



Wiremold

AL4320 Series Isoduct™ Aluminum Raceway

Prewired Two-Piece, Dual Channel Raceway



Wiremold Isoduct™ AL4320 Series Raceway is a two-channel, dual-cover, highly aesthetic, raceway solution designed to provide access to communication cabling and electrical wiring systems. Manufactured in our factory, this raceway can be electrically prewired and is available with either connectivity activation inserts mounted in the raceway, or with pre-punched activation openings. Finished prewired raceway is cut to job site lengths, labeled to meet specified job site requirements, and then shipped ready to install.

Prewired AL4320 Series Raceway is designed to reduced on-site installation time and costs and to meet the installation requirements of UTP, fiber optic and electrical wiring.

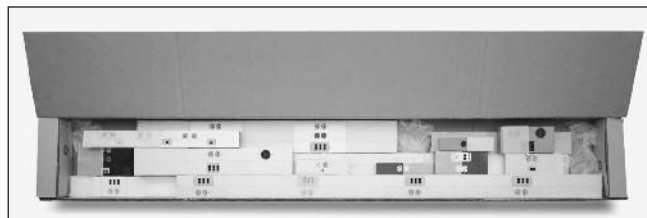


The two-channel, dual-cover AL4320 Series Aluminum Raceway accommodates low-voltage and power devices in the same raceway.

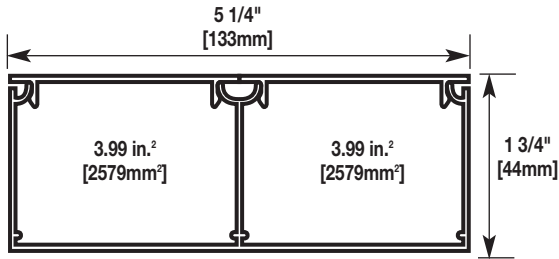
FEATURES & BENEFITS

- **Two-Channel, Dual-Cover, 1 3/4" [44mm] deep aluminum raceway.** Accommodates high density communication cabling for networks and phone systems.
- **Snap fit cover.** Provides maximum flexibility for adding or relocating circuits, data openings or electrical devices. Side removal slots limit visibility of any accidental marring during cover removal.
- **Durable, architectural clear anodized finish.** Wipes clean and resists corrosion. Custom colors available upon request. Consult factory for more information.
- **Accommodates standard electrical wiring devices.** Accommodates most installations including single outlets, duplex outlets, NEMA-Locking outlets, GFCI outlets, and Pass & Seymour surge protected outlets.
- **Electrical device identification with self-adhesive polyester labels or optional engraving.** No guesswork or time consuming tracing of circuits. Speeds circuit additions and renovations. (See Device and Raceway labeling Options)
- **Mitered standard fittings.** Provides a complete installation.
- **Increased productivity for the contractor.** Jobs can be packaged by area, floor, or building and shipped per job site requirements.
- **UL5 and ADA Compliant.** Raceway and fittings meet UL5 specifications and can be installed in conformance with ADA requirements.
- **Prewired connectors.** Available in 3-, 6- or 8-wire configurations. Ensures correct wiring every time, as well as ultra fast installations. 
- **UL Listed commercial outlet centers.** File E317375 Multioutlet assemblies rated to 20A maximum can be provided with listed cord and plug assemblies. These assemblies are optimal for mounting to semi-permanent structures such as shelving and rack displays found in many lab applications. 
- **UL and cUL Listed component raceways.** File E4376 Guide RJBT, Fittings: File E41751 Guide RJPR. Meets Article 386 of NEC and meets Section 12-600 of CEC.
- **UL and cUL Listed multioutlet assemblies.** File E15191 Guide PVGT, Fittings: File E41751 Guide RJPR. Meets Article 380 of NEC and meets Section 12-3032 of CEC.
- **Datacom connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point of use.

Prewired Raceway is prewired and packed to the job specifications at the factory before shipping to the jobsite.



AL4320 Series Prewired Aluminum Raceway Specifications



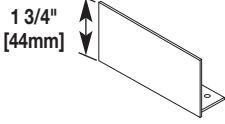
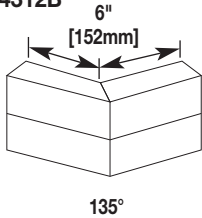
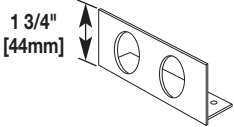
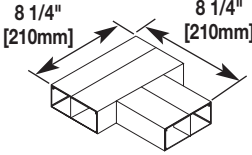
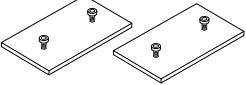
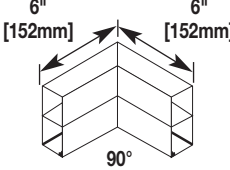
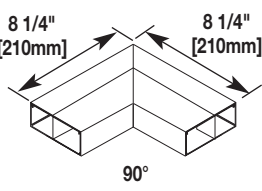
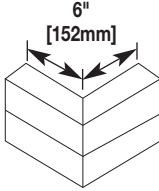
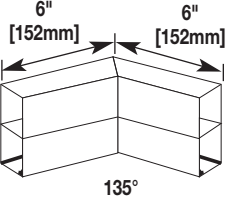
Material: 6063 T6 Aluminum Alloy

Wall Thickness: 0.078" [1.99mm]

Anodized Finish Thickness: 0.004" [0.10mm]

AL4320 raceway utilizes (2) AL3000 covers.

AL4320 Series Prewired Aluminum Raceway Fittings

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
AL4310B	Blank End Cap – Closes off open ends of AL4320 Series Raceway. 	AL4312B	45° External Mitered Elbow with Coupling – Makes 45° external turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings. 
AL4310B2	Entrance End Cap with two 1 1/16" Provisions – End Cap with two connections for 3/4" conduit. 	AL4315	Flat Tee with Coupling – Makes branch connections of two runs of AL4320 Series Raceway. Includes six (6) AL4301 Couplings. 
AL4301	Slide Coupling – Connects adjoining sections of AL4320 Series Raceway base. 	AL4317	Internal Mitered Elbow with Coupling – Makes 90° internal turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings. 
AL4311	90° Flat Mitered Elbow with Coupling – Makes 90° turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings. 	AL4318	External Mitered Elbow with Coupling – Makes 90° external turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings. 
AL4312A	45° Internal Mitered Elbow with Coupling – Makes 45° internal turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings. 		

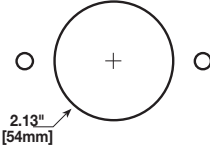
NOTE: Custom fittings are also available - contact factory for more information.

AL4320 Device Openings

Single Receptacle (30A & 50A Straight Blade)

5-30R 7-30R
5-50R 7-50R
6-30R 10-30R
6-50R 10-50R

Adapter box
required for
all receptacles



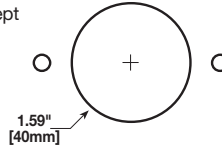
Duplex

5-15R L5-15R
5-20R L6-15R
6-15R L7-15R
6-20R



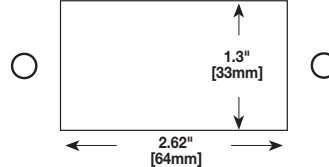
Single Receptacle (NEMA Locking Devices)

Accommodates All NEMA
Locking Devices except
L5-15R, L6-15R,
and L7-15R



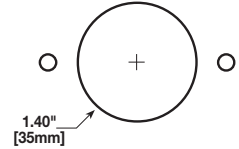
Rectangular Openings

Decorator Style
Rectangular GFCIs
Rectangular Surge
Protection Receptacles

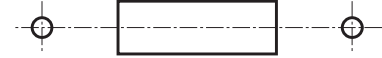


Single Receptacle (15A & 20A Straight Blade & Locking)

5-15R 15-20R
5-20R 18-20R
6-15R L5-15R
6-20R L6-15R
10-20R L7-15R
14-20R



Single-Gang Switch



AL4320 Device Compatibility

NEMA Locking Compatibility

All of the following NEMA locking devices will fit.

L5-15R	L6-15R	L7-15R	L8-20R	L10-20R	L12-20R	L14-20R	L16-20R	L18-20R	L20-20R	L22-20R
L5-20R	L6-20R	L7-20R	L8-30R	L10-30R	L12-30R	L14-30R	L16-30R	L18-30R	L20-30R	L22-30R
L5-30R	L6-30R	L7-30R	L9-20R	L11-20R	L13-20R	L15-20R	L17-20R	L19-20R	L21-20R	L23-20R
			L9-30R	L11-30R	L13-30R	L15-30R	L17-30R	L19-30R	L21-30R	L23-30R

NEMA Straight Blade Compatibility

5-15R	5-20R	5-30R	5-50R	6-20R	6-30R	6-50R	7-30R	7-50R	10-20R	10-30R	10-50R	14-20R	14-30R
Y	Y	1	1	Y	1	1	1	1	Y	1	1	Y	N
14-50R	14-60R	15-20R	15-30R	15-50R	15-60R	18-20R	18-60R	GFCI	SURGE				
N	N	Y	N	N	N	Y	N	Y	Y				

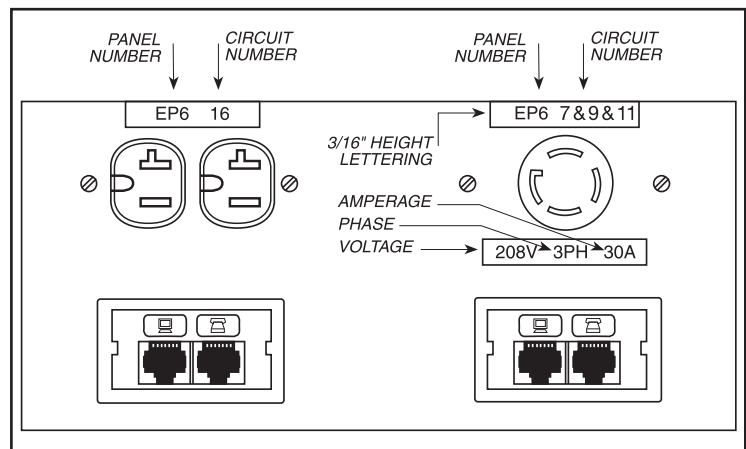
Y= will fit

N= will not fit

1. Requires adapter box.

Device and Raceway Labeling Detail for Prewired Applications

- Device labeling is available in the following materials:
 - Gray self-adhesive polyester label with black lettering (standard).
 - Other color self-adhesive polyester labels.
 - Engraving of covers with black lettering.
 - Engraved phenolic nameplates with adhesive backing.
 - Screw mounted engraved phenolic name plates.
- The back of the raceway is labeled with the raceway number and the room or area number(s).
- Data and power requirements can be switched with data on top and power on bottom.



AL4320 Wire Fill Capacity Charts

AL4320 Raceway Wire Fill Capacities for Data/Communication

CABLE/WIRE TYPE		O.D.		AL3000	AL4000	AL4320**	AL7320		ALDS4000
		Inches	[mm]	40%	40%	40%	NO BARRIER 40%	SINGLE 40%	40%
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat. 3	0.190	[4.8]	53	48	53	81	43	68
	4-pair, 24 AWG Cat. 5e	0.210	[5.3]	43	39	43	66	35	56
	4-pair, 24 AWG Cat. 6	0.250	[6.4]	31	28	31	47	25	40
	4-pair, 24 AWG Cat. 6a*	0.354	[9.0]	15	14	15	23	12	20
	25-pair, 24 AWG	0.360	[9.1]	15	13	15	23	12	19
COAXIAL	RG6/U	0.270	[6.9]	26	24	26	40	21	34
FIBER OPTIC	ZipCord	0.118 x 0.236	[3 x 6]	54	48	54	83	44	70
	Round 4 Strand Fiber	0.187	[4.7]	55	49	55	84	44	71
	Round 6 Strand Fiber	0.256	[6.5]	29	26	29	45	24	38

* Category 6 augmented (6a) cable for 10 gigabit ethernet – max allowed cable diameter per addenda No. 11 ANSI TIA/EIA 568-B.2.

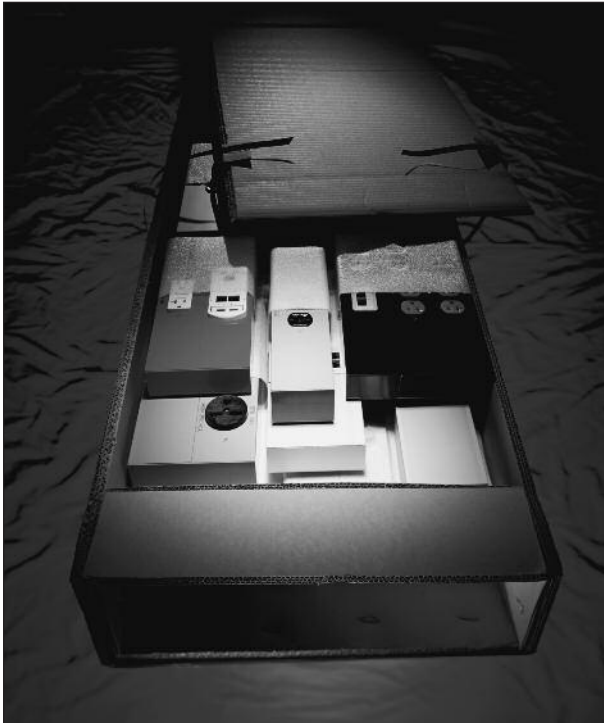
** Each compartment.

AL4320 Series Raceway Wire Fill Capacities for Power (40% Fill Factor)

WIRE SIZE THHN (STRANDED)		AL3000	AL4000*	AL4320*	Single	Dual*	ALDS4000*
POWER WIRING WITHOUT DEVICES	6 AWG	30	27	30	31	27	–
	8 AWG	41	37	42	42	37	53
	10 AWG	72	64	73	74	64	92
	12 AWG	114	102	115	117	102	146
POWER WIRING WITH GFCI DEVICES (2.04 sq. in.)	6 AWG	9	8	9	9	8	–
	8 AWG	13	11	13	13	11	27
	10 AWG	23	20	23	23	20	47
	12 AWG	37	31	37	37	31	75

NOTE: Wire fill rate for power wiring with GFCI devices represents actual capacity when prewired, which may be different than industry standard 40% fill rate calculation.

* Each compartment.



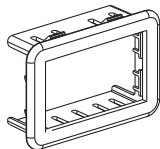
Wiremold Prewired Raceway reduces installation time, gets installers off the job faster, and eliminates the need for field cutting.

Contact your local Wiremold Representative or the factory for more information on prewired raceway and assistance in planning your next prewired installation. Our Prewired Raceway Team is ready to help.

Communication Adapters

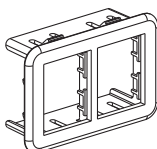
Ortronics

ABS2



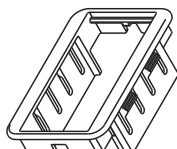
Accepts One
Series II Module

AB2TJ



Accepts Two
TracJack Modules

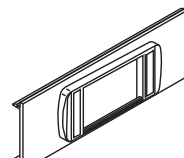
CM-2AB



Accepts One
Activate 2A Module

Pass & Seymour/Ortronics

Low Profile Adapter (LPB)



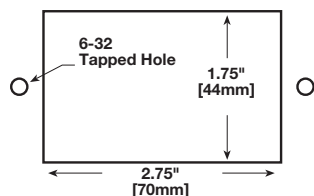
LPB – Accepts 3 Pass & Seymour Activate Inserts
LPB3S2 – Accepts 3 Ortronics Series II Inserts

NOTE: Custom openings are also available – consult factory for more information.

OPENINGS AVAILABLE FOR DATA LOCATIONS-CONTRACTOR TO VERIFY

AL4400 Communication Openings

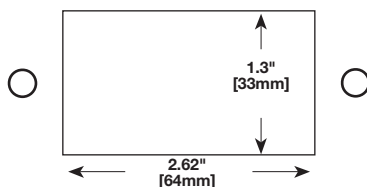
Wallplate Openings



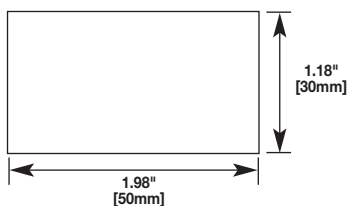
Duplex for Data



Rectangular Openings

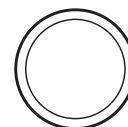


AB Adapter Openings

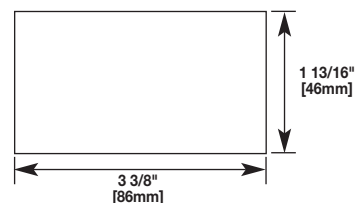


Grommet Openings

1/4" [6.4mm] Inner Diameter
1/2" [12.7mm] Inner Diameter
3/4" [19.1mm] Inner Diameter
Standard
1" [25mm] Inner Diameter



Low or High Profile Adapter Openings



NOTE: Custom openings are also available - consult factory for more information.

DATACOM CONNECTIVITY OPTIONS

Now you have a wide range of options for providing datacom connectivity into Wiremold/Legrand Pathways. They are:

- **Ortronics® TracJack® and Series II Modular Connectivity Solutions**
- **Pass & Seymour Activate™ Modular Inserts**
- **Open System Communication Modules**

Ortronics® Connectivity

TracJack® Individual Jack System

- Front-loading, snap-in design supports future moves adds and changes
- Inserts for voice, data, audio, and video
- Available Category 3, 5e, 6, USOC 6-position, and other media
- Flat or angled 45° exit configurations
- Choice of 13 colors and color matched to Wiremold Systems
- Universal T568A/B wiring format



Series II Front-Loading, Module System

- Module design features easy snap-in front-loading design
- Linear 110 punch down format for easy termination
- Inserts for voice, data, audio, and video
- Available Category 3, 5e, 6, USOC 6-position, and other media
- Available in flat or angled 45° exit configurations
- Color matched to Wiremold Systems

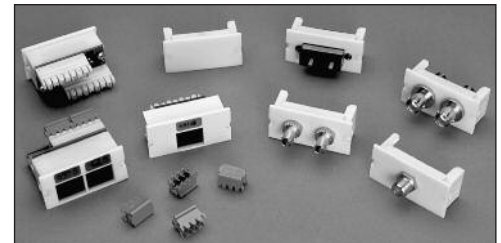


For detailed product selection refer to the Ortronics Catalog or visit www.ortronics.com.

Pass & Seymour Legrand Network Wiring

Activate™ Series Front-Loading Inserts

- Modular inserts for voice, data, audio and video applications
- Front-load, snap-in design
- Color and texture matched to Wiremold Systems
- Available Category 3, 5e, 6, as well as 6-position USOC
- Universal T568A/B wiring format



For detailed product selection refer to the Pass & Seymour Network Wiring Catalog or visit www.passandseymour.com.

Open Connectivity Solutions

Wiremold Open System Communications Modules

- Accommodate a wide range of manufacturers' communications outlets including keystone jacks, as well as proprietary solutions from Avaya (Systimax) and NORDX
- Modules insert into a wide range of Wiremold Systems
- Pre-punched faceplates accept common communication devices



NOTE: For more information on integrating connectivity into Wiremold Cable Management Systems contact the Wiremold Applications Engineering Team or your local Wiremold Sales Representative.



Wiremold

WIREMOLD

U.S. and International:

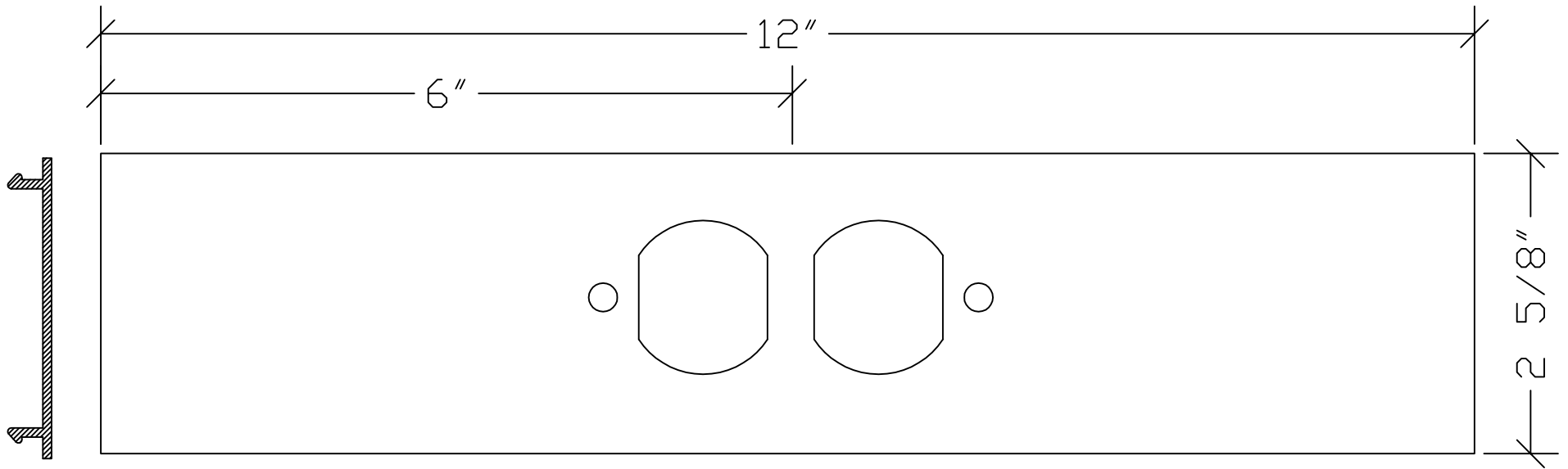
60 Woodlawn Street • West Hartford, CT 06110
1-800-621-0049 • FAX 860-232-2062 • Outside U.S. 860-233-6251

Canada:

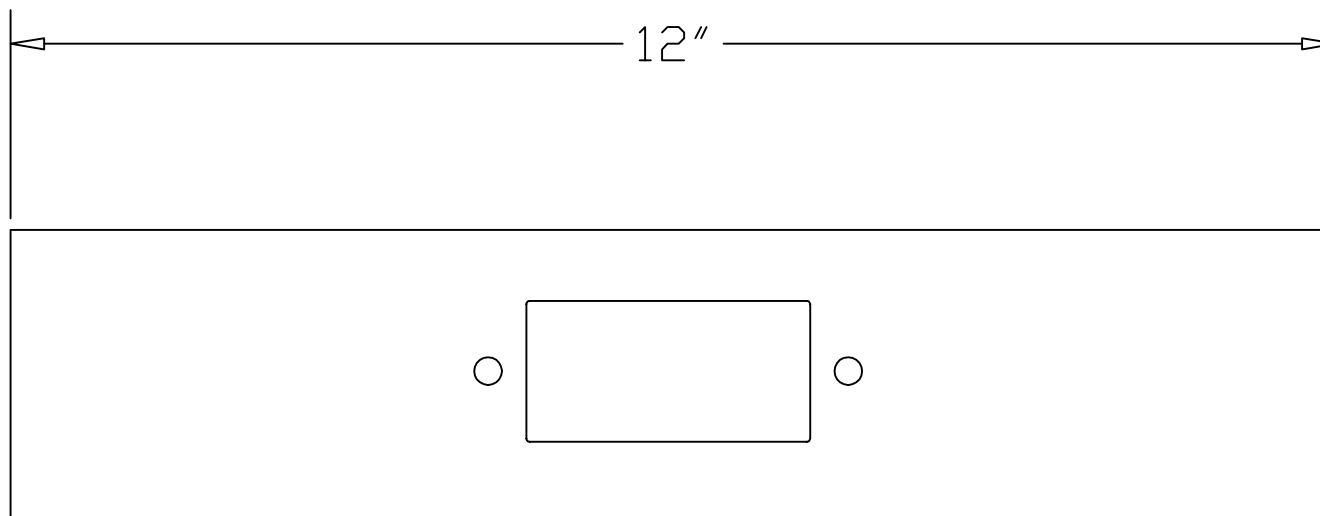
570 Applewood Crescent • Vaughan, Ontario L4K 4B4
1-800-723-5175 • FAX 905-738-9721

ED451R5 - Updated January 2010 - For latest specs visit www.wiremold.com

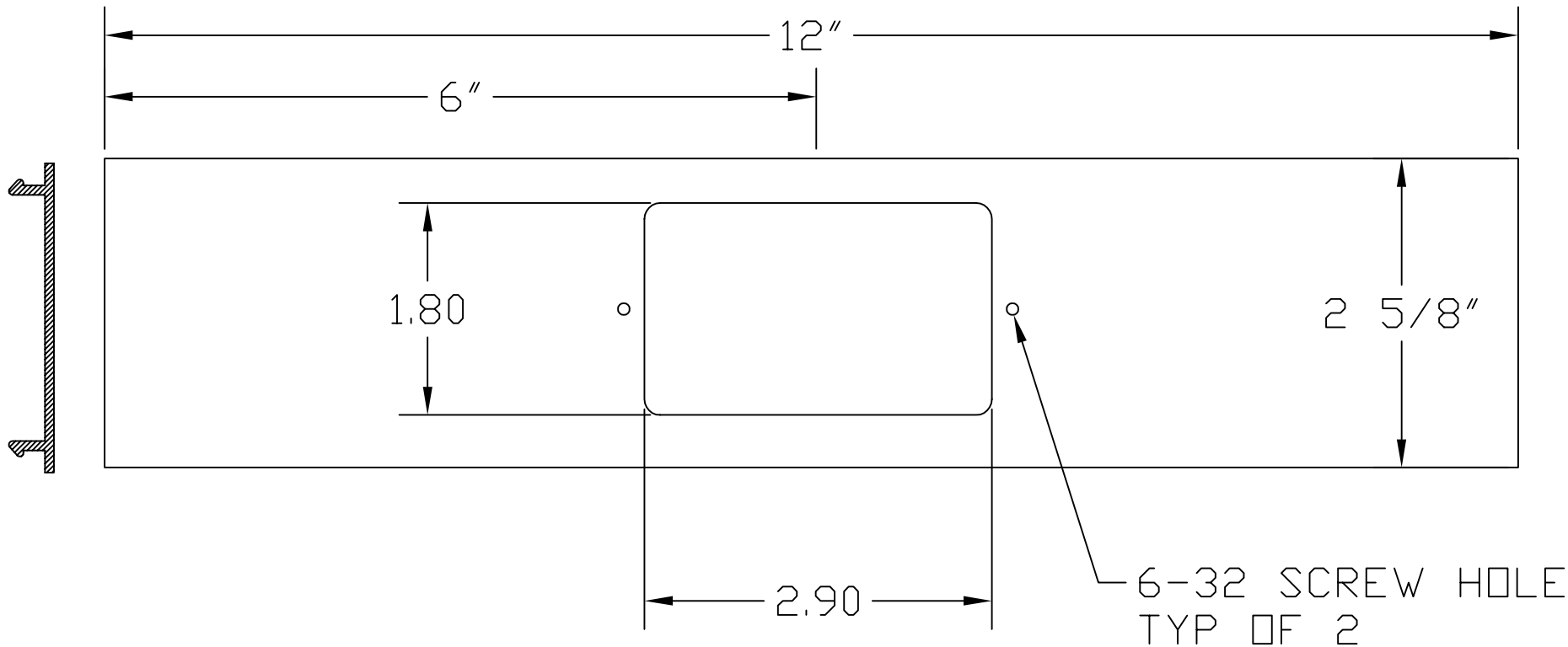




 WIREMOLD Wire Management Systems	
JOB NAME: AL3046D	
JOB DESCRIPTION: DETAIL	
JOB NO.: -	SCALE: 3/4" = 1"
SERIES: AL3000	DRN BY: ASF
REV. NO.: 1	REV. BY: N/A
REV DATE: 5/30/08	



 WIREMOLD Wire Management Systems	
JOB NAME: AL3046G	
JOB DESCRIPTION: DETAIL	
JOB NO.: -	SCALE: VARIES
SERIES: AL3000	DRN BY: ASF
REV. NO.: 1	REV. BY: N/A
REV DATE: 1/20/2012	



AL3056R for DATA locations.
Opening to be verified.

 WIREMOLD Wire Management Systems	
JOB NAME: AL3056R	
JOB DESCRIPTION: DETAIL	
JOB NO.: -	SCALE: 3/4" = 1"
SERIES: AL3000	DRN BY: ASF
REV. NO.: 1	REV. BY: N/A
REV DATE: 11/11/08	



Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: July 27, 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	261300E05	(Submittal No. 261300-005)
		• Wiremold Wall Duct

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 1300-005

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 7/15/2016 3:47 PM
Subject: Webster ISB - 26 1300-005
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Attachments: 261300-005 Wiremold wall duct.pdf

Attached for review.

Melissa Pirtle
Construction Admin

CANNONDESIGN

1100 Clark Ave
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. 15051-0143

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/15/2016

TO: Guarantee Electrical Construction Co
3405 Bent Avenue
St. Louis MO 63116

RE: Wiremold wall duct

ATTN: Rick Branstetter

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:	☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		261300-005	1		07/15/2016	Wiremold wall duct	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 7/15/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-009

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Wiremold Wall Duct - Spec
			Section 26 13 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

☐

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager

Webster University
Interdisciplinary Science Building
Webster Groves, Mo. 63119

Submittal Drawings
LeGrand/Wiremold
Aluminum 2 channel component raceway

Provided for:
Guarantee Electrical Contractors
St. Louis, Mo. 63116

Provided By:
Fishco Group
Electrical Mfg. Rep Agent
St. Louis, Mo. 63123