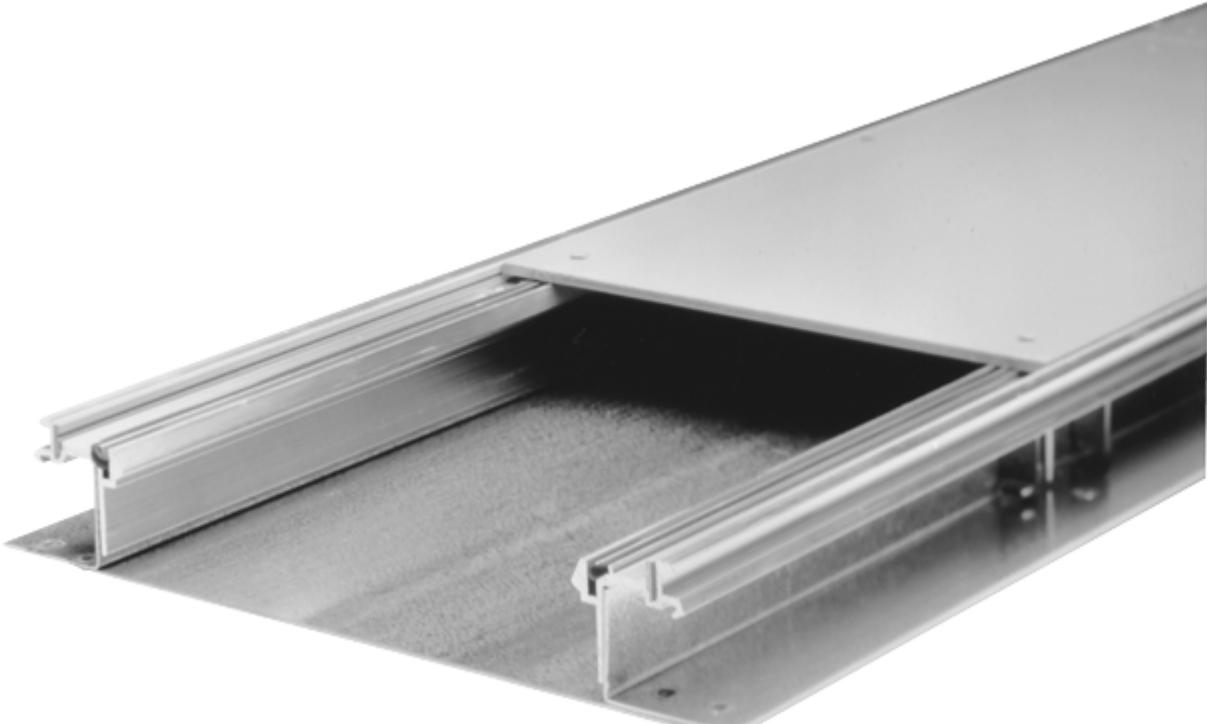


# Trench Duct

Catalog  
5230CT9601R10/08

2009  
Class 5230



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by Schneider Electric



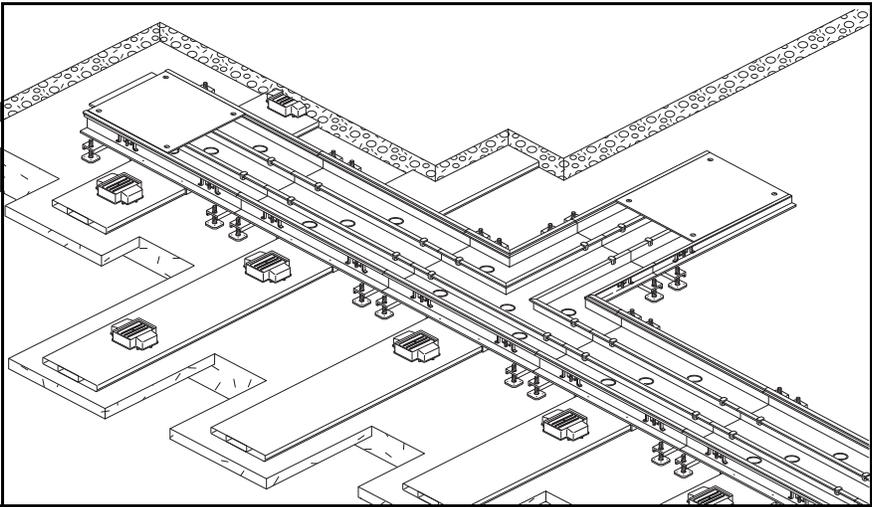


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# Trench Duct

# Application



## Product Description

Trench duct is a flush electrical raceway system. It is commonly used as:

- a feeder for the cells of a cellular steel floor system.
- a feeder for the distribution ducts of an underfloor duct system.
- a flush self-contained raceway system for computer areas, laboratories, and medical imaging facilities.

## Standard Sizes and Types

Standard trench duct cover plate widths are:

- 6 in. (152 mm)
- 9 in. (229 mm)
- 12 in. (305 mm)
- 18 in. (457 mm)
- 24 in. (610 mm)
- 30 in. (762 mm)

Trench ducts can be one compartment or divided into two or three compartments to separate different services. Other widths, depths, and numbers of compartments can be manufactured for special applications.

Trench duct is available in the following system types:

- Unassembled—bottomless
- Unassembled—intermittent bottom
- Factory-assembled

All three systems are Underwriters Laboratories (UL) listed and basically the same, with differences only in which components are used and the method of assembly.

## Trench Duct Unassembled Trench Duct Components

### Unassembled Trench Duct Components

#### Side Rail Assembly

Side rail assemblies are the heart of the railway system. They are furnished in 10 ft. (3 m) lengths and are positioned opposite each other by the use of spacer bars to form the various widths of trench duct. Side rails are coupled together and aligned by a wraparound coupler and aligner. Two screws in the coupler engage abutting side rails and assure continuity of ground.

The side rail assemblies have a full 1 in. (25 mm) of height adjust.

- 2.375–3.375 in. adjustability (60–86 mm) for 2.5 in. (64 mm) deep trench
- 3–4 in. adjustability (76–102 mm) for 3.25 in. (83 mm) deep trench

Side rail assemblies have a longitudinal slot along the full length of the extrusion to accept the cover plate hold-down screws. This permits cover plates to be placed anywhere along the run of trench without the restriction of fixed cover plate screw-hole locations. The bottom flange of this assembly forms a continuous weld tab along the entire length of the trench.



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#### U-Trough and Z-Dividers

Most trench duct systems contain wiring for more than one type of service. Separation of the various services must be maintained.

A U-trough is used as the power compartment in bottomless trench ducts with cellular floor systems.

The Z-divider is used in bottom type trench systems.

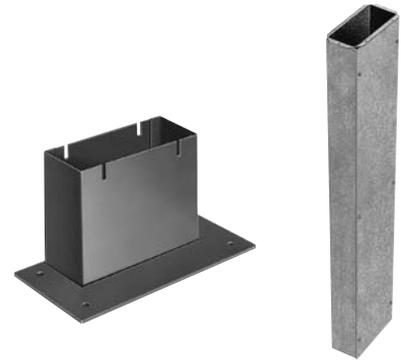


## Vertical Elbows and Risers with Cabinet Connectors

A vertical elbow is a short section of trench duct with a riser welded to it. A vertical elbow can be mounted directly onto the side rail assemblies of the trench duct. The longitudinal screw slot in the side rail assemblies allows for tolerance, thereby enabling an exact positioning of the elbow.

The riser is manufactured to slip-fit on the elbow. One face of the riser is removable, allowing easy access for pulling wire and cable. A matching cabinet connector is manufactured to slip-fit on the riser and attach to the underside of a standard depth power panel tub.

A riser and cabinet connector, used as a power feeder, always uses a vertical elbow. However, a riser and cabinet connector are seldom used as a telephone feeder. Open telephone cabling from the vertical elbow to a terminal board is permissible and most often preferable.



## Cover Plates

Cover plates are made of 0.25 in. (6 mm) nominal thickness steel, phosphatized with a baked enamel finish. Cover plate screw holes accommodate a 0.12 in. (3 mm) high pan-head screw for tile floor finishes, or flat head screws that finish flush for carpet installations. Screw holes in the opposite corners are threaded so that a 0.37 in. (10 mm) lifting bolt can be used for removing and replacing covers. Suction cups can also be used to remove covers.

## Bottom Plates

Bottom plates are 5 ft. (1.5 m) long for ease of handling and are manufactured of 14-gauge galvanized steel. The width of the bottom plates is 3 in. (76 mm) wider than the cover plates.

# Trench Duct

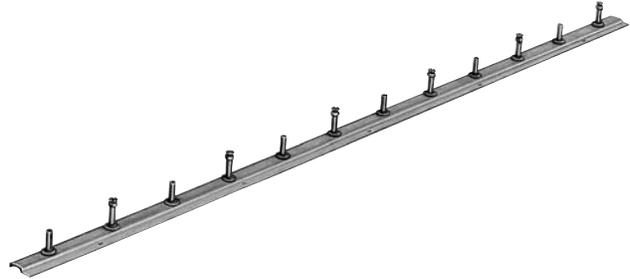
## Unassembled Trench Duct Components

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### Support Post Strips

Underwriters Laboratories permits 16.125 in. (409 mm) of free support span for cover plates. This is to control the amount of deflection and permanent set encountered in normal office floor loadings. The support post strip is available (where needed) to provide intermediate support in bottomless trench duct.

The support posts are mounted on a 5 ft. (1.5 m) channel and are adjustable to the underside of the cover plate. A nut locks the post firmly in place. The adjustable support posts are welded directly to the trench bottom plate in the factory-assembled bottom-type trench.



---

### End Closures

End closures, by design, close the end of a system run. They have a “0” length, thereby causing no field application problems related to length of runs. The end closure screws into the slot provided in the side rail assembly.

The slot has an upward and downward adjustment to correspond to the adjustment of the side rail assemblies.



---

### Spacer Bar and Partition Height Adjustment Gauge

The spacer bar is used to establish exact width by placing two pins in either end of the bar to which engages the cover plate screw slot. After the side rail assemblies are adjusted to proper height, you can reverse the bar (with the pins up) to become a gauge for accurate partition adjustment.



# Trench Duct Unassembled Trench Duct Components

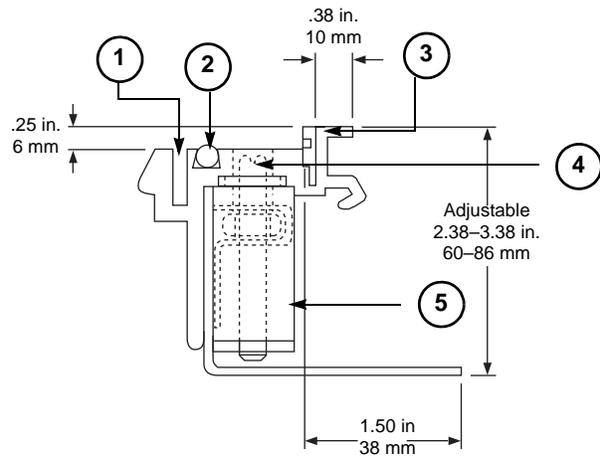
## Railway Trench Duct

Use 10 ft. (3 m) long trench duct rail assemblies and other components listed below to field-assemble trench duct to fit specific job requirements. Side rail assemblies can be field cut to meet job conditions. Cover plates are shipped separately. Longitudinal slot for cover plate screws in side rail assembly permits random placement of cover plates. Cover plates are a standard 2 ft. (0.61 m) long and can be modified to suit odd lengths of trench duct runs. Spacer bars assure correct width and partition height adjustment. Illustrated installation instructions are included with all orders.



Catalog Number RS-120

1. Cover plate screw slot
2. Cover plate gasket
3. 0.125 in. (3 mm) or 0.0625 in. (2 mm) Wide – reversible tile trim
4. Adjusting screw - 5 per rail
5. Concrete locking lug



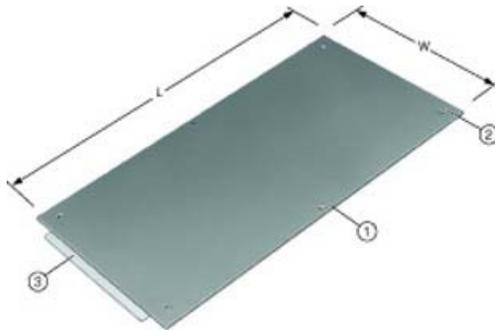
| Catalog Number | Weight |     |
|----------------|--------|-----|
|                | Lbs.   | Kg. |
| RS-120         | 20.0   | 10  |

For device with 3–4 in. (76–102 mm) adjustment range, add -3 suffix (RS120-3)

## Cover Plates

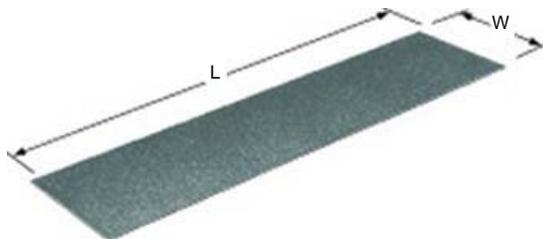
1. 0.25 in. (6 mm) nominal thick steel plates
2. Four clearance holes for cover plate hold-down screws. Two are tapped for the use of a 0.375 in. (10 mm) bolt as a lifting device
3. Gasket support

**NOTE:** 12 in. (305 mm) long coverplates are available.



| Catalog Number | Width-W |     | Length-L |     |
|----------------|---------|-----|----------|-----|
|                | in.     | mm  | in.      | mm  |
| RCP0624        | 6       | 152 | 24       | 610 |
| RCP0924        | 9       | 229 | 24       | 610 |
| RCP1224        | 12      | 305 | 24       | 610 |
| RCP1824        | 18      | 457 | 24       | 610 |
| RCP2424        | 24      | 610 | 24       | 610 |
| RCP3024        | 30      | 762 | 24       | 610 |

## Bottom Plates



| Catalog Number | Width-W |     | Length-L |      |
|----------------|---------|-----|----------|------|
|                | in.     | mm  | in.      | mm   |
| RB06-60        | 9       | 228 | 60       | 1524 |
| RB09-60        | 12      | 305 | 60       | 1524 |
| RB12-60        | 15      | 381 | 60       | 1524 |
| RB18-60        | 21      | 533 | 60       | 1524 |
| RB24-60        | 27      | 686 | 60       | 1524 |
| RB30-60        | 33      | 838 | 60       | 1524 |

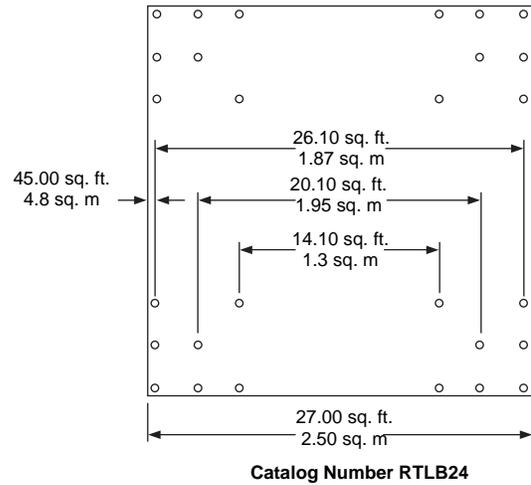
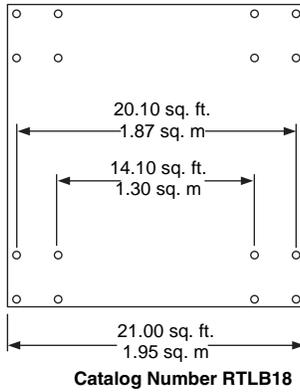
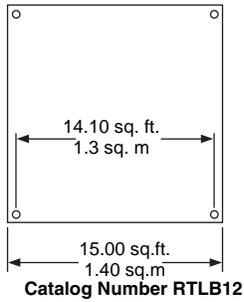
# Trench Duct

## Unassembled Trench Duct Components

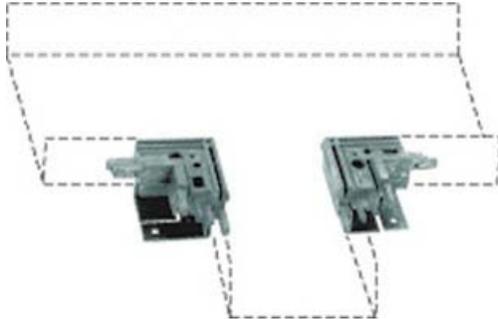
### Bottom Plates for Elbows



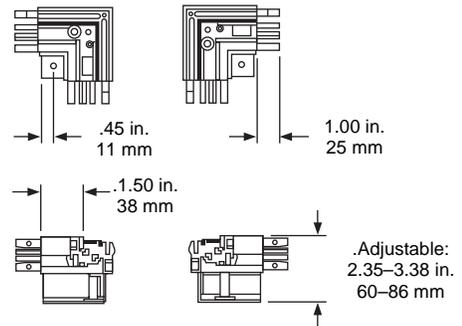
**NOTE:** All holes are 0.312 in. (8 mm) in. diameter



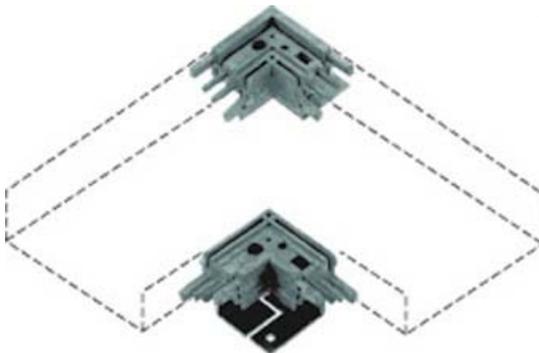
### Tee-RT



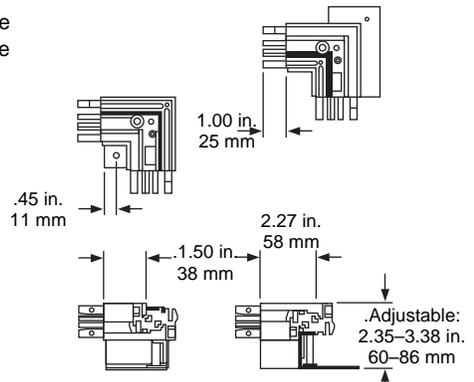
When a RT25 or RT3 is ordered, the two corner assemblies shown are furnished.



### Horizontal Elbow-RL



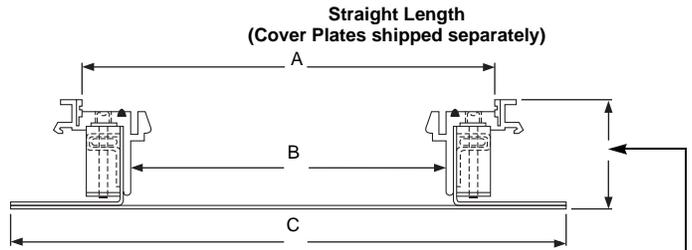
When a RL is ordered, the two corner assemblies are shown shipped.



# Factory Assembled Trench Duct

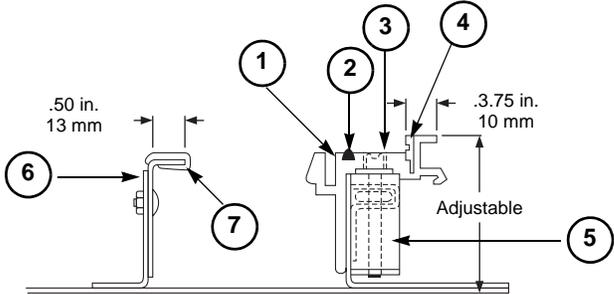
## Straight Lengths

1. Standard length of trench duct is 10 ft. (3 m). Cover plates are shipped separately.
2. Features of trench duct are as follows:
  - a. Trench duct width is cover plate width.
  - b. Tub width is trench duct width less 1.875 in. (48 mm).
  - c. Overall width (bottom flange to flange) is 3 in. (76 mm) wider than trench duct width.
  - d. Standard depth is adjustable from 2.375–3.375 in. (61–86 mm). Also available as standard depth adjustable from 3–4 in. (76–102 mm). Other depths available.
  - e. Tees, crosses, and horizontal elbows are shipped complete with cover plates assembled.
  - f. Gray vinyl tile trim is furnished as standard. Aluminum is available when requested.
3. The following features are available:
  - a. Cover plate support post.
  - b. Double tile trim on two sides of covers.
  - c. Double tile trim on four sides of covers.
  - d. Tunnels in horizontal elbows, tees and crosses



Assembly has a 1 in. adjustment. Standards are 2.375–3.375 in. (61–86 mm) 2.5 in. (64 mm) depth and 3–4 in. (76–102 mm) for 3.25 in. (83 mm) depth.

| Trench Width |     | Cover Plate Width-A |     | Bottom Plate Width-B |     | Tub Width-C |     | Tub Assembly Length |      |
|--------------|-----|---------------------|-----|----------------------|-----|-------------|-----|---------------------|------|
| in.          | mm  | in.                 | mm  | in.                  | mm  | in.         | mm  | in.                 | mm   |
| 6            | 152 | 6                   | 152 | 9                    | 229 | 4.10        | 104 | 120                 | 3048 |
| 9            | 229 | 9                   | 229 | 12                   | 305 | 7.10        | 180 | 120                 | 3048 |
| 12           | 305 | 12                  | 305 | 15                   | 381 | 10.10       | 257 | 120                 | 3048 |
| 18           | 457 | 18                  | 457 | 21                   | 533 | 16.10       | 409 | 120                 | 3048 |
| 24           | 610 | 24                  | 610 | 27                   | 686 | 22.10       | 561 | 120                 | 3048 |
| 30           | 762 | 30                  | 762 | 33                   | 838 | 28.10       | 714 | 120                 | 3048 |

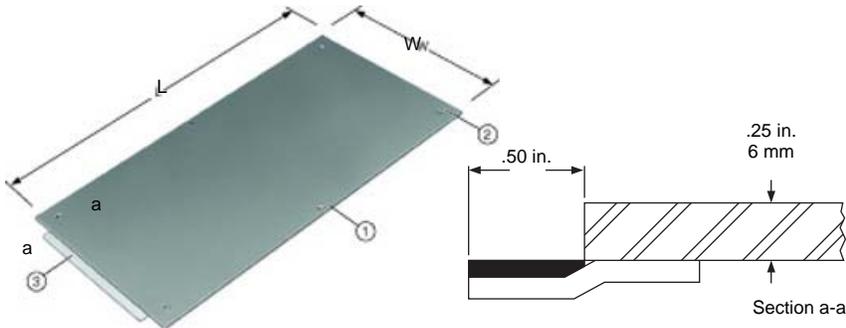


1. Cover plate screw slot
2. Cover plate gasket
3. Adjusting screw – 5 per rail
4. 0.125 in. (3 mm) wide – reversible tile trim
5. Concrete locking lug
6. Adjustable height partition
7. Plastic sound dampener

# Trench Duct

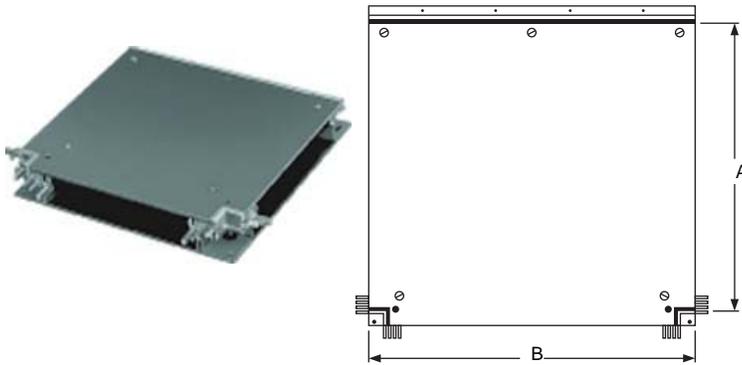
## Factory Assembled Trench Duct

### Cover Plates (ordered separately)



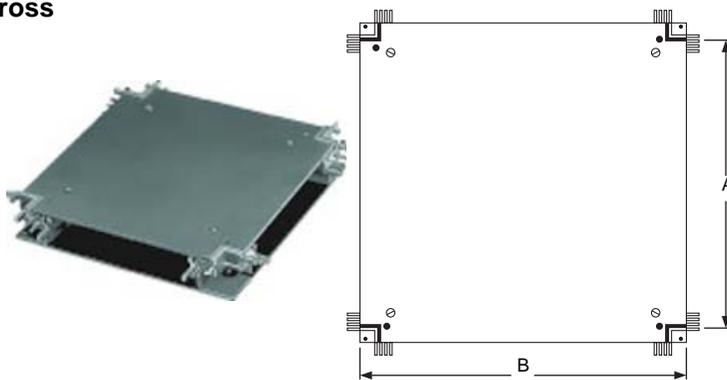
| Catalog Number | Width-W |     | Length-L |     |
|----------------|---------|-----|----------|-----|
|                | in.     | mm  | in.      | mm  |
| RCP0624        | 6       | 152 | 24       | 610 |
| RCP0924        | 9       | 229 | 24       | 610 |
| RCP1224        | 12      | 305 | 24       | 610 |
| RCP1824        | 18      | 457 | 24       | 610 |
| RCP2424        | 24      | 610 | 24       | 610 |
| RCP3024        | 30      | 762 | 24       | 610 |

### Tee



| Catalog Number | Width |     | Weight |     |
|----------------|-------|-----|--------|-----|
|                | in.   | mm  | Lbs.   | Kg. |
| RTV 062100-011 | 6     | 152 | 8      | 4   |
| RTV 092100-014 | 9     | 229 | 16     | 7   |
| RTV 122100-017 | 12    | 305 | 24     | 11  |
| RTV 182100-023 | 18    | 457 | 44     | 20  |
| RTV 242100-029 | 24    | 610 | 71     | 32  |
| RTV 302100-035 | 30    | 712 | 111    | 50  |

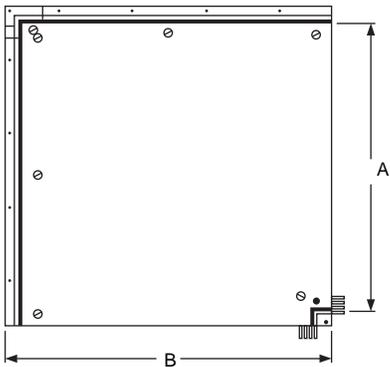
### Cross



| Catalog Number | Width |     | Weight |     |
|----------------|-------|-----|--------|-----|
|                | in.   | mm  | Lbs.   | Kg. |
| RXV 062100-012 | 6     | 152 | 15     | 7   |
| RXV 092100-015 | 9     | 229 | 19     | 9   |
| RXV 122100-018 | 12    | 305 | 23     | 10  |
| RXV 182100-024 | 18    | 457 | 42     | 19  |
| RXV 242100-030 | 24    | 610 | 68     | 31  |
| RXV 302100-036 | 30    | 712 | 106    | 48  |

# Trench Duct Factory Assembled Trench Duct

## Horizontal Elbow



| Catalog Number | Width |     | Weight |     |
|----------------|-------|-----|--------|-----|
|                | in.   | mm  | Lbs.   | Kg. |
| RHV 062100-009 | 6     | 152 | 8      | 4   |
| RHV 092100-012 | 9     | 229 | 15     | 7   |
| RHV 122100-015 | 12    | 305 | 23     | 10  |
| RHV 182100-021 | 18    | 457 | 43     | 20  |
| RHV 242100-027 | 24    | 610 | 70     | 32  |
| RHV 302100-033 | 30    | 712 | 100    | 45  |

| Trench Width |     | Cover Plate Width-A |     | Bottom Plate Width-B |     | Tub Width-C |     |
|--------------|-----|---------------------|-----|----------------------|-----|-------------|-----|
| in.          | mm  | in.                 | mm  | in.                  | mm  | in.         | mm  |
| 6            | 152 | 6                   | 152 | 9                    | 229 | 4.10        | 104 |
| 9            | 229 | 9                   | 229 | 12                   | 305 | 7.10        | 180 |
| 12           | 305 | 12                  | 305 | 15                   | 381 | 10.10       | 257 |
| 18           | 457 | 18                  | 457 | 21                   | 533 | 16.10       | 409 |
| 24           | 610 | 24                  | 610 | 27                   | 686 | 22.10       | 561 |
| 30           | 762 | 30                  | 762 | 33                   | 838 | 28.10       | 714 |

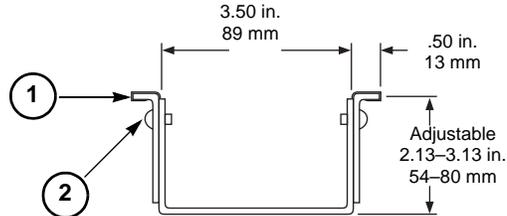
Cover plates are furnished in place as part of these devices

# Trench Duct Accessories

## Accessories

**NOTE:** All part numbers shown are for use with trench duct that is adjustable from 2.37–3.37 in. (61–86 mm). For devices to be used with 3–4 in. (76–102 mm) adjustable trench, add -3 suffix to all part numbers shown.

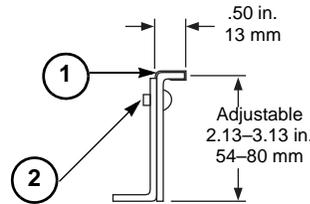
### U-Compartment



1. Plastic sound dampeners
2. Temporary 10–24 in. holding screw for adjustable partitions

| Catalog Number | Weight |     |
|----------------|--------|-----|
|                | Lbs.   | Kg. |
| RUC-60         | 24     | 11  |

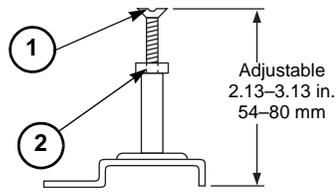
### Z-Divider



1. Plastic sound dampeners
2. Temporary holding screw for adjustable partitions

| Catalog Number | Weight |     |
|----------------|--------|-----|
|                | Lbs.   | Kg. |
| RZD-60         | 10     | 5   |

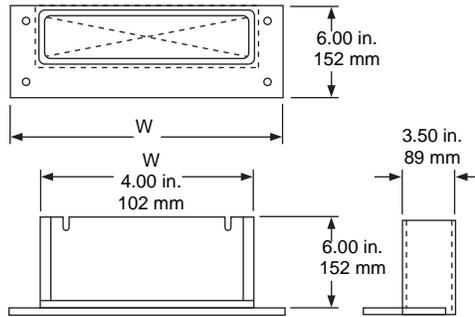
### Support Post Strip



1. Support post screw
2. Lock nut

| Catalog Number | Weight |     |
|----------------|--------|-----|
|                | Lbs.   | Kg. |
| RSP-60         | 6      | 3   |

## Vertical Elbow

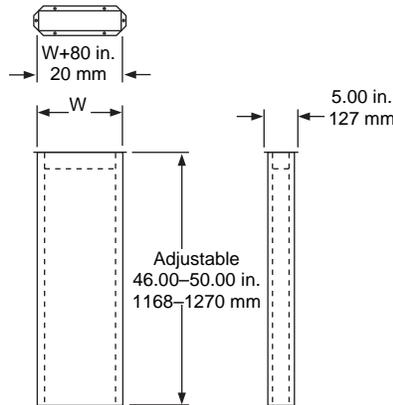


| Catalog Number | Width |     |
|----------------|-------|-----|
|                | in.   | mm  |
| RVE-06         | 6     | 152 |
| RVE-09         | 9     | 229 |
| RVE-12         | 12    | 305 |
| RVE-18         | 18    | 457 |
| RVE-24         | 24    | 610 |
| RVE-30         | 30    | 762 |

## Panel Rise and Connector

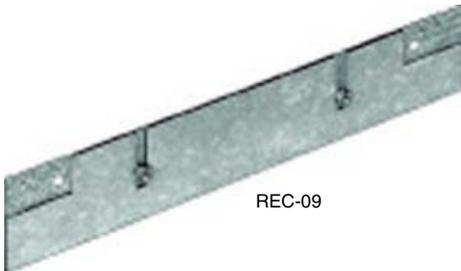


RRC-09

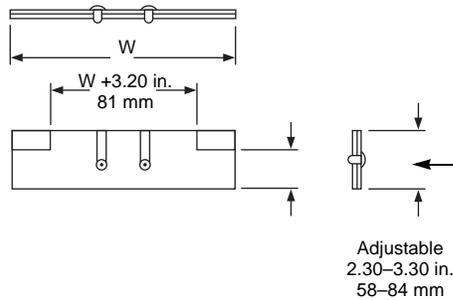


| Catalog Number | Width |     |
|----------------|-------|-----|
|                | in.   | mm  |
| RRC-06         | 2     | 51  |
| RRC-09         | 5     | 127 |
| RRC-12         | 8     | 203 |
| RRC-18         | 14    | 356 |
| RRC-24         | 20    | 508 |
| RRC-30         | 26    | 660 |

## End Closure

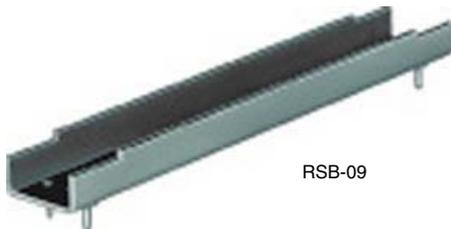


REC-09

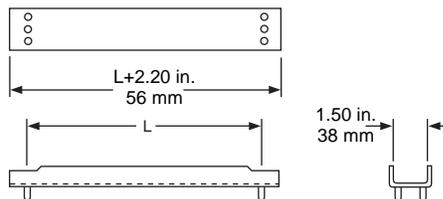


| Catalog Number | Width |     |
|----------------|-------|-----|
|                | in.   | mm  |
| REC-06         | 6.50  | 165 |
| REC-09         | 9.50  | 241 |
| REC-12         | 12.50 | 318 |
| REC-18         | 18.50 | 470 |
| REC-24         | 24.50 | 622 |
| REC-30         | 30.50 | 775 |

## Space Bar



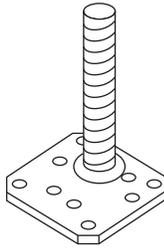
RSB-09



| Catalog Number | Length-L |     |
|----------------|----------|-----|
|                | in.      | mm  |
| RSB-06         | 4        | 102 |
| RSB-09         | 7        | 178 |
| RSB-12         | 10       | 254 |
| RSB-18         | 16       | 406 |
| RSB-24         | 22       | 569 |
| RSB-30         | 28       | 711 |

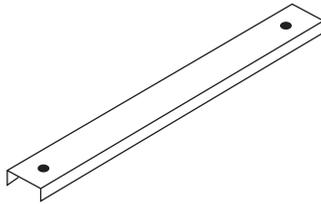
# Trench Duct Accessories

## Leveling Legs



| Catalog Number | Description                                    | Weight |      |
|----------------|--|--------|------|
|                |  | Lbs.   | Kg.  |
| G1910-3        | 3 in. (76 mm) Leveling Leg for Support Channel | 0.21   | 0.09 |

## Trench Duct Support Channel

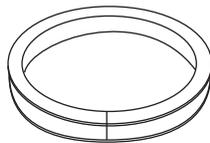


| Catalog Number | Description   | Weight |      |
|----------------|---|--------|------|
|                |   | Lbs.   | Kg.  |
| G1500-T12      | Support channel for 9 in. (229 mm) and 12 in. (305 mm) wide trench  | 1.30   | 0.60 |
| G1500-T24      | Support channel for 18 in. (457 mm) and 24 in. (610 mm) wide trench | 2.00   | 0.90 |
| G1500-T36      | Support channel for 30 in. (762 mm) wide trench                     | 2.90   | 1.30 |

## Tape

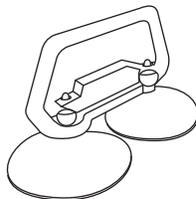
| Catalog Number | Description  | Weight |      |
|----------------|--|--------|------|
|                |  | Lbs.   | Kg.  |
| G1414          | 2 in. (51 mm) Wide for Trench Cover Plate (180 ft./roll) (54864 mm/roll) | 1.20   | 0.50 |

## Plastic Grommets



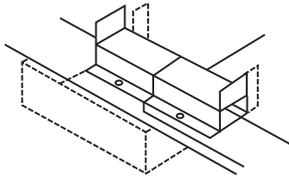
| Catalog Number | Description                      | Weight |      |
|----------------|----------------------------------|--------|------|
|                |                                  | Lbs.   | Kg.  |
| G1472-2.5P     | 2.5 in. (64 mm) Diameter Grommet | 0.03   | 0.01 |
| G1472-3P       | 3 in. (76 mm) Diameter Grommet   | 0.03   | 0.01 |
| G1472-4P       | 4 in. (102 mm) Diameter Grommet  | 0.04   | 0.02 |
| G1472-36P      | 3 x 6 in. (76 x 152 mm) Grommet  | 0.04   | 0.02 |
| G1472-37P      | 3 x 7 in. (76 x 178 mm) Grommet  | 0.05   | 0.02 |
| RG50           | 50 ft. (15.24 m) Roll            | 2.00   | 0.90 |

## Cover Lifter



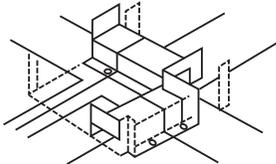
| Catalog Number | Description                       | Weight |      |
|----------------|-----------------------------------|--------|------|
|                |                                   | Lbs.   | Kg.  |
| G1735S         | Cover Lifter (Suction Cup Device) | 2.20   | 1.00 |

## Straight Through Tunnel



| Catalog Number | Description  | Weight |      |
|----------------|--|--------|------|
|                |  | Lbs.   | Kg.  |
| RSV12-2ST      | Straight tunnel for 12 x 2.5 in. (305 x 64 mm) floor trench tee or cross | 2.90   | 1.32 |
| RSV18-2ST      | Straight tunnel for 18 x 2.5 in. (457 x 64 mm) floor trench tee or cross | 3.80   | 1.73 |

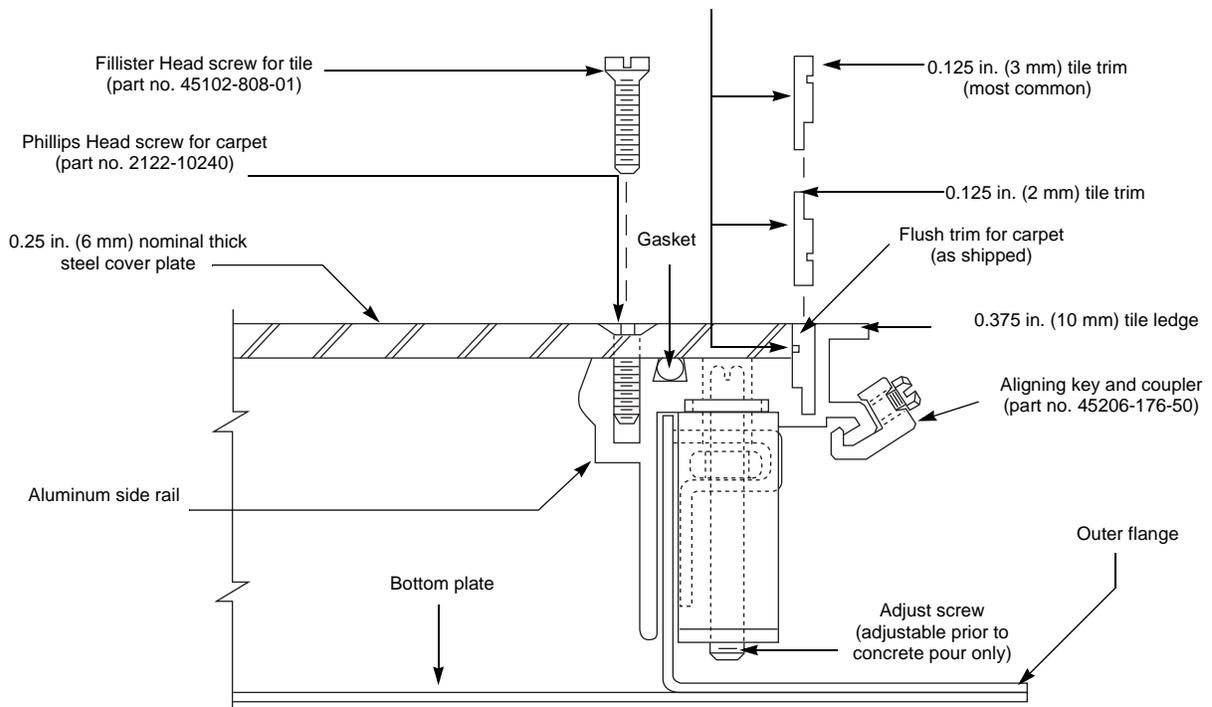
## 90° Elbow Tunnel



| Catalog Number | Description   | Weight |      |
|----------------|---|--------|------|
|                |   | Lbs.   | Kg.  |
| RSV12-2ET      | 90° tunnel for 12 x 2.5 in. (305 x 64 mm) floor trench tee or cross | 3.20   | 1.45 |
| RSV18-2ET      | 90° tunnel for 18 x 2.5 in. (457 x 64 mm) floor trench tee or cross | 5.10   | 2.32 |

### Cover Plate Screws Furnished for Tile or Carpet Installations

### Three Tile Trim Positions



### Cross Section: Details of Trench Duct Side Rail and Cover

## Trench Duct Unassembled Rail-Way Trench Duct Specifications

### Unassembled Rail-Way Trench Duct Specifications

1. All components of the trench header assembly shall be manufactured in accordance with the standards of Underwriters Laboratories, Inc.
2. Cover plates for trench duct shall be of nominal 0.25 in. (6 mm) thick steel sheet, roller leveled after being sheared to size.
3. The tile trim strip shall be of neutral gray vinyl and be designed so that either a 0.06 in. (2 mm) or 0.12 in. (3 mm) wide trim edge is available.
4. The side rail assemblies shall be furnished in 10 ft. maximum lengths. Height adjustment shall be from:
  - 2.37–3.37 in. (61–86 mm) for a 2.25 in. (64 mm fill)
  - 3–4 in. (76–102 mm) for a 3.25 in. (83 mm) fillAssemblies shall be adjustable prior to the installation of the cover plates. The inside dimension of the trench shall not be more than 1.87 in. (48 mm) less than the cover plate width. Assemblies shall be non-adjustable after the pour to assure rigidity of installation.
5. The side rail assemblies shall utilize a continuous screw slot to receive the cover plates in random position anywhere along the trench duct run.
6. The power compartment (U-trough) shall be 3.25 in. (89 mm) wide. The access hole into the power cell shall be field-drilled. The side partitions of the U-trough shall be adjustable to provide a cover plate support. Installer shall adjust the barriers and weld them into permanent position with a 0.50 in. (13 mm) long weld approximately 2 ft. (610 mm) on center. Extruded plastic sound dampeners shall be provided on the top of the adjustable barriers at approximately 20 in. (508 mm) intervals. Adjustment and welding shall be done prior to placement of the covers to provide support during construction.
7. Any compartment greater than 16 in. (407 mm) wide shall have additional cover plate support.
8. The cover plates shall be a maximum of 2 ft. (610 mm) long, and the abutting ends shall be gasketed. Cover plates shall be held in place by screws. The holes in the cover plate shall accept 0.12 in. (3 mm) high pan-head screws if floor tile is used or flat head screws that shall finish flush with the cover plate if carpet is used. Cover plates shall be shipped separately to the job site.
9. Vertical elbows, where required, shall be an integral part of a cover plate. Tees, horizontal elbows, crosses, offsets, cover plate tape, grommets, end closures, risers and connectors shall be furnished to complete the installation as specified.

## **Factory Assembled Rail-Way Trench Duct Specifications**

1. All components of the trench header assembly shall be manufactured in accord with the standards of Underwriters Laboratories, Inc.
2. Cover plates for trench duct shall be of nominal 0.25 in. (6 mm) thick steel sheet, roller leveled after being sheared to size.
3. The tile trim strip shall be of neutral gray vinyl and be designed so that either a 0.06 in. (2 mm) or 0.12 in. (3 mm) wide trim edge is available.
4. Trench duct assemblies shall be furnished in 10 ft. maximum lengths. Height adjustment shall be from:
  - 2.37–3.37 in. (61–86 mm) for a 2.50 in. (64 mm) fill
  - 3–4 in. (76–102 mm) for a 3.25 in. (83 mm) fillAssemblies shall be adjustable prior to the installation of the cover plates. The tub portion of the trench shall not be more than 1.87 in. (48 mm) less than the cover plate width. Assemblies shall be non-adjustable after the pour to assure rigidity of installation.
5. The side rail assemblies shall utilize a continuous screw slot to receive the cover plates in random position anywhere along the trench duct run.
6. Provide trench partitions where required to maintain separation of services. The partition shall be adjustable to provide a cover plate support. Installer shall adjust barriers and weld barriers into permanent position with a 0.50 in. (13 mm) long weld approximately 2 ft. (610 mm) on center. Extruded plastic sound dampeners shall be provided on the top of the adjustable barriers at approximately 20 in. (508 mm) intervals. Adjustment and welding shall be done prior to the placement of covers to provide support during construction.
7. Any compartment greater than 16 in. (407 mm) wide shall have additional cover plate support.
8. The cover plates shall be a maximum of 2 ft. (610 mm) long and the abutting ends shall be gasketed. Cover plates shall be held in place by screws. The holes in the cover plate shall accept 0.12 in. (3 mm) high pan-head screws if floor tile is used or flat-head screws that shall finish flush with the cover plate if carpet is used. Cover plates shall be shipped to the job site separately from the trench duct assemblies.
9. Vertical elbows, where required, shall be an integral part of a cover plate. Tees, horizontal elbows, crosses, offsets, cover plate tape, grommets, end enclosures, risers and connectors shall be furnished to complete the installation as specified.

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