WIREMOLD

la legrand°

®Walkerduct Pro Series & Round Insert Ducts

Complete Category 6, 5e & Fiber Capability in Flush Fittings

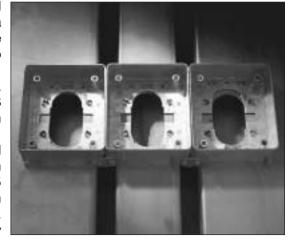




alkerduct Pro Series Systems provide full capability to install Category 6, 5e and Fiber Optic Cabling and Connections in a flush service fitting. The preset provides maximum cable performance plus cable loop storage. Our flush service fittings also provide the benefits of bend radius features at the workstation.

The factory installed preset also makes it easy to feed conduit, partition feeds, and other feeds directly out of the preset. 2" [51mm] IPS preset duct is also available for those applications where a flush activation is not required.

Flush service fittings are available in brass, brushed aluminum and nonmetallic finishes and can be fitted with modular communication inserts. Our pedestal service fittings, Multiplex™ Service Fittings and 525 Series Fittings, can be used on either system. In addition, flush carpet trim plates are available to make direct feeds out of the presets. Both styles of Walkerduct are UL Listed to U.S. and Canadian safety standards. Walkerduct Pro Series is ideal for retail stores, schools, casinos, and office buildings.



Pro Series presets are positioned together to create one activation location.

Features & Benefits

- New brushed aluminum activations. Provides additional finish options for better aesthetics.
- Heavy Duty Junction Box. Perfect for casino applications, heavy duty junction boxes are available for applications where the duct system will be subjected to heavy loads.
- Quality construction. Duct is made of 16 gauge galvannealed steel with continuous seam weld construction. Makes for easy field cuts and prevents water seepage into the duct.
- Large bend radius into duct and around corners and elbows. Maintains integrity of fiber optic cable when changing direction of cable orientation.
- Large oblong opening into duct. Allows easy hand access into the duct to pull wires. The opening provides enhanced bend radius when pulling cable.
- One-meter fiber or cable loop storage in preset. Allows easy access to cable to activate service fitting.

- Flush activations for single-, double-, and triple-duct runs for both tiled and carpeted floors. Aesthetically pleasing activations in brass, brushed aluminum and nonmetallic provide easy access to power and telecommunications at each workstation. Activations accept Category 6, 5e, UTP, STP, coaxial, audio, and fiber optics inserts. Front loaded snap-in inserts save installation time.
- Only junction box available offering square or round access cover plates. The flexibility to choose which style will provide the greatest aesthetic appearance for a particular tile or carpet application.
- Built-in tile trim. The square junction boxes include flangeless aluminum trim to accommodate 1/8" [3.2mm] thick tile. Saves money.
- Large preset. The preset has a large cubic inch capacity to allow easy access to wires and plenty of room for splicing and connections. Saves installation time.

IMPORTANT!

A minimum 1 1/2" [38mm] preset or afterset is required on Pro Series Underfloor Duct to support standard duplex receptacles and communication devices when using flush activations. The 1" [25mm] preset or afterset should be specified for pedestal style fittings or when cabling will be pulled through the activation point.



Presets have room to store up to 1 meter of cable in preset. Fiber loop clips (Cat. No. 427) shown.



Pro Series presets offer large access area into the duct.



Flush activations offer a full range of power and communication connections.

Walkerduct Pro Series Catalog No. /Item **Description/Specifications** 3 1/8" x 1 1/4" 2-0 No. 2 Duct Blank Duct - Used primarily for [79mm x 32mm] 4-0 No. 4 Duct feeder runs. 10' [3m] standard 2-0 length. One-piece continuous seam weld construction. 4-0 16 gauge [1.5mm] 6 1/2" x 1 1/2" galvannealed steel. [165mm x 38mm] 3.34 Sq. In. [21.5cm²] 8.72 Sq. In. [56.3cm²] D21210 No. 2 Duct, 12" spacing, 1" presets. **Preset Duct** – Used for distribution D21215 No. 2 Duct, 12" spacing, 1 1/2" presets. runs. 10' [3m] standard length. D21220 No. 2 Duct, 12" spacing, 2 " presets. One-piece continuous seam weld No. 2 Duct with 12" D21225 No. 2 Duct, 12" spacing, 2 1/2" presets. construction. 16 gauge galvannealed [305mm] Spacing D21230 No. 2 Duct, 12" spacing, 3" presets. steel. Die-cast presets have D22410 No. 2 Duct, 24" spacing, 1" presets. knockout in base. With knockout D22415 No. 2 Duct, 24" spacing, 1 1/2" presets. removed, the opening size into D22420 No. 2 Duct, 24" spacing, 2" presets. duct is 3 1/8" x 1 5/8" [79mm x 41mm]. D22425 No. 2 Duct, 24" spacing, 2 1/2" presets. No. 4 duct is punched off center. D22430 No. 2 Duct, 24" spacing, 3" presets. An alignment clip is included with each piece of duct. This is used lo. 4 Duct with 24" D41210 No. 4 Duct. 12" spacing, 1" presets. to connect presets and prevent [610mm] Spacing D41215 No. 4 Duct, 12" spacing, 1 1/2" presets. movement of presets during D41220 No. 4 Duct, 12" spacing, 2" presets. concrete pour. D41225 No. 4 Duct, 12" spacing, 2 1/2" presets. D41230 No. 4 Duct, 12" spacing, 3" presets. Standard preset spacings are D42410 No. 4 Duct, 24" spacing, 1" presets. 12" [305mm] and 24" [610mm] End View with Alignment Clip in Place D42415 No. 4 Duct, 24" spacing, 1 1/2" presets. on center. Preset heights are: 1" [25mm], 1 1/2" [38mm], 2" D42420 No. 4 Duct, 24" spacing, 2" presets. D42425 No. 4 Duct, 24" spacing, 2 1/2" presets. [51mm], 2 1/2" [64mm], and 3" [76mm]. Presets are sealed D42430 No. 4 Duct, 24" spacing, 3" presets. Alignment Clip with recessed removable mudcap. **Catalog Numbering System:** Preset dimensions are 4 1/8" wide x 4 13/16" long [105mm x 123mm]. D21215 Example: IMPORTANT! IMPORTANT! A minimum 1 1/2" [38mm] preset or afterset is required Triple-gang flush activations are not on Pro Series Underfloor Duct to support standard duplex Duct Preset Height compatible with 3244 and 3444 receptacles and communication devices when using flush Size of Duct **Preset Spacing** System layouts. Use combination of activations. The 1" [25mm] preset or afterset should be single- and two-gang activations to specified for pedestal style fittings or when cabling will be access all three ducts at one point. pulled through the activation point. 421 **Mudcap** – Steel replacement cap for preset. Recessed to hold 3/8" [9.5mm] concrete. 422GR Marker Cap - Replaces mudcap (Green) 422RD on preset to indicate location of (Red) the last insert in each run. Select color for each service. 425 1/2" [12.1mm] High Preset Extensions - Can be 426 1" [25mm] High factory or field installed to increase height of presets. Die-cast construction. Attaches with push on metal sleeves (included), 1" [25mm] size can be stacked. 1/2" [12.7mm] size cannot be stacked with another extension on top. Duct Conduit Hub (12" [305mm] D2075 For No. 2 Duct D4075 For No. 4 Duct Section of Duct with 1" [25mm] Preset) - For rigid or PVC conduit. Used to provide feed to isolated

outlets; maintains 24" [610mm] spacing of presets. Preset height is 1" [25mm]. Add extensions if

higher preset needed.

Walkerduct Underfloor Duct

Catalog No. /Item

Description/Specifications

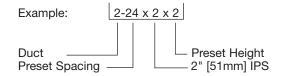
2-12x2x7/8	No. 2 Duct, 12" spacing, 7/8" presets.
2-12x2x11/2	No. 2 Duct, 12" spacing, 1 1/2" presets.
2-12x2x2	No. 2 Duct, 12" spacing, 2" presets.
2-12x2x21/2	No. 2 Duct, 12" spacing, 2 1/2" presets.
2-12x2x3	No. 2 Duct, 12" spacing, 3" presets.
2-24x2x7/8	No. 2 Duct, 24" spacing, 7/8" presets.
2-24x2x11/2	No. 2 Duct, 24" spacing, 1 1/2" presets.
2-24x2x2	No. 2 Duct, 24" spacing, 2" presets.
2-24x2x21/2	No. 2 Duct, 24" spacing, 2 1/2" presets.
2-24x2x3	No. 2 Duct, 24" spacing, 3" presets.
	3, a process
4-12x2x7/8	No. 4 Duct, 12" spacing, 7/8" presets.
4-12x2x11/2	No. 4 Duct, 12" spacing, 1 1/2" presets.
4-12x2x2	No. 4 Duct, 12" spacing, 2" presets.
4-12x2x21/2	No. 4 Duct, 12" spacing, 2 1/2" presets.
4-12x2x3	No. 4 Duct, 12" spacing, 3" presets.
	rtor i zaot, iz opaoing, o procotor
4-24x2x7/8	No. 4 Duct, 24" spacing, 7/8" presets.
4-24x2x11/2	No. 4 Duct, 24" spacing, 1 1/2" presets.
4-24x2x2	No. 4 Duct, 24" spacing, 2" presets.
4-24x2x21/2	No. 4 Duct, 24" spacing, 2 1/2" presets.
4-24x2x3	No. 4 Duct, 24" spacing, 3" presets.
オームオルムルン	No. 7 Duct, 27 Spacing, 3 presets.

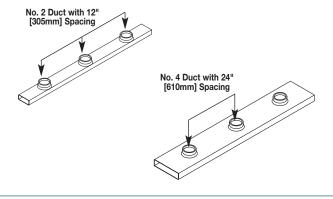
Preset Duct – Used for distribution runs. 10' [3m] standard length. One-piece continuous seam weld construction. 16 gauge galvannealed steel. Round die-cast presets have inside threads to accept standard connectors.

Standard preset spacings are 12" [305mm] and 24" [610mm] on center. Preset heights are 7/8" 1 1/2", 2", 2 1/2" and 3" [22.2mm, 38mm, 51mm, 64mm and 76mm]. Presets are sealed with recessed removable mudcap. Preset inside diameter is 2" [51mm].

Service fitting selections for 2" [51mm] IPS preset duct are: 525 Series, Multiplex, and 1200 Series.

Catalog Numbering System:





Duct Cable/Wire Fill Chart						
CABLE/WIRE SIZE	0.	.D.	AREA	(SQ IN)	40% NO. 2	FILL* NO. 4
CABLE/WIRE SIZE	Inches	[mm]	Inches	[mm]	DUCT	DUCT
UNSHIELDED TWISTED PAIR 4-PAIR, CAT 6 4-PAIR, 24 AWG CAT 5 UTP 4-PAIR, 24 AWG CAT 3 UTP	.250 .220 .190	[6.4] [5.6] [4.8]	.049 .038 .029	[31.7] [24.5] [18.7]	26 35 47	71 91 122
TELEPHONE 2-PAIR, 24 AWG 3-PAIR, 24 AWG 4-PAIR, 24 AWG 25-PAIR, 24 AWG	.140 .150 .190 .410	[3.6] [3.8] [4.8] [10.4]	.015 .018 .028 .132	[9.9] [11.6] [18.1] [85.2]	86 75 47 10	226 197 122 26
COAXIAL RG58/U RG59/U RG62/U RG6/U	.195 .242 .242 .270	[4.9] [6.1] [6.1] [6.8]	.030 .046 .046 .057	[19.4] [29.7] [29.7] [36.8]	44 29 29 23	117 76 76 61
TWINAXIAL 100 Ohm	.330	[8.4]	.086	[55.9]	15	40
SHIELDED TWISTED PAIR TYPE 1 TYPE 2 TYPE 3	.390 .465 .245	[9.9] [11.8] [6.2]	.119 .170 .047	[76.8] [109.7] [30.3]	11 7 28	29 20 74
FIBER OPTIC 2-STRAND DUPLEX MULTIMODE, 62.5/125µm	.190	[4.8]	.025	[16.1]	47	122
THHN WIRE #14 #12 #10 # 8 # 8	.0097 .0133 .0211 .0366 .0507	[.25] [.34] [.54] [.93] [1.29]	.010 .013 .021 .037 .051	[6.5] [8.4] [13.5] [23.9] [32.9]	137 100 63 36 26	359 262 165 95 68

*40% cable fill is the maximum cable allowed by NEC.

404



Mudcap – Steel replacement cap for 2" [51mm] IPS preset. Recessed to hold 3/8" [9.5mm] concrete.

415B (Brass) 415N (Steel)



Marker Cap – Replaces mudcap on preset to indicate location of run. NEC requires markers to locate the last preset in each run. Select color for each service.

317-3/4-* For No. 2 Duct H317-3/4-* For No. 4 Duct 12" [30mm]

2' [610mm] Section of Duct with IPS Preset and 3/4" [19.1mm] Conduit Hub – For rigid or PVC conduit. Used to provide feed to isolated outlets; maintains 24" [610mm] spacing of presets. Heights from 7/8" [22.2mm] to 3 1/2" [89mm]. *Specify preset height.

Duct Supports

Catalog No./Item

SC3222

SC12 For one No. 2 Duct **SC14** For one No. 4 Duct SC222 For two No. 2 Ducts SC224 For one No. 2 Duct and one No. 4 Duct SC244 For two No. 4 Ducts

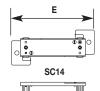
For two No. 2 Ducts SC3224 and one No. 4 Duct SC3244 For one No. 2 Duct and two No. 4 Ducts

For three No. 2 Ducts

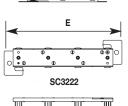
SC3424 For two No. 4 Ducts and one No. 2 Duct (No. 2 Duct in center)

Cat No.	DIMENSION "E"	
	Inches	[mm]
SC12	8.125	[206mm]
SC14	11.500	[292mm]
SC222	12.250	[311mm]
SC224	15.625	[396mm]
SC244	19.000	[482mm]
SC3222	16.375	[415mm]
SC3224	19.750	[501mm]
SC3242	19.750	[501mm]
SC3244	23.125	[587mm]
SC3444	26.500	[673mm]
SC42222	20.500	[520mm]

*Cat. No. Suffix	Height Adjustment		
-18	1/2" [12.7mm] to 1 7/8" [48mm]		
-33	1 1/2" [38mm] to 3 3/4" [95mm]		
-48	3" [76mm] to 4 7/8" [124mm]		
Duct supports f	or deeper pours are available through		



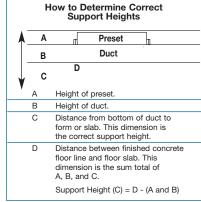




SC222

Adjustable Duct Supports with Built-In Couplings - To support, couple, and hold duct in place before and during concrete pour. Steel construction. Leveling screws provide vertical adjustment. Different leg heights available. Supports may be fastened to form or to slab through holes in the feet. Top members maintain 1" [25mm] spacing between ducts. Locate duct supports on approximately 5' [1.5m] intervals.

Description/Specifications



NOTE: Recommend minimum of 3" [76mm] clearance space on each side of duct support (E dimension) for concrete placement.

Catalog Numbering System: Example:

SC3244 Support No. of Ducts **Duct Size** in System and Orientation

Hold-Down Straps

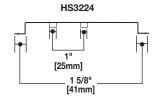
Catalog No./Item **HS12** For one No. 2 Duct

the factory.

HS14 For one No. 4 Duct **HS222** For two No. 2 Ducts **HS224** For one No. 2 Duct and one No. 4 Duct **HS244** For two No. 4 Ducts HS3222 For three No. 2 Ducts HS3224 For two No. 2 Ducts and one No. 4 Duct HS3244 For one No. 2 Duct

on approximate 5' [1.5m] centers. and two No. 4 Ducts

HS3424 For two No. 4 Ducts with one No. 2 Duct in center



Two Holes 9/32" [7.1mm] Dia. Е **HS14**

3/4"

[19.1mm]

ITEM	"E" DIMENSION	
HS12	5 3/16"	[132mm]
HS14	8 1/16"	[205mm]
HS222	10 5/8"	[270mm]
HS224	14"	[356mm]
HS244	17 3/8"	[448mm]
HS3222	14 13/16"	[376mm]
HS3224	18 3/16"	[462mm]
HS3244	21 9/16"	[548mm]
HS3424	21 9/16"	[548mm]

Description/Specifications

Hold-Down Straps - To fasten ducts to the slab in shallow concrete. Used in place of duct supports. Straps maintain 1" [25mm] spacing between ducts on multiple duct runs and prevent duct from floating during concrete pour. Attaches to slab with stakes or drive pins (not included). Locate hold-down straps

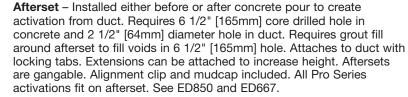
No. 2 Duct strap is 1 1/4" H [32mm]; No. 4 Duct strap is 1 1/2" H [38mm]; Straps have a maximum width of 1 1/4" [32mm].

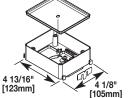
Aftersets

Catalog No./Item

Description/Specifications

4210	1"	[25mm]	high
4215	1 1/2"	[38mm]	high
4220	2"	[51mm]	high
4225	2 1/2"	[64mm]	high
4230	3"	[76mm]	high





IMPORTANT!

A minimum 1 1/2" [38mm] preset or afterset is required on Pro Series Underfloor Duct to support standard duplex receptacles and communication devices when using flush activations. The 1" [25mm] preset or afterset should be specified for pedestal style fittings or when cabling will be pulled through the activation point.

436-2-7/8	7/8" [22.2mm]	high
-2-1 1/2	1 1/2"	[38mm]	high
-2-2-2	2"	[51mm]	high
-2-2 3/8	2 3/8"	[64mm]	high
-2-3	3"	[76mm]	high



Round Afterset – Installed either before or after concrete pour to create activation from duct. Requires 2 1/2" [64mm] core drilled hole in concrete and 2 1/4" [57mm] diameter hole in duct. Attaches to duct with locking tabs. Extensions can be attached to increase height.

Walkerduct Junction Boxes

Purpose:

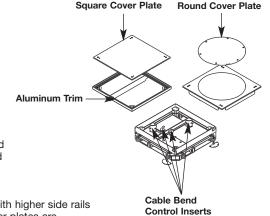
Junction boxes are used at intersections of duct runs to:

- 1. To separate the various raceways as they cross each other.
- To furnish access to the system for pulling and splicing of wires.
- 3. To provide means of connecting the system to distribution closets with duct or conduit home runs.

Construction Features:

Openings are provided in the four sides to receive from one to five ducts, which are secured by grounding clips. Corner openings provide conduit feeds. The interiors of the boxes have partitions which completely separate each duct and at the same time form a continuous path through the box in both directions. No partitions are needed for single run boxes. Most partitions are removable and their orientation can be changed to correct installation errors. For precise leveling after the pour, cover plates can be adjusted upward 1/2" [12.7mm] with the recessed screws in the cover plate.

Standard boxes are designed for use with duct having 1" [25mm] high presets. Boxes with higher side rails in 1/2" [12.7mm] increments can be furnished for systems requiring higher presets. Cover plates are 1/4" [6.4mm] thick. Junction boxes are provided with nonmetallic corner inserts to provide controlled cable bend radius around the tunneling inside the box (see diagram). They should be snapped into place before wire placement. Brass or stainless steel holders for tile and carpet can be used on top of the round cover plates. Square junction boxes include aluminum trim for carpet or tile applications.

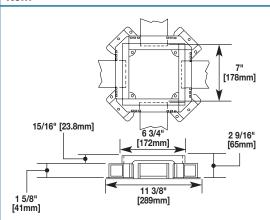


Square Cover Plate

Heavy duty junction boxes are used where heavy loads will be rolled over or placed on the system. These are constructed with a 3/8" [9.5mm] cover plate and additional support studs. Up to 5/8" [15.9mm] concrete recommended over presets for heavy loads. Minimum heavy duty junction box height is 1 1/2" [38mm].

Item

Catalog No./Description/Specifications



12JS-* (square cover plate) 12JR-* (round cover plate)

12HS-* Heavy duty (square) 12HR-* Heavy duty (round)

Junction Box - One No. 2 Duct per side. No interior partitioning. Square cover plate measures 6 3/4" x 6 3/4" [171mm x 171mm]. Diameter of round cover plate is 4.813" [122mm]. Specify suffix.

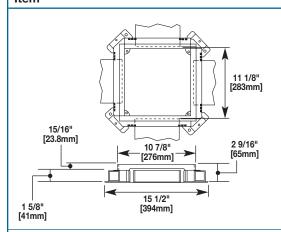
*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.

Walkerduct Junction Boxes (Continued)

Item

Catalog No./Description/Specification

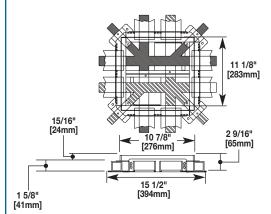


14JS-* (square cover plate) 14JR-* (round cover plate)

14HS-* Heavy Duty (square) 14HR-* Heavy Duty (round) **Junction Box** – One No. 4 duct per side. No interior partitioning. Square cover plate measures 10 7/8" x 10 7/8" [276mm x 276mm]. Diameter of round cover plate is 8.948" [227mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



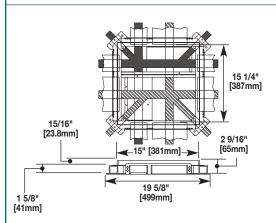
222JS-* (square cover plate) 222JR-* (round cover plate)

222HS-* Heavy Duty (square) 222HR-* Heavy Duty (round)

Junction Box – Two No. 2 ducts per side. Square cover plate measures 10 7/8" x 10 7/8" [276mm x 276mm]. Diameter of round cover plate is 8.948" [227mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



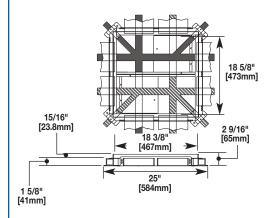
224JS-* (square cover plate) 224JR-* (round cover plate)

224HS-* Heavy Duty (square) 224HR-* Heavy Duty (round)

Junction Box – One No. 2 duct and one No. 4 duct per side. Square cover plate measures 15" x 15" [381mm x 381mm]. Diameter of round cover plate is 13.063" [332mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



244JS-* (square cover plate) 244JR-* (round cover plate)

244HS-* Heavy Duty (square) 244HR-* Heavy Duty (round) **Junction Box** – Two No. 4 ducts per side. Square cover plate measures 18 3/8" x 18 3/8" [467mm x 467mm]. Diameter of round cover plate is 16.438" [418mm]. Specify suffix.

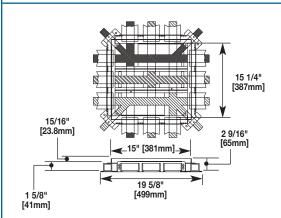
*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.

Walkerduct Junction Boxes (Continued)

Item

Catalog No./Description/Specifications



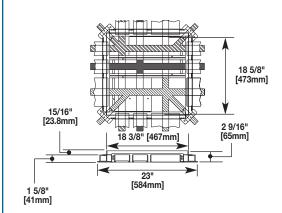
3222JS-* (square cover plate) 3222JR-* (round cover plate)

3222HS-* Heavy Duty (square) 3222HR-* Heavy Duty (round)

Junction Box – Three No. 2 Ducts per side. Square cover plate measures 15" x 15" [381mm x 381mm]. Diameter of round cover plate is 13.063" [332mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



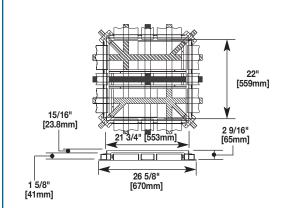
3224JS-* (square cover plate) 3224JR-* (round cover plate)

3224HS-* Heavy Duty (square) 3224HR-* Heavy Duty (round)

Junction Box – Two No. 2 Ducts and one No. 4 duct per side. Square cover plate measures 18 3/8" x 18 3/8" [467mm x 467mm]. Diameter of round cover plate is 16.438" [418mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



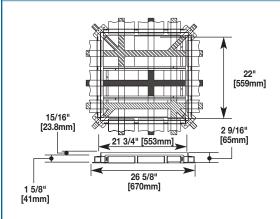
3424JS-* (square cover plate) 3424JR-* (round cover plate)

3424HS-* Heavy Duty (square) 3424HR-* Heavy Duty (round)

Junction Box – Two No. 4 Ducts and one No. 2 Duct per side. The No. 2 Duct is centered between the two No. 4 Ducts. Square cover plate measures 21 3/4" x 21 3/4" [553mm x 553mm]. Diameter of round cover plate is 19.813" [503mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

*Other junction box heights are available. Consult factory for availability.



3244JS-* (square cover plate) 3244JR-* (round cover plate)

3244HS-* Heavy Duty (square) 3244HR-* Heavy Duty (round)

Junction Box – One No. 2 Duct and two No. 4 Ducts per side. Square cover plate measures 21 3/4"x 21 3/4" [553mm x 553mm]. Diameter of round cover plate is 19.813". [503mm]. Specify suffix.

*SUFFIX FOR JUNCTION BOXES	DEPTH OF CONCRETE OVER DUCT
1	1" [25mm] min. to 1 1/2" [35mm] max.
1 1/2	1 1/2" [38mm] min. to 2" [51mm] max.
2	2" [51mm] min. to 2 1/2" [62mm] max.
2 1/2	2 1/2" [64mm] min. to 3" [76mm] max.
3	3" [76mm] min. to 3 1/2" [89mm] max.
3 1/2	3 1/2" [89mm] min. to 4" [102mm] max.

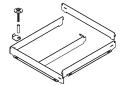
*Other junction box heights are available. Consult factory for availability.

Junction Box Accessories

Catalog No./Item

12EXT-* For 12 size boxes

222EXT-* For 14 or 222 size boxes 3222EXT-* For 224 or 3222 size boxes 3224EXT-* For 244 or 3224 size boxes 3244EXT-* For 3424 or 3244 size boxes



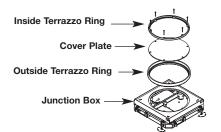
*Suffix for Side Rail Extensions	Depth of Concrete Over Duct				
1 1/2	1 1/2"	[38mm]	min. to 2"	[51mm]	max.
2	2"	[51mm]	min. to 2 1/2'	[62mm]	max.
2 1/2	2 1/2"	[64mm]	min. to 3"	[76mm]	max.
3	3"	[76mm]	min. to 3 1/2'	' [89mm]	max.
3 1/2	3 1/2"	[89mm]	min. to 4"	[102mm]	max.

Description/Specifications

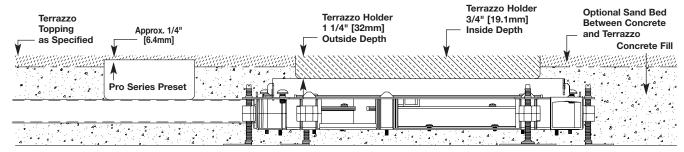
Side Rail Extension – Kit to adapt JS, JR, HS, and HR style junction boxes for deep concrete pours.

Partition extensions are provided with side rail extensions. Partitions maintain the separation of services. Field installation requires some disassembly and reassembly of the junction box prior to the concrete pour. Extensions replace entire sides of boxes. Specify suffix.

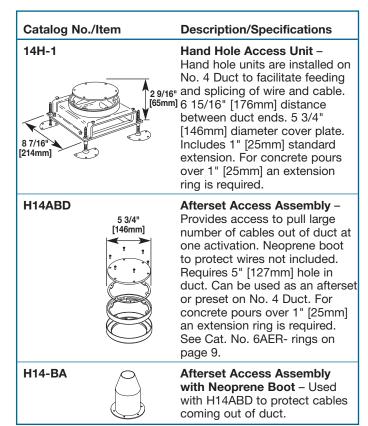
6RTT For 142L/14H box
RTT4 For 12JR box
RTT8 For 14JR/222JR box
RTT13 For 224JR/3222JR box
RTT16 For 244JR/3224JR box
RTT20 For 3244/3424JR box



Terrazzo Holder – For round JR style junction boxes. Two-piece brass rings mount to junction box cover plate. Inner ring is filled with terrazzo. Screws are recessed into inner ring and allow the holder to be removed after floor is ground and polished. Terrazzo units hold 3/4" [19.1mm] deep terrazzo, but increase the height of the junction box by 1 1/4" [32mm].



Catalog No./Item **Description/Specifications** 142L-1 Two Level Junction Box -Adaptable for either No. 2 Duct or No. 4 Duct. No partitioning required. Requires a 4" [102mm] minimum pour. 3/8" [9.5mm] upward adjustment of cover [102mm] plate is possible afterpour. 5 3/4" [146mm] nominal diameter round cover plate. 1/8" [3.2mm] 8 1/2 plate thickness. Use adjustable 8 1/2" [216mm] extension ring when additional height is needed. See Cat. No. 6AER- rings on page 9. **H14-AS Complete Access Activation -**For access to large number of cables at activation. Requires field cut 5" [127mm] hole in duct. Can be used as an afterset or preset on No. 4 Duct. For concrete pours over 1" [25mm] an extension ring is required. See Cat. No. 6AERrings on page 9. H14BC Blanking Cap - Closes 5" [127mm] hole in duct.



Catalog No./Item

Description/Specifications

6AER-11/2 - 21/8 6AER-23/8 - 3



Adjustable Extension Ring-For 142L-1, H338AU-1, H14-AS, and 14H-1 Boxes. Suffix refers to

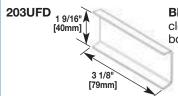
adjustable height range. Select hardware bag below to attach ring to box.

AERHB-120

- -128
- -144
- -152 -052

Hardware Bag - For adjustable extension ring. Suffix indicates depth of concrete over duct. Use chart below to determine hardware bag required for 142L-1, H338AU-1, H14-AS, and 14H-1 Boxes.

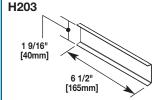
Hardware Bag		Concrete Depth Over Duct					
Cat. No.	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 3/8" - 3"
AERHB-120	Х	Х					
AERHB-128			Х	Х			
AERHB-144					Х		
AERHB-152						Х	
AERHB-052							х



Blank Washer - For closing unused junction box No. 2 Duct opening.

Catalog No./Item

Junction Box Accessories (Continued)

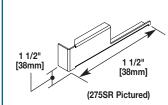


Description/Specification

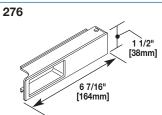
Blank Washer - For closing unused junction box No. 4 Duct opening.

NOTE: Use Cat. No. H202 Blank Washer for 142L and 14H Junction Boxes.

275SL (left-hand) 275SR (right-hand)



Adapter - To reduce a No. 4 Duct opening in a junction box to a No. 2 Duct opening. Specify left or right hand.

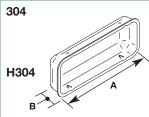


Adapter - Used with 142L and 14H Junction Boxes. Reduces No. 4 Duct opening to No. 2 Duct. Maintains 1" [25mm] spacing between ducts. For center opening in adapter use Cat. No. 277.

Duct Closures, Elbows and Offsets

Catalog No./Item

Description/Specifications



Duct End Plug – To seal end of No. 2 Duct. A = 3 1/8" [79mm]; B = 1 1/4" [32mm].

Duct End Plug - To seal end of No. 4 Duct. $A = 6 \frac{1}{2}$ " [165mm]; $B = 1 \frac{1}{2}$ [38mm].

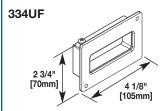
302 H302

Coupling - To couple two No. 2 Ducts.

 $A = 3 \frac{1}{4}$ " [83mm]; B = 1 3/8" [38mm].

Coupling - To couple two No. 4 Ducts.

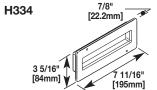
A = 6 9/16" [167mm]; B = 1 9/16" [40mm].



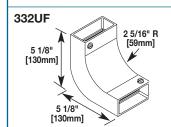
Panel Connector - Secures No. 2 Duct to cabinet.

Catalog No./Item

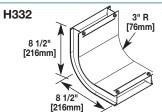
Description/Specifications



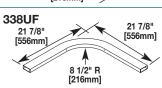
Panel Connector - Secures No. 4 Duct to cabinet.



90° Vertical Elbow - Creates 90° vertical turn in No. 2 Duct.



90° Vertical Elbow - Creates 90° vertical turn in No. 4 Duct.



90 Horizontal Elbow -Creates 90° horizontal turn in No. 2 Duct.

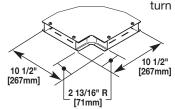
Duct Closures, Elbows and Offsets (Continued)

Catalog No./Item

Description/Specifications

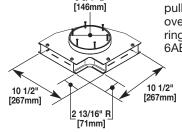
H338

90° Horizontal Elbow -Creates 90° horizontal turn in No. 4 Duct.



H338AU-1

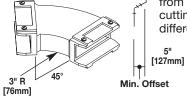
90° Horizontal Elbow with Access Unit - Used to make 90° horizontal turn in No. 4 Duct. Access cover can be removed to facilitate wire pulling. For concrete pours over 1" [25mm] an extension ring is required. See Cat. No. 6AER- rings on page 9.



5 3/4" D

342UF

Adjustable Horizontal Elbow -No. 2 Duct elbow angled for 45° turn. Angle may be varied from 22 1/2° to 67 1/2° by cutting duct ends at different angles.



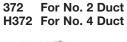
H342

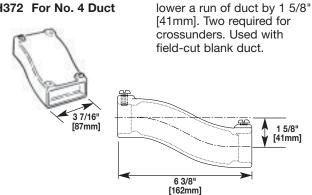
5 1/2" 45° 3" R Min. Offset [76mm]

Adjustable Horizontal Elbow -

No. 4 Duct elbow angled for 45° turn. Angle may be varied from 22 1/2° to 67 1/2° by cutting duct ends at different angles.

Offset - Used to raise or





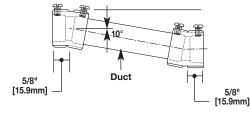
Catalog No./Item

For No. 2 Duct H375 For No. 4 Duct

Variable Offset - Used to raise or lower a run of to 3 1/2" [89mm]. Field

duct from 5/16" [7.9mm] cut duct based on chart below.

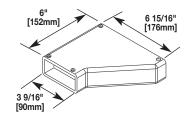
Description/Specifications



	FOR DUCT CUT FSET (LENGTH)		FOR OFFSET		DUCT CUT (LENGTH)		
5/16"	[7.9mm]	1 3/8"	[35mm]	1"	[25mm]	5 3/8"	[137mm]
3/8"	[9.5mm]	1 3/4"	[44mm]	1 1/4"	[32mm]	6 13/16"	[173mm]
7/16"	[11.1mm]	2 1/8"	[54mm]	1 1/2"	[38mm]	8 1/4"	[210mm]
1/2"	[12.7mm]	2 1/2"	[64mm]	1 3/4"	[45mm]	9 11/16"	[246mm]
9/16"	[14.3mm]	2 7/8"	[73mm]	2"	[51mm]	11 1/4"	[286mm]
5/8"	[15.9mm]	3 1/4"	[83mm]	2 1/4"	[57mm]	12 9/16"	[319mm]
11/16"	[17.5mm]	3 1/2"	[89mm]	2 1/2"	[64mm]	14"	[356mm]
3/4"	[19.1mm]	3 7/8"	[98mm]	2 3/4"	[70mm]	15 7/16"	[392mm]
13/16"	[20.6mm]	4 1/4"	[108mm]	3"	[76mm]	16 7/8"	[429mm]
7/8"	[22.2mm]	4 5/8"	[118mm]	3 1/4"	[83mm]	18 5/16"	[465mm]
15/16"	[23.8mm]	5"	[127mm]	3 1/2"	[89mm]	19 3/4"	[502mm]

300-4

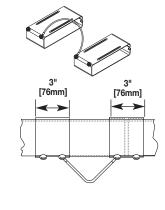
Adapter Coupling - Couples No. 2 Duct to No. 4 Duct.



For No. 2 Duct H382 For No. 4 Duct

Expansion Joint Sleeves -Slip over two sections of duct. Outside screws fasten and ground sleeves to duct. Amount of expansion is

determined by gap allowed between duct sections.

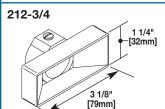


Junction Box Conduit Adapters

The conduit adapters in this section will fit directly into the duct openings in the junction boxes. All other conduit adapters require a field cut piece of duct to transition from junction box opening to adapter.

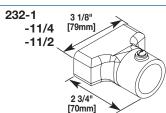
Catalog No./Item

Description/Specifications



Adapter - For No. 2 Duct opening to one 3/4" trade size conduit.

222-3/4 Adapter - For No. 2 Duct 3 1/8" opening to two 3/4" [79mm] trade size conduits.



Male Adapter - For No. 2 Duct opening to one conduit. Suffix indicates conduit trade size.

Catalog No./Item

-2

- 255-3/4 [19.1mm] [25mm] -1 -11/4 [32mm]
 - -11/2 [38mm] [51mm]

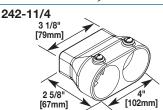
Box Conduit Corner

Adapter – For one rigid or PVC conduit. Suffix denotes trade size.

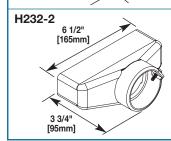
Description/Specifications



	Α		
CONDUIT ADAPTER	Inches	[mm]	
255-3/4, -1	1 7/8	[48]	
255-1 1/4, -1 1/2	2 1/4	[57]	
255-2	2 3/4	[70]	



Male Adapter - For No. 2 Duct opening to two 1 1/4" trade size conduits.



Male Adapter - For No. 4 Duct opening to one 2" trade size conduit.

Duct Conduit Adapters

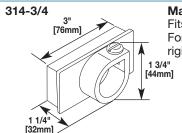
Catalog No./Item **Description/Specifications**

312-3/4 [19.1mm] [25mm] -1 -11/4 [32mm] -11/2 [38mm]

-2

Female Conduit Adapter -Fits on outside of No. 2 Duct. For one rigid or PVC conduit.





[51mm]

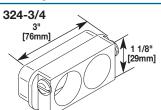
Male Conduit Adapter -Fits into end of No. 2 Duct. For one 3/4" trade size rigid or PVC conduit.

322-11/4 [32mm] -11/2 [38mm]



Female Conduit Adapter -Fits on outside of No. 2 Duct. For two rigid or PVC conduits. Suffix indicates conduit trade size.

Catalog No./Item

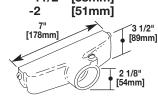


Description/Specifications

Male Conduit Adapter -Fits into end of No. 2 Duct. For two 3/4" trade size rigid or PVC conduits.

H312-3/4 [19.1mm]

- -1 [25mm] [32mm] -11/4
- -11/2 [38mm]



Female Conduit Adapter -

Fits on outside of No. 4 Duct. For one rigid or PVC conduit. H322-11/2 with one opening plugged is used for H312-11/2.

Note: For H312-2 this dimension is 2 1/2" [64mm].

H322-1 [25mm] [32mm] -11/4 -11/2 [38mm]

-2

[51mm] 7 1/8" [181mm]

Female Conduit Adapter -Fits on outside of No. 4 Duct. For two rigid or PVC conduits. Suffix indicates conduit trade size.

11

311

Walkerduct Junction Box Finishing Accessories (Continued) **Description/Specifications** Catalog No./Item **Description/Specifications** Catalog No./Item FT6-* For 12JS boxes Flangeless Tile or Carpet SFCB5-* For 12JR boxes. Single Flanged Carpet FT10-* SFCB9-* or Tile Holder -For 14JS **Trim** – For square junction For 14JR and For round junction box and 222JS boxes box. Aluminum extrusion. 222JR boxes. SFCB14-* FT15-* For 224JS *Specify 1/8" [3.2mm] or For 224JR and cover plate. Specify and 3222JS boxes 1/4" [6.4] trim heights. 3222JR boxes. S for Steel or B for Brass. *Specify 1/8" [3.2mm] or 1/4" [6.4mm] height. SFCB17-* FT18-* For 244JS For example: FT6-1/4. For 244JR and and 3224JS boxes 3224JR boxes. 11/16" FT21-* For 3424JS [17.5mm] SFCB20-* For 3424JR and (i.e. SFCB5-1/4). 3244JR boxes. and 3244JS boxes 1/8" NOTE: Other depths available -[3.2mm] Consult factory for availability. **Stainless Steel:** Same as above -Change B to S. Sectional View Shown 6LHS-1/8 Single Flanged Carpet or CT6-* For 12JS boxes Flanged Tile or Carpet Tile Holder - For 142L-1, For 14JS and CT10-* **Trim** – For square junction H338AU-1, H14-AS, 222JS boxes box. Aluminum extrusion. H14ABD, and CT15-* For 224JS and *Specify 1/8" [3.2mm] or 14H-1 boxes. 3222JS boxes 1/4" [6.4mm] trim heights. CT18-* For 244JS and For example: CT6-1/4. 12S-CVRPLT Replacement Cover 3224JS boxes 11/16" Plate - For 142L-I, CT21-* For 3424JS and [17.5mm] H14-AS, H14ABD, 3244JS boxes [12.7mm] H338AU-1, and 5 3/41 14H-1 products. [146mm] Sectional View Shown

Walkerduct Installation Products Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications** 290G Electronic Insert Finder -Waterproof Sealing Compound -One gallon [3.8L] will seal Used to locate preset inserts which are buried approximately 100 couplings, in concrete. Magnetic (12) three-duct boxes, (25) field locates mudcap two-duct boxes, or (50) in concrete. single-duct boxes.

Service Fitting Options

A wide range of service fittings are available to meet all applications: See noted literature for detailed information.

- Flush brass, brushed aluminum and polycarbonate fittings (ED850).
- Flush carpet activation plates (ED850).
- 525 Series pedestal fittings (ED1225).
- Multiplex service fittings (ED667).
- 1200 Series pedestal service fittings (ED666).

480

IMPORTANT!

Triple-gang flush activations are not compatible with 3244 and 3444 System layouts. Use combination of single- and two-gang activations to access all three ducts at one point.



Flush and Pedestal service fittings to meet all applications.



Editable Guide Form Specs CAD Drawings





Wiremold / Legrand

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