control system with annual surveillance inspection with ICC-ES.