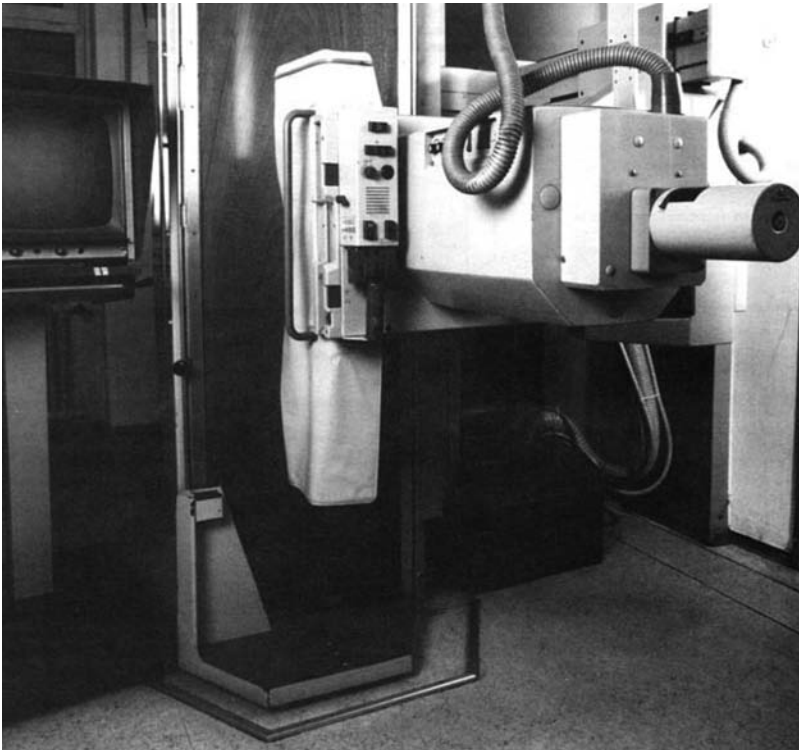


Raceway Solutions™

Wall Duct



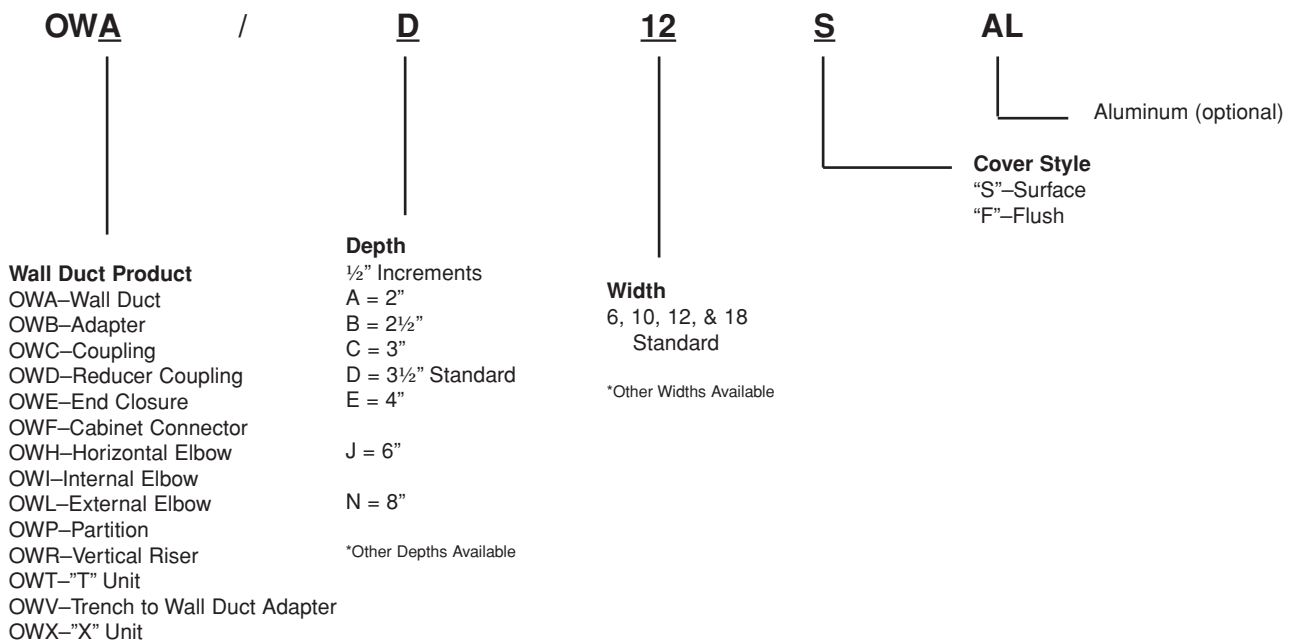
Flush or Surface Mounted Wiring System for X-Ray Rooms

Wall Duct is a steel raceway, approved by U.L. for the enclosure of wiring to X-ray machines in medical applications. The system provides complete lay-in wiring capability in order to accommodate the large cables and connectors used in today's installations.

Wall Duct, when used in combination with floor trench, provides protection for X-ray room wiring from control consoles to X-ray machines to power supplies to remote locations.

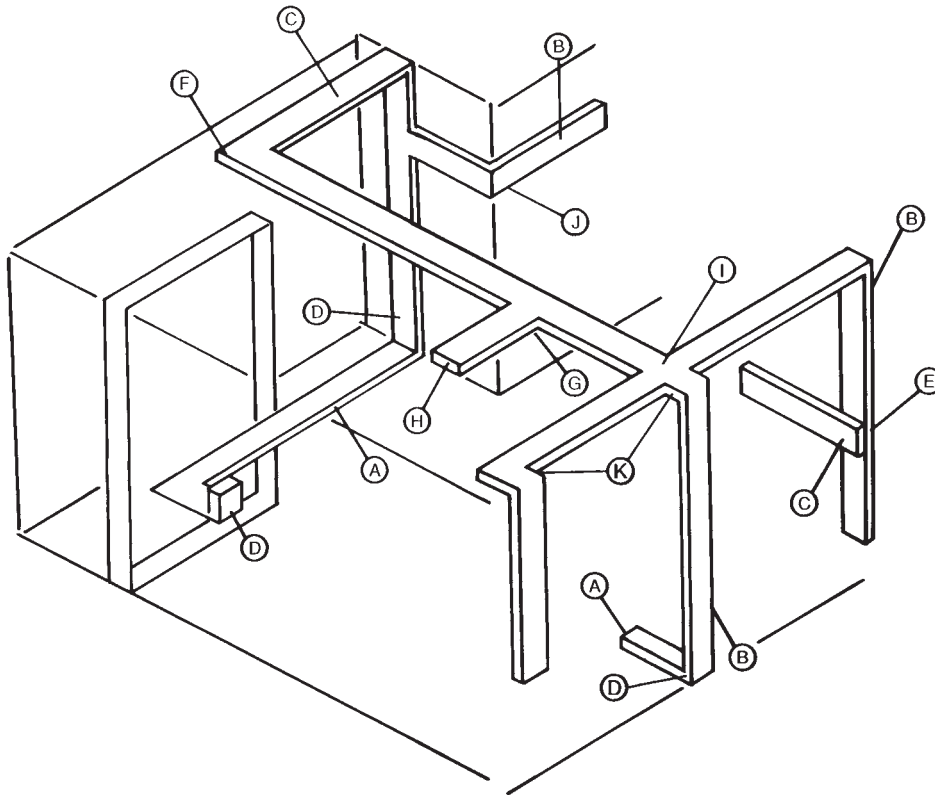
Wall Duct is available in either flush or surface mount and a combination will usually be required on any job. Vertical runs in the walls are usually flush mounted with horizontal runs on walls and all duct in ceiling plenum being surface type.

Catalog Number System



Raceway Solutions™

Wall Duct



Wall and Ceiling Duct Description

Wall Duct is manufactured of 14 gauge steel. Bodies are pre-galvanized G90-U and covers are dip painted. The covers may be field painted to match room interiors. Straight bodies are 5'0" long with two 30" coverplates.

Wall Duct is U.L. Listed under File Number: E116245

A. OKA/B12-3C—Trench 12" wide, 2½" deep, 3 compartment. See page 27.

B. OWA/D12F—Wall Duct -12" wide, 3½" deep, flush mounted. See page 37.

C. OWA/D12S—Wall Duct -12" wide, 3½" deep, surface mounted. See page 37.

D. OWR/D12F—Wall Duct Riser -12" wide, 3½" deep, flush mounted. See page 41.

E. OWB/D12-12—Wall Duct Flush to Surface Adapter -12" wide, 3½" deep flush mounted. See page 37.

F. OWH/D12S—Wall Duct 90° Horizontal Elbow -12" wide, 3½" deep, surface mounted. See page 39.

G. OWT/D12S—Wall Duct "T" Unit -12" wide, 3½" deep, surface mounted. See page 42.

H. OWE/D12S—Wall Duct End Closure -12" wide, 3½" deep, surface mounted. See page 38.

I. OWX/D12S—Wall Duct "X" Unit -12" wide, 3½" deep, surface mounted. See page 43.

J. OWL/D12F—Wall Duct External Elbow -12" wide, 3½" deep, flush mounted. See page 40.

K. OWI/D12F—Wall Duct Internal Elbow -12" wide, 3½" deep, flush mounted. See page 39.

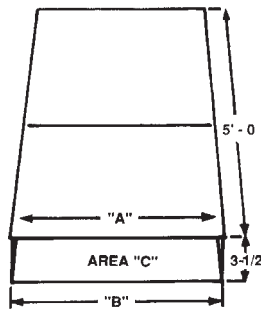
L. OWA/D18S—Wall Duct —18" wide, 3½" deep, surface mounted. See page 37.

M. OWA/D18F—Wall Duct —18" wide, 3½" deep, flush mounted. See page 37.



Raceway Solutions™

Wall Duct



12" or 18" wide x 3½" deep x 60" long body with two 30" long coverplates. Each piece includes one coupling (Cat. No. OWC/D12 or OWC/D18) and necessary screws.

Wall and Ceiling Duct

Cat. No.	"A" Cover Width	"B" Body Width	"C" Area
OWA/D12S	12"	11 ¹³ / ₁₆ "	39 sq.in.
OWA/D18S	18"	17 ¹³ / ₁₆ "	59 sq.in.
OWA/D12F	14"	11 ¹³ / ₁₆ "	39 sq.in.
OWA/D18F	20"	17 ¹³ / ₁₆ "	59 sq.in.

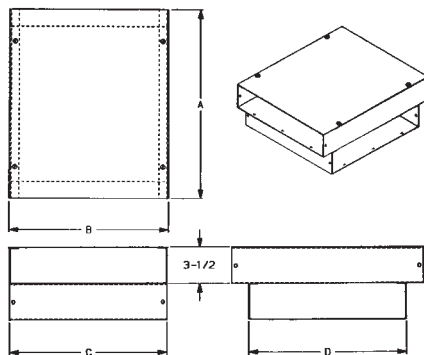
May be field cut to required length. See installation instructions.

Material: 14 gauge pre-galvanized steel. Also available in aluminum. (consult factory)
UL Listing No. E116245

Note: Table only an example of available sizes. Other lengths, depths & widths are available. Please refer to page 35 for catalog number system.



Flush to Surface Adapter



To transition from surface raceway to flush delivery.

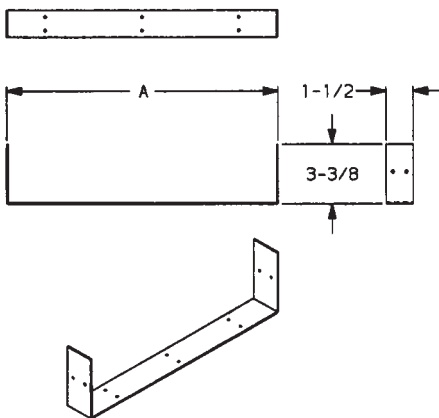
Cat. No.	A	B	C	D
OWB/D12-12	15"	12"	11 ¹³ / ₁₆ "	11 ¹³ / ₁₆ "
OWB/D12-18	15"	18"	17 ¹³ / ₁₆ "	11 ¹³ / ₁₆ "
OWB/D18-12	21"	12"	11 ¹³ / ₁₆ "	17 ¹³ / ₁₆ "
OWB/D18-18	21"	18"	17 ¹³ / ₁₆ "	17 ¹³ / ₁₆ "

Includes two couplings.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Coupling



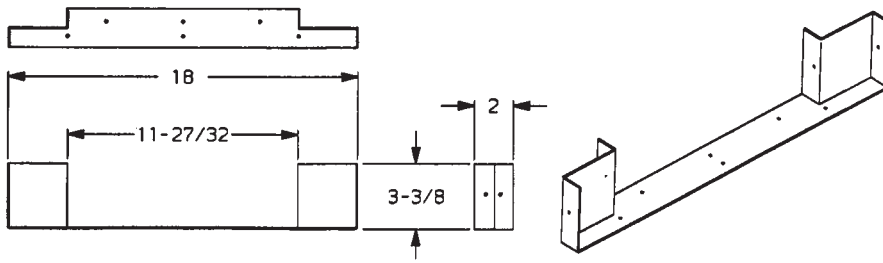
Cat. No.	A
OWC/D12	12"
OWC/D18	18"

Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct

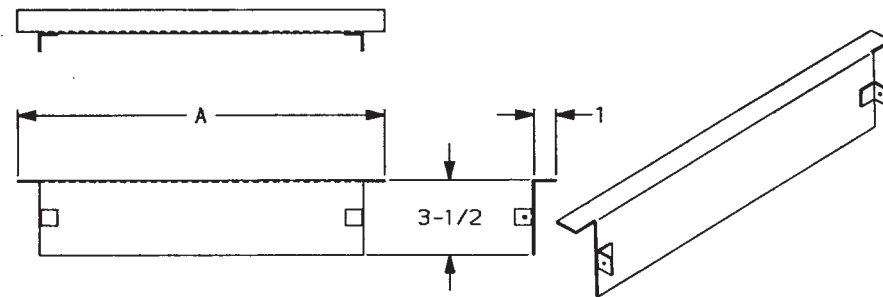


Reducer Coupling

Cat. No.	Description
OWD/D	Reduce from 18" to 12" duct

Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

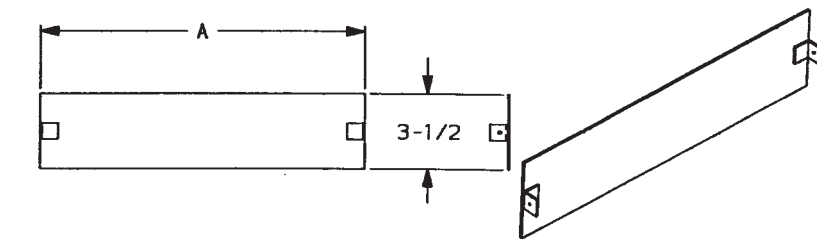


Flush End Closure

Cat. No.	A
OWE/D12F	14"
OWE/D18F	20"

Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

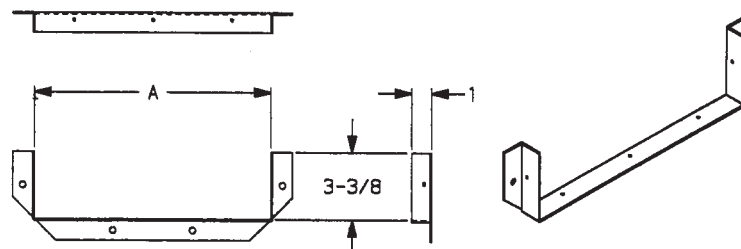


Surface End Closure

Cat. No.	A
OWE/D12S	12"
OWE/D18S	18"

Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



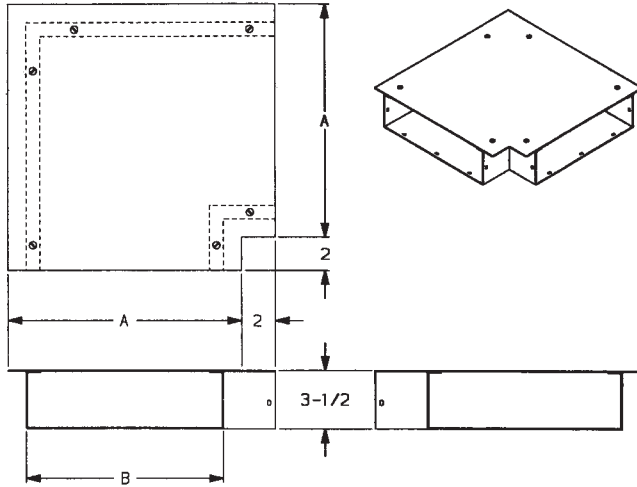
Cabinet Connector

Cat. No.	A
OWF/D12	11 7/8"
OWF/D18	17 7/8"

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct



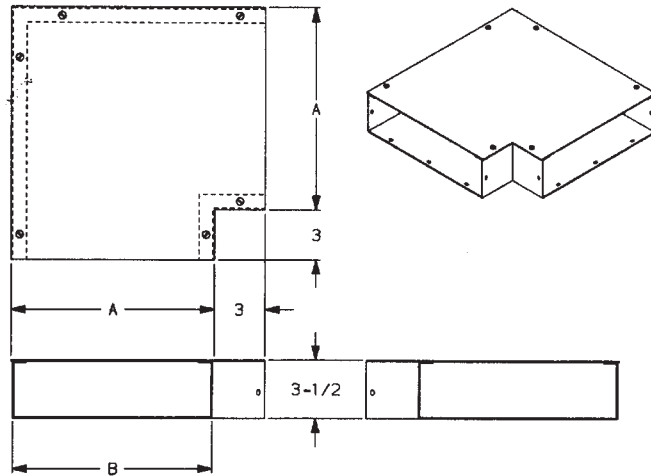
Flush 90°

Horizontal Elbow

Cat. No.	A	B
OWH/D12F	14"	11 ¹³ / ₁₆ "
OWH/D18F	20"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



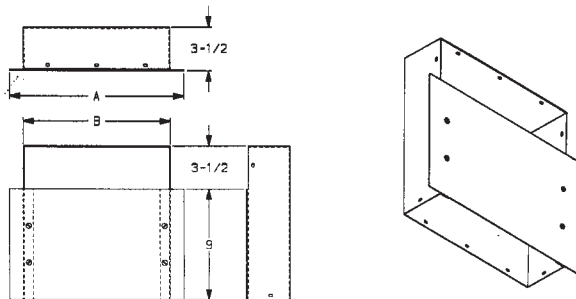
Surface 90°

Horizontal Elbow

Cat. No.	A	B
OWH/D12S	12"	11 ¹³ / ₁₆ "
OWH/D18S	18"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Flush Internal Elbow

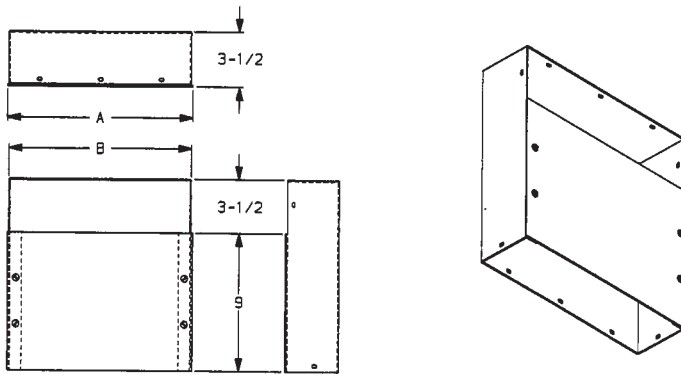
Cat. No.	A	B
OWI/D12F	14"	11 ¹³ / ₁₆ "
OWI/D18F	20"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct

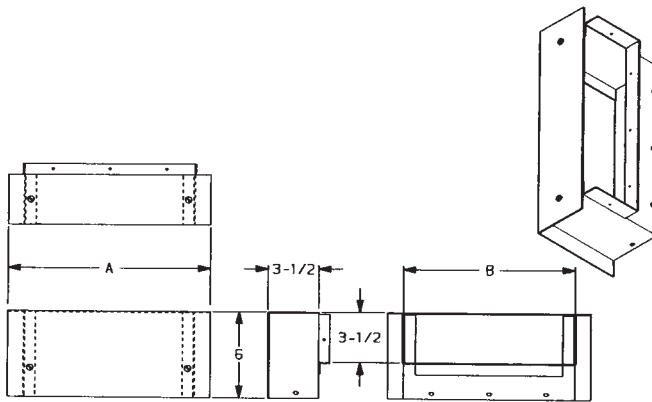


Surface Internal Elbow

Cat. No.	A	B
OWI/D12S	12"	11 ¹³ / ₁₆ "
OWI/D18S	18"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

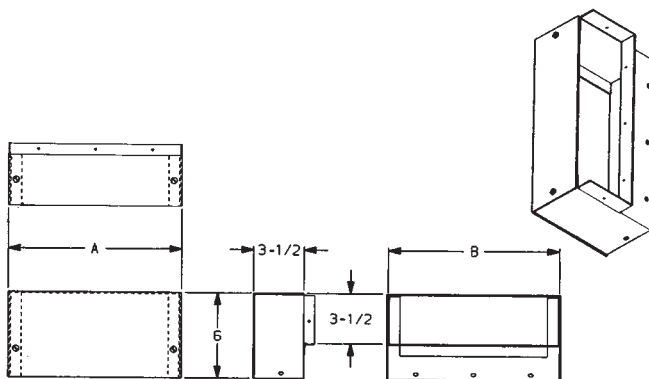


Flush External Elbow

Cat. No.	A	B
OWL/D12F	14"	11 ¹³ / ₁₆ "
OWL/D18F	20"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Surface External Elbow

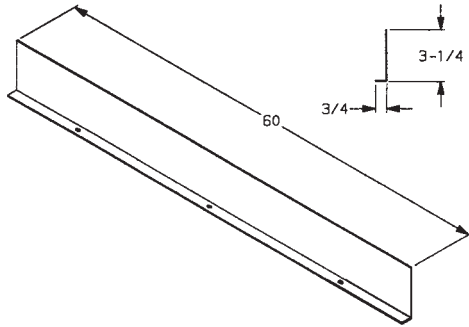
Cat. No.	A	B
OWL/D12S	12"	11 ¹³ / ₁₆ "
OWL/D18S	18"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct

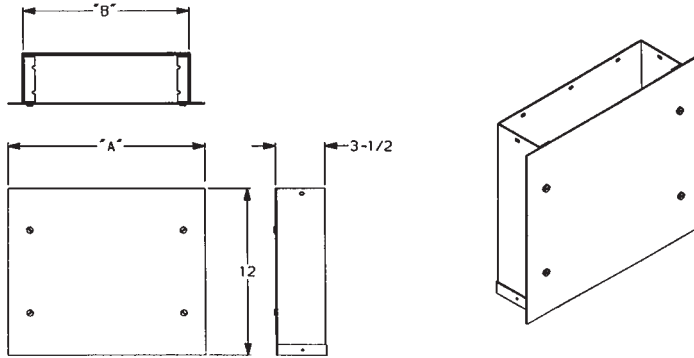


Partition

Cat. No.	Description
OWP/D	Internal duct partition

Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

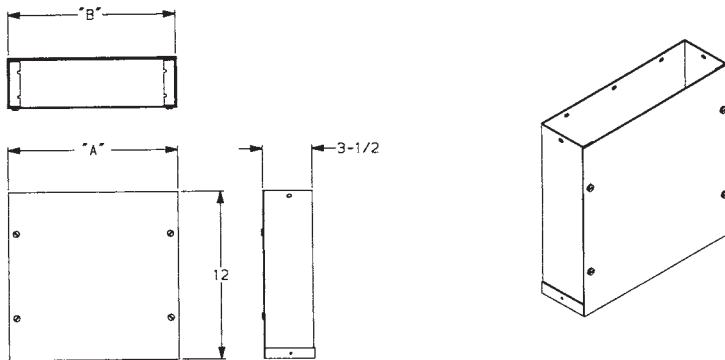


Flush Vertical Riser

Cat. No.	A	B
OWR/D12F	14"	11 ¹³ / ₁₆ "
OWR/D18F	20"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Surface Vertical Riser

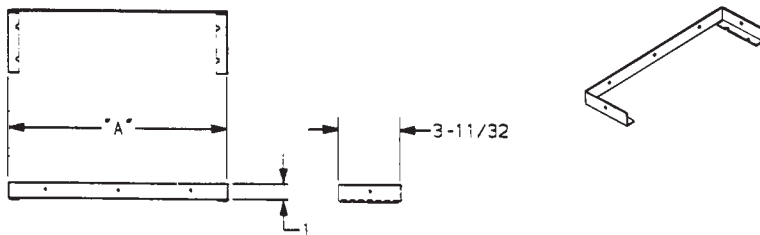
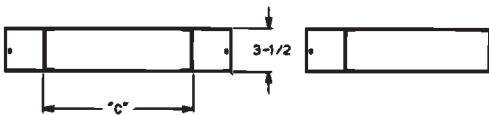
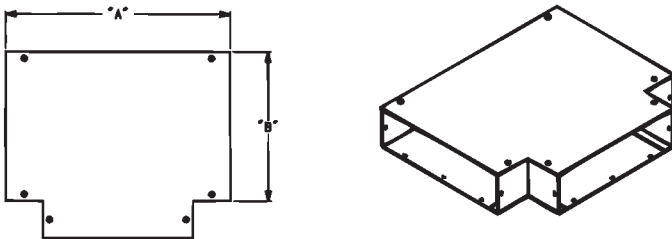
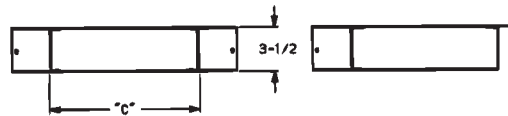
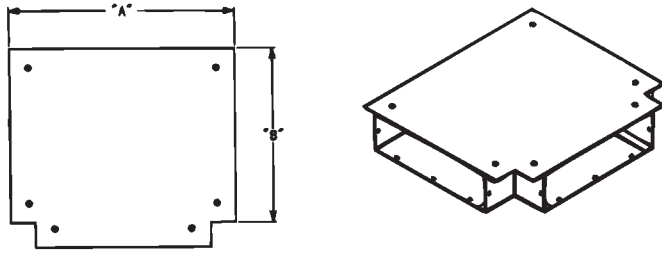
Cat. No.	A	B
OWR/D12S	12"	11 ¹³ / ₁₆ "
OWR/D18S	18"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct



Flush "T" Unit

Cat. No.	A	B	C
OWT/D12F	18"	14"	11 ¹³ / ₁₆ "
OWT/D18F	24"	20"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Surface "T" Unit

Cat. No.	A	B	C
OWT/D12S	18"	12"	11 ¹³ / ₁₆ "
OWT/D18S	24"	18"	17 ¹³ / ₁₆ "

Includes one coupling.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Trench to Wallduct Adapter

Cat. No.	A
OWV/D12	11 ⁷ / ₈ "
OWV/D18	17 ⁷ / ₈ "

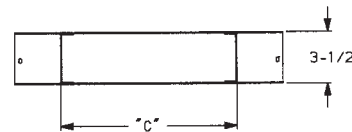
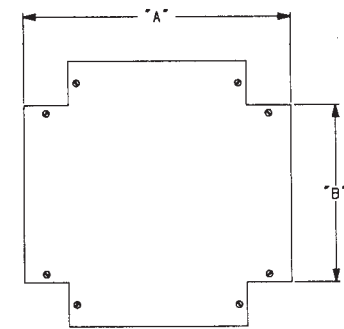
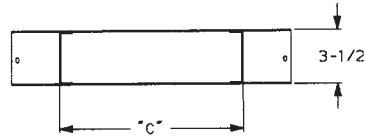
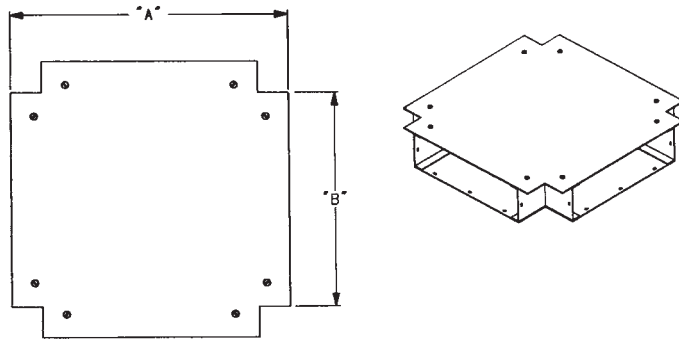
Screws included.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Raceway Solutions™

Wall Duct



Flush "X" Unit

Cat. No.	A	B	C
OWX/D12F	18"	14"	11 ¹³ / ₁₆ "
OWX/D18F	24"	20"	17 ¹³ / ₁₆ "

Includes two couplings.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245



Surface "X" Unit

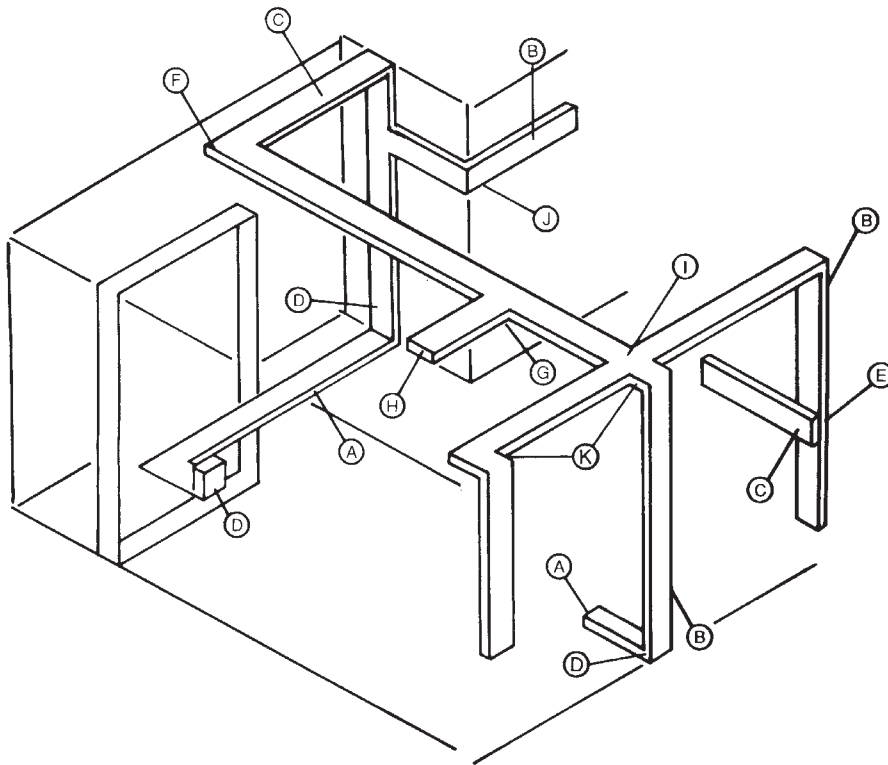
Cat. No.	A	B	C
OWX/D12S	18"	12"	11 ¹³ / ₁₆ "
OWX/D18S	24"	18"	17 ¹³ / ₁₆ "

Includes two couplings.

Material: 14 gauge pre-galvanized steel.
UL Listing No. E116245

Raceway Solutions™

Wall Duct Installation Instructions



- A. OKA/B12-3C—Trench
- B. OWA/D12F—Wall Duct
- C. OWA/D12S—Wall Duct
- D. OWR/D12F—Wall Duct Riser
- E. OWB/D12-12—Wall Duct Flush to Surface Adapter
- F. OWH/D12S—Wall Duct 90° Horizontal Elbow
- G. OWT/D12S—Wall Duct “T” Unit
- H. OWE/D12S—Wall Duct End Closure
- I. OWX/D12S—Wall Duct “X” Unit
- J. OWL/D12F—Wall Duct External Elbow
- K. OWI/D12F—Wall Duct Internal Elbow
- L. OWA/D18S—Wall Duct
- M. OWA/D18F—Wall Duct

Electrical contractor shall review the installation drawings provided and become familiar with all components used. Wall Duct must be installed and used in accordance with National Electrical Code Articles 300 and 660. Derating of power conductors as explained in note 8 of Tables 310-16 and 310-19 of the National Electrical Code shall govern. The maximum wire fill shall not exceed 40% of the interior cross sectional area of the Wall Duct. In all cases, local codes shall govern installation and use of this product.

Wall Duct may be mounted with screws through the sides or back. Screw must be installed so the head of the screw is inside the Wall Duct body. Exposed threads are not permitted on the inside of raceway. Overhead run of Wall Duct may be mounted directly to structural members or hung via trapeze. All hardware for mounting is by others, not Raceway Solutions.

All Wall Duct shall be installed, minus coverplates, before any wiring is placed in any portion of system. Wall Duct and fittings are to be assembled, minus coverplates, using the couplings and screws (8 x 1/4 PHST-AB) provided. The screws are to be installed from the inside of the bodies.

When necessary to field cut a straight length to suit conditions, the coupling holes must be field drilled. Use the coupling as a template for proper hole placement. Do not enlarge diameter of coupling holes when field drilling duct body coupling holes.

Pull boxes to be furnished by others.

Field install accessories such as partitions, etc. by match drilling 5/32" diameter holes in the duct body using holes in item as template, and installing self-tapping screws provided with each item.

All above data per NEC, Chapter 9, Table 1.

Raceway Solutions™

Wall Duct Wire Fill Capacity

Conductor	39 Sq. In. Compartment				
	RHW/RHH	TW	THW	THWN	XHHW
14	600	1122	746	1608	1122
12	442	862	600	1173	862
10	357	642	468	739	642

Conductor	59 Sq. In. Compartment				
	RHW/RHH	TW	THW	THWN	XHHW
14	908	1698	1129	2433	1698
12	669	1304	908	1774	1304
10	540	971	709	1118	971

Number of allowable conductors at 40% fill.

