

PIPE SUPPORTS & HANGERS

Twist Clamp for pipework Submission Information



The universal Twist Clamps are used in conjunction with Pipe Brackets for quick and easy support of all types of pipework within mechanical and plumbing services.

FUNCTION / APPLICATION

FUNCTION - The installation and securing of pipework in an indoor stationary setting.

APPLICATION - Used for hanging and securing pipework from 1/2" copper to 3" steel, with or without insulation.

Retractable, removable sleeve is pre-fitted to cable to prevent galvanic corrosion.

LOAD RATING - 100 lbs SWL with 5:1 safety factor.

APPROVALS - Designed and manufactured in conformance with Manufacturers Society MSS-SP-58 and IAPMO/ANSI UPC 1-2009. See ICC-ES Listing No. PMG-1320 at www.icc-es.org/pmg.



PRODUCT SPECIFICATION



- Body: Type ZA2 Zinc
- Wedge: Sintered steel hardened to Min. 56 Rockwell
- Spring: Stainless steel (type 302)
- End Cap: UV stabilized homopolymer Polypropylene
- Working temperature: -40°F to +230°F
- Noise Reduction in dB (g): 10.2
- Reduction in peak vibration: 69.3%

	A (in)	B (in)	C (in)	D (in)
GC2-T	2 1/16"	1 5/32"	1 5/32"	2"

CABLE SPECIFICATION

- 5/64" cable diameter
- 16" (24" for use with Calsil / Armafix insulation)
- Custom lengths can be made on request
- Min. breaking load (lbs) 500
- Max. safe working load (lbs) 100
- 7x7 cable construction
- Tensile strength (lbs/sq. in.) 256,700

INSULATION SPECIFICATION

Rubber Pad

- Material: TPE Black Compound
- Type 108004
- Working temperature: -40°F to +230°F
- Melt temperature: +356°F
- Hardness: 60 to 68 Shore A

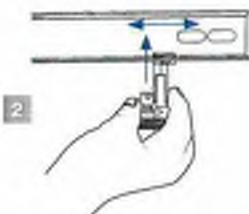
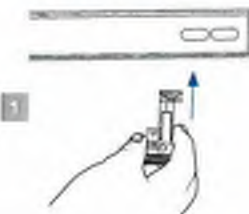


Retractable Sleeve

- Polyamide 66 (Nylon)
- Continuous working temperature: -76°F to +320°F
- Melt temperature: +491°F
- Retracts up to 8 times its normal length
- Suitable for pipe outer diameter from 1/8" to 3 1/2" (6" with 24" cable)
- Smoke toxicity conforms to CEI 754-1 and CEI 754-2
- Fire reaction conforms to ISO 3795
- Resists chemical, cleaning solvents
- Self-extinguishing
- ROHS compliant



INSTALLATION



Grippler's policy is one of continuous development and innovation. We therefore reserve the right to alter specifications, etc. without notice.

BUS-SUB-MEP-US-PB&TC
www.grippler.com



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Tel +1 866 474 7753 Fax +1 800 654 0689 email usinfo@grippler.com

The Quick Twist Compact Clamps are used in conjunction with Low Profile Brackets for quick and easy support of all types of pipework within mechanical and plumbing services.

FUNCTION / APPLICATION

FUNCTION - The installation and securing of pipework in an indoor stationary setting.

APPLICATION - Used for hanging and securing pipework from 15 mm Copper (OD15) to 3" / DN80 Steel (OD89) with or without insulation.

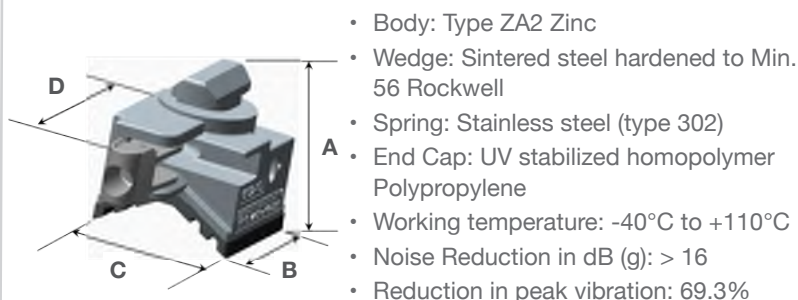
Retractable, removable sleeve is pre-fitted to cable to prevent galvanic corrosion.

LOAD RATING - 45 kg SWL, with a 5:1 safety factor

APPROVALS - Load tested by Element Materials Technology (ISO 17025) and witnessed by Lloyds Register QA



PRODUCT SPECIFICATION



	A (mm)	B (mm)	C (mm)	D (mm)
GC2-C	32.6	29.4	29.9	56.1

INSULATION SPECIFICATION

Rubber Pad

- Material: TPE Black Compound
- Type 108004
- Working temperature: -40°C to +110°C
- Melt temperature: +180°C
- Hardness: 40 Shore A



Retractable Sleeve

- Polyamide 66 (Nylon)
- Continuous working temperature: -60°C to +160°C
- Melt temperature: +255°C
- Retracts up to 8 times its normal length
- Suitable for pipe outer diameter from 10 mm to 89 mm (150 mm with 600 mm cable)
- Smoke toxicity conforms to CEI 754-1 and CEI 754-2
- Fire reaction conforms to ISO 3795
- Resists chemical, cleaning solvents
- Self-extinguishing
- ROHS compliant



CABLE SPECIFICATION

- 2 mm cable diameter
- 400 mm (600 mm for use with Kooltherm / Armafix insulation)
- Custom lengths can be made on request
- Min. breaking load 225 kg
- Max. safe working load 45 kg
- 7x7 cable construction
- Tensile strength 1770 N/mm²
- Conforms to EN 12385-4

INSTALLATION



GripplE's policy is one of continuous development and innovation. We therefore reserve the right to alter specifications, etc. without notice.

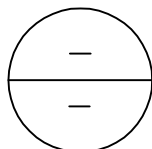
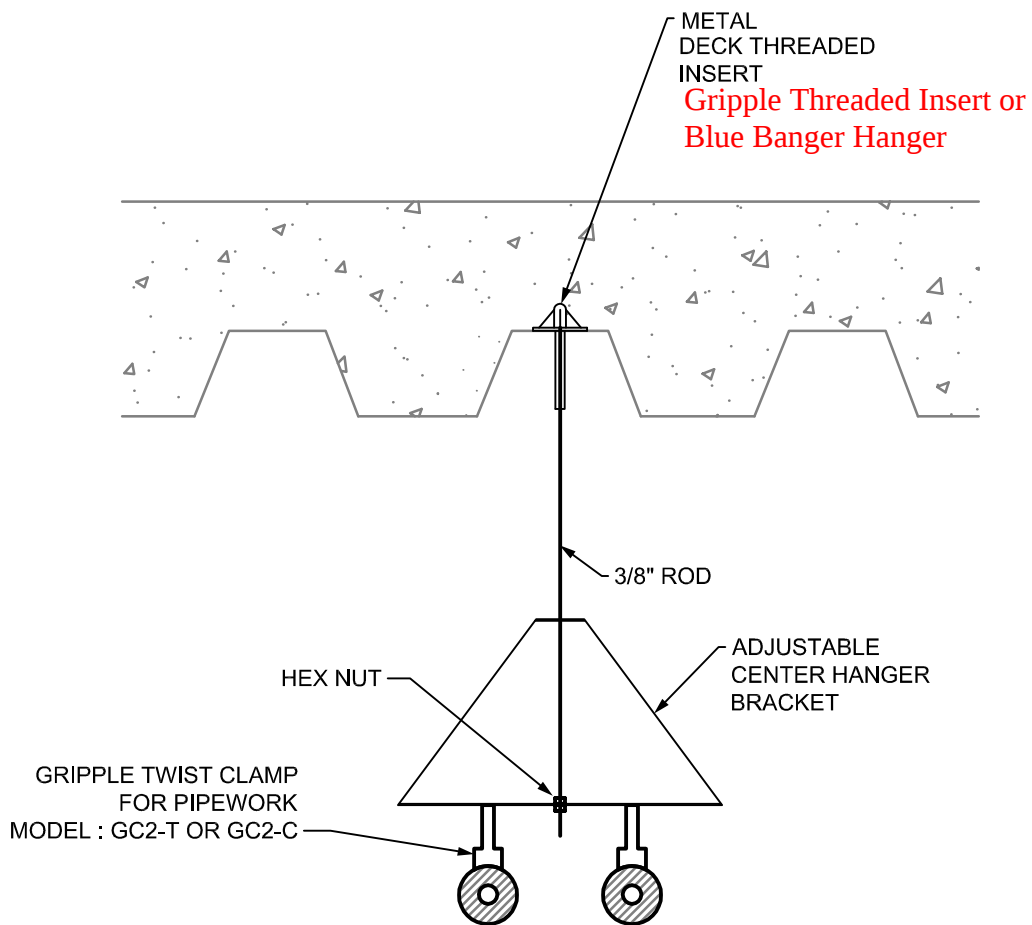
BUS-SUB-MEP-ENG-QTCC & LPB

www.gripplE.com



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Tel 0800 018 4264 Fax 0114 275 1155 email info@gripplE.com

PIPE SUPPORTS & HANGERS



PIPE RACK DETAIL

SCALE: NONE

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 26, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark Schaefer

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	230600M02	(Submittal No.'s) (R&B CxSRC)
		(Cannon #230600-005) - (Paric #15051-0193) - (WES #607)
		• Pipe Hangers & Supports

Remarks:

c: **Kelvin Patel**
Kpatel@cannondesign.com

☒ **Furnish as Submitted**

☐ Furnish as Noted

☐ Rejected

☐ Revise & Resubmit

☐ Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WTASHOP - Webster ISB - 23 0600-005

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 8/19/2016 1:04 PM
Subject: Webster ISB - 23 0600-005
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Attachments: 230600-005 Piping Hangers and Supports.pdf

Attached for review.

Melissa Pirtle
Construction Admin

CANNONDESIGN

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St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797) • M
cannondesign.com



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0193

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/18/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Piping Hangers and Supports

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		230600-005	1		08/18/2016	Piping Hangers and Supports	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation

77 West Port Plaza #250

St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 8/17/16

JOB #: 5768

RE: Webster ISB

We are sending you

☒

Shop drawings

☐ Attached

☐ Prints

☐ Under separate cover

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☐ Other

COPIES	DATE	NO.	DESCRIPTION
1	8/17/16	230600-2.5	Piping Hangers and Supports

These are transmitted as checked below:

☐ For signature

☐ For your use

☐ As requested

☐ For bids due

☒

For review and comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ Prints returned after loan to us

☐ Other

☐ Resubmit

☒ Submit

☐ Return

☐ copies for approval

☐ copies for distribution

☐ corrected prints

Remarks: Please return by 8/24/16

COPY TO: file

SIGNED:

Alex Chambers



Mechanical

Webster University ISB Webster Groves, MO

Submittal #:

230600-2.5

Submittal Description:

Piping Hangers and Supports

Return By:

8/24/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:			
DESIGNER:		ENGINEER:	
☒	NO EXCEPTION TAKEN	☐	MAKE CORRECTIONS NOTED
☐	SUBMIT SPECIFIED ITEM	☐	REVISE AND RESUBMIT
☐	REJECTED	☐	
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.			
		Job #:	5768
		Date:	8/17/16
		By:	ARC