



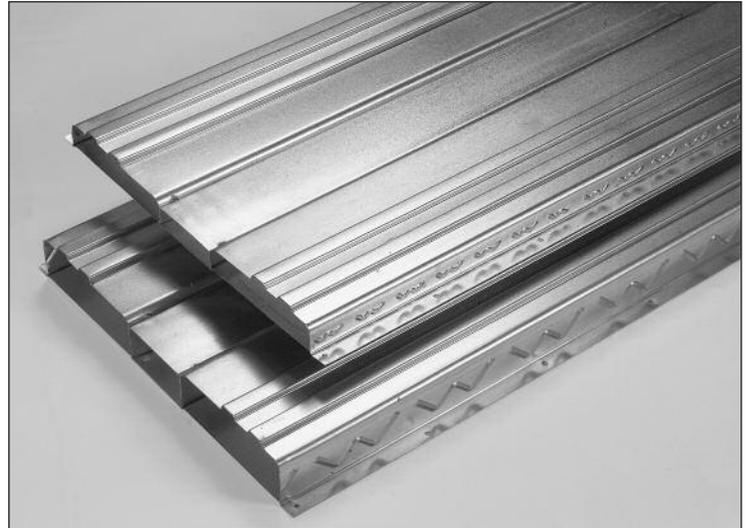
Wiremold

# Walkercell® Cellular Raceway Systems

## Cellular Raceway, Junction Boxes, Fittings, and Headerduct



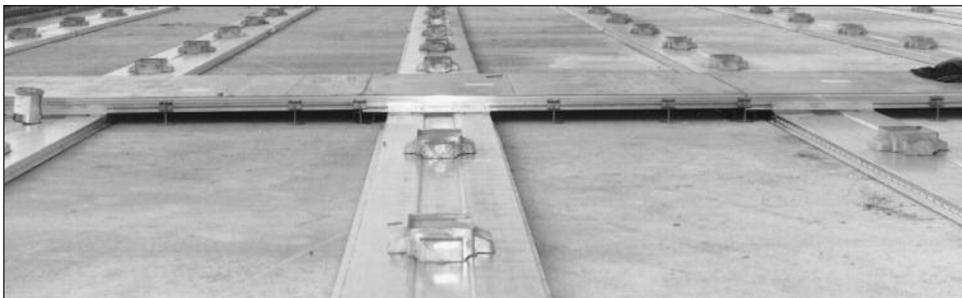
A building's Wire Management System may be able to accommodate demands on it when the building is first occupied. But what about two, five, or ten years later. **Wiremold®** Walkercell Cellular Raceway System offers many advantages to your building to avoid considerable future expenses. A Walkercell System can be provided in varying sizes to customize the capacity required for the building with the product to be supplied. As business needs change, office space requirements change. A Walkercell System has flexibility built in with a grid of presets throughout the office area making it possible for activations and deactivations to be made quickly and efficiently. A Walkercell System activated by a recessed activation makes a fully utilized preset nearly unnoticeable, and the preset grid pattern can be designed so that a preset will be located under a workstation. A Walkercell System is designed to reduce life cycle cost by minimizing the cost of adds, moves, and changes, and controlling installed cost. Walkercell is UL Listed to U.S. and Canadian safety standards.



Sections of Walkercell Cellular Raceway.

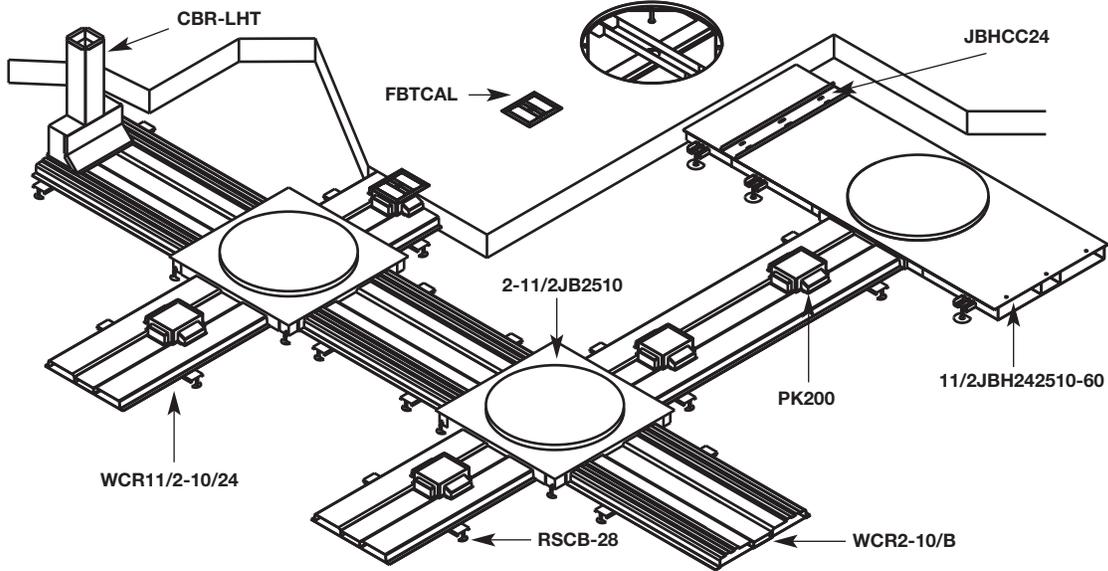
### FEATURES & BENEFITS

- **Three-in-one configuration.** Brings three compartments into a single raceway – only one raceway to purchase and install for each distribution run.
- **Triple service preset.** Brings up to three services to the workstation at one location which eliminates the need for multiple access points.
- **Bend Radius Control at preset.** Reduces signal loss or distortion due to tight turns of cables.
- **AutoCAD® drawings.** Can be electronically transmitted via the internet or loaded onto CD for imported quality and cost reduction of drawing transmittals.
- **UL scrub water approved activation kits.** New FloorPort™ Service Fittings provide protection from floor cleaning devices such as carpet scrubbers and wet mops.
- **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. A wide selection of data and bezel options available for use with Ortronics® TracJack™ and Series II devices.



A Walkercell Cellular Raceway System installation with Trenchduct Feeder System.

## Walkercell Cellular Raceway System Layout



**NOTE:** Diagram is for part illustration only. Does not represent a typical system layout.

## Walkercell Cellular Raceway System Wire Fill Capacity Charts

### Walkercell Cellular Raceway Cable Fill Capacities – Communications

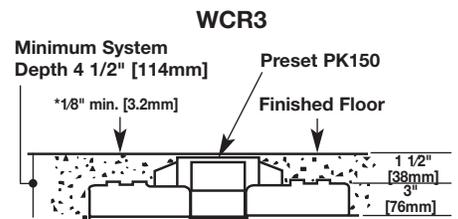
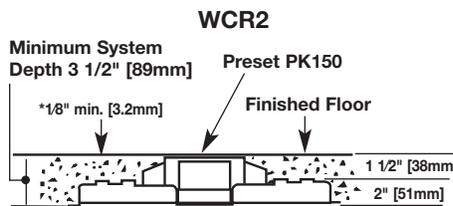
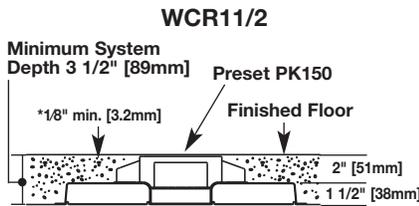
	CABLE/WIRE SIZE	DIAMETER (Approx.)		AREA (In <sup>2</sup> )		40% FILL		
		Inches	[mm]	Sq. In.	[Sq. mm]	WCR11/2 8.2 in. <sup>2</sup> [5264mm <sup>2</sup> ]	WCR2 11 in. <sup>2</sup> [7097mm <sup>2</sup> ]	WCR3 18.8 in. <sup>2</sup> [12130mm <sup>2</sup> ]
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG, Cat 5	0.220	[5.6]	0.038	[24.5]	85	115	197
	4-pair, 24 AWG, Cat 6	0.250	[6.4]	0.049	[31.7]	66	89	153
TELEPHONE	2-pair, 24 AWG	0.140	[3.6]	0.015	[9.9]	217	285	488
	4-pair, 24 AWG	0.190	[4.8]	0.028	[18.1]	116	155	265
	25-pair, 24 AWG	0.410	[10.4]	0.132	[85.2]	24	33	56
COAXIAL	RG58/U	0.195	[4.9]	0.030	[19.4]	108	146	252
	RG59/U	0.242	[6.1]	0.046	[29.7]	70	96	162
	RG6/U	0.270	[6.8]	0.057	[36.8]	57	77	130
SHIELDED TWISTED PAIR	TYPE 1	0.390	[9.9]	0.119	[76.8]	27	37	63
	TYPE 2	0.465	[11.8]	0.170	[109.7]	19	26	44
	TYPE 3	0.245	[6.2]	0.047	[30.3]	69	93	159
FIBER	2 Strand	0.180	[4.6]	0.025	[16.1]	130	173	296
	4 Strand	0.190	[4.8]	0.028	[18.1]	116	155	264
	6 Strand	0.210	[5.3]	0.035	[22.6]	93	127	216
	Fiber ZipCord	0.110	[2.8]	0.010	[6.5]	326	463	791

### Walkercell Cellular Raceway Wire Fill Capacities – Power

WIRE SIZE AWG	DIAMETER		AREA (In <sup>2</sup> )		40% FILL		
	Inches	[mm]	Sq. In.	[Sq. mm]	WCR11/2 4.22 in. <sup>2</sup> [2722mm <sup>2</sup> ]	WCR2 4.3 in. <sup>2</sup> [2774mm <sup>2</sup> ]	WCR3 8.5 in. <sup>2</sup> [5484mm <sup>2</sup> ]
14	0.111	[2.8]	0.010	[6.5]	168	172	351
12	0.130	[3.3]	0.013	[8.4]	126	129	256
10	0.164	[4.2]	0.021	[13.5]	80	82	161
8	0.216	[5.4]	0.037	[23.9]	45	47	93
6	0.254	[6.4]	0.051	[32.9]	33	34	67
4	0.324	[8.2]	0.082	[52.9]	20	21	41

**NOTE:** When using a Junction Box, calculate fill capacity according to the smallest compartment.

## Walkercell Cellular Raceway Preset Selection Guide



**OTHER SYSTEM DEPTHS FOR WCR11/2**

SYSTEM DEPTH	PRESET CAT. NO.	FILL OVER CELL
3 1/2" [89mm]	PK150	2" [51mm]
4" [102mm]	PK200	2 1/2" [64mm]
4 1/2" [114mm]	PK250	3" [76mm]
5" [127mm]	PK300	3 1/2" [89mm]
5 1/4" [133mm]	PK325	3 3/4" [95mm]
5 1/2" [140mm]	PK350	4" [102mm]

**OTHER SYSTEM DEPTHS FOR WCR2**

SYSTEM DEPTH	PRESET CAT. NO.	FILL OVER CELL
3 1/2" [89mm]	PK150	1 1/2" [38mm]
4" [102mm]	PK200	2" [51mm]
4 1/2" [114mm]	PK250	2 1/2" [64mm]
5" [127mm]	PK300	3" [76mm]
5 1/4" [133mm]	PK325	3 1/4" [83mm]
5 1/2" [140mm]	PK350	3 1/2" [89mm]

**OTHER SYSTEM DEPTHS FOR WCR3**

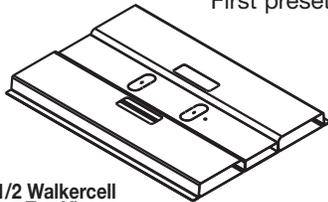
SYSTEM DEPTH	PRESET CAT. NO.	FILL OVER CELL
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4" [102mm]	PK200	2" [51mm]
4 1/2" [114mm]	PK250	2 1/2" [64mm]
5" [127mm]	PK300	3" [76mm]
5 1/4" [133mm]	PK325	3 1/4" [83mm]
5 1/2" [140mm]	PK350	3 1/2" [89mm]

Recommend a minimum of 1/8" [3.2mm] concrete over preset.  
 \*If concrete depth over preset is over 3/4" [19.1mm] it may be difficult to break-out concrete and excessive spalling may occur. For system depth greater than above standard preset height use PK Extension Ring.

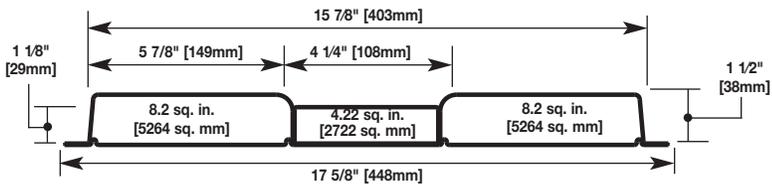
## Walkercell Cellular Raceway Ordering Information

Catalog No./Item	Description/Specifications
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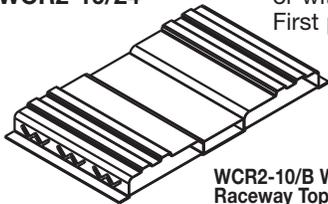
<p><b>WCR11/2-10/B</b> <b>WCR11/2-10/24</b></p>	<p><b>Walkercell Raceway</b> – Profile WCR11/2. 10' [3m] long without preset openings (WCR11/2-10/B) or with prepunched preset openings 24" [610mm] on center (WCR11/2-10/24). First preset is 12" [305mm] from end.</p>
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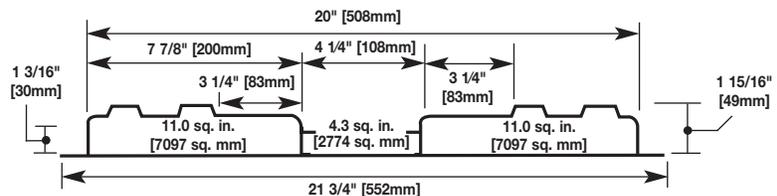
WCR11/2 Walkercell Raceway Top View



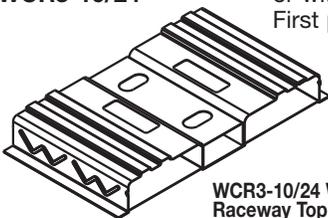
<p><b>WCR2-10/B</b> <b>WCR2-10/24</b></p>	<p><b>Walkercell Raceway</b> – Profile WCR2. 10' [3m] long without preset openings (WCR2-10/B) or with prepunched preset openings 24" [610mm] on center (WCR2-10/24). First preset is 12" [305mm] from end.</p>
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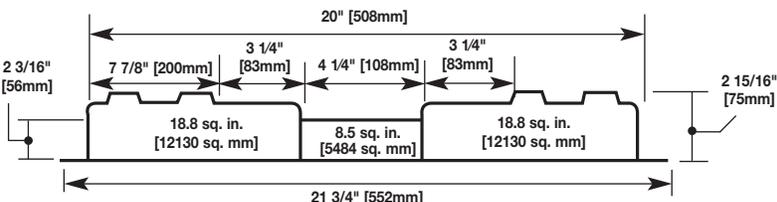
WCR2-10/B Walkercell Raceway Top View



<p><b>WCR3-10/B</b> <b>WCR3-10/24</b></p>	<p><b>Walkercell Raceway</b> – Profile WCR3. 10' [3m] long without preset openings (WCR3-10/B) or with prepunched preset openings 24" [610mm] on center (WCR3-10/24). First preset is 12" [305mm] from end.</p>
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WCR3-10/24 Walkercell Raceway Top View



**NOTE:** PK Presets ordered separately. Order one PK Preset for each preset opening in the Walkercell.

# Walkercell Cellular Raceway PK Series Presets & Fittings Ordering Information

Catalog No./Item	Description/Specifications
<b>PK150</b> <b>PK200</b> <b>PK250</b> <b>PK300</b> <b>PK325</b>	<b>Triple Service Preset</b> – Zinc die-cast construction with a removable steel cap that is recessed for concrete. Each preset is capable of housing two duplex power receptacles and up to eight communication connectors. Each preset has tapped openings for mounting brackets, adjusting ring and trim rings. The presets are field installed using one 3/16" [4.8mm] pop rivet (not provided). Preset extensions can be used to add height to presets as needed. See preset selection guide below to determine correct preset.

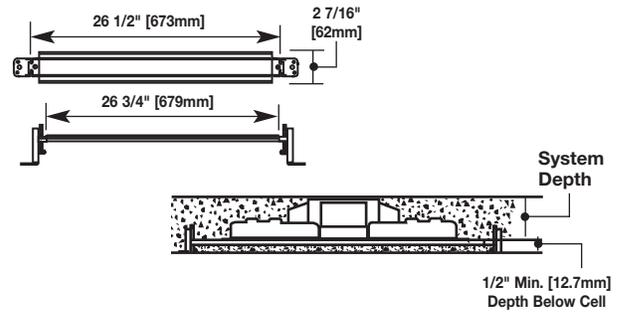
Catalog No./Item	Description/Specifications																		
<b>PKER-10</b> <b>PKER-15</b> <b>PKER-20</b> <b>PKER-25</b> <b>PKER-30</b>	<b>PKER Extensions</b> – Attaches to preset to add height to preset. Can be field installed.																		
	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Extension</th> <th colspan="2">Height Above Preset "A"</th> </tr> </thead> <tbody> <tr> <td>PKER-10</td> <td>1"</td> <td>[25mm]</td> </tr> <tr> <td>PKER-15</td> <td>1 1/2"</td> <td>[38mm]</td> </tr> <tr> <td>PKER-20</td> <td>2"</td> <td>[51mm]</td> </tr> <tr> <td>PKER-25</td> <td>2 1/2"</td> <td>[64mm]</td> </tr> <tr> <td>PKER-30</td> <td>3"</td> <td>[76mm]</td> </tr> </tbody> </table>	Extension	Height Above Preset "A"		PKER-10	1"	[25mm]	PKER-15	1 1/2"	[38mm]	PKER-20	2"	[51mm]	PKER-25	2 1/2"	[64mm]	PKER-30	3"	[76mm]
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Catalog No./Item	Description/Specifications
<b>PKCAP</b>	<b>Mudcap</b> – Used to close off Walkercell PK Preset.

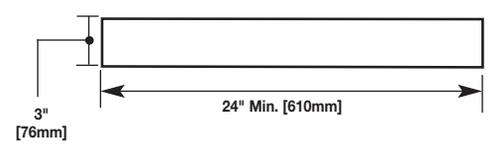
Catalog No./Item	Description/Specifications
<b>PMS-415N</b>	<b>Marker Cap</b> – Replaces standard mudcap at ends of runs and near feeder to locate cellular runs after concrete placement.

Catalog No./Item	Description/Specifications
<b>RSCB-18</b> <b>RSCB-33</b> <b>RSCB-48</b>	<b>Raceway Supports</b> – Holds raceway at proper elevation during concrete placement. Fasten raceway to support using four self-drilling screws supplied. Supports are used at raceway butt joints and maximum 5' [1.524m] spacing between butt joint locations. See selection guide below. Suffix indicates distance between Walkercell and slab on grade.

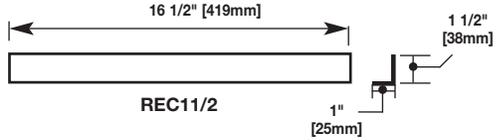
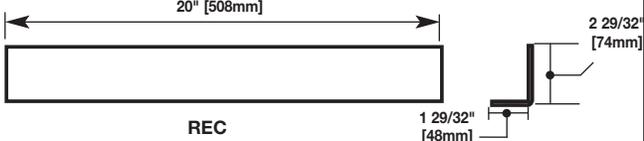
CAT. NO.	HEIGHT ADJUSTMENT
RSCB-18	1/2" [12.7mm] to 1 7/8" [48mm]
RSCB-33	1 1/2" [38mm] to 2 7/8" [73mm]
RSCB-48	2 1/2" [64mm] to 3 7/8" [98mm]

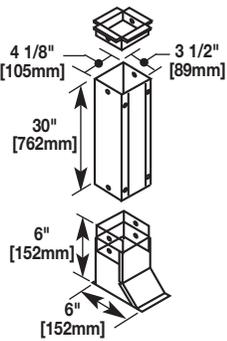
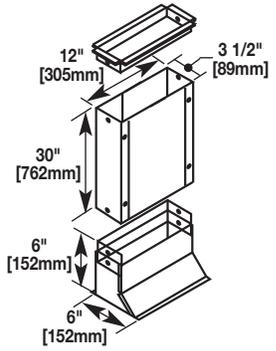
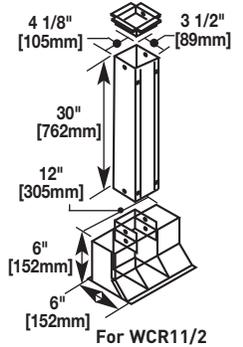
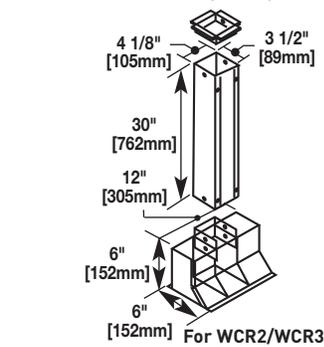


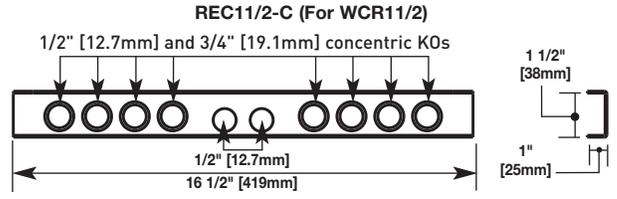
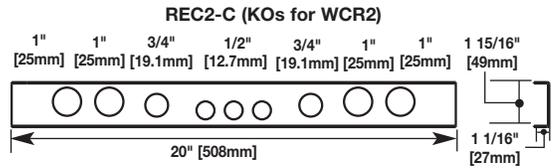
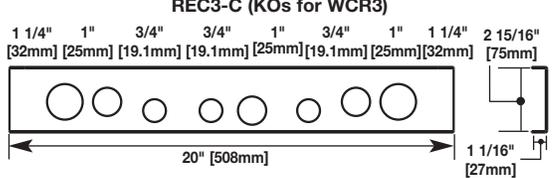
Catalog No./Item	Description/Specifications
<b>RGP</b>	<b>Grounding Plate</b> – Installed at raceway butt joints when Walkercell is placed on a mud slab or concrete sidewalks and RSCBs are not required. Used to maintain ground continuity between Walkercell Raceways. Fasten raceway to slab through 20 gauge grounding plate with power actuated fastener (not provided). Field installed.

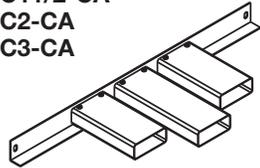


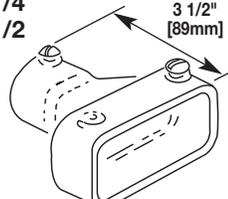
# Walkercell Cellular Raceway PK Series Presets & Fittings Ordering Information (continued)

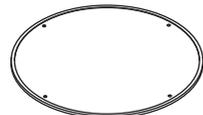
Catalog No./Item	Description/Specifications
<b>REC11/2 REC</b>	<b>Blank End Closures</b> – Used to close off ends of raceway. End closures are held in place during concrete placement using blind rivets or welds. REC 11/2 is for WCR11/2 and REC is for WCR2, and WCR3.
 <p style="text-align: center;">REC11/2</p>	
 <p style="text-align: center;">REC</p>	

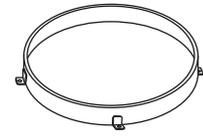
<p><b>CBR-HT</b> <b>CBR-LT</b> <b>CBR11/2-LHT</b> <b>CBR-LHT</b></p>	<p><b>Cell Boot Risers</b> – Allow access into one, two, or three cells simultaneously. Field cut oblong opening in raceway and rivet or weld riser to raceway. Void closures included</p>
<p><b>CBR-HT (For Power Only)</b></p> 	<p><b>CBR-LT (Access to Two Communication Compartments)</b></p> 
<p><b>CBR11/2-LHT (Access to All Three Compartments with Power Separated)</b></p>  <p style="text-align: center;">For WCR11/2</p>	<p><b>CBR-LHT (Access to All Three Compartments with Power Separated)</b></p>  <p style="text-align: center;">For WCR2/WCR3</p>

Catalog No./Item	Description/Specifications
<b>REC11/2-C REC2-C REC3-C</b>	<b>End Closures</b> – Used to close off ends of raceway and provide conduit knockouts. End closures are held in place with blind rivets or welds.
<p><b>REC11/2-C (For WCR11/2)</b></p> 	
<p><b>REC2-C (KOs for WCR2)</b></p> 	
<p><b>REC3-C (KOs for WCR3)</b></p> 	

<p><b>REC11/2-CA REC2-CA REC3-CA</b></p> 	<p><b>End Closures for Duct Stubs</b> – Provides ability to feed conduit from ends of raceway. Use with 312 Fittings below.</p>
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<p><b>312-3/4 312-1 312-11/4 312-11/2 312-2</b></p> 	<p><b>Female Conduit Adapter</b> – Fits on outside of No. 2 duct. For one rigid or PVC conduit. Suffix indicates conduit size.</p>
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<p><b>22LHS-1/8 22LHS-1/4</b></p> 	<p><b>Carpet &amp; Tile Holder</b> – Placed on top of junction box cover plates to provide trim for flooring. Recessed to hold carpet or tile. Specify "B" for brass or "S" for steel. Suffix indicates depth.</p>
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<p><b>22AER-11/2-21/4 22AER-23/8-31/8</b></p> 	<p><b>Adjustable Extension Ring</b> – For Walkercell junction boxes and junction box header. Suffix refers to adjustable height range of concrete over duct. Select appropriate AERHB-Hardware Bag (next column) to attach ring to box.</p>
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## Walkercell Cellular Raceway PK Series Presets & Fittings Ordering Information (continued)

Catalog No./Item	Description/Specifications
1001757 929046	<p><b>Junction Box Adapters –</b> Side adapter to attach Walkercell Raceway to the box. Allows junction box side opening to be converted to another size by replacing adapter. WCR3 cannot be used with 2 1/2" [64mm] deep box. 1001757 is for WCR11/2 and 929046 is for WCR2 or WCR3.</p>

<p>11/2JBC-CA 22JBC-CA 33JBC-CA</p>	<p><b>Junction Box Closure With Duct Stubs –</b> Provides ability to feed conduit from junction box. Use with 312 Fittings.</p>
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Catalog No./Item	Description/Specifications																																																	
AERHB-116 -132 -148 -200 -048	<p><b>Hardware Bag –</b> For adjustable extension ring. Suffix indicates depth of concrete over junction box cover. Use chart below to determine hardware bag required.</p>																																																	
<table border="1" style="margin: auto;"> <thead> <tr> <th rowspan="2">Hardware Bag Cat. No.</th> <th colspan="6">Concrete Depth Over Walkercell</th> </tr> <tr> <th>1 1/2"</th> <th>1 5/8"</th> <th>1 3/4"</th> <th>1 7/8"</th> <th>2"</th> <th>2 1/8"-3"</th> </tr> </thead> <tbody> <tr> <td>AERHB-116</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AERHB-132</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>AERHB-148</td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>AERHB-200</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>AERHB-048</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> </tbody> </table>		Hardware Bag Cat. No.	Concrete Depth Over Walkercell						1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"-3"	AERHB-116	X						AERHB-132		X	X				AERHB-148				X	X		AERHB-200						X	AERHB-048							X
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AERHB-048							X																																											

<p>11/2JBC 22JBC 33JBC</p>	<p><b>Junction Box Closure –</b> Attaches to side of junction box to close access. 11/2JBC is for WCR11/2, 22JBC is for WCR2, and 33JBC is for WCR3.</p>
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## Walkercell Cellular Raceway Headerduct Ordering Information

Catalog No./Item	Description/Specifications															
	<p><b>Walkercell Headerduct –</b> Used as a feeder raceway for Walkercell Systems. Standard length is 60" [1524mm]. All Headerduct is furnished with 1/4-20 threaded holes at each end to fasten coupling channels.</p>															
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	<p><b>Headerduct End Closure –</b> Used to close end of Headerduct, Header Junction Boxes, or Junction Box Header. Secured with blind rivet or weld.</p>															
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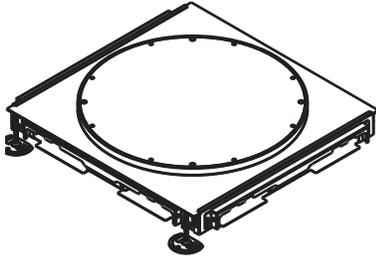
	<p><b>Coupling Channels –</b> Used to connect ends of Headerduct Junction Boxes together. Channels are furnished with 1/4-20 screws.</p>															
<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="3">Headerduct Coupling Channel</th> </tr> <tr> <th>CATALOG NO.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>JBHCC24</td> <td>24" [610mm]</td> <td>2 1/2" [64mm]</td> </tr> <tr> <td>JBHCC30</td> <td>30" [762mm]</td> <td>2 1/2" [64mm]</td> </tr> <tr> <td>JBHCC36</td> <td>36" [915mm]</td> <td>2 1/2" [64mm]</td> </tr> </tbody> </table>		Headerduct Coupling Channel			CATALOG NO.	A	B	JBHCC24	24" [610mm]	2 1/2" [64mm]	JBHCC30	30" [762mm]	2 1/2" [64mm]	JBHCC36	36" [915mm]	2 1/2" [64mm]
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# Walkercell Cellular Raceway Junction Boxes Ordering Information

## Catalog No./Item

## Description/Specifications

### Junction Boxes



**Junction Boxes** – Used at intersections of Walkercell Raceway. Partitions inside box maintain separation of services. 22" [559mm] dia. cover provides access inside box. Access ring is 1" [25mm] over box. Order extension ring for additional height. Cover plates have 1/2" [12.7mm] upward adjustment for precise leveling after the pour. Side openings on junction boxes can be replaced to fit other Walkercell profiles. Cell dimensions are 24" x 26" [610mm x 660mm].

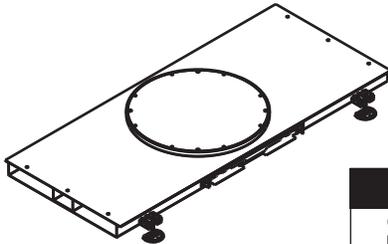
\*WCR2 feeds WCR11/2 distribution and WCR3 feeds WCR2 distribution.

**NOTE:** The minimum depth of Junction Box is 1/2" [12.7mm] higher than WCR2 and WCR3, and is 1" [25mm] higher than WCR11/2.

### Junction Box Selection Chart

CATALOG NO.	SIDE OPENINGS	HEIGHT OF BOX
11/2JB2510	Four – WCR11/2	2 1/2" [64mm]
22JB2510	Four – WCR2	2 1/2" [64mm]
33JB3510	Four – WCR3	3 1/2" [89mm]
2-11/2JB2510*	Two – WCR11/2, Two – WCR2	2 1/2" [64mm]
32JB3510*	Two – WCR2, Two – WCR3	3 1/2" [89mm]

### JBH Series



**Junction Box Header** – Used as a large capacity feeder system for Walkercell. Cellular raceway attaches to side of box. 22" [559mm] dia. cover plate access at center of unit. Standard length is 60" [1524mm]. The minimum depth of any JB, JHB, or HJB is 1/2" [12.7mm] higher than WCR2 and WCR3 and 1" higher than WCR11/2.

**NOTE:** All capacities based on a minimum 80% allowance where cables may encounter a restriction point inside of junction box. Consult factory for WCR3 capacities.

### Junction Box Headers Used With WCR11/2

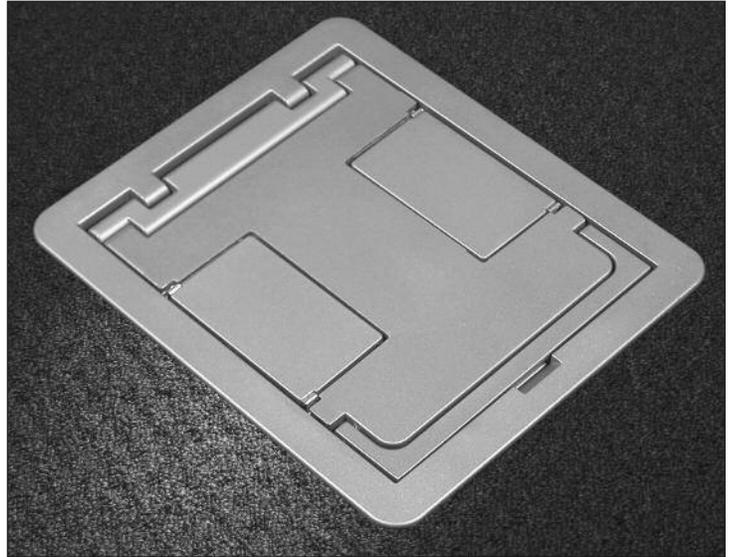
Catalog Number	Body Width	Body Depth	Ring Height	Syst. Depth	Power Capacity [sq. in. mm <sup>2</sup> ]	Power Comp. Width	Communication Capacity [x2, sq. in. mm <sup>2</sup> ]
11/2JBH24251060	24" [610mm]	2 1/2" [64mm]	1" [25mm]	3 1/2" [89mm]	6.64 [4283.9mm <sup>2</sup> ]	4 1/4" [108mm]	18.60 [12000.0mm <sup>2</sup> ]
11/2JBH30251560	30" [762mm]	2 1/2" [64mm]	1 1/2" [38mm]	3 1/2" [89mm]	8.64 [5574.2mm <sup>2</sup> ]	5 1/8" [130mm]	27.91 [18006.4mm <sup>2</sup> ]
11/2JBH36251560	36" [915mm]	2 1/2" [64mm]	1 1/2" [38mm]	4" [102mm]	10.62 [6851.6mm <sup>2</sup> ]	6" [152mm]	31.25 [20161.3mm <sup>2</sup> ]

### Junction Box Headers Used With WCR2

Catalog Number	Body Width	Body Depth	Ring Height	Syst. Depth	Power Capacity [sq. in. mm <sup>2</sup> ]	Power Comp. Width	Communication Capacity [x2, sq. in. mm <sup>2</sup> ]
2JBH242510-60	24" [610mm]	2 1/2" [64mm]	1" [25mm]	3 1/2" [89mm]	6.64 [4283.9mm <sup>2</sup> ]	4 1/4" [108mm]	19.78 [12761.3mm <sup>2</sup> ]
2JBH302515-60	30" [762mm]	2 1/2" [64mm]	1 1/2" [38mm]	4" [102mm]	8.64 [5574.2mm <sup>2</sup> ]	5 1/8" [130mm]	26.49 [17090.3mm <sup>2</sup> ]
2JBH362515-60	36" [915mm]	2 1/2" [64mm]	1 1/2" [38mm]	4" [102mm]	10.62 [6851.6mm <sup>2</sup> ]	6" [152mm]	28.53 [18406.4mm <sup>2</sup> ]

## Service Fittings

**Wiremold®** offers a full line of service fittings, including FloorPort™ Cover Assemblies, for Walkercell Cellular Raceway Systems to meet a wide range of applications. For additional information, refer to the Legrand website ([www.legrand.us/wiremold](http://www.legrand.us/wiremold)) or the current versions of the Wiremold Catalog (ED1560) or Product Specifications for Service fittings.



**FloorPort Series Flanged  
Cover Assembly installed  
in a carpeted floor.**



**Wiremold**

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