Section 13

Wire Management









Trench Duct

	in a management
Wireway	13-2
General Purpose—NEMA Type 1 Oiltight—NEMA Type 12 Raintight Wireway—NEMA Type 3R Raintight Trough—NEMA Type 3R	13-2 13-3 13-4 13-4
Wall Duct	13-4
Wall Duct General Description	13-4
Components and Accessories	13-5
Wall Duct Accessories	13-6
Trench Duct	13-7
Trench Duct General Description	13-7
•	
Trench Duct Fittings	13-7
Accessories and Components	13-8





Class 5100 / Refer to Catalog 5100CT0101



General Purpose-NEMA Type 1 Standards

Square-Duct wireway is Underwriters Laboratories listed as steel enclosed wireway and auxiliary gutter. CSA listing is also available.



Painted Hinge-Cover Type LDB—ANSI 61 Gray Polyester Powder Finish

Sizes

2-1/2", 4", and 6" sizes are manufactured from 16 gauge steel. Straight lengths are available with or without knockouts. Knockouts are of various sizes in sides and bottom of wireway. 8", 10", and 12" sizes are made of 14 gauge steel and are furnished without knockouts.

Table 13.1: General Purpose (Connectors not supplied; order separately)[1][2]

	2-1/2" x	2-1/2"	4" x	: 4"	6" x	6"	8" x 8"	10" x 10"	12" x 12"[3]
Component	Catalog	Number	Catalog	Number	Catalog	Number	Cat. No.	Cat. No.	Cat. No.
Component	With Knockouts	Without Knockouts	With Knockouts	Without Knockouts	With Knockouts	Without Knockouts	Without Knockouts	Without Knockouts	Without Knockouts
1' Length	LDB21KO	LDB21	LDB41KO	LDB41	LDB61KO	LDB61	LDB81	LDB101	LDB121
2' Length	LDB22KO	LDB22	LDB42KO	LDB42	LDB62KO	LDB62	LDB82	LDB102	LDB122
3' Length	LDB23KO	LDB23	LDB43KO	LDB43	LDB63KO	LDB63	LDB83	LDB103	LDB123
4' Length	LDB24KO	LDB24	LDB44KO	LDB44	LDB64KO	LDB64	LDB84	LDB104	LDB124
5' Length	LDB25KO	LDB25	LDB45KO	LDB45	LDB65KO	LDB65	LDB85	LDB105	LDB125
6' Length	_	_	LDB46KO	LDB46	LDB66KO	LDB66	LDB86	LDB106	_
10' Length	LDB210KO	LDB210	LDB410KO	LDB410	LDB610KO	LDB610	LDB810	LDB1010	LDB1210
90° L	_	LDB290L	-	LDB490L	_	LDB690L	LDB890L	LDB1090L	LDB1290L
90° Sweep L	-	LDB290LS	-	LDB490LS	_	LDB690LS	LDB890LS	LDB1090LS	LDB1290LS
45° L	—	LDB245L	_	LDB445L	_	LDB645L	LDB845L	LDB1045L	LDB1245L
Тее	_	LDB2T		LDB4T	_	LDB6T	LDB8T	LDB10T	LDB12T
Junction Box	—	LDB2J	_	LDB4J	_	LDB6J	LDB8J	LDB10J	LDB12J
Telescope Ftg.	—	LDB2TF	_	LDB4TF	_	LDB6TF	LDB8TF	LDB10TF	LDB12TF
Connector[2]	—	LDB2C	_	LDB4C	_	LDB6C	LDB8C	LDB10C	LDB12C
Drop/Brkt Hgr.	—	LDB2H	_	LDB4H	—	LDB6H	LDB8H	LDB10H	LDB12H
Support Hanger	—	LDB2SH		LDB4SH	_	LDB6SH	LDB8SH	LDB10SH	LDB12SH
Closing Plate	LDB2CPKO	LDB2CP	LDB4CPKO	LDB4CP	LDB6CPKO	LDB6CP	LDB8CP[4]	LDB10CP[4]	LDB12CP[4]
Panel Adapter	_	LDB2A		LDB4A	_	LDB6A	LDB8A	LDB10A	LDB12A
Open Adapter	_	LDB2OA		LDB4OA	_	LDB6OA	LDB8OA	LDB10OA	LDB12OA
Reducer	—	_	_	LDB42R	—	LDB64R	LDB86R	LDB108R	LDB1210R
	_	_	_	_	_	_	_	—	LDB128R
Adapter to "LD"[5]	—	LDB2GASK	_	LDB4GAS	—	LDB6GAS	LDB8GASK	LDB10GASK	-
Barrier Kit—5 ft. long w/hardware	_	_	-	LJB45B	_	LJB65B	LJB85B	_	_
5 pc. Barrier Pack—5 ft. long	_	_	_	LJB45BKM	_	LJB65BKM	-	-	_
5 pc. Barrier Bracket— 2 compartment	_	_	_	LJB4BB2C	_	LJB6BB2C	_	_	_
5 pc. Barrier Bracket— 3 compartment	_	_	_	LJB4BB3C	_	LJB6BB3C	_	_	_

[1] For wireway fill information, see NEC 376.

- Add connectors for all lengths and fittings, except closing plates, reducers, and adapters. Painted 12" x 12" wireway is not furnished with hinge-cover (screw-cover only). These closing plates also available with knockout. Add "KO" to cat #.
- [2] [3] [4] [5]

 - Adapters to competitors' wireways also available. Contact your nearest Schneider Electric sales office for availability.





Oiltight—NEMA Type 12

Clitight—NEMA type 12 Type LJB Oiltight lay-in wireway is fully gasketed and used to protect runs of electrical wiring from oil, water, coolants, dirt, or dust as well as physical damage. This wireway is manufactured to exceed oiltight and NFPA standards for industrial control equipment. Lengths and fittings are made of 14 gauge steel with 10 gauge end flanges. Straight lengths and fittings have hinged covers with oil resistant gasket all around and are held closed with pull-down latches. All lengths and fittings are without knockouts. Type LJB lay-in Wireway is finished with ANSI-61 gray polyester powder finish over a corrosion resistant phosphate preparation. All Type LJB oiltight wireway is UL listed as steel enclosed wireway and auxiliary gutter. Conforms to NEMA Type 12.

Table 13.2: Type LJB Lay-in [6]

Description	2-1/2" x 2-1/2"	4" x 4"	6" x 6"	8" x 8"	12" x 6"
Description	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.
1" Nipple	LJB201	LJB401	LJB601	_	_
2" Nipple	LJB202	LJB402	LJB602	_	_
3" Nipple	LJB203	LJB403	LJB603	_	_
6" Length	LJB206	LJB406	LJB606	LJB806	LJB12606
1' Length	LJB21	LJB41	LJB61	LJB81	LJB1261
2' Length	LJB22	LJB42	LJB62	LJB82	LJB1262
3' Length	LJB23	LJB43	LJB63	LJB83	LJB1263
4' Length	LJB24	LJB44	LJB64	LJB84	LJB1263
5' Length	LJB25	LJB44 LJB45	LJB65	LJB85	LJB1265
10' Length [7]					
	LJB210	LJB410	LJB610	LJB810	LJB12610
45° Top Opening	LJB245LT	LJB445LT	LJB645LT	LJB845LT	LJB12645LT
45º Inside Opening	LJB245LI	LJB445LI	LJB645LI	LJB845LI	-
5º Outside Opening	LJB245LO	LJB445LO	LJB645LO	LJB845LO	-
00º Inside Opening	LJB290LI	LJB490LI	LJB690LI	LJB890LI	LJB12690LI
90º Outside Opening	LJB290LO	LJB490LO	LJB690LO	LJB890LO	LJB12690LO
90º Outside Top Opening	—	LJB490LOT	LJB690LOT	LJB890LOT	—
90º Top Opening	LJB290LT	LJB490LT	LJB690LT	LJB890LT	LJB12690LT
Fee—Top Opening	LJB2TT	LJB4TT	LJB6TT	LJB8TT	LJB126TT
ee—Outside Opening	LJB2TO	LJB4TO	LJB6TO	LJB8TO	_
Cross	LJB2X	LJB4X	LJB6X	LJB8X	LJB126X
lunction Box	LJB2JB	LJB4JB	LJB6JB	LJB8JB	_
Felescopic Fitting	LJB2TF	LJB4TF	LJB6TF	LJB8TF	LJB126TF
Closing Plate	LJB2CP	LJB4CP	LJB6CP	LJB8CP	LJB126CP
Panel Adapter	LJB2A	LJB4A	LJB6A	LJB8A	LJB126A
Bracket Hanger	LJB2BH	LJB4BH	LJB6BH	LJB8BH	_
Drop Hanger	LJB2DH	LJB4DH	LJB6DH	LJB8DH	_
Extra Connector Kit [6]	LJB2C	LJB4C	LJB6C	LJB8C	LJB126C
00º Connector	LJB290C	LJB490C	LJB690C	LJB890C	LJB12690C
Reducer to 2"	_	LJB42R	_	_	_
Reducer to 4"	_	—	LJB64R	_	LJB1264R
Reducer to 6"	—	—	—	LJB86R	LJB1266R
Cut-off fitting—not Lay-in	LJB2CF	LJB4CF	LJB6CF	LJB8CF	LJB126CF
Cut-off fitting—Lay-in	LJB2CFL	LJB4CFL	LJB6CFL	LJB8CFL	LJB126CFL
Transposition Fitting—CCW (Str)	LJB21CCW	LJB41CCW	LJB61CCW	_	-
Fransposition Fitting—CW (Str)	LJB21CW	LJB41CW	LJB61CW	_	_
Fransposition Elbow—CCW	LJB290LCCW	LJB490LCCW	LJB690LCCW	LJB890LCCW	_
ransposition Elbow—CW	LJB290LCW	LJB490LCW	LJB690LCW	LJB890LCW	_
Swivel fitting—Wireway to Wireway	LJB2S	LJB4S	LJB6S	LJB8S	_
Swivel fitting—Wireway to Box	LJB2SB	LJB4SB	LJB6SB	LJB8SB	_
Flex Fitting—Feed Through	LJB2FF	LJB4FF	LJB6FF	LJB8FF	_
Barrier Kit—5 ft. long w/hardware		LJB45B	LJB65B	LJB85B	LJB65B
5 pc. Barrier Pack—5 ft. long			LJB65BKM		LJB05B
5 pc. Barrier Bracket—2 compartment		LJB45BKM		_	
	—	LJB4BB2C	LJB6BB2C	-	-
5 pc. Barrier Bracket—3 compartment		LJB4BB3C	LJB6BB3C	—	—



Class 5250 / Refer to Catalog 5250CT9201

Raintight Wireway—NEMA Type 3R

Outdoor raintight wireway is used to protect electrical wiring against rain, sleet, and physical damage. Unique drip shield cover protects wiring from weather and maintains the "lay-in" feature for ease of wiring installation. Lengths and fittings are constructed of 16 gauge galvanized steel with ANSI-61 gray polyester powder finish over a corrosion resistant phosphate preparation. Underwriters Laboratories Listed as steel enclosed wireway and auxiliary gutter (*horizontal mounting only*). Conforms to NEMA Type 3R.

Table 13.3: Raintight Wireway

	4" x 4"	6" x 6"	8" x 8"
Description[8]	Catalog Number	Catalog Number	Catalog Number
1' Length	LDRB41M	LDRB61M	LDRB81M
5' Length	LDRB45M	LDRB65M	LDRB85M
0' Length	LDRB410M	LDRB610M	LDRB810M
0° L	LDRB490L	LDRB690L	LDRB890L
30° Sweep L	LDRB430SE	LDRB630SE	LDRB830SE
lee .	LDRB4T	LDRB6T	LDRB8T
lunction Box	LDRB4J	LDRB6J	LDRB8J
Panel Adapter	LDRB44A	LDRB66A	LDRB88A
Connector[8]	LDRB4C	LDRB6C	LDRB8C
Closing Plate	LDRB4CP	LDRB6CP	LDRB8CP
Drop Hanger	LDRB4DH	LDRB6DH	LDRB8DH
Vall Hanger	LDRB4WH	LDRB6WH	LDRB8WH
Reducer	_	LDRB64R	LDRB86R

Raintight Trough—NEMA Type 3R

Raintight trough is designed for ganging meter devices, panelboards, switches, and circuit breaker enclosures. Each length is a completely enclosed section with a removable cover that has provisions for sealing.

Design: 4" and 6" wireway is constructed of 16 gauge galvanized steel. 8", 10", and 12" wireway is constructed of 14 gauge galvanized steel. All raintight troughs conform to NEMA Type 3R.

Finish: ANSI-61 gray polyester powder finish over a corrosion resistant phosphate preparation. All raintight troughs are Underwriters Laboratories listed as steel enclosed wireway and auxiliary gutter (*horizontal mounting only*).

Table 13.4: Raintight Trough

Longeth	4" x 4"	6" x 6"	8" x 8"	10" x 10"	12" x 12"
Length	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1'	RDB41	RDB61	—	—	_
2'	RDB42	RDB62	RDB82	RDB102	RDB122
3'	RDB43	RDB63	RDB83	RDB103	RDB123
4'	RDB44	RDB64	RDB84	_	_
5'	RDB45	RDB65	RDB85	RDB105	RDB125
6'	_	RDB66	RDB86	RDB106	RDB126



Wall Duct General Description

UL Listed, File E65247, for Enclosure of Wiring to X-Ray Machines. Also available in aluminum for MRI application.

Wall duct is used as the continuation for standard trench duct in the floor. Wall duct can be routed up the wall and across the ceiling or under the finished floor (in ceiling space below) to provide a continuous lay-in raceway system from control consoles and floor equipment to overhead apparatus. Devices are furnished complete with covers and are available for either flush or surface mounted installations.

General Notes:

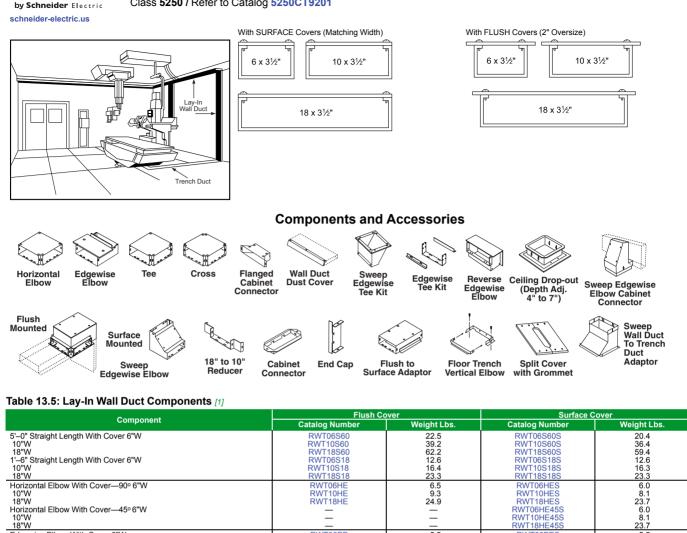
- Standard construction is 14 gauge steel with gray electrodeposition paint. Alternate construction is painted aluminum.
- · Covers and coupling devices are furnished with each device.
- Wire retainers are furnished with each device.
- · Straight lengths are field cut to length.
- Partitions and tunnels are to be field modified and installed where required.
- Hangers or other mounting devices to be furnished by others.

.

Typical Surface Mount, Straight-Length Wall Duct

SQUARE 🖸

Class 5250 / Refer to Catalog 5250CT9201



_

RWT06EE RWT10EE

RWT18EE

RWT06TE RWT10TE

RWT18TE

RWT10XE

RWT18XE

RWT10CUC

RWT06REE RWT10REE

RWT18REE

RWT10SFEE

RWT18SFEE

_

5.5 7.4 11.0

5.9 7.3 22.9

6.2

21.8

7.8 5.7 7.4 11.0

4.8 11.8

16.3

14.0

20.0

RWT10HE45S RWT18HE45S

RWT06EES RWT10EES RWT18EES

RWT06TES RWT10TES

RWT18TES

RWT10XES RWT18XES

RWT10CUCS

RWT06REES RWT10REES

RWT18REES

RWT06SSEES RWT10SSEES

RWT18SSEES

RWT10SWEECC RWT18SWEECC

_

5.5 7.5 11.1

6.2 8.5

24.1

1.3

8.0

5.8 7.5

11.1

10.0 12.0

16.5

_

Horizontal Elbow With Cover-45° 6"W

Flanged Cabinet Connector With Cover 10"W

Reverse Edgewise Elbow With Cover 6"W

Sweep Edgewise Elbow With Cover 6"W 10"W

Sweep Edgewise Elbow Cabinet Connector 10"W 18"W

Edgewise Elbow With Cover 6"W 10"W

10"W 18"W

18"W

10"W

18"W

10"W 18"W

18"W

Tee With Cover 6"W

18"W Cross With Cover 10"W



schneider-electric.us

Wall Duct Accessories

Table 13.6:	Lay-In	Wall	Duct	Access	ories	[2]
-------------	--------	------	------	--------	-------	-----

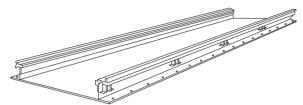
Accessories	Catalog Number	Weight Lbs.
5'-0" Partition	RWTP60	5.4
Straight through tunnel for tees [3] 10"W 18"W	RWT10ST RWT18ST	2.9 3.8
90º Elbow tunnel for crosses [3] 10"W	RWT10ET	3.2
18"W	RWT18ET	5.1
3 compartment tunnel for tees 10"W	RWT10PTE	5.0
18"W	RWT18PTE	6.0
3 compartment tunnel for crosses 10"W	RWT10PXE	8.0
18"W	RWT18PXE	9.0
Edgewise Tee Kit 10"W	RWT10ETK	1.3
18"W	RWT18ETK	2.1
Sweep Edgewise Tee Kit 10"W	RWT10SWET	8.0
18"W	RWT18SWET	8.0
Flush to Surface Adaptor 10"W	RWT10FS	11.9
_ 18"W	RWT18FS	16.4
Ceiling Drop-Out _12x12 Flush Cover 8"x8"	RWTCDO	15.0
Extra Coupling Device 10"W	RWT10COUP	.4
18"W	RWT18COUP	.5
Extra Straight Cover—30" long (Order 2 pcs. for 5 ft. of duct.) Flush 10"W 18"W Surface 10"W 18"W	RWT10SCOV RWT18SCOV RWT10SCOVS RWT18SCOVS	7.2 13.0 6.1 11.8

Table 13.7: Wall Duct Accessories [2]

Accessories	Catalog Number	Weight Lbs.
Reducer Coupling— 18" to 10" 10" to 6"	RWTRC RWT06RC	2.1 1.6
Cabinet Connector 6"W 10"W 18"W	RWT06CC RWT10CC RWT18CC	1.0 1.3 2.4
End Cap 6"W 10"W 18"W	RWT06EC RWT10EC RWT18EC	1.0 1.3 1.8
Vertical Elbows for: 6" Trench to 6" Wall Duct 12" Trench to 10" Wall Duct 12" Trench to 18" Wall Duct 18" Trench to 10" Wall Duct 18" Trench to 18" Wall Duct	RWT06FTVE06 RWT10FTVE12 RWT18FTVE12 RWT10FTVE18 RWT18FTVE18	1.1 1.2 1.2 1.3
Sweep Trench Duct to Wall Duct Adapter (available in surface cover only) 12" Trench to 10" Wall Duct 18" Trench to 18" Wall Duct	RWT10SWFTVE12 RWT18SWFTVE18	10.0 14.0
Split Cover with Grommet 12" long–3"x 8" Opening Flush 6"W 10"W 18"W Surface 6"W 10"W 18"W	RWT06ACP RWT10ACP RWT18ACP RWT06ACPS RWT10ACPS RWT18ACPS	2.6 3.1 4.8 2.0 2.7 4.0
Dust Cover—5 ft. long	RWTDCOV60	5.5
Grommet—100 ft. roll	RWTBG100	

Trench Duct General Description

- STANDARD LENGTH of trench duct is 10 ft. Gasketed cover plates are ordered and shipped separately.
- FEATURES of trench duct:
 - Trench duct width is cover plate width.
 - Tub width is trench duct width less 1.8".
 - Overall width (bottom flange to flange) is 3" wider than trench duct width.
 - Standard depth is adjustable from 2-3/8" to 3-3/8". Also available as standard is depth adjustable from 3" to 4". To order, change "2" to "3". Ex. RSV063100120. Applies to trench duct, elbows, crosses, tees, and reducers. Other depths available.
 - Tees, crosses, horizontal elbows, and reducers are shipped complete with cover plates assembled.
 - Grey vinyl tile trim is furnished as standard. Aluminum is available when requested.
 - All compartments over 17" wide must be supported with dividers or posts.



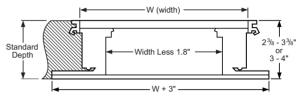


Table 13.8: Assembled Trench Duct

Т

by Schneider Electric schneider-electric.us

Straight		Trench Duct				
Sections	Length	Width	Catalog Number			
	10'-0"	6" 9" 12" 18" 24" 30"	RSV062100120 RSV092100120 RSV192100120 RSV182100120 RSV242100120 RSV242100120			
		Covers Only (5	Plates per 10' Length) [1]			
Full Length	24"	6" 9" 12" 18" 24" 30"	RCP0624 RCP0924 RCP1224 RCP1824 RCP2424 RCP2424			
	12"	12" 18"	RCP1212 RCP1812			
Factory Cut-to-Length	6'-0"L 4'-3- 1/2"L 3'-3- 1/2"L 2'-0"L 1'-0"L 0'-3-1/2"L	12" 12" 12" 12" 12" 12"	RSV122100072 RSV122100051.5 RSV122100039.5 RSV122100024 RSV122100012 RSV1221000012			
(12 [°] Wide Only) [°]	3–24" Long Covers [2] 2–24" Long Covers & 1 – Wall Du 1–24" & 1–12" Long Cover & 1–– 1–24" Long Cover [2] 1–12" Long Cover [2] 1–Wall Duct Vertical Elbow[2]	uct Vertical Elbow[2] Wall Duct Vertical Elbow [2]				

Trench Duct Fittings

Table 13.9: Trench Duct Fittings

	item	Width [3]	Catalog No.
ET TA	End Closures[4]	6" 9" 12" 24" 30"	REC06 REC09 REC12 REC18 REC18 REC24 REC30
	Vertical Elbows	6" 9" 12" 18" 24" 30"	RVE06 RVE09 RVE12 RVE18 RVE18 RVE24 RVE30
	Riser and Cabinet Connector (Removable Front)	6" 9" 12" 18" 24" 30"	RRC06 RRC09 RRC12 RRC18 RRC24 RRC30
	Z-Divider 5'-0" <i>[4]</i> Adjustable Barrier and Support Strip	RZD60	

[1] Straight length cover plates are shipped separately and must be ORDERED SEPARATELY.

[2] Covers and/or vertical elbows for connecting trench duct to lay-in wall duct—ORDER SEPARATELY.

[3] All devices through 18" width are available in aluminum. Height is factory-set to customer specifications from 2-1/2 to 4 inches. (Non-Adjustable)

[4] For 3" to 4" trench duct, add a "3" to end of catalog number.

VIRE MANAGEMEN

Class 5200 / Refer to Catalog 5230CT9601



schneider-electric.us

Table 13.9 Trench Duct Fittings (cont'd.)

Item	Width [3]	Catalog No.
Tape for Trench Duct (180 ft. rolls)	G1414	
Marker for Cellular Floor		G1426

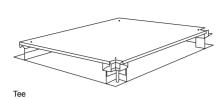


Table 13.10: Trench Duct Elbows, Tees, and Crosses

140.00	Complete Device			
Item	Width	Catalog Number		
90° Horizontal [5] Elbows	6" 9" 12" 18" 24"	RHV062100009 RHV092100012 RHV122100015 RHV182100021 RHV242100027		
	30"	RHV302100033		
45° Horizontal Elbow [5]	12"	RHV12245		
Tees [5]	6" 9" 12" 18" 24" 30"	RTV062100011 RTV092100014 RTV122100017 RTV182100023 RTV242100029 RTV302100035		
Crosses(5)	6" 9" 12" 18" 24" 30"	RXV062100012 RXV092100015 RXV122100018 RXV182100024 RXV242100030 RXV302100036		

Accessories and Components

Table 13.11: Trench Duct Accessories tem/Catalog Num Item/Catalog Number -12" U-Compartment Right Hand Reducer 18" to 12" Cover Included RRV182100012RR RUC60 5'-0" Long x 3 -1/2" Wide with Adjustable Height Sides 9" and 12" wide trench 18" and 24" wide trench 30" wide trench Support Channel Leveling Legs Not Included G1500T12 G1500T24 G1500T36 Leveling Legs Left Hand Reducer 18" to 12" Cover Included RRV182100012LR _12" G19103 5/16 x 18 x 3" 15 Reducing Tee 18" to 12" Cover Included Cover Lifter (Suction Cup Device) RTV182100017 G1735S Tunnels for Trench Duct Elbows (Tee or Cross) Straight through tunnel 90° elbow tunnel 6" 9" 12" 18" 24" 30" 90° tunnel for 12" trench 90° tunnel for 18" trench Straight tunnel for 12" trench Straight tunnel for 18" trench RSV122ET RSV182ET RSV122ST Spacer Bar and Barrier Adjustment Gage RSV182ST Support Post Strips RSP60

Table 13.12: Grommets

Grommet Material (50 ft. rolls) RG50

G

[3] All devices through 18" width are available in aluminum. Height is factory-set to customer specifications from 2-1/2 to 4 inches. (Non-Adjustable)

[5] Includes cover; shipped attached. All coverplate corner notches are 1–1/2" deep.