MADE AND MELTED IN AMERICA

DuraGuard™ Rigid Metal Conduit

Wheatland Tube
JMC STEEL GROUP

DuraGuard™ Rigid Metal Conduit:

The ultimate protection

DuraGuard rigid metal conduit provides the best circuit protection for conductors and cables installed in compliance with the National Electric Code (NEC). Its thick walls guard against physical abuse, and its hot-dip galvanized OD and ID provide the durability to withstand the most corrosive environments.

10' and 20' lengths

Couplings produced in-house

Conduit threaded on both ends

Coupling supplied on one end, color-coded thread protector on other end

Accurate circular cross section with uniform wall thickness

Interior surface free from defects injurious to conductors

Hot-dip galvanized OD and ID

Contains recycled steel

Designed for Quality and Efficiency
At Wheatland Tube, we hot-form the most common sizes of DuraGuard, creating a continuous weld and uniform grain for ensured strength. These characteristics also allow for easy threading, bending and cutting, saving time on the job. Our quality control programs ensure an accurate circular cross section, uniform wall thickness and defect-free interior surface on every product.

Green and Sustainable
DuraGuard contains recycled steel content of various amounts, depending on the steel manufacturing process, and provides decades of reliable service if properly maintained. Conductors may be easily removed and new conductors or cables inserted. Future circuits may be added in the same conduit, as permitted by the code. At the end of its life, the steel may be fully recycled.

Tested and Certified for Safety
DuraGuard is Listed to UL Standard for Safety for Electrical Rigid Metal Conduit — Steel, UL-6. It is manufactured in accordance with ANSI® C80.1, UL-6 and federal specifications WW-C-581. The pitch of the threads conforms to the American National Standard for Pipe Threads, General Purpose (Inch), ANSI/ASME B1.20.1. The taper of threads is ¾ inch per foot (1 in 16). DuraGuard provides protection from severe physical damage, the highest level recognized by the code, for cables and conductors. The conduit reduces exposure to electromagnetic fields, shields against harmful electromagnetic interference and is recognized as an equipment-grounding conductor by NFPA 70: National Electrical Code 250.118 (2). Email info@wheatland.com for a copy of Georgia Tech's Grounding and ElectroMagnetic Interference (GEMI) Analysis software.

Also available in 20'

DURAGUARD WEIGHTS AND DIMENSIONS (10' LENGTHS)

TRADE SIZE	METRIC DESIGNATOR	THREADS/INCH	WEIGHT PER 100 FT.		NOMINAL OUTSIDE DIAMETER		NOMINAL INSIDE DIAMETER*	
			lbs.	kg	in.	mm	in.	mm
½	16	14	82	37.2	0.840	21.34	0.632	16.05
¾	21	14	109	49.4	1.050	26.67	0.836	21.23
1	27	11½	161	73.0	1.315	33.40	1.063	27.00
1¼	35	11½	218	98.9	1.660	42.16	1.394	35.41
1½	41	11½	263	119.3	1.900	48.26	1.624	41.25
2	53	11½	350	158.8	2.375	60.33	2.083	52.91
2½	63	8	559	253.6	2.875	73.03	2.489	63.22
3	78	8	727	329.8	3.500	88.90	3.090	78.49
3½	91	8	880	399.2	4.000	101.60	3.570	90.68
4	103	8	1030	467.2	4.500	114.30	4.050	102.87
5	129	8	1400	635.0	5.563	141.30	5.073	128.85
6	155	8	1840	834.6	6.625	168.28	6.093	154.76

Applicable tolerances: Outside Diameter ½–1½: ±0.015" (16–41: ±0.38 mm), 2–6: (53–155) ± 1%.

PACKAGING (10' LENGTHS)

TRADE SIZE	METRIC DESIGNATOR	THREAD PROTECTOR COLOR	QUANTITY/BUNDLE		QUANTITY/LIFT*				WEIGHT/LIFT		VOLUME/LIFT	
			ft.	m	Pieces	Bundles	ft.	m	lbs.	kg	cu. ft.	cu. m
½	16	Black	100	30.5	—	25	2500	762	2050	929.9	19.4	0.6
¾	21	Red	50	15.2	—	40	2000	610	2180	988.8	26.7	0.8
1	27	Blue	50	15.2	—	25	1250	381	2013	913.1	22.2	0.6
1¼	35	Red	—	—	90	—	900	274	1962	889.9	28.3	0.8
1½	41	Black	—	—	80	—	800	244	2104	954.4	27.2	0.8
2	53	Blue	—	—	60	—	600	183	2100	952.5	36.1	1.0
2½	63	Black	—	—	37	—	370	113	2068	938.0	35.0	1.0
3	78	Blue	—	—	30	—	300	91	2181	989.3	41.5	1.2
3½	91	Black	—	—	25	—	250	76	2200	997.9	43.3	1.2
4	103	Blue	—	—	20	—	200	61	2060	934.4	48.6	1.4
5	129	Blue	—	—	15	—	150	46	2100	952.5	52.1	1.5
6	155	Blue	—	—	10	—	100	30	1840	834.6	43.8	1.2

** The quantity per lift conforms to the National Electrical Manufacturers Association Standards Publication RN-2 Packaging of Master Bundles for Steel Rigid Metal Conduit, Intermediate Metal Conduit (IMC) and Electrical Metallic Tubing (EMT).*
Pack quantities for Canadian distribution does not comply with NEMA RN-2.

PACKAGING (20' LENGTHS)

TRADE SIZE	METRIC DESIGNATOR	THREAD PROTECTOR COLOR	QUANTITY/LIFT			WEIGHT/LIFT		VOLUME/LIFT	
			Pieces	ft.	m	lbs.	kg	cu. ft.	cu. m
½	16	Black	125	2500	762	2050	929.9	13.9	0.4
¾	21	Red	100	2000	610	2180	988.8	20.0	0.6
1	27	Blue	60	1200	366	1932	876.4	17.5	0.5
1¼	35	Red	45	900	274	1962	890.0	19.4	0.5
1½	41	Black	40	800	244	2104	954.4	18.7	0.5
2	53	Blue	30	600	183	2100	952.6	29.6	0.8
2½	63	Black	18	360	110	2012	912.6	23.4	0.7
3	78	Blue	15	300	91	2181	989.3	28.0	0.8
3½	91	Black	12	240	73	2112	958.0	32.2	0.9
4	103	Blue	10	200	61	2060	934.4	30.8	0.9
5	129	Blue	7	140	43	1960	889.1	35.0	1.0
6	155	Blue	5	100	30	1840	834.6	34.3	1.0

The length is nominal and subject to the tolerance of UL Standard for Safety for Electrical Rigid Metal Conduit—Steel, UL-6.

STEEL RMC
UL LISTED
NO. E32152

Wheatland Tube
JMC STEEL GROUP

Wheatland Tube
JMC STEEL GROUP

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JMC Steel Group
Pipe and Tube Solutions

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227 West Monroe Street
26th Floor
Chicago, IL 60606

312.275.1600
info@jmcsteel.com
jmcsteel.com

About Wheatland Tube Electrical Conduit and Fittings

Wheatland Tube produces a broad spectrum of steel electrical conduit, including intermediate metal conduit (IMC), electrical metallic tubing (EMT) and DuraGuard™ hot-dip galvanized steel rigid metal conduit. We also supply a full line of steel and aluminum elbows and nipples, steel couplings, and rigid aluminum conduit and couplings.

For more information, contact Wheatland Tube at:
800.257.8182 or **info@wheatland.com**
Or, visit our website at wheatland.com

The Strength to **Deliver**

SRMC-081914

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 29, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐ UPS ☐ Courier ☒ **Email**

Copies	No.	Description
1 PDF	261300E03	(Submittal No. 261300-003) – Raceways & Boxes

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 - 26 1300-003

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 6/20/2016 5:06 PM
Subject: Webster ISB - 26 1300-003
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...
Attachments: 261300-003 Raceways and Boxes.pdf

Attached for review.

Melissa Pirtle
Construction Admin
CANNONDESIGN
1100 Clark Ave
St. Louis, Missouri 63102
T 314.425.8797 • M
cannondesign.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

261300-003
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

261300
SPECIFICATION SECTION / PARAGRAPH

Guarantee Electrical
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◉ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◯ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

6/20/16
DATE

To be completed by Reviewer

26 1300-003
CANNON DESIGN SUBMITTAL NUMBER

6/21/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0097

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/20/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Raceways and Boxes

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		261300-003	1		06/20/2016	Raceways and Boxes	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

GUARANTEE
ELECTRICAL CONSTRUCTION

3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

Transmittal

To Paric Corporation

Date 6/16/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-003

We are sending you:

- X Attached
- ___ Under separate cover, the following:
- ___ Preliminary Drawings
- ___ Samples
- ___ Construction Drawings
- ___ Copy of Letter
- ___ Specifications
- ___ Other

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Raceways & Boxes - Spec
			Section 26 13 00

These are transmitted as checked:

- X For Your Review & Comment
- X For Approval
- ___ For Your File
- ___ As Requested
- ___ Approved As Noted
- ___ Returned For Corrections
- ___ Approved As Submitted
- ___

Copy: Transmittal Enclosure

___ ___

___ ___

___ ___

Rick Branstetter

Signed: Rick Branstetter, Project Manager